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KATHLEEN K. WEST
Administrative Code Editor

STEPHANIE A. HOFF
Deputy Editor

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The Iowa Administrative Code Supplement is published biweekly pursuant to Iowa Code section 17A.6. The Supplement contains replacement chapters to be inserted in the loose-leaf Iowa Administrative Code (IAC) according to instructions included with each Supplement. The replacement chapters incorporate rule changes which have been adopted by the agencies and filed with the Administrative Rules Coordinator as provided in Iowa Code sections 7.17 and 17A.4 to 17A.6. To determine the specific changes in the rules, refer to the Iowa Administrative Bulletin bearing the same publication date.

In addition to the changes adopted by agencies, the replacement chapters may reflect objection to a rule or a portion of a rule filed by the Administrative Rules Review Committee (ARRC), the Governor, or the Attorney General pursuant to Iowa Code section 17A.4(6); an effective date delay imposed by the ARRC pursuant to section 17A.4(7) or 17A.8(9); rescission of a rule by the Governor pursuant to section 17A.4(8); or nullification of a rule by the General Assembly pursuant to Article III, section 40, of the Constitution of the State of Iowa.

The Supplement may also contain replacement pages for the IAC Index or the Uniform Rules on Agency Procedure.

INSTRUCTIONS

FOR UPDATING THE

IOWA ADMINISTRATIVE CODE

Agency names and numbers in bold below correspond to the divider tabs in the IAC binders. New and replacement chapters included in this Supplement are listed below. Carefully remove and insert chapters accordingly.

Editor's telephone (515) 281-3355 or (515) 281-8157

Aging, Department on[17]

Replace Analysis
Replace Chapter 12 with Reserved Chapter 12
Replace Chapter 15

Iowa Finance Authority[265]

Replace Analysis
Replace Chapters 29 and 30
Replace Chapter 32
Replace Chapter 35

Environmental Protection Commission[567]

Replace Chapter 135

Homeland Security and Emergency Management Division[605]

Replace Chapter 7

Public Health Department[641]

Replace Analysis
Replace Chapters 27 to 29
Replace Reserved Chapters 32 to 36 with Chapters 32 to 36

Pharmacy Board[657]

Replace Chapter 6
Replace Chapter 8
Replace Chapter 10

Public Safety Department[661]

Replace Analysis
Replace Chapter 210

Revenue Department[701]

Replace Chapter 10
Replace Chapter 71

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Replace “A”

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Prior to 5/20/87, see Commission on the Aging[20]
Delay: Effective date (June 24, 1987) of Chapters 1 to 18 delayed 70 days pursuant to Iowa Code section 17A.4(5) by the Administrative Rules Review Committee at their June 9, 1987, meeting.
[Prior to 1/27/10, see Elder Affairs Department[321]]

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CHAPTER 12
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[Prior to 3/15/06, see 321—7.7(231)]

[Prior to 1/27/10, see Elder Affairs Department[321] Ch 12]

Rescinded IAB 2/24/10, effective 3/31/10

CHAPTER 15
ELDER ABUSE PREVENTION INITIATIVE AND DEPENDENT ADULT ABUSE MANDATORY REPORTER TRAINING

[Prior to 1/27/10, see Elder Affairs Department[321] Ch 15]
[Prior to 2/24/10, see also 17—Ch 12]

17—15.1(231) Purpose. This chapter establishes the elder abuse prevention initiative as a method of providing prevention, intervention, detection, and reporting of abuse, neglect, and exploitation of older individuals and of providing service options for at-risk older adults. This chapter also establishes criteria for certifying trainers to provide dependent adult abuse mandatory reporter training.
[**ARC 8553B**, IAB 2/24/10, effective 3/31/10]

17—15.2(231) Definitions. Words and phrases used in this chapter are as defined in 17 IAC 1 unless the context of the rule indicates otherwise. The following definitions also apply to this chapter:

"Abuse" means the willful infliction of injury, unreasonable confinement, intimidation, or cruel punishment with resulting physical harm, pain, or mental anguish; or the deprivation by a person, including a caregiver, of goods or services that are necessary to avoid physical harm, mental anguish, or mental illness in an older individual.

"Adequate food, shelter, clothing, or other care" means food, shelter, clothing, or other care which, if not provided, would constitute denial of critical care.

"Assessment" means a document designated by the department to be completed by a contractor to determine service needs and address the safety of the client.

"Assessment intake" means the process by which a contractor receives and records reports of suspected elder abuse.

"At-risk older individual" or *"client"* means a person aged 60 or older who is at risk for or experiencing abuse, neglect, self-neglect, or exploitation.

"Caregiver" means an individual who has the responsibility for the care of an older individual, either voluntarily, by contract, by receipt of payment for care, or as a result of the operation of law. "Caregiver" also means a family member or other individual who provides compensated or uncompensated care to an older individual.

"Case" means a referral of suspected elder abuse that has been accepted for assessment and services.

"Contractor" means the contract recipient.

"Coordinator" means the contractor's designee who is responsible for coordinating elder abuse prevention initiative services and who is the central point of contact for case files, subcontractors, and care providers.

"Department" means the department on aging.

"Elder abuse" means abuse of an older individual and may consist of abuse, neglect, self-neglect, or exploitation.

"Exploitation" means an individual's, including a caregiver's or legal representative's, use of the resources of an older individual for monetary or personal benefit, profit, or gain that results in depriving an older individual of rightful access to, or use of, benefits, resources, belongings, or assets.

"Immediate danger to health and safety" means a situation in which death or severe bodily injury could reasonably be expected to occur without intervention.

"Legal representative" means a person appointed by the court to act on behalf of a client.

"Mandatory reporter" means a person defined in Iowa Code section 235B.3(2).

"Neglect" means the failure of a caregiver or legal representative to provide the goods or service necessary to maintain the health or safety of an older individual.

"Older individual" means a person aged 60 or older.

"Physical harm" means bodily injury, impairment, or disease.

"Purchase of service form" means the mechanism used to document and request approval for the purchase of a specific service on behalf of a client.

"Referral" means any information received by a contractor from any source that identifies an individual aged 60 or older as experiencing, or at risk of, abuse, neglect, or exploitation.

"Self-neglect" means an older individual's inability, due to physical or mental impairment or diminished capacity, to perform essential self-care tasks, including obtaining essential food, clothing, shelter, and medical care; obtaining goods and services necessary to maintain physical health, mental health, or general safety; or managing one's own financial affairs.

"Service provider" means a provider receiving funds from a contractor.

[**ARC 8553B**, IAB 2/24/10, effective 3/31/10]

17—15.3(231) Project administration. In any year in which funds are available for the elder abuse prevention initiative, the department shall contract with local agencies or organizations to administer available funds and to study and evaluate community-based projects and educational programs for the prevention of elder abuse. The contractors shall utilize the funds to provide community-based services for older individuals who have been the subject of suspected elder abuse or for the provision of educational programs to raise awareness about elder abuse. Agencies or organizations that receive elder abuse prevention initiative funds shall submit a proposal to the department one month prior to the commencement of the fiscal year. Proposals shall contain the following:

1. Project summary, including issues the project will address;
2. Projection of the number of older individuals to be served;
3. Description of services to be provided;
4. Description of community support for the project;
5. Designation of evaluation and audit mechanisms;
6. Project budget; and
7. Evaluation plan.

[**ARC 8553B**, IAB 2/24/10, effective 3/31/10]

17—15.4(231) Contractor responsibilities.

15.4(1) A contractor or subcontractor shall have a designated coordinator to administer elder abuse prevention initiative funds and services who meets all of the following qualifications:

a. A bachelor's degree in a human services field and a minimum of four years of experience in a human services and gerontology field. A contractor may submit a request in writing to the department for an exception to this requirement for any coordinator hired after April 1, 2010;

b. Completion of dependent adult abuse mandatory reporter training requirements in accordance with Iowa Code section 235B.16 prior to direct client contact;

c. Completion of orientation and training provided by the department prior to direct client contact related to utilization of the assessment tool; service coordination and monitoring; performance measures and outcome evaluation; advocacy and public awareness training; and

d. Eight hours of annual training related to dependent adult or elder abuse.

15.4(2) Staff members utilized by a contractor or subcontractor to provide services shall meet all of the following qualifications:

a. A minimum of two years of experience in the human services field;

b. Completion of dependent adult abuse mandatory reporter training requirements in accordance with Iowa Code section 235B.16 prior to direct client contact; and

c. Completion of orientation and training provided by the department related to utilization of the assessment tool; service coordination and monitoring; performance measures and outcome evaluation; advocacy and public awareness training prior to direct client contact.

15.4(3) A contractor shall utilize the assessment forms, purchase of services forms, procedures, and software systems specified by the department.

15.4(4) A contractor shall ensure that:

a. Record checks have been conducted for any coordinator, staff member, volunteer, or other person who performs duties under a contract or subcontract who:

(1) Has direct responsibility for the client, or

(2) Has access to a client when the client is alone.

b. The record checks shall be conducted to determine whether the person:

(1) Has any founded child abuse reports;

(2) Has any founded dependent adult abuse reports;
(3) Has any criminal convictions; or
(4) Has been placed on the sex offender registry.
[**ARC 8553B**, IAB 2/24/10, effective 3/31/10]

17—15.5(231) Funding restrictions. The use of funding is restricted as follows:

1. A contractor shall determine that the client is not eligible to receive services under another funding source prior to authorizing the use of elder abuse prevention initiative funds and shall document this in the assessment.

2. Services funded shall reduce or eliminate abuse, neglect, self-neglect, exploitation, or risk of the same.

3. The funds shall be utilized for one-time expenditures but may be used for ongoing or monthly expenditures if no other funding source is available and the client would otherwise remain in an abusive situation.
[**ARC 8553B**, IAB 2/24/10, effective 3/31/10]

17—15.6(231) Reallocation of funds. The contractor shall report, in writing, any projected underexpenditure of funds prior to the completion of the contract. The department may reallocate such funds to other contractors for the same purpose or to the department's elder abuse prevention efforts.
[**ARC 8553B**, IAB 2/24/10, effective 3/31/10]

17—15.7(231) Eligibility. If funding is available, an older individual shall be eligible for assistance under the elder abuse prevention initiative if all of the following criteria are met:

15.7(1) If abuse, neglect, exploitation, or self-neglect exists, or there is risk of same. Abuse, neglect, exploitation, or self-neglect includes the deprivation of the minimum food, shelter, clothing, supervision, physical care, mental health care, or other care necessary to maintain the older individual in an independent living arrangement.

15.7(2) The older individual is not a resident in a nursing facility as defined in Iowa Code section 135C.1(13). Exceptions may be granted by the department on a case-by-case basis.
[**ARC 8553B**, IAB 2/24/10, effective 3/31/10]

17—15.8(231) Assessment intake. A contractor shall accept all referrals for at-risk older individuals who may be experiencing abuse, neglect, self-neglect, or exploitation. The primary purpose of intake is to obtain available and pertinent information regarding an allegation of elder abuse to determine whether or not a referral becomes a case. When a referral is received, the contractor shall record all allegations and concerns on the intake portion of the assessment form to determine the priority level of the case as follows:

15.8(1) *Priority 1.* The at-risk older individual's health or safety is in immediate danger, and the individual requires immediate intervention. The contractor shall contact appropriate agencies such as the department of human services, emergency medical services, and law enforcement. A face-to-face visit with the at-risk older individual and completion of the assessment form shall occur after the life-threatening situation is resolved and within one business day.

15.8(2) *Priority 2.* The at-risk older individual's health or safety is not in immediate danger, but the risk is real and foreseeable in the future. A face-to-face visit with the at-risk older individual and completion of the assessment shall be made within four working days.

15.8(3) *Priority 3.* The at-risk older individual's health or safety is not in immediate danger, but there is potential risk for abuse, neglect, self-neglect, or exploitation. Contact with the at-risk older individual is required within ten working days.
[**ARC 8553B**, IAB 2/24/10, effective 3/31/10]

17—15.9(231) Release of information. A release of information form designated by the department shall be signed by the at-risk older individual or the individual's legal representative prior to the provision of services. In Priority 1 cases, if obtaining the at-risk older individual's signature will delay the process of immediate intervention or the protection of the at-risk older individual's safety, telephone approval

is acceptable and shall be documented in the assessment. In this circumstance, appropriate signatures shall be obtained as soon as the life-threatening situation is resolved and a face-to-face assessment is conducted. A release shall also be signed by a client or the client's legal representative if photographs, electronic images, or recordings are taken involving the client or the client's home.
[**ARC 8553B**, IAB 2/24/10, effective 3/31/10]

17—15.10(231) Assessment. A comprehensive assessment shall be completed on each client within the time frames specified in 17—15.8(231) to protect the client's safety and provide for services where necessary and desired by the client. The tasks associated with completion of the assessment are:

15.10(1) *Interviewing the alleged victim.* This shall include interviewing the at-risk older individual to identify the nature and scope of the abuse or risk; assessing the at-risk older individual's cognitive, emotional, and physical capabilities, home environment, relationships with others living in the residence, relationships with any service providers, and information on the alleged offender; and gathering any information related to prior incidences of similar abuse or risk. Interviews with the alleged victim shall occur without the alleged offender present.

15.10(2) *Interviewing other sources.* Attempts shall be made to conduct interviews with persons who have relevant information to share about allegations.

15.10(3) *Evaluating the information.* Evaluation of the information shall include an analysis that confirms whether or not the alleged victim meets the eligibility criteria for services.

15.10(4) *Intervention plan.* An intervention plan designed to address the victim's situation shall be developed for all clients who are found to be eligible for services and, at a minimum, shall include a service plan, desired outcomes, funding source, and dates to review progress. If the situation is perpetuated by an older individual's personal choices, the intervention plan shall note this.
[**ARC 8553B**, IAB 2/24/10, effective 3/31/10]

17—15.11(231) Monitoring and reassessment. A contractor shall monitor the provision of services identified in the intervention plan. A contractor shall conduct and document a face-to-face client reassessment every six months or whenever there is a significant change in the client's physical health, mental health, economic status, or risk status and shall update the intervention plan accordingly.
[**ARC 8553B**, IAB 2/24/10, effective 3/31/10]

17—15.12(231) Purchase of service. A contractor may subcontract with a service provider for the provision of services. Any service provided by a contractor or a subcontractor shall be documented on a purchase of service form designated by the department. A subcontractor shall send the purchase of service form to the coordinator for approval prior to the expenditure of funds. Notification of approval or denial shall be sent to the subcontractor via E-mail or fax and shall be retained in the client's case record. A service provider shall bill the contractor within 30 days of rendering a service. A copy of all invoices shall be kept in the client's case record.
[**ARC 8553B**, IAB 2/24/10, effective 3/31/10]

17—15.13(231) Case records.

15.13(1) A case record shall be maintained for each client and shall contain copies of the assessments and any related correspondence or information that pertains to the assessment of the client, intervention plan, medical records, updates, legal representation documents, and documentation of dates, times, travel, activities, and expenditures related to the client. The department shall have complete access to all client case records during regular business hours and upon request.

15.13(2) Case records shall be maintained for a minimum of five years from the date a case is closed in accordance with Iowa Code chapter 305. A case record that is closed shall contain completed assessments; signed release of information forms; purchase of service forms and invoices for services rendered; department of human services' dependent adult abuse report forms; photographs, electronic images, or recordings; and all case documentation, records, and notes.
[**ARC 8553B**, IAB 2/24/10, effective 3/31/10]

17—15.14(231) Refusal of assistance. A client has the right to refuse services at any time. However, if dependent adult abuse is suspected, the abuse shall be reported to law enforcement, the department of human services, and the county attorney pursuant to mandatory reporting requirements.
[**ARC 8553B**, IAB 2/24/10, effective 3/31/10]

17—15.15(231) Termination or limitation. A contractor may terminate or limit the provision of services under circumstances including but not limited to the following:

1. Services are no longer needed or do not benefit the client;
2. The client moves out of state or outside the service area;
3. The client moves into a nursing facility as defined in Iowa Code section 135C.1(13);
4. The client or the client's legal representative requests termination of services;
5. The client is unwilling or unable to meet the terms in the intervention plan;
6. The client's legal representative refuses to provide information needed for the development of an intervention plan; or
7. There is risk of harm to the contractor or service provider.

[**ARC 8553B**, IAB 2/24/10, effective 3/31/10]

17—15.16(231) Confidentiality and disclosure. Client identification numbers shall be used to maintain confidentiality. All case records shall be maintained by the department and the contractor as confidential records pursuant to Iowa Code section 22.7 and shall not be disclosed except with the written consent of the client or the client's legal representative.
[**ARC 8553B**, IAB 2/24/10, effective 3/31/10]

17—15.17(231) Legal representatives.

15.17(1) A legal representative shall provide appointment papers, a court order, or power of attorney documentation within 72 hours of being contacted by a contractor. The legal representative's signature shall be obtained on the assessment before the client receives services.

15.17(2) If there is suspicion of abuse, neglect, exploitation or self-neglect of an older individual and the legal representative will not permit access to the older individual, the contractor shall make oral and written reports to the department of human services and local law enforcement pursuant to Iowa Code section 235B.3. The contractor shall also notify the judge in probate for the county in which the guardianship or conservatorship was filed by certified letter within five days of the denial of access. The notification shall detail concerns and potential consequences of the guardian's or conservator's action or inaction that appears not to be in the best interest of the older individual.
[**ARC 8553B**, IAB 2/24/10, effective 3/31/10]

17—15.18(231) Appeals. Complaints by any aggrieved party shall be heard first by the contractor using the contractor's procedures and shall be exhausted before the department is contacted. Appeals made by any aggrieved party to the department shall follow the procedures set forth in 17—2.9(231).
[**ARC 8553B**, IAB 2/24/10, effective 3/31/10]

17—15.19(231) Conflict of interest. Conflict of interest includes any action or failure to act that may be an actual or perceived conflict between official duties and personal interest. Conflict of interest exists when an elder abuse prevention initiative contractor or any entity or individual involved in that program:

1. Uses an official position for private gain (other than salary);
2. Gives preferential treatment to any contractor, entity, or individual or fails to act impartially in the conduct of official duties;
3. Impedes or adversely affects governmental efficiency or economy;
4. Engages in conduct that could adversely affect the confidence of the public in the integrity of the elder abuse prevention initiative;
5. Creates circumstances where it might reasonably be perceived that a contractor's, an entity's, or an individual's judgment could be influenced by the nature of the circumstances; or

6. Has a client that is related to the contractor, entity, or individual within the third degree of consanguinity.
[**ARC 8553B**, IAB 2/24/10, effective 3/31/10]

17—15.20(235B) Dependent adult abuse mandatory reporter training. The department shall develop and maintain a dependent adult abuse mandatory reporter training curriculum in accordance with Iowa Code section 235B.16(2). The curriculum shall comply with the specifications of the department of public health's abuse education review panel as provided in 641 IAC 93.

15.20(1) The department shall certify trainers to provide the department's approved dependent adult abuse mandatory reporter curriculum. A trainer shall not utilize the department's curriculum unless the trainer has been certified by completing the department's required training program.

15.20(2) The department's training program shall include but is not limited to information on laws, rules, and regulations relating to all forms of dependent adult abuse and reporting requirements.

15.20(3) A trainer's certification shall be valid for three years from the date of issuance and must be renewed by completion of the department's training program.

15.20(4) The department may revoke a trainer's certification for noncompliance with training requirements after a written warning.

15.20(5) Certified trainers shall notify the department of changes in contact information, such as address, E-mail, and telephone number. Certified trainers shall be responsible for checking the department's Web site for curriculum updates.
[**ARC 8553B**, IAB 2/24/10, effective 3/31/10]

17—15.21(231) Severability. Should any rule, subrule, paragraph, phrase, sentence, or clause of this chapter be declared invalid or unconstitutional for any reason, the remainder of this chapter shall not be affected thereby.
[**ARC 8553B**, IAB 2/24/10, effective 3/31/10]

These rules are intended to implement Iowa Code sections 231.56A and 235B.16 and chapter 249H and Title VII of the federal Older Americans Act.

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IOWA FINANCE AUTHORITY[265]

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265—29.1(16) Purpose. This chapter defines and structures the jump-start housing assistance program to aid individuals whose homes, located in parts of Iowa declared by the President of the United States to be disaster areas, were destroyed or damaged by the natural disasters of 2008. Under the program, the authority may grant funds in accordance with this chapter to local government participants, including certain Iowa councils of governments, cities, and counties. The local government participants shall, in turn, loan funds to eligible residents under the conditions specified in this chapter to assist those eligible residents in purchasing homes generally comparable to those they lived in prior to the occurrence of the natural disasters of 2008, in repairing or rehabilitating disaster-affected homes, and in making mortgage payments and paying for other eligible property-carrying costs while the eligible residents await a property acquisition of their disaster-affected homes.

265—29.2(16) Definitions. For purposes of this chapter, the following definitions apply.

"Authority" means the Iowa finance authority.

"COG" means an Iowa council of governments as identified by Iowa Code chapter 28H.

"Disaster-affected home" means a primary residence that was destroyed or damaged by the natural disasters of 2008.

"Disaster compensation" means moneys received by an eligible resident as a result of damage caused to the eligible resident's disaster-affected home by the natural disasters of 2008 from any of the following sources: (1) FEMA, (2) any other governmental assistance, or (3) proceeds of any insurance policy. "Disaster compensation" shall not include rental assistance received from FEMA or other sources.

"Eligible energy-efficient home appliances and improvements" means energy-efficient furnaces, boilers, appliances, air conditioners, hot water heaters, windows, and insulation that meet standards set by the office of energy independence.

"Eligible property-carrying costs" means the following expenses associated with the ownership of a disaster-affected home: liability insurance premiums, flood insurance premiums, property tax payments, installment payments on a real estate purchase contract for the disaster-affected home provided that the real estate purchase contract was executed prior to the first date on which the disaster-affected home sustained damage as a result of the natural disasters of 2008, and special assessments.

"Eligible repair expenses" means the reasonable cost of repairing damage to a disaster-affected home necessitated by the natural disasters of 2008. "Eligible repair expenses" shall not include additions to or expansions of a disaster-affected home or the purchase or installation of luxury items that were not part of the disaster-affected home prior to the natural disasters of 2008.

"Eligible resident" means an individual or family who resided in a disaster-affected home at the time of the natural disasters of 2008 and who:

1. Is the owner of record of a right, title or interest in the disaster-affected home; and
2. Has been approved by FEMA for housing assistance as a result of the natural disasters of 2008.

In cases where multiple persons own a disaster-affected home together, such as by a tenancy in common or joint tenancy, such persons will generally be deemed collectively to be the "eligible resident," provided the requirements set forth above are met. In the event that multiple persons assert inconsistent claims as to who the owner of a disaster-affected home is, the local government participant shall review the facts and, if necessary, make an allocation among the various applicants.

"FEMA" means the Federal Emergency Management Agency.

"Forgivable loan" means a loan made to an eligible resident pursuant to the requirements of this chapter.

"Local government participant" means:

1. Any of the following Iowa cities: Ames, Cedar Falls, Cedar Rapids, Council Bluffs, Davenport, Des Moines, Dubuque, Iowa City, Waterloo, and West Des Moines;

2. Any COG whose territory encompasses one or more Iowa counties that have been declared by the President of the United States to be disaster areas; and

3. Any county that is not part of any Iowa council of governments and has been declared by the President of the United States to be a disaster area.

"Natural disasters of 2008" means the severe storms, tornadoes, and flooding that occurred in Iowa between May 25, 2008, and August 13, 2008, and designated by FEMA as FEMA-1763-DR.

"Program" means the jump-start housing assistance program described in this chapter.

"Retention agreement" means an agreement, to be recorded as a lien against the property for which assistance is provided, requiring that if an eligible resident sells a home that was purchased or repaired or for which a mortgage loan was paid with the assistance of a loan made under this chapter, then that portion of the original principal amount that has not been forgiven, if any, shall be repaid.

265—29.3(16) Grants to local government participants.

29.3(1) *Allocation criteria.*

a. Initial allocation, loans to local government participants. The authority shall make an initial allocation of the funds made available for the program to the local government participants pro rata based on the funds awarded by FEMA under its housing assistance program to each local government participant's jurisdiction as a percentage of the total amount of funds awarded as a result of the natural disasters of 2008. The authority shall enter into a grant agreement with each local government participant, pursuant to which the authority may disburse funds to the local government participant for the purposes described in this chapter. The grant agreement shall be prepared by the authority and may contain such terms and conditions, in addition to those specified in this chapter, as the executive director may deem to be necessary and convenient to the administration of the program and to the efficient and responsible use of the granted funds.

b. Funds made available pursuant to 2009 Iowa Acts, Senate File 376. The authority shall allocate program funds made available under 2009 Iowa Acts, Senate File 376, section 29, Disaster Damage Housing Assistance Grant Fund [creating Iowa Code section 16.186], by inviting local government participants to submit an application for funding. The authority shall award program funding made available under this paragraph based upon priority criteria to be specified in the application form including, but not limited to, the following:

(1) The applicant's demonstrated maximum use and leverage of other disaster recovery resources; and

(2) Provision of program assistance to the maximum number of potential eligible residents with priority given to eligible residents who:

1. Have not received any moneys under the program;

2. Are in need of an interim mortgage assistance extension meeting the conditions specified in subrule 29.5(2); and

3. Are not eligible for assistance under the requirements of other available disaster recovery assistance programs.

29.3(2) *Review of requests for assistance.* The local government participant shall accept and review each request for assistance and shall determine whether the requesting party is an eligible resident. If the requesting party is determined an eligible resident, the local government participant shall determine whether the funds are being requested for a use permitted under the program and the amount available to the eligible resident under the terms of the program.

29.3(3) *Coordination with the jump-start business assistance program.* For presidentially declared disaster areas outside a COG region, counties may elect to apply singly, join with other counties, or join with an adjacent COG region. Likewise, a city named in the definition of "local government participant" in rule 265—29.2(16) may join with a COG, county, or multicounty entity. To the extent local government participants act jointly or cooperatively in their participation in the small business disaster recovery financial assistance program administered by the Iowa department of economic development pursuant to 261—Chapter 78, Iowa Administrative Code, the authority may require the

local government participants to similarly act jointly or cooperatively in their participation under this chapter.

29.3(4) *Reallocation of unused funds.* Following one year, or following any three-month period during which a local government participant has requested no draws, the authority may reallocate all or part of any remaining portion of funds allocated to that local government participant to another local government participant with a demonstrated need for program funds.

29.3(5) *Administrative fees.* Each local government participant shall be entitled to receive an administrative fee equal to 5 percent of its initial disbursement, which shall consist of 30 percent of the local government participant's initial allocation. Subsequent thereto, each local government participant shall receive 5 percent of the funds loaned by the local government participant to eligible residents under the program from subsequent disbursements. The administrative fee shall be paid from the allocation made to each such local government participant by the authority pursuant to subrule 29.3(1).

29.3(6) *Proceeds of repayments.* All loan amounts repaid to a local government participant by an eligible resident pursuant to this chapter shall be returned to the authority's housing assistance fund created by Iowa Code Supplement section 16.40.

[**ARC 7899B**, IAB 7/1/09, effective 6/10/09; **ARC 8074B**, IAB 8/26/09, effective 9/30/09]

265—29.4 Reserved.

265—29.5(16) Eligible uses.

29.5(1) *Forgivable loans.* Local government participants may make forgivable loans, pursuant to the conditions set forth in rule 265—29.7(16), to eligible residents for the following eligible uses:

a. Down payment assistance. An eligible resident whose disaster-affected home was destroyed or damaged beyond reasonable repair may be provided down payment assistance for the purchase of replacement housing located within the local government participant's jurisdiction and, if necessary, for the cost of making reasonable repairs to the home being purchased to make it safe, decent, and habitable. The amount of down payment assistance available to an eligible resident shall generally not exceed 25 percent of the purchase price of the home being purchased and, in no event, shall the down payment assistance and any amount allowed for repairs collectively exceed $50,000.

(1) For purposes of calculating the amount of down payment assistance available to the eligible resident, the amount of the down payment assistance shall be reduced by the amount of any disaster compensation received by the eligible resident in excess of any amount necessary to pay off a mortgage or real estate purchase contract on the disaster-affected home.

(2) As a condition of receiving down payment assistance, the eligible resident shall agree that any disaster compensation received subsequent to the closing of the forgivable loan, if not applied toward repayment of a mortgage on the disaster-affected home, shall be used by the eligible resident to pay down the balance of the forgivable loan outstanding at the time the eligible resident receives such disaster compensation.

(3) Down payment assistance shall be allowed only for the purchase of a primary residence by means of a fully amortized mortgage loan from a regulated lender featuring a rate of interest that is fixed for at least 5 years and that has a term not to exceed 30 years.

(4) Eligible residents who receive down payment assistance under this subrule may also receive the assistance available under subrule 29.5(2), but not the assistance available under paragraph 29.5(1)*"b."*

(5) An eligible resident shall not use the assistance allowed under this subrule for the purchase of more than one home.

b. Housing repair or rehabilitation. An eligible resident whose disaster-affected home is not proposed, or located in an area proposed, by a municipality or county to the Iowa homeland security and emergency management division for property acquisition under the hazard mitigation grant program set forth in Iowa Code chapter 29C (or under any other comparable program implemented in whole or in part to assist in recovery from the natural disasters of 2008) may receive financial assistance to pay for eligible repair expenses up to an amount not to exceed the lesser of $50,000 or 60 percent of the latest available assessed value of the disaster-affected home, not including the assessed value of the land on

which it is situated, dated prior to the natural disasters of 2008; provided, however, that for application purposes under paragraph 29.3(1)*"b"* allocating program funds under 2009 Iowa Acts, Senate File 376, section 29, the local government participant may elect to establish its own measure of housing repair or rehabilitation financial feasibility in lieu of 60 percent of the latest available assessed value of the disaster-affected home, not including the assessed value of the land on which it is situated, dated prior to the natural disasters of 2008. The eligible resident shall establish the necessity and reasonable cost of the repairs or rehabilitation to the reasonable satisfaction of the local government participant.

(1) For purposes of calculating the amount of assistance available to the eligible resident pursuant to this paragraph, the cost of repairs to, or rehabilitation of, the disaster-affected home shall be reduced by the amount of any disaster compensation received.

(2) As a condition of receiving assistance pursuant to this paragraph, the eligible resident shall agree that any disaster compensation received subsequent to the closing of the forgivable loan shall be used by the eligible resident to pay down the balance of the forgivable loan outstanding at the time the eligible resident receives such disaster compensation.

(3) An eligible resident who receives assistance pursuant to this paragraph shall not be eligible for assistance under either paragraph 29.5(1)*"a"* or subrule 29.5(2).

29.5(2) *Interim mortgage assistance loans.* An eligible resident whose disaster-affected home is proposed, or is located in an area proposed, by a municipality or county to the Iowa homeland security and emergency management division for property acquisition under the hazard mitigation grant program set forth in Iowa Code chapter 29C (or any other comparable program implemented in whole or in part to assist in recovery from the natural disasters of 2008) may receive financial assistance equivalent to an amount of up to $1,000 per month for the purpose of paying mortgage payments and other eligible property-carrying costs for the disaster-affected home for a period not to exceed 12 months. An eligible resident who receives assistance pursuant to this subrule shall not be eligible for assistance under paragraph 29.5(1)*"a."* If, however, it subsequently is determined by the Iowa homeland security and emergency management division that the disaster-affected home of the eligible resident will not be acquired under the hazard mitigation grant program, then the eligible resident shall be eligible for assistance under paragraph 29.5(1)*"a"* on the condition that the amount of assistance available under that paragraph shall be reduced by the amount of assistance received by the eligible resident under subrule 29.5(2). Financial assistance provided pursuant to this subrule shall be in the form of a forgivable loan.

a. Notwithstanding the foregoing, with the approval of the applicable local government participant, an eligible resident may receive financial assistance under this subrule for up to an additional 6 months (beyond the usual 12-month limit set forth above), provided that all of the following conditions are met:

(1) The eligible resident must reapply for or request an extension of financial assistance on forms to be provided by the applicable local government participant;

(2) The disaster-affected home for which an extension of financial assistance is sought must continue to be on the current hazard mitigation grant program (or comparable program) property acquisition list (i.e., it must continue to be proposed for buyout);

(3) The disaster-affected home for which an extension of financial assistance is sought must have been destroyed or damaged beyond reasonable repair such that the eligible resident is displaced from the home;

(4) The eligible resident must have contacted or must agree to contact the mortgage holder or an Iowa Mortgage Help counseling agency (Web site: www.iowamortgagehelp.com) to discuss the situation and, if possible, negotiate better terms.

b. Local government participants may fund extensions of financial assistance only from funds already allocated to their region. Local government participants shall give priority for extensions of financial assistance to those eligible residents who are supporting the costs of both the disaster-affected home and a new primary residence through a second mortgage payment or a rental payment.

29.5(3) *Energy efficiency assistance.* An eligible resident who receives either down payment assistance pursuant to paragraph 29.5(1)*"a"* or housing repair or rehabilitation assistance pursuant to

paragraph 29.5(1)*"b"* shall also be eligible to receive an additional loan amount, up to a maximum of $10,000, as reimbursement for the purchase and installation costs for eligible energy-efficient home appliances and improvements. Any amount allowed pursuant to this subrule shall be added to the principal balance of the forgivable loan. Amounts loaned pursuant to this subrule may be loaned either at the time the forgivable loan is first made or subsequent thereto within three months.

29.5(4) *Expenses incurred prior to September 19, 2008.* In the event an eligible resident purchased a home, made or caused to be made repairs to a disaster-affected home, or made mortgage payments (or paid for other eligible property-carrying costs) for a disaster-affected home located within the jurisdiction of a local government participant prior to September 19, 2008 (the effective date of this chapter), the eligible resident shall be eligible for reimbursement therefor under this chapter as though the purchase, repairs, or payments had taken place following September 19, 2008.

29.5(5) *Applications for assistance.* To apply for down payment assistance or down payment assistance plus interim mortgage assistance, the eligible resident shall apply to the local government participant in whose jurisdiction the home being purchased is located. To apply for assistance for repair or rehabilitation of a disaster-affected home, the eligible resident shall apply to the local government participant in whose jurisdiction the disaster-affected home is located. To apply for interim mortgage assistance only, the eligible resident shall apply to the local government participant in whose jurisdiction the disaster-affected home is located.

[**ARC 7842B**, IAB 6/17/09, effective 5/14/09; **ARC 7899B**, IAB 7/1/09, effective 6/10/09; **ARC 8074B**, IAB 8/26/09, effective 9/30/09; **ARC 8075B**, IAB 8/26/09, effective 9/30/09]

265—29.6(16) Loan terms. Loans made under the program shall, at a minimum, contain the following terms:

29.6(1) *Forgivability.* Forgivable loans made pursuant to the program shall be forgivable over a five-year period. One-fifth of the total principal amount loaned shall be forgiven following each full year the eligible resident owns the home for which the loan was made, beginning on the date of the final disbursement of forgivable loan proceeds.

29.6(2) *Zero percent interest.* Loans made pursuant to the program shall bear no interest.

29.6(3) *Five-year term.* All loans made pursuant to the program shall be for a term of five years.

29.6(4) *Repayment due upon sale of home.* Any principal of a forgivable loan that has not yet been forgiven at the time the home for which the forgivable loan was made is sold by the eligible resident (including property acquisitions) shall be due and payable upon such sale.

29.6(5) *Retention agreement.* Each loan made pursuant to this program shall be secured by a retention agreement which shall constitute a lien on the title of the real property for which the forgivable loan is made until such time as the forgivable loan has either been fully forgiven or paid in full; provided, however, that in the case of a property acquisition under the hazard mitigation grant program set forth in Iowa Code chapter 29C (or under any other comparable program implemented in whole or in part to assist in recovery from the natural disasters of 2008), payment of the following shall be waived:

a. That portion of the repayment due for a down payment assistance loan made under paragraph 29.5(1)*"a"* or an interim mortgage assistance loan made under subrule 29.5(2), provided that the amount so waived shall not exceed $25,000; and

b. That portion of the repayment due for a housing repair or rehabilitation assistance loan made under paragraph 29.5(1)*"b"* for which the eligible resident provides documentation that the assistance was expended for the purpose for which it was awarded.

[**ARC 7842B**, IAB 6/17/09, effective 5/14/09; **ARC 8075B**, IAB 8/26/09, effective 9/30/09; **ARC 8323B**, IAB 12/2/09, effective 11/4/09; **ARC 8546B**, IAB 2/24/10, effective 3/31/10]

265—29.7(16) Financial assistance subject to availability of funding. All financial assistance authorized pursuant to this chapter shall be subject to funds being made available to the authority for the purposes set forth herein.

265—29.8(16) Funds allocated pursuant to 2009 Iowa Acts, House File 64, division I. Notwithstanding the foregoing, the following additional restrictions shall apply to loans made pursuant to program funding allocated under 2009 Iowa Acts, House File 64, division I:

29.8(1) *Income.* An eligible resident must have a family income equal to or less than 150 percent of the area median family income.

29.8(2) *Application deadline.* An eligible resident must submit an application for assistance by September 1, 2009.

29.8(3) *Priorities.* Forgivable loans awarded under this rule shall be awarded pursuant to the following priorities:

a. *First priority.* First priority shall be given to eligible residents who have not received any moneys under the program.

b. *Second priority.* Second priority shall be given to eligible residents who have received less than $24,999 under the program.

c. *Third priority.* Third priority shall be given to eligible residents who have received $24,999 under the program and who continue to have unmet needs for down payment assistance, emergency housing repair or rehabilitation, interim mortgage assistance, or energy efficiency assistance. An eligible resident shall not receive more than an additional $24,999 under this paragraph.

29.8(4) *Maximum assistance.* Except as provided in paragraph 29.8(3)*"c,"* an eligible resident who meets the area median family income requirement shall not receive more than $24,999 under the program.
[**ARC 7899B**, IAB 7/1/09, effective 6/10/09; **ARC 8074B**, IAB 8/26/09, effective 9/30/09]

These rules are intended to implement Iowa Code sections 16.5(1)*"r"* and 16.40, 2009 Iowa Acts, Senate File 376, section 29, and 2009 Iowa Acts, House File 64, division I.

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CHAPTER 30
QUALIFIED MIDWESTERN DISASTER AREA BOND ALLOCATION

265—30.1(16) General. The governor has appointed the executive director of the Iowa finance authority as the governor's designee responsible for administration of the law which establishes procedures for allocating the authority to issue up to a specified amount of qualified midwestern disaster area ("MDA") bonds as defined in Section 1400N of the Internal Revenue Code, as amended by the Heartland Disaster Tax Relief Act ("Act") of 2008. The Act was passed in response to the disasters attributable to the severe storms, tornadoes, and flooding that gave rise to any of the presidential declarations of a major disaster on or after May 20, 2008, and before August 1, 2008, under Section 401 of the Robert T. Stafford Disaster Relief and Emergency Assistance Act and that were determined by the President to warrant individual or individual and public assistance from the federal government under such Act with respect to damages attributable to such severe storms, tornadoes, or flooding (collectively, "disasters"). The Act limits the aggregate face amount of bonds that may be designated as MDA bonds. The role of the governor's designee is to allocate on behalf of particular projects authorization to issue specified allotments of MDA bonds from the total aggregate face amount permitted under the Act. The authority to issue up to a specified face amount of MDA bonds, as allocated to a particular project pursuant to this chapter, may be referred to herein as an "allotment." Procedures set out in the Act and in these rules shall be followed in allocating allotments for the various purposes authorized by the Act. The allotments shall be allocated among all eligible applicants for those various purposes in accordance with the Act, Executive Order Number 9, and these rules.
[**ARC 7703B**, IAB 4/8/09, effective 5/13/09]

265—30.2(16) Forms. Information and forms necessary for compliance with provisions of the law are available upon request from the Iowa Finance Authority, 2015 Grand Avenue, Des Moines, Iowa 50312. The telephone number of the authority is (515)725-4900. Information and forms are also available at www.iowafinanceauthority.gov.
[**ARC 7703B**, IAB 4/8/09, effective 5/13/09]

265—30.3(16) Eligibility for allocation.

30.3(1) In the case of a project involving a private business use (as defined in Section 141(b)(6) of the Internal Revenue Code), to be eligible for an allotment, the applicant must certify that the entity using the property either:

a. Suffered a loss in a trade or business attributable to the disasters; or

b. Is a person replacing a trade or business with respect to which another person suffered such a loss.

30.3(2) In the case of a project relating to public utility property (as defined in Section 168(i)(10) of the Internal Revenue Code), to be eligible for an allotment, the applicant must certify that the project involves repair or reconstruction of public utility property damaged by the disasters.

30.3(3) For a project to be eligible for an allotment as a qualified mortgage issue, the applicant must certify that 95 percent or more of the net proceeds (as defined in Section 150(a)(3) of the Internal Revenue Code) of the issue are to be used to provide financing for mortgagors who suffered damages to their principal residences attributable to the disasters.
[**ARC 7703B**, IAB 4/8/09, effective 5/13/09; **ARC 8548B**, IAB 2/24/10, effective 2/4/10]

265—30.4(16) Allocation limit and Iowa department of economic development set-aside.

30.4(1) Per-applicant cap; set-aside.

a. Through December 31, 2011, allotments shall be limited to not more than $200 million per applicant, with any related party, as defined under Section 267 of the Internal Revenue Code, being included within the meaning of applicant for the application of subrule 30.4(1).

b. Through December 31, 2011, an amount of $300 million shall be set aside and made available to applicants selected by the Iowa department of economic development. The director of the Iowa department of economic development shall notify the authority in writing of the name of each applicant

that is to receive an allotment under subrule 30.4(1) and the amount allotted to each applicant. Promptly upon receipt of this written notice, the authority shall award the designated allotment to said applicant.

c. Following December 31, 2011, all unallocated allotments under paragraph 30.4(1)*"b"* shall be available to all eligible projects. Following December 31, 2011, the per-applicant cap set forth in paragraph 30.4(1)*"a"* shall not apply.

30.4(2) Subject to subrule 30.4(1) above, allotments shall be allocated among eligible applications on the basis of the chronological order of receipt of applications. Chronological order of receipt shall be determined by the date, hour and minute indicated by the time stamp as affixed to the application at the offices of the governor's designee.

30.4(3) All applications that are received by the governor's designee on or prior to December 22, 2008, pursuant to the provisions of rule 265—30.5(16) shall be considered simultaneously received at the opening of business on December 22, 2008, and the same date, hour and minute shall be stamped on each application so received. If the total amount of allotments requested in all of the applications received for projects located in a particular county exceeds the total amount that may be allocated for such county, the applications will be considered for allocation in the order determined pursuant to the procedures set forth in subrule 30.4(4).

30.4(4) In order to determine the order of allocation of the allotments to two or more applications that are simultaneously received pursuant to subrule 30.4(3) and for which there is insufficient capacity to allocate to each the full allotment requested, each such application shall be assigned a preference number determined by a random drawing to be conducted at the Iowa finance authority offices within one week following the receipt of the applications. The authority shall notify the affected applicants in writing and shall post a notice at its offices of the time and place of the drawing not less than three days prior to the scheduled drawing. Any person desiring to attend and witness the drawing and assigning of preference numbers may do so. Each application shall be assigned an identification code that shall be written on the outside of the sealed envelope containing the application. The identification codes shall be written on strips of paper and placed in individual envelopes and sealed. The sealed envelopes containing identification codes shall be placed in a container, mixed, and drawn from the container at random by a member of the authority's staff. The application that corresponds to the identification code that is drawn first shall be placed first on the list of applicants to receive an allotment. The application that corresponds to the identification code that is selected second shall be placed second on the list, and so forth. Drawings shall continue until all applications are assigned a place on the list of applications received.

30.4(5) The governor's designee shall maintain a list of applications for MDA bonds. Any applications that are deemed to be simultaneously received shall be listed in the order of preferences established pursuant to subrule 30.4(4). Applications received after December 22, 2008, shall be added to the appropriate list depending upon the subject of the application in the chronological order received.
[**ARC 7703B**, IAB 4/8/09, effective 5/13/09; **ARC 8548B**, IAB 2/24/10, effective 2/4/10]

265—30.5(16) Application for allocation.

30.5(1) An applicant must produce to the governor's designee an inducement resolution adopted by a governmental entity authorized to issue bonds.

30.5(2) An applicant or beneficiary, or the duly authorized agent of an applicant or beneficiary, must make an application by filing the form entitled "Application for Midwestern Disaster Area Bonds" available from the governor's designee for the allocation of an allotment.

30.5(3) Applications may be submitted to the Iowa finance authority offices at any time. All applications received on or prior to December 22, 2008, will be deemed received simultaneously as of the date, hour and minute of the opening of business of the Iowa finance authority on the first business day immediately following December 22, 2008.
[**ARC 7703B**, IAB 4/8/09, effective 5/13/09]

265—30.6(16) Certification of allocation. Upon receipt of a completed application, the governor's designee shall promptly certify to the applicant the amount of the allotment allocated to the project for which the application was submitted. Subject to subrule 30.4(1), the governor's designee shall continue

to allocate allotments for eligible projects until the allotments allocated equal the maximum aggregate face amount that may be designated as MDA bonds under the Act or until there are no more applications, whichever occurs first. If the remaining allotment capacity is not sufficient to fully fund an application which is next in order for allocation, the governor's designee shall notify the applicant of the amount that is available and the applicant shall have the option to take what is available within five calendar days of receiving notice of availability. If the applicant does not notify the governor's designee of its decision to take the available allocation within five calendar days of receiving notice of that option, an allotment shall be offered to the next application on the list under the same conditions. If the partial allocation is accepted, the applicant shall submit a new application for an additional allotment and that application will be added to the bottom of the list in the chronological order of its receipt. If the bonds are issued and delivered prior to the expiration date of the allocation, then the applicant or the applicant's attorney shall within ten days following the issuance and delivery of the bonds notify the governor's designee by filing the form captioned "Notice of Issuance and Delivery of Bonds."
[**ARC 7703B**, IAB 4/8/09, effective 5/13/09; **ARC 8548B**, IAB 2/24/10, effective 2/4/10]

265—30.7(16) Expiration of allocations. An allocation of an allotment pursuant to this chapter shall remain valid for 150 days from the date of allocation. If the sale of bonds for which an allocation was made has not closed within such time, the allocation shall expire and the allotment shall revert to the governor's designee to be reallocated, if possible; provided, however, that if the 150th day following the date of allocation is a Saturday, Sunday, or any day on which the offices of the state banking institutions or savings and loan associations in the state are authorized or required to close, the expiration date shall be extended to the first day thereafter which is not a Saturday, Sunday or previously described day. All MDA bonds must be issued prior to January 1, 2013.
[**ARC 7703B**, IAB 4/8/09, effective 5/13/09]

265—30.8(16) Resubmission of expired allocations. If an allocation expires, the applicant may resubmit its application for the same project or purpose. However, the resubmitted application shall be treated as a new application, and preference, priority or prejudice shall not be given to the application or the applicant as a result of the prior application.
[**ARC 7703B**, IAB 4/8/09, effective 5/13/09]

265—30.9(16) Application and allocation fees. The Iowa finance authority may set and charge reasonable fees for providing administrative assistance with regard to the filing of applications and the allocation of the qualified MDA bond allotments in accordance with these rules.
[**ARC 7703B**, IAB 4/8/09, effective 5/13/09]

These rules are intended to implement Iowa Code section 16.5(1)*"r,"* the Heartland Disaster Tax Relief Act of 2008, and Executive Order Number 9.

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CHAPTER 32
IOWA JOBS PROGRAM

265—32.1(16) Purpose. The Iowa jobs board is charged by the Iowa legislature and the governor with establishing, overseeing and providing approval of the administration of the Iowa jobs program. The board will encourage and support public construction projects relating to disaster relief and mitigation and to local infrastructure.
[**ARC 7941B**, IAB 7/15/09, effective 6/15/09]

265—32.2(16) Definitions. When used in this chapter, the following definitions apply unless the context otherwise requires:

"Authority" or *"IFA"* means the Iowa finance authority.

"Board" means the Iowa jobs board as established in 2009 Iowa Acts, Senate File 376, section 5.

"Disaster" means the severe storms, tornadoes, and flooding that occurred in Iowa between May 25, 2008, and August 13, 2008, and designated by FEMA as FEMA-1763-DR; additionally, the Iowa jobs board may, by resolution, designate an event that occurs subsequent to June 15, 2009, as a disaster.

"Financial feasibility" means the ability of a project, once completed, to be maintained and operated for its useful life with funds either generated by the project itself or from an identifiable source of funds available for such purpose.

"Future flood prevention" means measures intended to mitigate or lessen the damages caused by future flooding.

"Indirect jobs" means jobs created by suppliers of materials used in the construction or operation of the project.

"Induced jobs" means jobs collaterally created throughout the economy by a project as employed workers and firms buy other goods and services.

"Iowa jobs program review committee" or *"review committee"* means the committee established by 2009 Iowa Acts, Senate File 376, section 9(2), and constituted as described in this chapter.

"Local infrastructure" means:

1. Projects relating to disaster rebuilding;
2. Reconstruction and replacement of local public buildings;
3. Flood control and flood protection; and
4. Future flood prevention.

"Local infrastructure" does not include routine, recurring maintenance or operational expenses or leasing of a building, appurtenant structure, or utility without a lease-purchase agreement.

"Local support" means endorsement of a proposed project by local individuals, organizations, or governmental bodies that have a substantial interest in a project.

"Program" means the Iowa jobs program established in 2009 Iowa Acts, Senate File 376, sections 5 to 12.

"Public construction project" means a project for the construction of local infrastructure by a county, city, or public organization.

"Public organization" means a nonprofit organization that sponsors or supports the public needs of one or more local Iowa communities and that was in operation prior to January 1, 2009; provided that (1) such organization is described in Section 501(c)(3) or 501(c)(4) of the Internal Revenue Code and is exempt from federal tax under Section 501(a) of the Internal Revenue Code, and (2) such organization is determined by the board not to be affiliated with or controlled by a for-profit organization.

"Recipient" means an entity under contract with the Iowa jobs board to receive Iowa jobs funds and undertake a funded project.

"Sustainability" means the use, development, and protection of resources at a rate and in a manner that enables people to meet their current needs while allowing future generations to meet their own needs; "sustainability" requires simultaneously meeting environmental, economic and community needs.
[**ARC 7941B**, IAB 7/15/09, effective 6/15/09]

265—32.3(16) Allocation of funds. All Iowa jobs funds shall be awarded and used as specified in 2009 Iowa Acts, Senate File 376, and these rules. Any portion of an amount allocated for projects that remains unexpended or unencumbered one year after the allocation has been made by the board may be reallocated by the board to another project category, at the discretion of the board. All bond proceeds shall be expended within three years from when the allocation was initially made. The total amount of allocations for future flood prevention, reconstruction and replacement of local public buildings, disaster rebuilding, flood control and flood protection projects (pursuant to the local infrastructure competitive grant program) shall not exceed $165 million for the fiscal year beginning July 1, 2009.
[**ARC 7941B**, IAB 7/15/09, effective 6/15/09]

265—32.4(16) Local infrastructure competitive grant program. The board shall assist in the development and completion of public construction projects relating to disaster relief and mitigation and to local infrastructure by overseeing and providing approval of the administration of a local infrastructure competitive grant program, as set forth herein.

32.4(1) *Iowa jobs program review committee.* The Iowa jobs program review committee shall comprise five members, consisting of the following members of the Iowa jobs board: three of the general public members, as appointed to the review committee by the Iowa jobs chair, the executive director of the Iowa finance authority (or designee), and the director of Iowa workforce development (or designee). The review committee shall comply with Iowa Code chapter 21 and with Iowa Code sections 69.16 and 69.16A. From its public members, the review committee shall elect a chair and a vice chair. Two-thirds of the review committee members eligible to vote shall constitute a quorum authorized to act in the name of the review committee.

32.4(2) *Eligible applicants.* Eligible applicants for Iowa jobs local infrastructure competitive grant program funds shall be Iowa cities, Iowa counties, and public organizations.

32.4(3) *Eligible projects and forms of assistance.* For a project to be eligible to receive a competitive grant from the board, the project must be a public construction project in the state of Iowa with a demonstrated substantial local, regional, or statewide economic impact. Financial assistance shall be awarded only in the form of grants. An applicant for a competitive grant shall not receive more than $50 million in financial assistance from the Iowa jobs restricted capitals fund.

a. Any award of a competitive grant to a project shall be limited as follows:

(1) Up to 75 percent of the total cost of a project for replacing or rebuilding existing disaster-related damaged property; or

(2) Up to 50 percent of the total cost for all other projects.

b. The authority, with the approval of the chair and vice chair of the Iowa jobs board, shall have the ability to make technical corrections to an award that are within the intent of the terms of a board-approved award.

32.4(4) *Ineligible projects.* The board shall not approve an application for a competitive grant for either of the following purposes:

a. To refinance a loan existing prior to the date of the initial financial assistance application.

b. For a project that has previously received financial assistance under the local infrastructure competitive grant program, unless the applicant demonstrates that the financial assistance would be used for a significant expansion of such a project.

32.4(5) *Threshold application requirements.* To be considered for a competitive grant, an application shall meet all of the following threshold requirements:

a. Prior to filing an application, the applicant must file, on the form and in the manner prescribed by the authority, a notice of intent to apply not less than 20 days prior to submitting its application;

b. The application must be submitted by an eligible applicant, must be complete and on forms or in the format specified for such purpose by the authority (the authority may, in its discretion, require the use of a Web-based application format), and must be received by the authority by the applicable deadline;

c. The proposed project must be for the development and completion of one or more public construction projects relating to disaster relief and mitigation or to local infrastructure;

d. There must be demonstrated local support for the proposed project;

e. The proposed public construction project must have a demonstrated substantial local, regional, or statewide economic impact; and

f. The application must coordinate any federal funds with state, local, and private funds and shall avoid any duplication of benefits that would limit or cause the loss of federal funding.

Prior to submitting an application to the review committee, the authority may contact the applicant to clarify information contained in the application. An application may be amended one time prior to being sent to the review committee. Applications may be otherwise amended with the approval of a majority of the review committee.

32.4(6) *Application procedure.*

a. Applications shall be reviewed and scored in rounds. The deadline for submission for the first round of applications shall be August 3, 2009. Subsequent rounds shall be at the discretion of the board as funding is available. Applications for each such round shall be due not later than January 1, April 1, July 1, and October 1 of each year, respectively.

b. Subject to availability of funds, applications will be reviewed by IFA staff on an ongoing basis. Applications will be reviewed by staff for completeness and eligibility. If additional information is required, the applicant shall be requested, in writing, to submit additional information. For applications that meet the threshold requirements, authority staff shall submit to the members of the review committee a copy of the application along with a review, analysis, and evaluation of complete applications.

c. The review committee members will score the applications according to the criteria set forth in subrule 32.4(7), and IFA staff shall compile the scores. To be eligible for a grant, a proposed project must receive a minimum score of at least 100 points. The review committee shall meet to review the ratings for each round of applications. Those applications meeting the minimum criteria shall be referred to the Iowa jobs board with a recommendation of final approval, denial, or deferral.

d. Once an application has been referred to the Iowa jobs board, the applicant may, upon request of the applicant and at the discretion of the chair of the board, make a presentation to the board. The board may impose reasonable limitations on the length and format of such presentations.

e. If the board determines that an application should be approved, the board shall send the application to negotiations. Negotiations shall be conducted by IFA staff, who may work in cooperation with members of the Iowa jobs board. The negotiators shall negotiate the terms and conditions of a grant agreement to recommend to the board.

f. Following negotiations, the negotiating team shall report back to the Iowa jobs board as to whether it was able to agree with the applicant on the terms of a proposed grant agreement and, if so, the proposed terms and conditions resulting from the negotiations. The Iowa jobs board shall then vote, without further substantive revision, on whether to agree to the negotiated terms.

g. If the negotiated terms are agreed to by the Iowa jobs board, a grant agreement memorializing the negotiated terms shall be executed by the chair or vice chair of the Iowa jobs board.

h. Application resources for the Iowa jobs program are available at the Iowa jobs Web site: www.ijobsiowa.gov.

i. IFA may provide technical assistance as necessary to applicants. IFA staff may conduct on-site evaluations of proposed projects.

j. A denied or deferred application may be revised and resubmitted as a new application in a subsequent round, if any. Unless a deferred application is withdrawn by the applicant or revised and resubmitted as a new application, the authority shall keep it on file, and its score shall automatically be ranked among new applications submitted for the next round, if any, once such new applications have been scored.

32.4(7) *Application review criteria.* The Iowa jobs program review committee shall evaluate and rank applications based on the following criteria:

a. The total number and quality of jobs to be created and the benefits likely to accrue to areas distressed by high unemployment (0-40 points). The number of jobs created and other measures of economic impact to areas distressed by high unemployment, including long-term tax generation, shall be evaluated. Rating factors for this criterion include, but are not necessarily limited to, the following:

(1) Number of jobs. The number of jobs reasonably projected to be created or retained and the number of hours anticipated for each such job shall be compared and ranked.

(2) Quality of jobs. The wages to be paid for each position to be created or retained, the average benefits (including health benefits) to be provided, as well as other subjective qualitative factors, such as work conditions and safety, shall be compared and ranked.

(3) Other benefits likely to accrue to areas distressed by high unemployment, such as the degree to which the project enhances the quality of life in a region and contributes to the community's efforts to retain and attract a skilled workforce.

In order to be eligible for funding, proposals must score at least 20 points on this criterion.

b. Financial feasibility, including the ability of projects to fund depreciation costs or replacement reserves, and the availability of other federal, state, local, and private sources of funds (0-40 points). The feasibility of the proposed project shall be evaluated. Rating factors for this criterion include, but are not limited to, the following:

(1) A financial analysis of the project, which shall include a description of sources of funding, project budget, and detailed projections of the project's revenues and expenses for the projected useful life of the project;

(2) An analysis of the operational plan, which shall provide detailed information about how the proposed project will be operated and maintained, including a time line for implementing the project;

(3) The availability of other federal, state, local, and private sources of funds for the project.

In order to be eligible for funding, proposals must score at least 20 points on this criterion.

c. Sustainability and energy efficiency. The sustainability and energy efficiency of the proposed project shall be evaluated. Rating factors for this criterion include, but are not limited to, the following:

(1) Sustainability (0-20 points). The extent to which the project has taken sustainability planning principles into consideration.

1. The project shall be evaluated based on the following specific factors:

- Efficient and effective use of land resources and existing infrastructure by encouraging compact development in areas with existing infrastructure or capacity to avoid costly duplication of services and costly use of land; conservation of open space and farmland and preservation of critical environmental areas; and promotion of the safety, livability, and revitalization of existing urban and rural communities. Compact development maximizes public infrastructure investment and promotes mixed uses, greater density, bicycle and pedestrian networks, and interconnection with the existing street grid.
- Provision for a variety of transportation choices, including public transit and pedestrian and bicycle traffic.
- Construction and promotion of developments, buildings, and infrastructure that conserve natural resources by reducing waste and pollution through efficient use of land, energy, water, and materials.
- Capture, retention, infiltration and harvesting of rainfall using storm water best management practices such as permeable pavement, bioretention cells, bioswales, and rain gardens to protect water resources.
- The extent to which project design, construction, and use incorporate renewable energy sources including, but not limited to, solar, wind, geothermal, and biofuels, and support the following state of Iowa plans and goals: (1) office of energy independence's Iowa energy independence plan; and (2) general reduction of greenhouse gas emissions.

2. Alternatively, in lieu of being evaluated on each of the criteria set forth above, projects which are designed to receive certification (either platinum level, gold level, silver level, or basic LEED certification) from the United States Green Building Council in the Leadership in Energy and Environmental Design (LEED) Green Building Rating System version 3.0, and which comply with the requirements of ASHRAE 90.1-2007, Energy Standard for Buildings Except Low-Rise Residential Buildings, published by the American Society of Heating, Refrigerating and Air-Conditioning Engineers, 1791 Tullie Circle, N.E., Atlanta, GA 30329, shall receive 20 points.

(2) Energy efficiency (0-20 points). The extent to which the project has taken energy efficiency planning principles into consideration.

1. In the case of new construction, whether the project is designed to meet the current state building energy code. The application for the project must include a letter from the engineer or architect to IFA certifying whether the proposed construction meets the current state building energy code. Additionally, the application should address whether the proposed project is designed to meet energy star standards. If the project is of such a nature that the current state building energy code does not apply to it, the letter shall so state.

2. In the case of rehabilitation of existing structures, an energy audit conducted by a certified energy rater should be provided on each building prior to the preparation of the final work rehabilitation order to determine the feasibility of meeting the requirements of the current state building energy code and energy star standards prior to the start of the rehabilitation. If it is determined to be feasible to meet the current state building energy code standards and energy star standards, appropriate specifications will be written into the work order. If it is not feasible to meet the requirements of the current state building energy code and energy star standards (or either of them), the application will provide information indicating what effective and cost-effective energy improvements will be included as a part of the rehabilitation project.

d. Benefits for disaster recovery (0-40 points). The likely benefits for disaster recovery of the proposed project shall be evaluated. Wherever applicable, rating factors for this criterion include, but are not limited to, the following:

(1) Whether the proposed project replaces or repairs a structure or facility damaged by the disaster and incorporates measures for reducing or eliminating future disaster losses;

(2) Whether the proposed project would help achieve the community's or region's overall post-disaster recovery vision;

(3) Whether the proposed project benefits the economic recovery of individuals, businesses, or nonprofit organizations.

e. The project's readiness to proceed (0-40 points). The readiness of the project to proceed shall be evaluated. Wherever applicable, rating factors for this criterion include, but are not limited to, the following:

(1) Whether all engineering and architectural work required for construction to begin has been completed;

(2) Whether all financing for the project (other than competitive grant funds awarded under this chapter) has been committed and is available;

(3) Whether all real property interests (including easements and temporary construction easements) necessary for the construction of the project have been acquired;

(4) Whether all necessary governmental approvals, at the federal, state, and local levels (including, but not limited to, zoning variances, building permits, approval from the Army Corps of Engineers, etc.), have been obtained;

(5) Whether the project has demonstrated a reasonable likelihood of incurring at least 10 percent of the project's total projected development cost within three months of execution of the grant award agreement.

f. General scoring criteria.

(1) In instances where a given criterion is not applicable to a proposed project due to the nature of the project, the review committee members may adjust scoring so that the project is not disadvantaged as a result of the inapplicable criterion. For example, if an earthen levee is proposed as a means of flood control, it should not lose points relative to other proposed projects because it does not comply with the current state building energy code (which does not apply to earthen levees).

(2) Any proposed project that is identified in an Iowa great places agreement, pursuant to Iowa Code section 303.3C, shall have an additional two points added to its cumulative point total.

[**ARC 7941B**, IAB 7/15/09, effective 6/15/09; **ARC 8103B**, IAB 9/9/09, effective 8/19/09; **ARC 8327B**, IAB 12/2/09, effective 11/4/09; **ARC 8456B**, IAB 1/13/10, effective 2/17/10; **ARC 8545B**, IAB 2/24/10, effective 3/31/10]

265—32.5(16) Noncompetitive grants.

32.5(1) The board shall award $46,500,000 as follows for disaster relief and mitigation and local infrastructure grants for the following renovation and construction projects, notwithstanding any limitation on the state's percentage participation in funding as contained in Iowa Code section 29C.6(17):

a. For grants to a county with a population between 189,000 and 196,000 in the latest preceding certified federal census, to be distributed as follows:

(1) Ten million dollars for the construction of a new, shared facility between nonprofit human service organizations serving the public, especially the needs of low-income Iowans, including those displaced as a result of the disaster of 2008.

(2) Five million dollars for the construction or renovation of a facility for a county-funded workshop program serving the public and particularly persons with mental illness or developmental disabilities.

b. For grants to a city with a population between 110,000 and 120,000 in the latest preceding certified federal census, to be distributed as follows:

(1) Five million dollars for an economic redevelopment project benefiting the public by improving energy efficiency and the development of alternative and renewable energy technologies.

(2) Ten million dollars for a museum serving the public and dedicated to the preservation of an eastern European cultural heritage through the collection, exhibition, preservation, and interpretation of historical artifacts.

(3) Five million dollars for a theater serving the public and promoting culture, entertainment, and tourism.

(4) Five million dollars for a public library.

(5) Five million dollars for a public works building.

c. One million five hundred thousand dollars, to be distributed as follows:

(1) Five hundred thousand dollars to a city with a population between 600 and 650 in the latest preceding certified federal census, for a public fire station.

(2) Five hundred thousand dollars to a city with a population between 1,400 and 1,500 in the latest preceding certified federal census, for a public fire station.

(3) Five hundred thousand dollars for a city with a population between 7,800 and 7,850, for a public fire station.

32.5(2) Noncompetitive grant awards are contingent upon submission of a plan for each project by the applicable county or city governing board or, in the case of a project submitted pursuant to subparagraph 32.5(1)*"b"*(2), by the board of directors, to the Iowa jobs board no later than September 1, 2009, detailing a description of the project, the plan to rebuild, and the amount or percentage of federal, state, local, or private matching moneys which will be or have been provided for the project. Funds not utilized in accordance with this rule due to failure to submit a plan by the September 1 deadline shall revert to the Iowa jobs restricted capitals fund to be available for local infrastructure competitive grants.

32.5(3) A grant recipient under subparagraph 32.5(1)*"b"*(2) shall not be precluded from applying for a local infrastructure competitive grant pursuant to this rule and 2009 Iowa Acts, Senate File 376, section 9.

[**ARC 7941B**, IAB 7/15/09, effective 6/15/09]

265—32.6(16) General grant conditions. As a condition of receipt of Iowa jobs funds, recipients shall agree, at a minimum, to all of the following:

32.6(1) *Documentation of jobs created or retained.* Following the receipt of grant funds pursuant to this chapter and for two years following the completion of the project, each recipient shall report to the authority quarterly the actual number of jobs created as a result of the project along with other information relating to the quality of such jobs, including hours and wages, as requested by the authority.

32.6(2) *Recipient obligations.* In the event a recipient fails to comply with the requirements of this program or the recipient's grant agreement, the board may cancel the recipient's grant and require the return of any grant funds previously disbursed pursuant to this program. Recipients shall agree to hold

harmless and to indemnify the Iowa jobs board, the authority, the state of Iowa, and their officers, employees and agents from any claims, costs or liabilities arising out of the development or operation of the project.

32.6(3) *Grant acknowledgment.* Each project shall recognize in a prominent location and manner the fact that the project was made possible, in part, through a grant from the Iowa jobs program. During the construction period the recognition (including a display of the Iowa jobs logo) may be located on temporary signage. The completed project shall feature a permanent acknowledgment, such as a plaque or a similar commemoration. Other benefactors of the project may be similarly acknowledged as well.

32.6(4) *Use of Iowa jobs Web site.* All positions that need to be filled for a project shall be posted on Iowa workforce development's Iowa jobs Web site: www.iowajobs.org/.
[**ARC 7941B**, IAB 7/15/09, effective 6/15/09]

265—32.7(16) Calculation of jobs created. For purposes of this chapter, new employment positions created and filled (or to be created and filled) as a result of the project and existing positions that would not have been continued were it not for Iowa jobs funding shall be counted when estimating the number of jobs to be created during the application process and when counting the number of actual jobs created in post-grant reporting. Both permanent and temporary positions filled by the grantee, a contractor, or a subcontractor (or sub-subcontractor, etc.), including construction work, shall be counted. To be counted, a position must be compensated. Indirect jobs and induced jobs shall not be counted.
[**ARC 7941B**, IAB 7/15/09, effective 6/15/09]

265—32.8(16) Grant awards. The Iowa jobs board may fund a component of a proposed project if the entire project does not qualify for funding. The board shall review awards made to ensure geographic diversity. In order to promote geographic diversity, the board may defer grant decisions on applications from areas which have received previous grant awards to allow applications from other parts of the state to be considered. In the event that a competitive grant recipient, prior to execution of an Iowa jobs grant agreement, is awarded a federal grant for its project, in whole or in part, which federal grant, or the possibility thereof, was not disclosed as part of the recipient's application, the board may withdraw all or part of the Iowa jobs program grant.
[**ARC 7941B**, IAB 7/15/09, effective 6/15/09; **ARC 8455B**, IAB 1/13/10, effective 12/14/09]

265—32.9(16) Administration of awards.

32.9(1) A grant agreement shall be executed between successful applicants (under both the competitive and noncompetitive grant programs) and the Iowa jobs board. These rules and applicable state laws and regulations shall be part of the contract. The board reserves the right to negotiate wage rates as well as other terms and conditions of the contract.

32.9(2) Grant agreement.

a. Following the board's determination that a competitive grant application should be approved, authority staff shall propose a draft grant agreement to the recipient. Within 30 days of either transmission of the proposed grant agreement to the recipient or transmission of notice of how the proposed grant agreement may be accessed by the recipient via the Internet, the recipient shall notify the authority as to whether the recipient will execute the proposed agreement or whether the recipient would prefer to negotiate a different agreement. If the recipient elects to execute the proposed agreement, or if the recipient fails to make a timely election, the authority shall prepare and transmit to the recipient on behalf of the board a final contract for execution.

b. If the recipient elects to negotiate a different agreement, the recipient shall, at the time it makes such election, notify the authority of the requested changes to the proposed grant agreement. The authority shall consider the requested changes and may make such revisions to the proposed agreement as the authority determines to be prudent and in the best interests of the Iowa jobs program and the state of Iowa under the circumstances.

c. Once the authority and the recipient have reached an agreement, the authority shall prepare and transmit to the recipient on behalf of the board a final contract, subject to approval by the board.

d. If the authority and the recipient are unable to reach an agreement, the authority shall, with the board's approval, draft and transmit to the recipient on behalf of the board a final contract consisting of the Iowa jobs board's best and final offer.

32.9(3) The recipient must execute and return the contract to the Iowa jobs board within 45 days of transmittal of the final contract from the Iowa jobs board. Failure to do so may be cause for the Iowa jobs board to terminate the award.

32.9(4) Certain projects may require that permits or clearances be obtained from other state, local, or federal agencies before the activity may proceed. Awards may be conditioned upon the timely completion of these requirements.

32.9(5) Awards may be conditioned upon commitment of other sources of funds necessary to complete the project.

32.9(6) Any substantive change to a contract shall be considered an amendment. Substantive changes include time extensions, budget revisions, and significant alterations that change the scope, location, objectives or scale of an approved project. Amendments must be requested in writing by the recipient and are not considered effective until approved by the Iowa jobs board and confirmed in writing by IFA staff following the procedure specified in the contract between the recipient and the Iowa jobs board.

[**ARC 7941B**, IAB 7/15/09, effective 6/15/09; **ARC 8455B**, IAB 1/13/10, effective 12/14/09]

These rules are intended to implement Iowa Code section 16.5(1)*"r"* and 2009 Iowa Acts, Senate File 376, sections 5 to 12.

[Filed Emergency ARC 7941B, IAB 7/15/09, effective 6/15/09]
[Filed Emergency ARC 8103B, IAB 9/9/09, effective 8/19/09]
[Filed Emergency ARC 8327B, IAB 12/2/09, effective 11/4/09]
[Filed Emergency ARC 8455B, IAB 1/13/10, effective 12/14/09]
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[Filed ARC 8545B (Notice ARC 8328B, IAB 12/2/09), IAB 2/24/10, effective 3/31/10]

CHAPTER 35
AFFORDABLE HOUSING ASSISTANCE GRANT FUND

265—35.1(16) Affordable housing assistance grant fund allocation plan. The affordable housing assistance grant fund allocation plan entitled Iowa Finance Authority Affordable Housing Assistance Grant Fund Allocation Plan dated November 2009 shall be the allocation plan for the award, pursuant to the affordable housing assistance grant fund program, of funds held within the affordable housing assistance grant fund established in 2009 Iowa Acts, Senate File 376, section 30. The allocation plan for the affordable housing assistance grant fund program is incorporated by reference pursuant to Iowa Code section 17A.6 and 265—subrules 17.4(2) and 17.12(2).
[**ARC 7897B**, IAB 7/1/09, effective 6/10/09; **ARC 8076B**, IAB 8/26/09, effective 9/30/09; **ARC 8547B**, IAB 2/24/10, effective 3/31/10]

265—35.2(16) Location of copies of the plan. The allocation plan for the affordable housing assistance grant fund program may be reviewed and copied in its entirety on the authority's Web site at www.iowafinanceauthority.gov. Copies of the allocation plan for the affordable housing assistance grant fund program, the application forms, and all related attachments and exhibits, if any, shall be deposited with the administrative rules coordinator and at the state law library. The plan incorporates by reference 2009 Iowa Acts, Senate File 376, section 30.
[**ARC 7897B**, IAB 7/1/09, effective 6/10/09; **ARC 8076B**, IAB 8/26/09, effective 9/30/09]

These rules are intended to implement Iowa Code section 16.5(1)*"r"* and 2009 Iowa Acts, Senate File 376, section 30.

[Filed Emergency ARC 7897B, IAB 7/1/09, effective 6/10/09]
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[Filed ARC 8547B (Notice ARC 8326B, IAB 12/2/09), IAB 2/24/10, effective 3/31/10]

CHAPTER 135
TECHNICAL STANDARDS AND CORRECTIVE ACTION REQUIREMENTS FOR OWNERS AND OPERATORS OF UNDERGROUND STORAGE TANKS

[Prior to 12/3/86, Water, Air and Waste Management[900]]

567—135.1(455B) Authority, purpose and applicability.

135.1(1) *Authority.* Iowa Code chapter 455B, division IV, part 8, authorizes the department to regulate underground tanks used for storage of regulated substances, and to adopt rules relating to detection, prevention and correction of releases of regulated substances from such tanks, maintenance of financial responsibility by owners or operators of such tanks, new tank performance standards, notice and reporting requirements, and designation of regulated substances.

135.1(2) *Purpose.* The purpose of these rules is to protect the public health and safety and the natural resources of Iowa by timely and appropriate detection, prevention and correction of releases of regulated substances from underground storage tanks (UST).

135.1(3) *Applicability.*

a. The requirements of this chapter apply to all owners and operators of a UST system as defined in 135.2(455B) except as otherwise provided in paragraphs *"b," "c,"* and *"d"* of this subrule. Any UST system listed in paragraph *"c"* of this subrule must meet the requirements of 135.1(4).

b. The following UST systems are excluded from the requirements of this chapter:

(1) Any UST system holding hazardous wastes listed or identified under Subtitle C of the Solid Waste Disposal Act, or a mixture of such hazardous waste and other regulated substances.

(2) Any wastewater treatment tank system that is part of a wastewater treatment facility regulated under Section 402 or 307(b) of the federal Clean Water Act.

(3) Equipment or machinery that contains regulated substances for operational purposes such as hydraulic lift tanks and electrical equipment tanks.

(4) Any UST system whose capacity is 110 gallons or less.

(5) Any UST system that contains a de minimus concentration of regulated substances.

(6) Any emergency spill or overflow containment UST system that is expeditiously emptied after use.

c. Deferrals. Rules 135.3(455B), 135.4(455B), 135.5(455B), 135.6(455B) and 135.9(455B) do not apply to any of the following types of UST systems:

(1) Wastewater treatment tank systems;

(2) Any UST systems containing radioactive material that are regulated under the federal Atomic Energy Act of 1954 (42 U.S.C. 2011 and following);

(3) Any UST system that is part of an emergency generator system at nuclear power generation facilities regulated by the Nuclear Regulatory Commission under 10 CFR 50 Appendix A;

(4) Airport hydrant fuel distribution systems; and

(5) UST systems with field-constructed tanks.

d. Deferrals. Rule 135.5(455B) does not apply to any UST system that stores fuel solely for use by emergency power generators. All new and replacement UST systems for emergency power generators must meet the secondary containment requirements in subrule 135.3(9) and the leak detection and delivery prohibition requirements in subrule 135.3(8).

e. Nonpetroleum underground storage tank systems. Rules 135.8(455B) to 135.12(455B) do not apply to any nonpetroleum underground storage tank system except as otherwise provided for by the department.

135.1(4) *Interim prohibition for deferred UST systems.*

a. No person may install a UST system listed in 135.1(3)*"c"* for the purpose of storing regulated substances unless the UST system (whether of single- or double-wall construction):

(1) Will prevent releases due to corrosion or structural failure for the operational life of the UST system;

(2) Is cathodically protected against corrosion, constructed of noncorrodible material, steel clad with a noncorrodible material, or designed in a manner to prevent the release or threatened release of any stored substance; and

(3) Is constructed or lined with material that is compatible with the stored substance.

b. Notwithstanding paragraph *"a"* of this subrule, a UST system without corrosion protection may be installed at a site that is determined by a corrosion expert not to be corrosive enough to cause it to have a release due to corrosion during its operating life. Owners and operators must maintain records that demonstrate compliance with the requirements of this paragraph for the remaining life of the tank.

NOTE: The National Association of Corrosion Engineers Standard RP-02-85, "Control of External Corrosion on Metallic Buried, Partially Buried, or Submerged Liquid Storage Systems," may be used as guidance for complying with 135.1(4)*"b."*

567—135.2(455B) Definitions.

"Aboveground release" means any release to the surface of the land or to surface water. This includes, but is not limited to, releases from the aboveground portion of a UST system and aboveground releases associated with overfills and transfer operations as the regulated substance moves to or from a UST system.

"Active remediation" means corrective action undertaken to reduce contaminant concentrations by other than passive remediation or monitoring.

"Ancillary equipment" means any devices including, but not limited to, such devices as piping, fittings, flanges, valves, and pumps used to distribute, meter, or control the flow of regulated substances to and from a UST.

"Appurtenances" means devices such as piping, fittings, flanges, valves, dispensers and pumps used to distribute, meter, or control the flow of regulated substances to or from an underground storage tank.

"ASTM" means the American Society of Testing and Materials.

"Bedrock" means the rock, usually solid, underlying soil or any other unconsolidated surficial cover.

"Below-ground release" means any release to the subsurface of the land and to groundwater. This includes, but is not limited to, releases from the below-ground portions of an underground storage tank system and below-ground releases associated with overfills and transfer operations as the regulated substance moves to or from an underground storage tank.

"Beneath the surface of the ground" means beneath the ground surface or otherwise covered with earthen materials.

"Best available technology" means those practices which most appropriately remove, treat, or isolate contaminants from groundwater, soil or associated environment, as determined through professional judgment considering actual equipment or techniques currently in use, published technical articles, site hydrogeology and research results, engineering and groundwater professional reference materials, consultation with experts in the field, capital and operating costs, and guidelines or rules of other regulatory agencies.

"Best management practices" means maintenance procedures, schedule of activities, prohibition of practices, and other management practices, or a combination thereof, which, after problem assessment, is determined to be the most effective means of monitoring and preventing additional contamination of the groundwater and soil.

"Carcinogenic risk" means the incremental risk of a person developing cancer over a lifetime as a result of exposure to a chemical, expressed as a probability such as one in a million (10^{-6}). For carcinogenic chemicals of concern, probability is derived from application of certain designated exposure assumptions and a slope factor.

"Cathodic protection" is a technique to prevent corrosion of a metal surface by making that surface the cathode of an electrochemical cell. For example, a tank system can be cathodically protected through the application of either galvanic anodes or impressed current.

"Cathodic protection tester" means a person who can demonstrate an understanding of the principles and measurements of all common types of cathodic protection systems as applied to buried or submerged metal piping and tank systems. At a minimum, such persons must have education and experience in soil

resistivity, stray current, structure-to-soil potential, and component electrical isolation measurements of buried metal piping and tank systems.

"CERCLA" means the Comprehensive Environmental Response, Compensation, and Liability Act of 1980.

"Certified groundwater professional" means a person certified pursuant to 1995 Iowa Code section 455G.18 and 567—Chapter 134.

"Change-in-service" means changing the use of a tank system from a regulated to a nonregulated use.

"Chemicals of concern" means the compounds derived from petroleum-regulated substances which are subject to evaluation for purposes of applying risk-based corrective action decision making. These compounds are benzene, ethylbenzene, toluene, and xylenes (BTEX) and naphthalene, benzo(a)pyrene, benz(a)anthracene, and chrysene. (NOTE: Measurement of these last four constituents may be done by a conversion method from total extractable hydrocarbons, see subrule 135.8(3).)

"Class A operator" means a person responsible for managing resources and personnel to achieve and maintain compliance with regulatory requirements under this chapter. This includes ensuring appropriate individuals are trained in the proper operation and maintenance of the underground storage tank system, the maintenance of all required records, the procedures for response to emergencies caused by releases or spills, and assuring financial responsibility and documentation to the department or its representatives as required.

"Class B operator" means a person who implements applicable underground storage tank regulatory requirements and standards. This includes implementing the day-to-day aspects of operating, maintaining, and record keeping for underground storage tanks at one or more facilities. A Class B operator typically monitors, maintains and ensures that release detection methods, record-keeping, and reporting requirements are met; release prevention equipment, record-keeping, and reporting requirements are met; all relevant equipment complies with performance standards; and appropriate individuals are trained to properly respond to emergencies caused by releases and spills.

"Class C operator" means an on-site employee who typically controls or monitors the dispensing or sale of regulated substances and who is the first line of response to events indicating emergency conditions.

"Compatible" means the ability of two or more substances to maintain their respective physical and chemical properties upon contact with one another for the design life of the tank system under conditions likely to be encountered in the UST.

"Conduit" means underground structures which act as pathways and receptors for chemicals of concern, including but not limited to gravity drain lines and sanitary or storm sewers.

"Connected piping" means all underground piping including valves, elbows, joints, flanges, and flexible connectors attached to a tank system through which regulated substances flow. For the purpose of determining how much piping is connected to any individual UST system, the piping that joins two UST systems should be allocated equally between them.

"Consumptive use" with respect to heating oil means consumed on the premises.

"Corrective action" means an action taken to reduce, minimize, eliminate, clean up, control or monitor a release to protect the public health and safety or the environment. Corrective action includes, but is not limited to, excavation of an underground storage tank for the purpose of repairing a leak or removal of a tank, removal of contaminated soil, disposal or processing of contaminated soil, cleansing of groundwaters or surface waters, natural biodegradation, institutional controls, technological controls and site management practices. Corrective action does not include replacement of an underground storage tank. Corrective action specifically excludes third-party liability.

"Corrective action meeting process" means a series of meetings organized by department staff with owners or operators and other interested parties such as certified groundwater professionals, funding source representatives, and affected property owners. The purpose of the meeting process is to develop and agree on a corrective action plan and the terms for implementation of the plan.

"Corrective action plan" means a plan which specifies the corrective action to be undertaken by the owner or operator in order to comply with requirements in this chapter and which is incorporated

into a memorandum of agreement or other written agreement between the department and the owner or operator. The plan may include but is not limited to provisions for additional site assessment, site monitoring, Tier 2 revisions, Tier 3 assessment, excavation, and other soil and groundwater remedial action.

"Corrosion expert" means a person who, by reason of thorough knowledge of the physical sciences and the principles of engineering and mathematics acquired by a professional education and related practical experience, is qualified to engage in the practice of corrosion control on buried or submerged metal piping systems and metal tanks. Such a person must be accredited or certified as being qualified by the National Association of Corrosion Engineers or be a registered professional engineer who has certification or licensing that includes education and experience in corrosion control of buried or submerged metal piping systems and metal tanks.

"Department" means Iowa department of natural resources.

"Dielectric material" means a material that does not conduct direct electrical current. Dielectric coatings are used to electrically isolate UST systems from the surrounding soils. Dielectric bushings are used to electrically isolate portions of the UST systems (e.g., tank from piping).

"Dispenser" means equipment that is used to transfer a regulated substance from underground piping through a rigid or flexible hose or piping located aboveground to a point of use outside the underground storage tank system, such as a motor vehicle.

"Drinking water well" means any groundwater well used as a source for drinking water by humans and groundwater wells used primarily for the final production of food or medicine for human consumption in facilities routinely characterized with the Standard Industrial Codes (SIC) group 283 for drugs and 20 for foods.

"Electrical equipment" means underground equipment that contains dielectric fluid that is necessary for the operation of equipment such as transformers and buried electrical cable.

"Enclosed space" means space which can act as a receptor or pathway capable of creating a risk of explosion or inhalation hazard to humans and includes "explosive receptors" and "confined spaces." Explosive receptors means those receptors designated in these rules which are evaluated for explosive risk. Confined spaces means those receptors designated in these rules for evaluation of vapor inhalation risks.

"Excavation zone" means the volume containing the tank system and backfill material bounded by the ground surface, walls, and floor of the pit and trenches into which the UST system is placed at the time of installation.

"Existing tank system" means a tank system used to contain an accumulation of regulated substances or for which installation has commenced on or before January 14, 1987. Installation is considered to have commenced if:

The owner or operator has obtained all federal, state, and local approvals or permits necessary to begin physical construction of the site or installation of the tank system; and if,

1. Either a continuous on-site physical construction or installation program has begun; or,
2. The owner or operator has entered into contractual obligations, which cannot be canceled or modified without substantial loss, for physical construction at the site or installation of the tank system to be completed within a reasonable time.

"Farm tank" is a tank located on a tract of land devoted to the production of crops or raising animals, including fish, and associated residences and improvements. A farm tank must be located on the farm property. "Farm" includes fish hatcheries, rangeland and nurseries with growing operations.

"Flow-through process tank" is a tank that forms an integral part of a production process through which there is a steady, variable, recurring, or intermittent flow of materials during the operation of the process. Flow-through process tanks do not include tanks used for the storage of materials prior to their introduction into the production process or for the storage of finished products or by-products from the production process.

"Free product" refers to a regulated substance that is present as a nonaqueous phase liquid (e.g., liquid not dissolved in water).

"Gathering lines" means any pipeline, equipment, facility, or building used in the transportation of oil or gas during oil or gas production or gathering operations.

"Groundwater ingestion pathway" means a pathway through groundwater by which chemicals of concern may result in exposure to a human receptor as specified in rules applicable to Tier 1, Tier 2 and Tier 3.

"Groundwater plume" means the extent of groundwater impacted by the release of chemicals of concern.

"Groundwater to plastic water line pathway" means a pathway through groundwater which leads to a plastic water line.

"Groundwater vapor to enclosed space pathway" means a pathway through groundwater by which vapors from chemicals of concern may lead to a receptor creating an inhalation or explosive risk hazard.

"Hazardous substance UST system" means an underground storage tank system that contains a hazardous substance defined in Section 101(14) of the Comprehensive Environmental Response, Compensation and Liability Act of 1980 (but not including any substance regulated as a hazardous waste under subtitle C) or any mixture of such substances and petroleum, and which is not a petroleum UST system.

"Hazard quotient" means the ratio of the level of exposure of a chemical of concern over a specified time period to a reference dose for that chemical of concern derived for a similar exposure period. Unless otherwise specified, the hazard quotient designated in these rules is one.

"Heating oil" means petroleum that is No. 1, No. 2, No. 4-light, No. 4-heavy, No. 5-light, No. 5-heavy, and No. 6 technical grades of fuel oil; other residual fuel oils (including Navy Special Fuel Oil and Bunker C); and other fuels when used as substitutes for one of these fuel oils. Heating oil is typically used in the operation of heating equipment, boilers, or furnaces.

"Highly permeable soils" means for the purpose of UST closures: fractured bedrock, any soils with a hydraulic conductivity rate greater than 0.3 meters per day, or any soil material classified by the Unified Soil Classification System as published by the United States Department of the Interior or ASTM designation as (1) GW - well graded gravel, gravel-sand mixtures, little or no fines, (2) GP - poorly graded gravel, gravel-sand mixtures, little or no fines, (3) SW - well graded sands, gravelly sands, little or no fines, or (4) SP - poorly graded sands, gravelly sands, little or no fines.

"Hydraulic conductivity" means the rate of water movement through the soil measured in meters per day (m/d) as determined by the following methods. For a saturated soil, the Bouwer-Rice method or its equivalent shall be used. For unsaturated soil, use a Guelph permeameter or an equivalent in situ constant-head permeameter in a boring finished above the water table. If an in situ method cannot be used for unsaturated soil because of depth, or if the soil is homogeneous and lacks flow-conducting channels, fractures, cavities, etc., laboratory measurement of hydraulic conductivity is acceptable.

If laboratory methods are used, collect undisturbed soil samples using a thin-walled tube sampler in accordance with American Society of Testing and Materials (ASTM) Standard D1587. Samples shall be clearly marked, preserved and transported to the laboratory. The laboratory shall measure hydraulic conductivity using a constant-head permeameter in accordance with ASTM Standard D2434 or a falling-head permeameter in accordance with accepted methodology.

"Hydraulic lift tank" means a tank holding hydraulic fluid for a closed-loop mechanical system that uses compressed air or hydraulic fluid to operate lifts, elevators, and other similar devices.

"Institutional controls" means the restriction on use or access (for example, fences, deed restrictions, restrictive zoning) to a site or facility to eliminate or minimize potential exposure to a chemical(s) of concern. Institutional controls include any of the following:

1. A law of the United States or the state;
2. A regulation issued pursuant to federal or state laws;
3. An ordinance or regulation of a political subdivision in which real estate subject to the institutional control is located;
4. A restriction on the use of or activities occurring at real estate which are embodied in a covenant running with the land which:

- Contains a legal description of the real estate in a manner which satisfies Iowa Code section 558.1 et seq.;
- Is properly executed, in a manner which satisfies Iowa Code section 558.1 et seq.;
- Is recorded in the appropriate office of the county in which the real estate is located;
- Adequately and accurately describes the institutional control; and
- Is in the form of a covenant as set out in Appendix C or in such a manner reasonably acceptable to the department.

5. Any other institutional control the owner or operator can reasonably demonstrate to the department which will reduce the risk from a release throughout the period necessary to ensure that no applicable target risk is likely to be exceeded.

"Liquid trap" means sumps, well cellars, and other traps used in association with oil and gas production, gathering, and extraction operations (including gas production plants), for the purpose of collecting oil, water, and other liquids. These liquid traps may temporarily collect liquids for subsequent disposition or reinjection into a production or pipeline stream, or may collect and separate liquids from a gas stream.

"Maintenance" means the normal operational upkeep to prevent an underground storage tank system from releasing product.

"MCLs" means the drinking water primary maximum contaminant levels set out in 567—41.3(455B).

"Memorandum of agreement" means a written agreement between the department and the owner or operator which specifies the corrective action that will be undertaken by the owner or operator in order to comply with requirements in this chapter and the terms for implementation of the plan. The plan may include but is not limited to provisions for additional site assessment, site monitoring, Tier 2 revisions, Tier 3 assessment, excavation, and other soil and groundwater remedial action.

"Motor fuel" means petroleum or a petroleum-based substance that is motor gasoline, aviation gasoline, No. 1 or No. 2 diesel fuel, or any grade of gasohol, and is typically used in the operation of a motor engine.

"New tank system" means a tank system that will be used to contain an accumulation of regulated substances and for which installation has commenced after January 14, 1987. (See also "Existing Tank System.")

"Noncarcinogenic risk" means the potential for adverse systemic or toxic effects caused by exposure to noncarcinogenic chemicals of concern, expressed as the hazard quotient.

"Noncommercial purposes" with respect to motor fuel means not for resale.

"Non-drinking water well" means any groundwater well (except an extraction well used as part of a remediation system) not defined as a drinking water well including a groundwater well which is not properly plugged in accordance with department rules in 567—Chapters 39 and 49.

"Nonresidential area" means land which is not currently used as a residential area and which is zoned for nonresidential uses.

"On the premises where stored" with respect to heating oil means UST systems located on the same property where the stored heating oil is used.

"Operational life" refers to the period beginning when installation of the tank system has commenced until the time the tank system is properly closed under rule 135.15(455B).

"Operator" means any person in control of, or having responsibility for, the daily operation of the UST system.

"Overfill release" is a release that occurs when a tank is filled beyond its capacity, resulting in a discharge of the regulated substance to the environment.

"Owner" means:

1. In the case of a UST system in use on July 1, 1985, or brought into use after that date, any person who owns a UST system used for storage, use, or dispensing of regulated substances; and

2. In the case of any UST system in use before July 1, 1985, but no longer in use on that date, any person who owned such UST immediately before the discontinuation of its use.

"Owner" does not include a person, who, without participating in the management or operation of the underground storage tank or the tank site, holds indicia of ownership primarily to protect that person's security interest in the underground storage tank or the tank site property, prior to obtaining ownership or control through debt enforcement, debt settlement, or otherwise.

"Pathway" means a transport mechanism by which chemicals of concern may reach a receptor(s) or the location(s) of a potential receptor.

"Permanent closure" means removing all regulated substances from the tank system, assessing the site for contamination, and permanently removing tank and piping from the ground or filling the tank in place with a solid inert material and plugging all piping. Permanent closure also includes partial closure of a tank system such as removal or replacement of tanks or piping only.

"Person" means an individual, trust, firm, joint stock company, federal agency, corporation, state, municipality, commission, political subdivision of a state, or any interstate body. "Person" also includes a consortium, a joint venture, a commercial entity, and the United States government.

"Person who conveys or deposits a regulated substance" means a person who sells or supplies the owner or operator with the regulated substance and the person who transports or actually deposits the regulated substance in the underground tank.

"Petroleum UST system" means an underground storage tank system that contains petroleum or a mixture of petroleum with de minimus quantities of other regulated substances. Such systems include those containing motor fuels, jet fuels, distillate fuel oils, residual fuel oils, lubricants, petroleum solvents, and used oils.

"Pipe" or *"piping"* means a hollow cylinder or tubular conduit that is constructed of nonearthen materials and that routinely contains and conveys regulated substances from the underground tank(s) to the dispenser(s) or other end-use equipment. Such piping includes any elbows, couplings, unions, valves, or other in-line fixtures that contain and convey regulated substances from the underground tank(s) to the dispenser(s). This definition does not include vent, vapor recovery, or fill lines.

"Pipeline facilities (including gathering lines)" are new and existing pipe rights-of-way and any associated equipment, facilities, or buildings.

"Point of compliance" means the location(s) at the source(s) of contamination or at the location(s) between the source(s) and the point(s) of exposure where concentrations of chemicals of concern must meet applicable risk-based screening levels at Tier 1 or other target level(s) at Tier 2 or Tier 3.

"Point of exposure" means the location(s) at which an actual or potential receptor may be exposed to chemicals of concern via a pathway.

"Potential receptor" means a receptor not in existence at the time a Tier 1, Tier 2 or Tier 3 site assessment is prepared, but which could reasonably be expected to exist within 20 years of the preparation of the Tier 1, Tier 2 or Tier 3 site assessment or as otherwise specified in these rules.

"Preferential pathway" means conditions which act as a pathway permitting contamination to migrate through soils and to groundwater at a faster rate than would be expected through naturally occurring undisturbed soils or unfractured bedrock including but not limited to wells, cisterns, tile lines, drainage systems, utility lines and envelopes, and conduits.

"Protected groundwater source" means a saturated bed, formation, or group of formations which has a hydraulic conductivity of at least 0.44 meters per day (m/d) and a total dissolved solids of less than 2,500 milligrams per liter (mg/l) or a bedrock aquifer with total dissolved solids of less than 2,500 milligrams per liter (mg/l) if bedrock is encountered before groundwater.

"Public water supply well" means a well connected to a system for the provision to the public of piped water for human consumption, if such system has at least 15 service connections or regularly serves an average of at least 25 individuals daily at least 60 days out of the year.

"Receptor" means enclosed spaces, conduits, protected groundwater sources, drinking and non-drinking water wells, surface water bodies, and public water systems which when impacted by chemicals of concern may result in exposure to humans and aquatic life, explosive conditions or other adverse effects on health, safety and the environment as specified in these rules.

"Reference dose" means a designated toxicity value established in these rules for evaluating potential noncarcinogenic effects in humans resulting from exposure to a chemical(s) of concern. Reference doses are designated in Appendix A.

"Regulated substance" means an element, compound, mixture, solution or substance which, when released into the environment, may present substantial danger to the public health or welfare or the environment. Regulated substance includes:

1. Substances designated in Table 302.4 of 40 CFR Part 302 (September 13, 1988),
2. Substances which exhibit the characteristics identified in 40 CFR 261.20 through 261.24 (May 10, 1984) and which are not excluded from regulation as a hazardous waste under 40 CFR 261.4(b) (May 10, 1984),
3. Any substance defined in Section 101(14) of the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) of 1980 (but not including any substance regulated as a hazardous waste under subtitle C), and
4. Petroleum, including crude oil or any fraction thereof that is liquid at standard conditions of temperature and pressure (60 degrees Fahrenheit and 14.7 pounds per square inch absolute). The term "regulated substance" includes but is not limited to petroleum and petroleum-based substances comprised of a complex blend of hydrocarbons derived from crude oil through processes of separation, conversion, upgrading, and finishing, such as motor fuels, jet fuels, distillate fuel oils, residual fuel oils, lubricants, petroleum solvents, and used oils.

"Release" means any spilling, leaking, emitting, discharging, escaping, leaching or disposing of a regulated substance, including petroleum, from a UST into groundwater, surface water or subsurface soils.

"Release detection" means determining whether a release of a regulated substance has occurred from the UST system into the environment or into the interstitial space between the UST system and its secondary barrier or secondary containment around it.

"Repair" means to restore a tank or UST system component that has caused a release of product from the UST system.

"Replace" or *"replacement"* means the installation of a new underground tank system or component, including dispensers, in substantially the same location as an existing tank system or component in lieu of that tank system or component.

"Residential area" means land used as a permanent residence or domicile, such as a house, apartment, nursing home, school, child care facility or prison, land zoned for such uses, or land where no zoning is in place.

"Residential tank" is a tank located on property used primarily for dwelling purposes.

"Risk-based screening level (RBSL)" means the risk-based concentration level for chemicals of concern developed for a Tier 1 analysis to be met at the point(s) of compliance and incorporated in the Tier 1 Look-up Table in Appendix A.

"SARA" means the federal Superfund Amendments and Reauthorization Act of 1986.

"Secondary containment tank" or *"secondary containment piping"* means a tank or piping which is designed with an inner primary shell and a liquid-tight outer secondary shell or jacket which extends around the entire inner shell, and which is designed to contain any leak through the primary shell from any part of the tank or piping that routinely contains product, and which also allows for monitoring of the interstitial space between the shells and the detection of any leak.

"Septic tank" is a watertight covered receptacle designed to receive or process, through liquid separation or biological digestion, the sewage discharged from a building sewer. The effluent from such receptacle is distributed for disposal through the soil and settled solids and scum from the tank are pumped out periodically and hauled to a treatment facility.

"Site assessment investigation" means an investigation conducted by a registered groundwater professional to determine relevant site historical data, the types, amounts, and sources of petroleum contaminants present, hydrogeological characteristics of the site, full vertical and horizontal extent of the contamination in soils and groundwater, direction and rate of flow of the contamination, ranges of concentration of the contaminants by analysis of soils and groundwater, the vertical and horizontal

extent of the contamination exceeding department standards, and the actual or potential threat to public health and safety and the environment.

"Site cleanup report" means the report required to be submitted by these rules and in accordance with department guidance which may include the results of Tier 2 or Tier 3 assessment and analysis.

"Site-specific target level (SSTL)" means the risk-based target level(s) for chemicals of concern developed as the result of a Tier 2 or Tier 3 assessment which must be achieved at applicable point(s) of compliance at the source to meet the target level(s) at the point(s) of exposure.

"Soil leaching to groundwater pathway" means a pathway through soil by which chemicals of concern may leach to groundwater and through a groundwater transport pathway impact an actual or potential receptor.

"Soil plume" means the vertical and horizontal extent of soil impacted by the release of chemicals of concern.

"Soil to plastic water line pathway" means a pathway which leads from soil to a plastic water line.

"Soil vapor to enclosed space pathway" means a pathway through soil by which vapors from chemicals of concern may lead to a receptor creating an inhalation or explosive risk hazard.

"Storm water or wastewater collection system" means piping, pumps, conduits, and any other equipment necessary to collect and transport the flow of surface water run-off resulting from precipitation, or domestic, commercial, or industrial wastewater to and from retention areas or any areas where treatment is designated to occur. The collection of storm water and wastewater does not include treatment except where incidental to conveyance.

"Surface impoundment" is a natural topographic depression, constructed excavation, or diked area formed primarily of earthen materials (although it may be lined with manufactured materials) that is not an injection well.

"Surface water body" means general use segments as provided in 567—paragraph 61.3(1)*"a"* and designated use segments of water bodies as provided in 567—paragraph 61.3(1)*"b"* and 567—subrule 61.3(5).

"Surface water criteria" means, for chemicals of concern, the Criteria for Chemical Constituents in Table 1 of rule 567—61.3(455B), except that "1,000 ug/L" will be substituted for the chronic levels for toluene for Class B designated use segments.

"Surface water pathway" means a pathway which leads to a surface water body.

"Tank" is a stationary device designed to contain an accumulation of regulated substances and constructed of nonearthen materials (e.g., concrete, steel, plastic) that provide structural support.

"Target level" means the allowable concentrations of chemicals of concern established to achieve an applicable target risk which must be met at the point(s) of compliance as specified in these rules.

"Target risk" refers to an applicable carcinogenic and noncarcinogenic risk factor designated in these rules and used in determining target levels (for carcinogenic risk assessment, target risk is a separate factor, different from exposure factors, both of which are used in determining target levels).

"Technological controls" means a physical action which does not involve source removal or reduction, but severs or reduces exposure to a receptor, such as caps, containment, carbon filters, point of use water treatment, etc.

"Tier 1 level" means the groundwater and soil levels in the Tier 1 Look-up Table set out in rule 135.9(455B) and Appendix A.

"Tier 1 site assessment" means the evaluation of limited site-specific data compared to the Tier 1 levels established in these rules for the purpose of determining which pathways do not require assessment and evaluation at Tier 2 and which sites warrant a no further action required classification without further assessment and evaluation.

"Tier 2 site assessment" means the process of assessing risk to actual and potential receptors by using site-specific field data and designated Tier 2 exposure and fate and transport models to determine the applicable target level(s).

"Tier 3 site assessment" means a site-specific risk assessment utilizing more sophisticated data or analytic techniques than a Tier 2 site assessment.

"Under-dispenser containment (UDC)" means containment underneath a dispenser that will prevent leaks from the dispenser from reaching soil or groundwater. Such containment must:

- Be intact and liquid-tight on its sides and bottom and at any penetrations;
- Be compatible with the substance conveyed by the piping; and
- Allow for visual inspection and monitoring and access to the components in the containment system.

"Underground area" means an underground room, such as a basement, cellar, shaft or vault, providing enough space for physical inspection of the exterior of the tank situated on or above the surface of the floor.

"Underground release" means any below-ground release.

"Underground storage tank" or *"UST"* means any one or combination of tanks (including underground pipes connected thereto) that is used to contain an accumulation of regulated substances, and the volume of which (including the volume of underground pipes connected thereto) is 10 percent or more beneath the surface of the ground. This term does not include any:

a. Farm or residential tank of 1100 gallons or less capacity used for storing motor fuel for noncommercial purposes. Iowa Code section 455B.471 requires those tanks existing prior to July 1, 1987, to be registered. Tanks installed on or after July 1, 1987, must comply with all 567—Chapter 135 rules;

b. Tank used for storing heating oil for consumptive use on the premises where stored;

c. Septic tank;

d. Pipeline facility (including gathering lines) regulated under:

(1) The Natural Gas Pipeline Safety Act of 1968 (49 U.S.C. App. 1671, et seq.), or

(2) The Hazardous Liquid Pipeline Safety Act of 1979 (49 U.S.C. App. 2001, et seq.), or

(3) Which is an intrastate pipeline facility regulated under state laws comparable to the provisions of the law referred to in *"d"*(1) or *"d"*(2) of this definition;

e. Surface impoundment, pit, pond, or lagoon;

f. Storm-water or wastewater collection system;

g. Flow-through process tank;

h. Liquid trap or associated gathering lines directly related to oil or gas production and gathering operations; or

i. Storage tank situated in an underground area (such as a basement, cellar, mineworking, drift, shaft, or tunnel) if the storage tank is situated upon or above the surface of the floor.

The term "underground storage tank" or "UST" does not include any pipes connected to any tank which is described in paragraphs *"a"* through *"j"* of this definition.

"Underground utility vault" means any constructed space accessible for inspection and maintenance associated with subsurface utilities.

"Unreasonable risk to public health and safety or the environment" means the Tier 1 levels for a Tier 1 site assessment, the applicable target level for a Tier 2 site assessment, and the applicable target level for a Tier 3 site assessment.

"Upgrade" means the addition or retrofit of some systems such as cathodic protection, lining, or spill and overfill controls to improve the ability of an underground storage tank system to prevent the release of product.

"UST system" or *"tank system"* means an underground storage tank, connected underground piping, underground ancillary equipment, and containment system, if any.

"Utility envelope" means the backfill and trench used for any subsurface utility line, drainage system and tile line.

"Wastewater treatment tank" means a tank that is designed to receive and treat an influent wastewater through physical, chemical, or biological methods.

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567—135.3(455B) UST systems—design, construction, installation and notification.

135.3(1) *Performance standards for new UST systems.* In order to prevent releases due to structural failure, corrosion, or spills and overfills for as long as the UST system is used to store regulated substances, all owners and operators of new UST systems must meet the following requirements.

a. *Tanks.* Each tank must be properly designed and constructed, and any portion underground that routinely contains product must be protected from corrosion, in accordance with a code of practice developed by a nationally recognized association or independent testing laboratory as specified below:

(1) The tank is constructed of fiberglass-reinforced plastic; or

NOTE: The following industry codes may be used to comply with 135.3(1)*"a"*(1): Underwriters Laboratories Standard 1316, "Standard for Glass-Fiber-Reinforced Plastic Underground Storage Tanks for Petroleum Products"; Underwriters Laboratories of Canada CAN4-S615-M83, "Standard for Reinforced Plastic Underground Tanks for Petroleum Products"; or American Society of Testing and Materials Standard D4021-86, "Standard Specification for Glass-Fiber-Reinforced Polyester Underground Petroleum Storage Tanks."

(2) The tank is constructed of steel and cathodically protected in the following manner:

1. The tank is coated with a suitable dielectric material;

2. Field-installed cathodic protection systems are designed by a corrosion expert;

3. Impressed current systems are designed to allow determination of current operating status as required in 135.4(2)*"c"*; and

4. Cathodic protection systems are operated and maintained in accordance with 135.4(2) or according to guidelines established by the department; or

NOTE: The following codes and standards may be used to comply with 135.3(1)*"a"*(2): Steel Tank Institute "Specification for STI-P3 System of External Corrosion Protection of Underground Steel Storage Tanks"; Underwriters Laboratories Standard 1746, "Corrosion Protection Systems for Underground Storage Tanks"; Underwriters Laboratories of Canada CAN4-S603-M85, "Standard for Steel Underground Tanks for Flammable and Combustible Liquids," and CAN4-GO3.1-M85, "Standard for Galvanic Corrosion Protection Systems for Underground Tanks for Flammable and Combustible Liquids," and CAN4-S631-M84, "Isolating Bushings for Steel Underground Tanks Protected with Coatings and Galvanic Systems"; or National Association of Corrosion Engineers Standard RP-02-85, "Control of External Corrosion on Metallic Buried, Partially Buried, or Submerged Liquid Storage Systems," and Underwriters Laboratories Standard 58, "Standard for Steel Underground Tanks for Flammable and Combustible Liquids."

(3) The tank is constructed of a steel-fiberglass-reinforced plastic composite; or

NOTE: The following industry codes may be used to comply with 135.3(1)*"a"*(3): Underwriters Laboratories Standard 1746, "Corrosion Protection Systems for Underground Storage Tanks," or the Association for Composite Tanks ACT-100, "Specification for the Fabrication of FRP Clad Underground Storage Tanks."

(4) The tank is constructed of metal without additional corrosion protection measures provided that:

1. The tank is installed at a site that is determined by a corrosion expert not to be corrosive enough to cause it to have a release due to corrosion during its operating life; and

2. Owners and operators maintain records that demonstrate compliance with the requirements of 135.3(1)*"a"*(4)"1" for the remaining life of the tank; or

(5) The tank construction and corrosion protection are determined by the department to be designed to prevent the release or threatened release of any stored regulated substance in a manner that is no less protective of human health and the environment than 135.3(1)*"a"*(1) to (4).

b. *Piping.* The piping that routinely contains regulated substances and is in contact with the ground must be properly designed, constructed, and protected from corrosion in accordance with a code of practice developed by a nationally recognized association or independent testing laboratory as specified below:

(1) The piping is constructed of fiberglass-reinforced plastic; or

NOTE: The following codes and standards may be used to comply with 135.3(1)*"b"*(1): Underwriters Laboratories Subject 971, "UL Listed Non-Metal Pipe"; Underwriters Laboratories Standard 567, "Pipe Connectors for Flammable and Combustible and LP Gas"; Underwriters Laboratories of Canada Guide ULC-107, "Glass Fiber Reinforced Plastic Pipe and Fittings for Flammable Liquids"; and Underwriters Laboratories of Canada Standard CAN 4-S633-M81, "Flexible Underground Hose Connectors."

(2) The piping is constructed of steel and cathodically protected in the following manner:

1. The piping is coated with a suitable dielectric material;

2. Field-installed cathodic protection systems are designed by a corrosion expert;

3. Impressed current systems are designed to allow determination of current operating status as required in 135.4(2)*"c"*; and

4. Cathodic protection systems are operated and maintained in accordance with 135.4(2) or guidelines established by the department; or

NOTE: The following codes and standards may be used to comply with 135.3(1)*"b"*(2): National Fire Protection Association Standard 30, "Flammable and Combustible Liquids Code"; American Petroleum Institute Publication 1615, "Installation of Underground Petroleum Storage Systems"; American Petroleum Institute Publication 1632, "Cathodic Protection of Underground Petroleum Storage Tanks and Piping Systems"; and National Association of Corrosion Engineers Standard RP-01-69, "Control of External Corrosion on Submerged Metallic Piping Systems."

(3) The piping is constructed of metal without additional corrosion protection measures provided that:

1. The piping is installed at a site that is determined by a corrosion expert to not be corrosive enough to cause it to have a release due to corrosion during its operating life; and

2. Owners and operators maintain records that demonstrate compliance with the requirements of 135.3(1)*"b"*(3)"1" for the remaining life of the piping; or

NOTE: National Fire Protection Association Standard 30, "Flammable and Combustible Liquids Code"; and National Association of Corrosion Engineers Standard RP-01-69, "Control of External Corrosion on Submerged Metallic Piping Systems," may be used to comply with 135.3(1)*"b"*(3).

(4) The piping construction and corrosion protection are determined by the department to be designed to prevent the release or threatened release of any stored regulated substance in a manner that is no less protective of human health and the environment than the requirements in 135.3(1)*"b"*(1) to (3).

c. Spill and overfill prevention equipment.

(1) Except as provided in subparagraph (2), to prevent spilling and overfilling associated with product transfer to the UST system, owners and operators must use the following spill and overfill prevention equipment:

1. Spill prevention equipment that will prevent release of product to the environment when the transfer hose is detached from the fill pipe (for example, a spill catchment basin); and

2. Overfill prevention equipment that will:

Automatically shut off flow into the tank when the tank is no more than 95 percent full; or

Alert the transfer operator when the tank is no more than 90 percent full by restricting the flow into the tank or triggering a high-level alarm; or

Restrict flow 30 minutes prior to overfilling, alert the operator with a high-level alarm one minute before overfilling, or automatically shut off the flow into the tank so that none of the fittings located on top of the tank are exposed to product due to overfilling.

(2) Owners and operators are not required to use the spill and overfill prevention equipment specified in subparagraph (1) if:

1. Alternative equipment is used that is determined by the department to be no less protective of human health and the environment than the equipment specified in subparagraph (1)"1" or "2" of this paragraph; or

2. The UST system is filled by transfers of no more than 25 gallons at one time.

d. Installation. All tanks and piping must be properly installed in accordance with a code of practice developed by a nationally recognized association or independent testing laboratory and in accordance with the manufacturer's instructions.

NOTE: Tank and piping system installation practices and procedures described in the following codes may be used to comply with the requirements of 135.3(1)*"d"*: American Petroleum Institute Publication 1615, "Installation of Underground Petroleum Storage System"; Petroleum Equipment Institute Publication RP100, "Recommended Practices for Installation of Underground Liquid Storage Systems"; or American National Standards Institute Standard 831.3, "Petroleum Refinery Piping," and American National Standards Institute Standard 831.4, "Liquid Petroleum Transportation Piping System."

e. Certification of installation. All owners and operators must ensure that one or more of the following methods of certification, testing, or inspection is used to demonstrate compliance with paragraph *"d"* of this subrule by providing a certification of compliance on the UST notification form in accordance with 135.3(3).

(1) The installer has been certified by the tank and piping manufacturers; or

(2) The installer has been certified or licensed by the department as provided in 567—Chapter 134, Part C; or

(3) The installation has been inspected and certified by a registered professional engineer with education and experience in UST system installation; or

(4) The installation has been inspected and approved by an inspector certified or licensed by the Iowa comprehensive petroleum underground storage tank fund board; or

(5) All work listed in the manufacturer's installation checklists has been completed; or

(6) The owner and operator have complied with another method for ensuring compliance with paragraph *"d"* that is determined by the department to be no less protective of human health and the environment.

135.3(2) *Upgrading of existing UST systems.*

a. Alternatives allowed. Not later than December 22, 1998, all existing UST systems must comply with one of the following requirements:

(1) New UST system performance standards under 135.3(1);

(2) The upgrading requirements in paragraphs *"b"* through *"d"* below; or

(3) Closure requirements under rule 135.15(455B), including applicable requirements for corrective action under rules 135.7(455B) to 135.12(455B).

Replacement or upgrade of a tank system on a petroleum contaminated site classified as a high or low risk in accordance with subrule 135.12(455B) shall be a double wall tank or a tank equipped with a secondary containment system with monitoring of the space between the primary and secondary containment structures in accordance with 135.5(4)*"g"* or other approved tank system or methodology approved by the Iowa comprehensive petroleum underground storage tank fund board.

b. Tank upgrading requirements. Steel tanks must be upgraded to meet one of the following requirements in accordance with a code of practice developed by a nationally recognized association or independent testing laboratory:

(1) *Interior lining.* A tank may be upgraded by internal lining if:

1. The lining is installed in accordance with the requirements of 135.4(4), and

2. Within ten years after lining, and every five years thereafter, the lined tank is internally inspected and found to be structurally sound with the lining still performing in accordance with original design specifications.

(2) *Cathodic protection.* A tank may be upgraded by cathodic protection if the cathodic protection system meets the requirements of 135.3(1)*"a"*(2)"2," "3," and "4" and the integrity of the tank is ensured using one of the following methods:

1. The tank is internally inspected and assessed to ensure that the tank is structurally sound and free of corrosion holes prior to installing the cathodic protection system; or

2. The tank has been installed for less than ten years and is monitored monthly for releases in accordance with 135.5(4)*"d"* through *"h"*; or

3. The tank has been installed for less than ten years and is assessed for corrosion holes by conducting two tightness tests that meet the requirements of 135.5(4)*"c."* The first tightness test must be conducted prior to installing the cathodic protection system. The second tightness test must be

conducted between three and six months following the first operation of the cathodic protection system; or

4. The tank is assessed for corrosion holes by a method that is determined by the department to prevent releases in a manner that is no less protective of human health and the environment than 135.3(2)*"b"*(2)"1" to "3."

(3) *Internal lining combined with cathodic protection.* A tank may be upgraded by both internal lining and cathodic protection if:

1. The lining is installed in accordance with the requirements of 135.4(4); and

2. The cathodic protection system meets the requirements of 135.3(1)*"a"*(2)"2," "3," and "4."

NOTE: The following codes and standards may be used to comply with subrule 135.3(2): American Petroleum Institute Publication 1631, "Recommended Practice for the Interior Lining of Existing Steel Underground Storage Tanks"; National Leak Prevention Association Standard 631, "Spill Prevention, Minimum 10-Year Life Extension of Existing Steel Underground Tanks by Lining Without the Addition of Cathodic Protection"; National Association of Corrosion Engineers Standard RP-02-85, "Control of External Corrosion on Metallic Buried, Partially Buried, or Submerged Liquid Storage Systems"; and American Petroleum Institute Publication 1632, "Cathodic Protection of Underground Petroleum Storage Tanks and Piping Systems."

c. *Piping upgrading requirements.* Metal piping that routinely contains regulated substances and is in contact with the ground must be cathodically protected in accordance with a code of practice developed by a nationally recognized association or independent testing laboratory and must meet the requirements of 135.3(1)*"b"*(2)"2," "3," and "4."

NOTE: The codes and standards listed in the note following 135.3(1)*"b"*(2) may be used to comply with this requirement.

d. *Spill and overfill prevention equipment.* To prevent spilling and overfilling associated with product transfer to the UST system, all existing UST systems must comply with new UST system spill and overfill prevention equipment requirements specified in 135.3(1)*"c."*

135.3(3) *Notification requirements.*

a. Except as provided in 135.3(3)*"b,"* the owner of an underground storage tank existing on or before July 1, 1985, shall complete and submit to the department a copy of the notification form provided by the department by May 1, 1986.

b. The owner of an underground storage tank taken out of operation between January 1, 1974, and July 1, 1985, shall complete and submit to the department a copy of the notification form provided by the department by May 8, 1986, unless the owner knows the tank has been removed from the ground. For purposes of this subrule, "owner" means the person who owned the tank immediately before the discontinuation of the tank's use.

c. An owner or operator who brings into use an underground storage tank after July 1, 1985, shall complete and submit to the department a copy of the notification form provided by the department within 30 days of installing the tank in the ground. The owner or operator shall not allow the deposit of any regulated substance into the tank without prior approval of the department or until the tank has been issued a tank registration tag and is covered by an approved financial responsibility mechanism in accordance with 567—Chapter 136.

d. All owners and operators of new UST systems must certify in the notification form compliance with the following requirements:

(1) Installation of tanks and piping under 135.3(1)*"e"*;

(2) Cathodic protection of steel tanks and piping under 135.3(1)*"a"* and *"b"*;

(3) Financial responsibility under 567—Chapter 136, Iowa Administrative Code;

(4) Release detection under 135.5(2) and 135.5(3).

e. All owners and operators of new UST systems must ensure that the installer certifies in the notification form that the methods used to install the tanks and piping comply with the requirements in 135.3(1)*"d."*

f. Exemption from reporting requirement. Paragraphs *"a"* to *"c"* do not apply to an underground storage tank for which notice was given pursuant to Section 103, Subsection c, of the Comprehensive Environmental Response, Compensation and Liabilities Act of 1980. (42 U.S.C. Subsection 9603(c))

g. Reporting fee. The notice by the owner to the department under paragraphs *"a"* to *"c"* shall be accompanied by a fee of $10 for each tank included in the notice.

h. Notification requirement for installing a tank. A person installing an underground storage tank and the owner or operator of the underground storage tank must notify the department of their intent to install the tank 30 days prior to installation. Notification shall be on a form provided by the department.

i. Notification requirements for a person who sells, installs, modifies or repairs a tank. A person who sells, installs, modifies, or repairs a tank used or intended to be used in Iowa shall notify, in writing, the purchaser and the owner or operator of the tank of the obligations specified in paragraphs 135.3(3)*"c"* and *"j"* and the financial assurance requirements in 567—Chapter 136. The notification must include the prohibition on depositing a regulated substance into tanks which have not been registered and issued tags by the department. A standard notification form supplied by the department may be used to satisfy this requirement.

j. It is unlawful for a person to deposit or accept a regulated substance in an underground storage tank that has not been registered and issued permanent or annual tank management tags in accordance with rule 567—135.3(455B). It is unlawful for a person to deposit or accept a regulated substance into an underground storage tank if the person has received notice from the department that the underground storage tank is subject to a delivery prohibition or if there is a "red tag" attached to the UST fill pipe or fill pipe cap as provided in subrule 135.3(8).

(1) The department may provide written authorization to receive a regulated substance when there is a delay in receiving tank tags or at new tank installations to allow for testing the tank system.

(2) The department may provide known depositors of regulated substances lists of underground storage tank sites that have been issued tank tags, those that have not been issued tank tags, and those subject to a delivery prohibition pursuant to subrule 135.3(8). These lists do not remove the requirement for depositors to verify that current tank tags are affixed to the fill pipe prior to delivering product. Regulated substances cannot be delivered to underground storage tanks without current tank tags or those displaying a delivery prohibition "red tag" as provided in subrule 135.3(8).

(3) A person shall not deposit a regulated substance in an underground storage tank after receiving written or oral notice from the department that the tank is not covered by an approved form of financial responsibility in accordance with 567—Chapter 136.

k. If an owner or operator fails to register an underground storage tank within 30 days after installation or obtain annual renewal tags by April 1, the owner or operator shall pay an additional $250 upon registration of the tank or application for tank tag renewal. The imposition of this fee does not preclude the department from assessing an additional administrative penalty in accordance with Iowa Code section 455B.476.

135.3(4) *Farm and residential tanks.*

a. The owner or operator of a farm or residential tank of 1100 gallons or less capacity used for storing motor fuel for noncommercial purposes is subject to the requirements of this subrule.

b. Farm and residential tanks, installed before July 1, 1987, shall be reported on a notification form by July 1, 1989, but owners or operators are not required to pay a registration fee.

c. Farm and residential tanks that were installed on or after July 1, 1987, shall be in compliance with all the underground storage tank regulations.

135.3(5) *Registration tags and annual management fee.*

a. Tanks of 1100 gallons or less capacity that have registered with the department will be issued a permanent registration tag.

b. The owner or operator of tanks over 1100-gallon capacity must submit a tank management fee of $65 per tank by January 15 of each year. The owner or operator must also submit written proof that the tanks are covered by an approved form of financial responsibility in accordance with 567—Chapter 136. Upon proper payment of the fee and acceptable proof of financial responsibility, a one-year registration

tag will then be issued for the period from April 1 to March 31. The department shall refund a tank management fee if the tank is permanently closed prior to the effective date of April 1 for that year.

c. The owner or operator shall affix the tag to the fill pipe of the underground storage tank where it will be readily visible.

d. A person who conveys or deposits a regulated substance shall inspect the underground storage tank to determine the existence or absence of a current registration tag, a current annual tank management fee tag, or a delivery prohibition "red tag" as provided in subrule 135.3(8). If the tag is not affixed to the fill pipe or fill pipe cap or if a delivery prohibition "red tag" is displayed, the person shall not deposit the substance in the tank.

e. The owner or operator must return the tank tags upon request of the department for failure to meet the requirements of rules 135.3(455B) to 135.5(455B) or the financial responsibility rules in 567—Chapter 136 after permanent tank closure or when tanks are temporarily closed for over 12 months, or when the tank system is suspected to be leaking and the responsible party fails to respond as required in subrule 135.8(1). The department will not return the tags until the tank system is in full compliance with the technical requirements of this chapter and financial responsibility requirements of 567—Chapter 136.

135.3(6) *Petroleum underground storage tank registration amnesty program.*

a. A petroleum underground storage tank required to be registered under 135.3(3) and 135.3(4), which has not been registered prior to July 1, 1988, may be registered under the following conditions:

(1) The tank registration fee under 135.3(3)*"g"* shall accompany the registration.

(2) The storage tank management fee under 135.3(5) shall be paid for past years in which the tank should have been registered.

b. If a tank is registered under this subrule on or prior to October 1, 1989, penalties under Iowa Code section 455B.477 shall be waived.

135.3(7) *Exemption certificates from the environmental charge on petroleum diminution.*

a. An owner or operator of a petroleum underground storage tank that is exempt, deferred, or excluded from regulation under Iowa Code sections 455G.1 to 455G.17, can apply for an exemption certificate from the department to exempt a tank from the environmental charge on petroleum diminution. Exempted tanks include those listed in 135.1(3)*"b"* and *"c"* and those excluded in the definition of "underground storage tank" in 135.2(455B). Application for the exemption certificate shall be made on the form provided by the department.

b. An exemption certificate is not required for those classes of tanks that the Iowa comprehensive petroleum underground storage tank fund board has waived from the exemption certificate requirement.

c. The department shall revoke and require the return of the exemption certificate if the petroleum underground storage tank becomes subject to Iowa Code sections 455G.1 to 455G.17.

135.3(8) *Delivery prohibition process.*

a. *Identifying sites subject to delivery response prohibition action.*

(1) Annual registration tag and tank management fee process. Owners and operators shall certify to the following on a form prepared by the department when applying for annual tank tags pursuant to subrule 135.3(5):

1. Installation and performance of an approved UST and piping release detection method as provided in rule 135.5(455B), including an annual line tightness test and a line leak detector test if applicable.

2. Installation of an approved overfill and spill protection system as provided in paragraph 135.3(1)*"c."*

3. Installation of an approved corrosion protection system as provided in paragraphs 135.3(1)*"a"* and *"b."*

4. If the UST system has been out of operation for more than three months, that the UST system has been temporarily closed in accordance with rule 135.15(455B) and a certification of temporary closure has been submitted to the department.

5. If the UST system has been removed or filled in place within the last 12 months, the date of removal or filling in place and whether a closure report has been submitted as provided in rule 135.15(455B).

(2) Sites with provisional status. If the UST system has been classified as operating under provisional status as provided in paragraph 135.3(8)*"c,"* owners and operators when applying for annual tank tags pursuant to subrule 135.3(5) must certify on a form prepared by the department that the owners and operators are in compliance with an approved provisional status remedial plan as provided in paragraph 135.3(8)*"c."*

(3) Compliance inspections. The department may initiate a delivery prohibition response action based on: (1) a finding resulting from a third-party compliance inspection conducted pursuant to rule 135.20(455B); (2) a department investigation and inspection conducted pursuant to Iowa Code section 455B.475; or (3) review of a UST system check or other documentation submitted in response to a suspected release under rule 135.6(455B) or in response to a confirmed release under rule 135.7(455B).

b. Delivery prohibition eligibility criteria. A delivery prohibition response action may be initiated upon a finding that the UST system is out of compliance with department rules and meets the eligibility criteria as specified below. Reinstatement criteria define the standards and process for owners and operators to document that they have taken corrective action sufficient to authorize resumption of fuel to the USTs. Prior to initiation of the delivery prohibition, owners and operators are afforded a minimum level of procedural due process such as prior notice and the opportunity to present facts to dispute the finding. Where notice and the opportunity to take corrective action prior to initiation of a delivery prohibition response action are required, notice by the department or by a certified compliance inspector as provided in rule 135.20(455B) shall be sufficient.

If the department finds that any one of the following criteria has been satisfied, the department may initiate a delivery prohibition response action following the notice procedures outlined in paragraph *"e"* of this subrule. After initiation of the delivery prohibition response action, the department will offer the owner or operator an opportunity to establish reinstatement criteria by written documentation and, if requested, an in-person meeting.

(1) An approved release detection method for USTs or UST piping is not installed, such as automatic tank gauging, groundwater monitoring wells and line leak detectors, and there is no record that an approved method such as inventory control, statistical inventory reconciliation, or interstitial space monitoring has been employed during the previous three months. If the owner or operator claims to have documentation that an approved release detection method has been conducted, the owner or operator will be given two business days to produce the documentation.

REINSTATEMENT CRITERIA: The owner or operator must submit results of a passing UST system precision tightness test at the 0.1 gallon-per-hour leak rate in paragraphs 135.5(4)*"c"* and 135.5(5)*"b."* The owner or operator must also document installation and operation of an approved release detection system. This may include proof that a contract has been signed with a qualified statistical inventory reconciliation provider or that a qualified inventory control method has been implemented and training has been provided to onsite supervisory personnel.

(2) No documentation of a required annual line tightness test or line leak detector test has been provided, and the owner or operator has failed to conduct the required testing within 14 days of written notice by the department or a certified compliance inspector as provided in rule 135.20(455B).

REINSTATEMENT CRITERIA: The owner or operator must provide documentation of a passing line precision tightness test at the 0.1 gallon-per-hour leak rate in paragraph 135.5(5)*"b"* and a line leak detector test as provided in paragraph 135.5(5)*"a."*

(3) Overfill and spill protection is not installed.

REINSTATEMENT CRITERION: The owner or operator must provide documentation that overfill and spill protection equipment has been installed.

(4) A corrosion protection system is not installed or there is no record that an impressed current corrosion protection system has been in operation for the prior six months.

REINSTATEMENT CRITERIA: A manned entry tank integrity inspection must be completed prior to installation of a corrosion protection system, and the owner or operator must submit results of a passing

UST system precision tightness test at the 0.1 gallon-per-hour leak rate in paragraphs 135.5(4)*"c"* and 135.5(5)*"b."* A corrosion protection analysis must be completed and approved by the department.

(5) The owner or operator has failed to provide proof of financial responsibility in accordance with 567—Chapter 136.

REINSTATEMENT CRITERION: The owner or operator must submit acceptable proof of financial responsibility in accordance with 567—Chapter 136.

(6) A qualified UST system release detection method is installed and is being used but the documentation or the absence of documentation is sufficient to question the reliability of the release detection over the past 12-month period. The owner or operator shall be notified of the deficiencies, shall be given at least two business days to produce documentation of compliance and, if necessary, shall be required to conduct a leak detection system analysis and a system tightness test within 14 days. If the owner or operator fails to produce documentation of compliance or to conduct the system analysis and the UST system precision tightness test at the 0.1 gallon-per-hour leak rate in paragraphs 135.5(4)*"c"* and 135.5(5)*"b,"* the department may initiate a delivery prohibition response action. Notice by the department or a compliance inspector as provided in rule 135.20(455B) shall be sufficient to initiate a delivery prohibition response action.

REINSTATEMENT CRITERIA: The owner or operator must submit documentation that the leak detection method analysis sufficiently documents compliance and explains the reasons for the accuracy and reliability concerns. If necessary, the owner or operator must submit passing results of a UST system precision tightness test at the 0.1 gallon-per-hour leak rate in paragraphs 135.5(4)*"c"* and 135.5(5)*"b."*

(7) The owner or operator has failed to document completion of a three-year corrosion protection test or to repair defective corrosion protection equipment within 30 days after notice of the violation by the department or a certified compliance inspector as provided in rule 135.20(455B).

REINSTATEMENT CRITERION: The owner or operator must submit documentation of a three-year corrosion protection test as provided in rule 135.3(455B).

(8) The owner or operator has failed to complete a compliance inspection required by rule 135.20(455B) within 60 days after written notice of the violation by the department.

REINSTATEMENT CRITERION: The owner or operator must submit a compliance inspection report as provided in rule 135.20(455B).

(9) The owner or operator has failed to take necessary abatement action in response to a confirmed release as provided in subrules 135.7(2) and 135.7(3).

REINSTATEMENT CRITERION: The owner or operator must document compliance with the abatement provisions in subrules 135.7(2) and 135.7(3).

(10) The owner or operator has failed to undertake and document release investigation and confirmation steps within seven days in response to a suspected release as provided in paragraph 135.6(3)*"a."*

REINSTATEMENT CRITERION: The owner or operator must document release confirmation and system check as provided in paragraph 135.6(3)*"a."*

c. *Provisional status.* The department may classify a UST system as operating under a provisional status when the department documents a pattern of UST operation and maintenance violations under rules 135.3(455B) through 135.5(455B) and suspected release and confirmed release response actions under rules 135.6(455B) and 135.7(455B). The department shall provide the owner or operator with a notice specifying the basis for the proposed classification and a proposed remedial action plan. The objective of the remedial action plan is to provide the owner and operator an opportunity to undertake certain remedial actions sufficient to establish a reasonable likelihood that future regulatory compliance will be achieved.

The remedial action plan may include but is not limited to provisions for owner/operator training, development of a facility-specific compliance manual, more frequent third-party compliance inspections than otherwise required under rule 135.20(455B), monthly reporting, and retention of a third-party compliance manager/consultant. If the owner or operator and the department cannot reach agreement on a remedial action plan, the department may initiate enforcement action by issuance of an administrative

order pursuant to 567—Chapter 10. This provision does not grant the owner or operator an entitlement to this procedure, and the department reserves all discretion to undertake an enforcement action and assess penalties as provided in Iowa Code sections 455B.476 and 455B.477.

d. Administrative orders. The department may impose a delivery prohibition as a remedy for violations of the operation and maintenance provisions in rules 135.3(455B) through 135.5(455B) and the suspected and confirmed release response actions in rules 135.6(455B) and 135.7(455B). This remedy may be in addition to the assessment of penalties as provided in Iowa Code section 455B.476 and other appropriate injunctive relief necessary to correct violations.

e. Due process prior to initiation of a delivery prohibition response action.

(1) Prior to imposing a delivery prohibition response action under paragraph 135.3(8)*"b"* above, the department will provide notice to the owner or operator or, if notice to the owner or operator cannot be confirmed, to a person in charge at the UST facility of the basis for the finding and the intent to initiate a delivery prohibition response action. Notice may be by verbal contact, by facsimile, or by regular or certified mail to the UST facility address or the owner's or operator's last-known address. The owner and operator will be given a minimum of one business day to provide documentation that the finding is inaccurate or that reinstatement criteria in subparagraphs 135.3(8)*"b"*(1) through (5) have been satisfied. Additional days and the opportunity for a telephone or in-person conference may be provided the owner and operator to contest the factual basis for a finding under subparagraphs 135.3(8)*"b"*(6) through (10). Additional procedural due process may be afforded the owner and operator on a case-by-case basis sufficient to satisfy Constitutional due process standards.

If insufficient information is submitted to change the finding, the department will notify the owner or operator and a person in charge at the UST facility of the final decision to impose the delivery prohibition response action.

(2) Provisional status. Upon a finding that an owner or operator under provisional status has failed to comply with the terms of a remedial action plan as provided above, the department may initiate a delivery prohibition response action by giving actual notice to the owner or operator of the basis for the finding of noncompliance and the department's intent to initiate a delivery prohibition response action. The delivery prohibition response action shall not be imposed without providing the owner or operator the opportunity for an evidentiary hearing consistent with the provisions for suspension and revocation of licenses under 567—Chapter 7.

f. Delivery prohibition procedure. Upon oral or written notice that the delivery prohibition response action has been imposed, the owner or operator and any person in charge of the UST facility shall be notified that they are not authorized to receive any further delivery of regulated substances until conditions for reinstatement of eligibility are satisfied. Owners and operators are required to immediately remove and return to the department the current annual tank management fee tags or the tank registration tags if there are no tank management fee tags. Owners and operators are required to provide the department with names and contact information for all persons who convey or deposit regulated substances to the USTs. The department will attempt to notify known persons who convey or deposit regulated substances to the USTs that they are not authorized to deliver to the USTs until further notice by the department as provided in paragraph 135.3(3)*"j"* and subrule 135.3(5).

If the tank tags are not returned within three business days, the department shall visit the site, remove the tags, and affix a "red tag" to the fill pipes or fill pipe caps of all affected USTs. It is unlawful for any person to deposit or accept a regulated substance into a UST that has a "red tag" affixed to the fill pipe or fill pipe cap. The department may allow the owner and operator to dispense and sell the remainder of existing fuel unless the department determines there is an immediate risk of a release or other risk to human health, safety or the environment. The department shall confirm in writing the basis for the delivery prohibition response action, contacts made prior to the action, and steps the owner or operator must take to reinstate fuel delivery.

135.3(9) *Secondary containment requirements for new and replacement UST system installations.* All new and replacement underground storage tank systems and appurtenances used for the storage and dispensing of petroleum products installed after November 28, 2007, shall have secondary containment in accordance with this subrule. The secondary containment provision includes

the installation of turbine sumps, transition or intermediate sumps and under-dispenser containment (UDC).

a. The secondary containment may be manufactured as an integral part of the primary containment or constructed as a separate containment system.

b. Installation of any new or replacement turbine pumps involving the direct connection to the tank shall have secondary containment.

c. Any replacement of ten feet or more of piping shall have secondary containment.

d. All piping replacements requiring secondary containment shall be constructed with transition or intermediate containment sumps.

e. The design and construction of all primary and secondary containment shall meet the performance standards in subrule 135.3(1) and paragraphs 135.5(3)*"b"* and 135.5(4)*"g."* At a minimum, the secondary containment must:

(1) Contain regulated substances released from the tank system until detected and removed;

(2) Prevent the release of regulated substances into the environment at any time during the operational life of the underground storage tank system; and

(3) Be checked for evidence of a release at least every 30 days as provided in paragraph 135.5(2)*"a."*

f. Secondary containment with interstitial monitoring in accordance with paragraphs 135.5(3)*"b,"*135.5(4)*"g"* and 135.5(5)*"d"* shall become the primary method of leak detection for all new and replacement tanks and piping installed after November 28, 2007.

g. Testing and inspection. Secondary containment systems shall be liquid-tight and must be inspected and tested every two years. The sensing devices must be tested every two years.

(1) Inspections for secondary containment sumps (spill catchment basins, turbine sumps, transition or intermediate sumps, and under-dispenser containment) shall:

1. Consist of a visual inspection by an Iowa-licensed installer or Iowa-certified inspector every two years. Sumps must be intact (no cracks or perforations) and liquid-tight, including sides and bottom.

2. Sumps must be maintained and kept free of debris, liquid and ice at all times.

3. Regulated substances spilled into any spill catchment basin, turbine sump, transition/intermediate sump or under-dispenser containment shall be immediately removed.

(2) Sensing devices used to monitor the interstitial space shall be tested at least every two years for proper function.

h. Under-dispenser containment. When installing a new motor fuel dispenser or replacing a motor fuel dispenser, a UDC shall be installed whenever:

(1) A motor fuel dispenser is installed at a location where there previously was no dispenser (new UST system or new dispenser location at an existing UST system); or

(2) An existing motor fuel dispenser is removed and replaced with another dispenser and the equipment used to connect the dispenser to the underground storage tank system is replaced. This equipment includes flexible connectors or risers or other transitional components that are beneath the dispenser and connect the dispenser to the piping. A UDC is not required when only the emergency shutoff or shear valves or check valves are replaced.

(3) A UDC shall also be installed beneath the motor fuel dispenser whenever ten feet or more of piping is repaired or replaced within ten feet of a motor fuel dispenser.

i. Exceptions from secondary containment standards. A tank owner or operator may request an exception from the secondary containment standard if the location of the UST system is greater than 1,000 feet from a community water system or potable drinking water well. A community water system includes the distribution piping.

(1) "Community water system (CWS)" means a public water system which has at least 15 service connections used by year-round residents or regularly serves at least 25 year-round residents. "Public water supply system" means a system for the provision to the public of water for human consumption through pipes or other constructed conveyances, if such system has at least 15 service connections or regularly serves an average of at least 25 individuals daily at least 60 days out of the year. Such term includes: any collection, treatment, storage, and distribution facilities under control of the operator of

such system and used primarily in connection with such system; and any collection or pretreatment storage facilities not under such control which are used primarily in connection with such system. Such term does not include any "special irrigation district." A "public water supply system" is either a "community water system" or a "noncommunity water system."

(2) "Potable drinking water well" means any hole (dug, driven, drilled, or bored) that extends into the earth until it meets groundwater and that supplies water for a noncommunity public water system or supplies water for household use (consisting of drinking, bathing, and cooking or other similar uses). Such wells may provide water to entities such as a single-family residence, a group of residences, businesses, schools, parks, campgrounds, and other permanent or seasonal communities. A "noncommunity water system" is defined in rule 567—40.2(455B) as a public water system that is not a community water system. A "noncommunity water system" is either a "transient noncommunity water system (TNC)" or a "nontransient noncommunity water system (NTNC)."

(3) To determine if a new or replacement underground storage tank, piping, or motor fuel dispenser system is within 1,000 feet of an existing community water system or an existing potable drinking water well, at a minimum the distance must be measured from the closest part of the new or replacement underground storage tank or piping or the motor fuel dispenser system to:

1. The closest part of the nearest existing community water system, including:

- The location of the wellhead(s) for groundwater and the location of the intake point(s) for surface water;
- Water lines, processing tanks, and water storage tanks; and
- Water distribution/service lines under the control of the community water system operator.

2. The wellhead of the nearest existing potable drinking water well.

(4) If a new or replacement underground storage tank, piping, or motor fuel dispenser that is not within 1,000 feet of an existing community water system will be installed, and a community water system that will be within 1,000 feet of the UST system is planned or a permit application has been submitted to the department under 567—Chapter 40, secondary containment and under-dispenser containment are required unless the permit is denied.

(5) If a new or replacement underground storage tank, piping, or motor fuel dispenser that is not within 1,000 feet of an existing potable drinking water well will be installed and the owner will be installing a potable drinking water well at the new facility, or a private water well permit has been submitted pursuant to 567—Chapter 38 and pursuant to applicable county and municipal ordinances for a potable drinking water well that will be within 1,000 feet of the UST system, secondary containment and under-dispenser containment are required unless the permit is denied.

j. Documentation for exception from secondary containment. The following documentation must be provided by the tank owner or operator when requesting an exception from the UST system secondary containment requirement.

(1) A statement from the manager of the local community water system that the community water system is not located or planned within 1,000 feet of the UST system location. This would include rural water systems.

(2) A map showing homes and businesses within 1,000 feet of the UST system location.

(3) Identification of the source of water for the business at the UST system location.

(4) The results of an on-foot search around businesses and homes within a 1,000-foot radius for possible potable drinking water wells. Documentation that there are no pending nonpublic water well permit applications within 1,000 feet of the UST system from any applicable municipal permitting authority, county department of health with department-delegated authority, or the department if there is not delegated permitting authority.

(5) Search results from the Geographic Information System (GIS) well mapping for well locations available from the Iowa Geological Survey.

(6) Documentation that the department's water supply section has no pending applications for a public water supply construction permit within 1,000 feet of a proposed UST system installation or replacement or motor fuel dispenser installation or replacement.

567—135.4(455B) General operating requirements.

135.4(1) *Spill and overfill control.*

a. Owners and operators must ensure that releases due to spilling or overfilling do not occur. The owner and operator must ensure that the volume available in the tank is greater than the volume of product to be transferred to the tank before the transfer is made and that the transfer operation is monitored constantly to prevent overfilling and spilling.

NOTE: The transfer procedures described in National Fire Protection Association Publication 385 may be used to comply with 135.4(1)*"a."* Further guidance on spill and overfill prevention appears in American Petroleum Institute Publication 1621, "Recommended Practice for Bulk Liquid Stock Control at Retail Outlets," and National Fire Protection Association Standard 30, "Flammable and Combustible Liquids Code."

b. The owner and operator must report, investigate, and clean up any spills and overfills in accordance with 135.6(4).

135.4(2) *Operation and maintenance of corrosion protection.* All owners and operators of steel UST systems with corrosion protection must comply with the following requirements to ensure that releases due to corrosion are prevented for as long as the UST system is used to store regulated substances:

a. All corrosion protection systems must be operated and maintained to continuously provide corrosion protection to the metal components of that portion of the tank and piping that routinely contain regulated substances and are in contact with the ground.

b. All UST systems equipped with cathodic protection systems must be inspected for proper operation by a qualified cathodic protection tester in accordance with the following requirements:

(1) *Frequency.* All cathodic protection systems must be tested within six months of installation and at least every three years thereafter or according to another reasonable time frame established by the department; and

(2) *Inspection criteria.* The criteria that are used to determine that cathodic protection is adequate as required by this subrule must be in accordance with a code of practice developed by a nationally recognized association.

NOTE: National Association of Corrosion Engineers Standard RP-02-85, "Control of External Corrosion on Metallic Buried, Partially Buried, or Submerged Liquid Storage Systems," may be used to comply with 135.4(2)*"b"*(2).

c. UST systems with impressed current cathodic protection systems must also be inspected every 60 days to ensure the equipment is running properly.

d. For UST systems using cathodic protection, records of the operation of the cathodic protection must be maintained (in accordance with 135.4(5)) to demonstrate compliance with the performance standards in this subrule. These records must provide the following:

(1) The results of the last three inspections required in paragraph *"c"*; and

(2) The results of testing from the last two inspections required in paragraph *"b."*

135.4(3) *Compatibility.* Owners and operators must use a UST system made of or lined with materials that are compatible with the substance stored in the UST system.

NOTE: Owners and operators storing alcohol blends may use the following codes to comply with the requirements of subrule 135.4(3): American Petroleum Institute Publication 1626, "Storing and Handling Ethanol and Gasoline-Ethanol Blends at Distribution Terminals and Service Stations"; and American Petroleum Institute Publication 1627, "Storage and Handling of Gasoline-Methanol/Cosolvent Blends at Distribution Terminals and Service Stations."

135.4(4) *Repairs allowed.* Owners and operators of UST systems must ensure that repairs will prevent releases due to structural failure or corrosion as long as the UST system is used to store regulated substances. The repairs must meet the following requirements:

a. Repairs to UST systems must be properly conducted in accordance with a code of practice developed by a nationally recognized association or an independent testing laboratory.

NOTE: The following codes and standards may be used to comply with 135.4(4)*"a"*: National Fire Protection Association Standard 30, "Flammable and Combustible Liquids Code"; American Petroleum Institute Publication 2200, "Repairing Crude Oil, Liquified Petroleum Gas, and Product Pipelines";

American Petroleum Institute Publication 1631, "Recommended Practice for the Interior Lining of Existing Steel Underground Storage Tanks"; and National Leak Prevention Association Standard 631, "Spill Prevention, Minimum 10 Year Life Extension of Existing Steel Underground Tanks by Lining Without the Addition of Cathodic Protection."

b. Repairs to fiberglass-reinforced plastic tanks may be made by the manufacturer's authorized representatives or in accordance with a code of practice developed by a nationally recognized association or an independent testing laboratory.

c. Metal pipe sections and fittings that have released product as a result of corrosion or other damage must be replaced. Fiberglass pipes and fittings may be repaired in accordance with the manufacturer's specifications.

d. Repaired tanks and piping must be tightness tested in accordance with 135.5(4)*"c"* and 135.5(5)*"b"* within 30 days following the date of the completion of the repair except as provided in subparagraphs (1) to (3) below:

(1) The repaired tank is internally inspected in accordance with a code of practice developed by a nationally recognized association or an independent testing laboratory; or

(2) The repaired portion of the UST system is monitored monthly for releases in accordance with a method specified in 135.5(4)*"d"* through *"h"*; or

(3) Another test method is used that is determined by the department to be no less protective of human health and the environment than those listed above.

e. Within six months following the repair of any cathodically protected UST system, the cathodic protection system must be tested in accordance with 135.4(2)*"b"* and *"c"* to ensure that it is operating properly.

f. UST system owners and operators must maintain records of each repair for the remaining operating life of the UST system that demonstrate compliance with the requirements of this subrule.

135.4(5) *Reporting and record keeping.* Owners and operators of UST systems must cooperate fully with inspections, monitoring and testing conducted by the department, as well as requests for document submission, testing, and monitoring by the owner or operator pursuant to Section 9005 of Subtitle I of the Resource Conservation and Recovery Act, as amended.

a. *Reporting.* Owners and operators must submit the following information to the department:

(1) Notification for all UST systems (135.3(3)), which includes certification of installation for new UST systems (135.3(1)*"e"*);

(2) Reports of all releases including suspected releases (135.6(1)), spills and overfills (135.6(4)), and confirmed releases (135.7(2));

(3) Corrective actions planned or taken including initial abatement measures (135.7(3)), initial site characterization (135.9(455B)), free product removal (135.7(5)), investigation of soil and groundwater cleanup and corrective action plan (135.8(455B) to 135.12(455B)); and

(4) A notification before permanent closure or change-in-service (135.15(2)).

b. *Record keeping.* Owners and operators must maintain the following information:

(1) A corrosion expert's analysis of site corrosion potential if corrosion protection equipment is not used (135.3(1)*"a"*(4); (135.3(1)*"b"*(3)).

(2) Documentation of operation of corrosion protection equipment (135.4(2));

(3) Documentation of UST system repairs (135.4(4)*"f"*);

(4) Recent compliance with release detection requirements (135.5(6)); and

(5) Results of the site investigation conducted at permanent closure (135.15(5)).

c. *Availability and maintenance of records.* Owners and operators must keep the records required either:

(1) At the UST site and immediately available for inspection by the department; or

(2) At a readily available alternative site and be provided for inspection to the department upon request.

NOTE: In the case of permanent closure records required under 135.15(5), owners and operators are also provided with the additional alternative of mailing closure records to the department if they cannot be kept at the site or an alternative site as indicated above.

135.4(6) *Training required for UST operators.*

a. An owner or operator shall designate Class A, Class B, and Class C operators for each underground storage tank system or facility that has underground storage tanks regulated by the department, except for unstaffed facilities, which may designate only Class A and Class B operators.

b. A facility may not operate after December 31, 2011, unless operators have been designated and trained as required in this rule, or unless otherwise agreed upon by the department based on a finding of good cause for failure to meet this requirement and a plan for designation and training at the earliest practicable date.

c. Trained operators must be readily available to respond to suspected or confirmed releases, equipment shut-offs or failures, and other unusual operating conditions.

d. A Class A or Class B operator should be immediately available for telephone consultation with the Class C operator when a facility is in operation. Class A or Class B operators should be able to be on site at the storage tank facility within four hours.

e. For staffed facilities, a Class C operator must be on site whenever the UST facility is in operation.

f. For unstaffed facilities, a Class B operator must be geographically located such that the person can be on site within two hours of being contacted by the public, the owner or operator of the facility, or the department. Emergency contact information and emergency procedures must be prominently displayed at the site. An unstaffed facility shall have an emergency shutoff device as provided in 135.5(1) and a sign posted in a conspicuous place that includes the name and telephone number of the facility owner, an emergency response telephone number to contact the Class B operator, and information on local emergency responders.

g. Designated operators must successfully complete required training under subrule 135.4(9) no later than December 31, 2011.

h. A person may be designated for more than one class of operator.

i. When a facility is found to be out of compliance, the department may require the owner and operator to retrain the designated UST system Class A, B, or C operator under a plan approved by the department. The retraining must occur within 60 days from departmental notice for Class A and Class B operators and within 15 days for Class C operators.

135.4(7) *UST operator responsibilities.*

a. Class A operator.

(1) Class A operators have the primary responsibility to operate and maintain the underground storage tank system and facility. The Class A operator's responsibilities include managing resources and personnel to achieve and maintain compliance with regulatory requirements under this chapter in the following ways:

1. Class A operators assist the owner by ensuring that underground storage tank systems are properly installed and expeditiously repaired and inspected; financial responsibility is maintained; and records of system installation, modification, inspection and repair are retained and made available to the department and licensed compliance inspectors. The Class A operator shall properly respond to and report emergencies caused by releases or spills from UST systems, ensure that the annual tank management fees are paid, and ensure that Class B and Class C operators are properly trained.

2. Class A operators shall be familiar with training requirements for each class of operator and may provide required training for Class C operators.

3. Class A operators shall provide site drawings that indicate equipment locations for Class B and Class C operators.

(2) Department-licensed installers, installation inspectors, and compliance inspectors may perform Class A operator duties when employed or contracted by the tank owner to perform these functions so long as they are properly trained and designated as Class A operators pursuant to subrules 135.4(9) through 135.4(11). Class A operators who are also licensed compliance inspectors under 567—Chapter 134, Part C, may perform in-house facility inspections of the UST system, but shall not perform department-mandated compliance inspections pursuant to rule 567—135.20(455B). Compliance

inspections of a UST facility required by rule 567—135.20(455B) must be completed by a third-party compliance inspector licensed under 567—Chapter 134, Part B.

(3) When there is a change in ownership or operator status, the new owner or operator is responsible for designating a Class A operator prior to bringing the UST system into operation. The Class A operator is responsible for ensuring that all necessary documentation for change of ownership is completed and submitted to the department and that all compliance requirements of this chapter are satisfied prior to bringing the UST system into operation. The compliance requirements may be provided to the owner or operator using the department's checklist.

If the UST system was temporarily closed, the designated Class A operator must ensure the department's checklist for returning a UST into service is followed, all compliance requirements of this chapter have been met, and the necessary documentation is submitted to the department.

(4) When there is a change in UST ownership, property ownership or operator status, the designated Class A operator for the current owner and operator is responsible for notifying the department when the change is final and, if possible, prior to the new owner or operator taking possession of the site.

b. Class B operator.

(1) A Class B operator implements applicable underground storage tank regulatory requirements and standards in the field or at the tank facility. A Class B operator oversees and implements the day-to-day aspects of operation, maintenance, and record keeping for the underground storage tanks at facilities within four hours of travel time from the Class B operator's principal place of business. A Class B operator's responsibilities include, but are not limited to:

1. Performing mandated system tests at required intervals and making sure spill prevention, overfill control equipment, and corrosion protection equipment are properly functioning.

2. Assisting the owner by ensuring that release detection equipment is operational, release detection monitoring and tests are performed at the proper intervals, and release detection records are retained and made available to the department and compliance inspectors.

3. Making sure record-keeping and reporting requirements are met and that relevant equipment manufacturers' or third-party performance standards are available and followed.

4. Properly responding to, investigating, and reporting emergencies caused by releases or spills from USTs.

5. Performing UST release detection in accordance with rule 567—135.5(455B).

6. Monitoring the status of UST release detection.

7. Meeting spill prevention, overfill prevention, and corrosion protection requirements.

8. Reporting suspected and confirmed releases and taking release prevention and response actions according to the requirements of rule 567—135.6(455B).

9. Training and documenting Class C operators to make sure at least one Class C operator is on site during operating hours. Class B operators shall be familiar with Class C operator responsibilities and may provide required training for Class C operators.

(2) Department-licensed installers, installation inspectors, and compliance inspectors may perform Class B operator duties when employed or contracted by the tank owner to perform these functions so long as they are properly trained and designated as Class B operators under subrules 135.4(9) through 135.4(11). Class B operators who are also licensed compliance inspectors under 567—Chapter 134, Part C, may perform in-house facility inspections of the UST system, but cannot perform department-mandated compliance inspections pursuant to rule 567—135.20(455B). Compliance inspections of a UST facility pursuant to rule 567—135.20(455B) must be completed by a third-party compliance inspector licensed under 567—Chapter 134, Part B.

(3) The owner or operator of a site undergoing a change in ownership shall designate a Class B operator prior to bringing the UST system into operation. The Class B operator must conduct an inspection using the department's inspection checklist and submit the completed checklist along with the change of ownership form prior to operation. If a UST system was temporarily closed, the Class B operator shall ensure that the department's checklist for returning a UST to service is followed and that the necessary documentation is submitted to the department prior to operation of the UST system.

c. Class C operator. A Class C operator is an on-site employee who typically controls or monitors the dispensing or sale of regulated substances and is the first to respond to events indicating emergency conditions. A Class C operator must be present at the facility at all times during normal operating hours. A Class C operator monitors product transfer operations to ensure that spills and overfills do not occur. The Class C operator must know how to properly respond to spills, overfills and alarms when they do occur. In the event of a spill, overfill or alarm, a Class C operator shall notify the Class A and Class B operators, as well as the department and appropriate local emergency authorities as required by rule.

(1) Within six months after October 14, 2009, written basic operating instructions, emergency contact names and telephone numbers, and basic procedures specific to the facility shall be provided to all Class C operators and readily available on site.

(2) There may be more than one Class C operator at a storage tank facility, but not all employees of a facility need be Class C operators.

135.4(8) *UST operator training course requirements.* Individuals must attend a department-approved training course covering material designated for each operator class. Individuals must attend every session of the training, take the examination, and attend examination review.

a. Class A operators. To be certified as a Class A operator, the applicant must successfully complete a department-approved training course that covers underground storage tank system requirements as outlined in 567—Chapters 134 to 136. The course must also provide a general overview of the department's UST program, purpose, groundwater protection goals, public safety and administrative requirements. The training must include, but is not limited to, the following:

(1) Components and materials of underground storage tank systems.

(2) A general discussion of the content of PEI/RP900-08, Recommended Practices for the Inspection and Maintenance of UST Systems, and PEI/RP500, Recommended Practices for Inspection and Maintenance of Motor Fuel Dispensing Equipment.

(3) Spill and overfill prevention, to include the American Petroleum Institute (API) Publication RP1621, "Recommended Practice for Bulk Liquid Stock Control at Retail Outlets," and National Fire Protection Association Standard 30, "Flammable and Combustible Liquids Code."

(4) Ensuring product delivery to the correct tank by using color-symbol codes in the API Standard RP1637, "Using the API Color-Symbol System to Mark Equipment and Vehicles for Product Identification at Service Stations and Distribution Terminals."

(5) Proper fuel ordering and delivery, including procedures in API RP1007, "Loading and Unloading of MC/DOT 406 Cargo Tank Motor Vehicles."

(6) Release detection methods and related reporting requirements.

(7) Corrosion protection and inspection requirements, including the requirement to have a department-licensed cathodic protection tester.

(8) Discussion of the benefits of monthly or frequent inspections and content and use of inspection checklists. Training materials for operators shall include the department's "Iowa UST Operator Inspection Checklist" or a checklist template similar to the department's document.

(9) Requirement and content of third-party compliance inspections.

(10) How to properly respond to an emergency, including hazardous conditions.

(11) Product and equipment compatibility, including the department's ethanol compatibility guidance and certification.

(12) Financial responsibility, including detailed explanation of liability, notice and claim procedures, and the six-month window to check for and report a release prior to insurance termination to maintain coverage for corrective action.

(13) Notification of installation and storage tank registration requirements.

(14) Requirement to use department-licensed companies and individuals for UST installation, testing, lining, and removal.

(15) Temporary and permanent closure procedures and requirements.

(16) NESHAP vapor recovery requirements.

(17) Conditions under which the department may stop fuel delivery and take enforcement action.

(18) Ensuring that annual tank management fees are paid.

(19) Ensuring that suspected and confirmed releases are investigated and reported according to subrule 135.6(1).

b. Class B operators. To be certified as a Class B operator, the individual must successfully complete a department-approved training course that provides in-depth understanding of UST system regulations applicable to this class. Training must also provide a general overview of the department's UST program, purpose, groundwater protection goals, public safety and administrative requirements. Training shall cover the operation and maintenance requirements set forth in this chapter, including, but not limited to, the following:

(1) A general discussion of the content of PEI/RP900-08, Recommended Practices for the Inspection and Maintenance of UST Systems, and PEI/RP500, Recommended Practices for Inspection and Maintenance of Motor Fuel Dispensing Equipment.

(2) Components and materials of underground storage tank systems.

(3) Spill and overfill prevention.

(4) Ensuring product delivery to the correct tank by using color-symbol codes in the API Standard RP1637.

(5) Proper fuel ordering and delivery, including procedures from API RP1007.

(6) Methods of release detection and related reporting requirements.

(7) Corrosion protection and related testing.

(8) Discussion of the benefits of monthly or frequent inspections and content and use of inspection checklists. Training materials for operators shall include the department's "Iowa UST Operator Inspection Checklist" or a checklist template similar to the department's document.

(9) Requirement and content of third-party compliance inspections.

(10) Emergency response, reporting and investigating releases.

(11) Product and equipment compatibility, including the department's ethanol compatibility guidance and certification.

(12) Financial responsibility, including detailed explanation of liability, notice and claim procedures, and the six-month window to check for and report a release prior to insurance termination to maintain coverage for corrective action.

(13) Notification of installation and storage tank registration requirements.

(14) Requirement to use department-licensed companies and individuals for UST installation, testing, lining, and removal.

(15) Reporting and record-keeping requirements.

(16) Overview of Class C operator training requirements.

(17) NESHAP vapor recovery requirements.

(18) Conditions under which the department may stop fuel delivery and take enforcement action.

c. Class C operators. To be certified as a Class C operator, an individual must complete a department-approved training course that covers, at a minimum, a general overview of the department's UST program and purpose; groundwater protection goals; public safety and administrative requirements; and action to be taken in response to an emergency condition due to a spill or release from a UST system. Training must include written procedures for the Class C operator, including notification instructions necessary in the event of emergency conditions. The written instructions and procedures must be readily available on site. A Class A or Class B operator may provide Class C training.

135.4(9) *Examination and review requirement.* Class A and Class B operators must complete the department-approved training course and take an examination to verify their understanding and knowledge. The examination may include both written and practical (hands-on) testing activities. The trainer must follow up the examination with a review of missed test questions with the class or individual to ensure understanding of problem areas. Upon successful completion of the training course, the applicant will receive a certificate verifying the applicant's status as a Class A, Class B, or Class C operator.

a. Reciprocity. The department may waive the training course for operators upon a showing of successful completion of a training course and examination approved by another state or regulatory

agency that the department determines are substantially equivalent to the UST requirements contained in this chapter.

b. *Transferability to another UST site.* Class A and Class B operators may transfer to other UST facilities in Iowa provided the operator is properly designated by the facility owner as a Class A or Class B operator according to 567—subrule 134.4(13). Class A and Class B operators transferring from other states shall seek prior approval of training qualifications, unless the department has preapproved the out-of-state program as substantially equivalent to the requirements of this chapter.

135.4(10) *Timing of UST operator training.*

a. An owner shall ensure that Class A, Class B, and Class C operators are trained as soon as practicable after October 14, 2009, contingent upon availability of approved training providers, but not later than December 31, 2011, except as provided in paragraph 135.4(6)*"b."*

b. When a Class A or Class B operator is replaced, a new operator must be trained prior to assuming duties for that class of operator.

c. Class C operators must be trained before assuming the duties of a Class C operator. Within six months after October 14, 2009, written basic operating instructions, emergency contact names and telephone numbers, and basic procedures specific to the facility shall be provided to all Class C operators and readily available on site. A Class C operator may be briefed on these procedures concurrent with annual safety training required under Occupational Safety and Health Administration regulations, 29 CFR, Part 1910.

135.4(11) *Documentation of operator training.*

a. The owner of an underground storage tank facility shall maintain a list of designated operators. The list shall be made available to the department in accordance with subrule 135.4(5). The list shall represent the current Class A, Class B and Class C operators for the UST facility and must include:

(1) The name of each operator and the operator's class(es); contact information for Class A and Class B operators; the date each operator successfully completed initial training and refresher training, if any; the name of the company providing the training; and the name of the trainer.

(2) For all classes of operators, the site(s) for which an operator is responsible if more than one site.

b. A copy of the certificates of training for Class A and Class B operators shall be on file and readily available for inspection in accordance with subrule 135.4(5).

c. A copy of the certificates of training for Class B and Class C operators shall be available at each facility for which the operator is responsible.

d. Class A and Class B operator contact information, including names and telephone numbers and any emergency information, shall be conspicuously posted at unstaffed facilities near the dispensers and the station building.

[**ARC 8124B**, IAB 9/9/09, effective 10/14/09]

567—135.5(455B) Release detection.

135.5(1) *General requirements for all UST systems.*

a. Owners and operators of new and existing UST systems must provide a method, or combination of methods, of release detection that:

(1) Can detect a release from any portion of the tank and the connected underground piping that routinely contains product;

(2) Is installed, calibrated, operated, and maintained in accordance with the manufacturer's instructions, including routine maintenance and service checks for operability or running condition; and

(3) Meets the performance requirements in 135.5(4) or 135.5(5), with any performance claims and their manner of determination described in writing by the equipment manufacturer or installer. In addition, methods conducted in accordance with 135.5(4)*"b," "c,"* and *"d"* and 135.5(5)*"b"* after December 22, 1990, and 135.5(5)*"a"* after September 22, 1991, except for methods permanently installed prior to those dates, must be capable of detecting the leak rate or quantity specified for that method with a probability of detection of 0.95 and a probability of false alarm of 0.05.

b. When a release detection method operated in accordance with the performance standards in 135.5(4) and 135.5(5) indicates a release may have occurred, owners and operators must notify the department in accordance with rule 135.6(455B).

c. Owners and operators of all UST systems must comply with the release detection requirements of this rule by December 22 of the year listed in the following table:

Scheduled for Phase-in of Release Detection					
Year System Was Installed	Year When Release Detection is Required (by December 22 of the Year Indicated)				
	1989	1990	1991	1992	1993
Before 1965 or Date Unknown	RD	P			
1965-1969		P/RD			
1970-1974		P	RD		
1975-1979		P		RD	
1980-1988		P			RD
New Tanks	Immediately upon installation				

P = Must begin release detection for all pressurized piping in accordance with 135.5(2)*"b"*(1).

RD = Must begin release detection for tanks and suction piping in accordance with 135.5(2)*"a,"* 135.5(2)*"b"*(2), and 135.5(3).

d. Any existing UST system that cannot apply a method of release detection that complies with the requirements of this rule must complete the closure procedures in rule 135.15(455B) by the date on which release detection is required for that UST system under paragraph *"c."*

e. **[See Objection at end of chapter]** UST systems using pressurized piping that operate with no on-site personnel shall comply with the following requirements:

(1) Whenever an in-line leak detector is installed or replaced, it must be capable of shutting down the submersible pump.

(2) Existing sites with an in-line leak detection system in place on February 17, 2010, may continue operation provided that, by January 1, 2013, either of the following UST system modifications is made:

1. An in-line leak detector capable of shutting off the submersible pump is installed; or

2. The UST system is equipped with a device that immediately alerts the Class B operator or designee when a leak is detected. The Class B operator or designee shall be on site within two hours of notification and shut down the submersible pump. The UST system cannot be returned to service until the problem that caused the release response is resolved.

3. A temporary extension of time to meet these upgrade requirements may be granted if it can be shown that there is no reasonable alternative fueling source in the vicinity or fueling is needed to satisfy emergency or public safety considerations. The request for temporary extension must include documentation and a plan for upgrading prior to January 1, 2013.

(3) At sites with secondary containment sumps and continuous automatic sump sensors for leak detection monitoring, the continuous automatic sump sensors must shut off product flow when a leak is detected. If it is determined that a malfunction of the leak detection system is the cause of the shutdown, the UST system must be immediately repaired but may continue to be operated while the repairs are made.

135.5(2) *Requirements for petroleum UST systems.* Owners and operators of petroleum UST systems must provide release detection for tanks and piping as follows:

a. *Tanks.* Tanks must be monitored at least every 30 days for releases using one of the methods listed in 135.5(4)*"d"* to *"h"* except that:

(1) UST systems that meet the performance standards in 135.3(1) or 135.3(2), and the monthly inventory control requirements in 135.5(4)*"a"* or *"b,"* may use tank tightness testing (conducted in

accordance with 135.5(4)*"c"*) at least every five years until December 22, 1998, or until ten years after the tank is installed or upgraded under 135.3(2)*"b,"* whichever is later;

(2) UST systems that do not meet the performance standards in 135.3(1) or 135.3(2) may use monthly inventory controls (conducted in accordance with 135.5(4)*"a"* or *"b"*) and annual tank tightness testing (conducted in accordance with 135.5(4)*"c"*) until December 22, 1998, when the tank must be upgraded under 135.3(2) or permanently closed under 135.15(2); and

(3) Tanks with capacity of 550 gallons or less may use weekly tank gauging (conducted in accordance with 135.5(4)*"b"*).

b. *Piping.* Underground piping that routinely contains regulated substances must be monitored for releases in a manner that meets one of the following requirements:

(1) *Pressurized piping.* Underground piping that conveys regulated substances under pressure must:

1. Be equipped with an automatic line leak detector conducted in accordance with 135.5(5)*"a"*; and

2. Have an annual line tightness test conducted in accordance with 135.5(5)*"b"* or have monthly monitoring conducted in accordance with 135.5(5)*"c."*

(2) *Suction piping.* Underground piping that conveys regulated substances under suction must either have a line tightness test conducted at least every three years and in accordance with 135.5(5)*"b,"* or use a monthly monitoring method conducted in accordance with 135.5(5)*"c."* No release detection is required for suction piping that is designed and constructed to meet the following standards:

1. The below-grade piping operates at less than atmospheric pressure;

2. The below-grade piping is sloped so that the contents of the pipe will drain back into the storage tank if the suction is released;

3. Only one check valve is included in each suction line;

4. The check valve is located directly below and as close as practical to the suction pump; and

5. A method is provided that allows compliance with "2" through "4" to be readily determined.

135.5(3) *Requirements for hazardous substance UST systems.* Owners and operators of hazardous substance UST systems must provide release detection that meets the following requirements:

a. Release detection at existing UST systems must meet the requirements for petroleum UST systems in 135.5(2). By December 22, 1998, all existing hazardous substance UST systems must meet the release detection requirements for new systems in paragraph *"b"* below.

b. Release detection at new hazardous substance UST systems must meet the following requirements:

(1) Secondary containment systems must be designed, constructed and installed to:

1. Contain regulated substances released from the tank system until they are detected and removed;

2. Prevent the release of regulated substances to the environment at any time during the operational life of the UST system; and

3. Be checked for evidence of a release at least every 30 days.

NOTE: The provisions of 40 CFR 265.193, Containment and Detection of Releases, as of September 13, 1988, may be used to comply with these requirements.

(2) Double-walled tanks must be designed, constructed, and installed to:

1. Contain a release from any portion of the inner tank within the outer wall; and

2. Detect the failure of the inner wall.

(3) External liners (including vaults) must be designed, constructed, and installed to:

1. Contain 100 percent of the capacity of the largest tank within its boundary;

2. Prevent the interference of precipitation or groundwater intrusion with the ability to contain or detect a release of regulated substances; and

3. Surround the tank completely (i.e., it is capable of preventing lateral as well as vertical migration of regulated substances).

(4) Underground piping must be equipped with secondary containment that satisfies the requirements of 135.5(3)*"b"*(1) above (e.g., trench liners, jacketing of double-walled pipe). In addition,

underground piping that conveys regulated substances under pressure must be equipped with an automatic line leak detector in accordance with 135.5(5)*"a"*;

(5) Other methods of release detection may be used if owners and operators:

1. Demonstrate to the department that an alternate method can detect a release of the stored substance as effectively as any of the methods allowed in 135.5(4)*"b"* to *"h"* can detect a release of petroleum;

2. Provide information to the department on effective corrective action technologies, health risks, and chemical and physical properties of the stored substance, and the characteristics of the UST site; and

3. Obtain approval from the department to use the alternate release detection method before the installation and operation of the new UST system.

135.5(4) *Methods of release detection for tanks.* Each method of release detection for tanks used to meet the requirements of 135.5(2) must be conducted in accordance with the following:

a. Inventory control. Product inventory control (or another test of equivalent performance) must be conducted monthly to detect a release of at least 1.0 percent of flow-through plus 130 gallons on a monthly basis in the following manner:

(1) Inventory volume measurements for regulated substance inputs, withdrawals, and the amount still remaining in the tank are recorded each operating day;

(2) The equipment used is capable of measuring the level of product over the full range of the tank's height to the nearest 1/8 of an inch;

(3) The regulated substance inputs are reconciled with delivery receipts by measurement of the tank inventory volume before and after delivery;

(4) Deliveries are made through a drop tube that extends to within 1 foot of the tank bottom;

(5) Product dispensing is metered and recorded within the local standards for meter calibration or an accuracy of 6 cubic inches for every 5 gallons of product withdrawn; and

(6) The measurement of any water level in the bottom of the tank is made to the nearest 1/8 of an inch at least once a month.

NOTE: Practices described in the American Petroleum Institute Publication 1621, "Recommended Practice for Bulk Liquid Stock Control at Retail Outlets," may be used, where applicable, as guidance in meeting the requirements of subrule 135.5(4), paragraph *"a,"* subparagraphs (1) to (6).

b. Manual tank gauging. Manual tank gauging must meet the following requirements:

(1) Tank liquid level measurements are taken at the beginning and ending of a period of at least 36 hours during which no liquid is added to or removed from the tank;

(2) Level measurements are based on an average of two consecutive stick readings at both the beginning and ending of the period;

(3) The equipment used is capable of measuring the level of product over the full range of the tank's height to the nearest 1/8 of an inch;

(4) A leak is suspected and subject to the requirements of rule 135.6(455B) if the variation between beginning and ending measurements exceeds the weekly or monthly standards in the following table:

Nominal Tank Capacity	Weekly Standard (one test)	Monthly Standard (average of four tests)
550 gallons or less	10 gallons	5 gallons
551-1,000 gallons	13 gallons	7 gallons
1,001-2,000 gallons	26 gallons	13 gallons

(5) Only tanks of 550 gallons or less nominal capacity may use this as the sole method of release detection. Tanks of 551 to 2000 gallons may use the method in place of manual inventory control in 135.5(4)*"a."* Tanks of greater than 2000 gallons nominal capacity may not use this method to meet the requirements of this rule.

c. Tank tightness testing. Tank tightness testing (or another test of equivalent performance) must be capable of detecting a 0.1 gallon-per-hour leak rate from any portion of the tank that routinely

contains product while accounting for the effects of thermal expansion or contraction of the product, vapor pockets, tank deformation, evaporation or condensation, and the location of the water table.

d. *Automatic tank gauging.* Equipment for automatic tank gauging that tests for the loss of product and conducts inventory control must meet the following requirements:

(1) The automatic product level monitor test can detect a 0.2 gallon-per-hour leak rate from any portion of the tank that routinely contains product; and

(2) Inventory control (or another test of equivalent performance) is conducted in accordance with the requirements of 135.5(4)*"a."*

e. *Vapor monitoring.* Testing or monitoring for vapors within the soil gas of the excavation zone must meet the following requirements:

(1) The materials used as backfill are sufficiently porous (e.g., gravel, sand, crushed rock) to readily allow diffusion of vapors from releases into the excavation area;

(2) The stored regulated substance, or a tracer compound placed in the tank system, is sufficiently volatile (e.g., gasoline) to result in a vapor level that is detectable by the monitoring devices located in the excavation zone in the event of a release from the tank;

(3) The measurement of vapors by the monitoring device is not rendered inoperative by the groundwater, rainfall, or soil moisture or other known interferences so that a release could go undetected for more than 30 days;

(4) The level of background contamination in the excavation zone will not interfere with the method used to detect releases from the tank;

(5) The vapor monitors are designed and operated to detect any significant increase in concentration above background of the regulated substance stored in the tank system, a component or components of that substance, or a tracer compound placed in the tank system;

(6) In the UST excavation zone, the site is assessed to ensure compliance with the requirements in 135.5(4)*"e"*(1) to (4) and to establish the number and positioning of monitoring wells that will detect releases within the excavation zone from any portion of the tank that routinely contains product; and

(7) Monitoring wells are clearly marked and secured to avoid unauthorized access and tampering.

f. *Groundwater monitoring.* Testing or monitoring for liquids on the groundwater must meet the following requirements:

(1) The regulated substance stored is immiscible in water and has a specific gravity of less than 1;

(2) Groundwater is never more than 20 feet from the ground surface and the hydraulic conductivity of the soil(s) between the UST system and the monitoring wells or devices is not less than 0.01 cm/sec (e.g., the soil should consist of gravels, coarse to medium sands, coarse silts or other permeable materials);

(3) The slotted portion of the monitoring well casing must be designed to prevent migration of natural soils or filter pack into the well and to allow entry of regulated substance on the water table into the well under both high and low groundwater conditions;

(4) Monitoring wells shall be sealed from the ground surface to the top of the filter pack;

(5) Monitoring wells or devices intercept the excavation zone or are as close to it as is technically feasible;

(6) The continuous monitoring devices or manual methods used can detect the presence of at least 1/8 of an inch of free product on top of the groundwater in the monitoring wells;

(7) Within and immediately below the UST system excavation zone, the site is assessed to ensure compliance with the requirements in 135.5(4)*"f"*(1) to (5) and to establish the number and positioning of monitoring wells or devices that will detect releases from any portion of the tank that routinely contains product; and

(8) Monitoring wells are clearly marked and secured to avoid unauthorized access and tampering.

g. *Interstitial monitoring.* Interstitial monitoring between the UST system and a secondary barrier immediately around or beneath it may be used, but only if the system is designed, constructed and installed to detect a leak from any portion of the tank that routinely contains product and also meets one of the following requirements:

(1) For secondary containment systems, the sampling or testing method must be able to detect a release through the inner wall in any portion of the tank that routinely contains product:

1. Continuously, by means of an automatic leak sensing device that signals to the operator the presence of any regulated substance in the interstitial space; or

2. Monthly, by means of a procedure capable of detecting the presence of any regulated substance in the interstitial space.

3. The interstitial space shall be maintained and kept free of liquid, debris or anything that could interfere with leak detection capabilities.

NOTE: The provisions outlined in the Steel Tank Institute's "Standard for Dual Wall Underground Storage Tanks" may be used as guidance for aspects of the design and construction of underground steel double-walled tanks.

(2) For UST systems with a secondary barrier within the excavation zone, the sampling or testing method used can detect a release between the UST system and the secondary barrier:

1. The secondary barrier around or beneath the UST system consists of artificially constructed material that is sufficiently thick and impermeable (at least 10^{-6} cm/sec for the regulated substance stored) to direct a release to the monitoring point and permit its detection;

2. The barrier is compatible with the regulated substance stored so that a release from the UST system will not cause a deterioration of the barrier allowing a release to pass through undetected;

3. For cathodically protected tanks, the secondary barrier must be installed so that it does not interfere with the proper operation of the cathodic protection system;

4. The groundwater, soil moisture, or rainfall will not render the testing or sampling method used inoperative so that a release could go undetected for more than 30 days;

5. The site is assessed to ensure that the secondary barrier is always above the groundwater and not in a 25-year flood plain, unless the barrier and monitoring designs are for use under such conditions; and

6. Monitoring wells are clearly marked and secured to avoid unauthorized access and tampering.

(3) For tanks with an internally fitted liner, an automated device can detect a release between the inner wall of the tank and the liner, and the liner is compatible with the substance stored.

h. Other methods. Any other type of release detection method, or combination of methods, can be used if:

(1) It can detect a 0.2 gallon-per-hour leak rate or a release of 150 gallons within a month with a probability of detection of 0.95 and a probability of false alarm of 0.05; or

(2) The department may approve another method if the owner and operator can demonstrate that the method can detect a release as effectively as any of the methods allowed in paragraphs *"c"* to *"h."* In comparing methods, the department shall consider the size of release that the method can detect and the frequency and reliability with which it can be detected. If the method is approved, the owner and operator must comply with any conditions imposed by the department on its use to ensure the protection of human health and the environment.

135.5(5) *Methods of release detection for piping.* Each method of release detection for piping used to meet the requirements of 135.5(2) must be conducted in accordance with the following:

a. Automatic line leak detectors. Methods which alert the operator to the presence of a leak by restricting or shutting off the flow of regulated substances through piping or triggering an audible or visual alarm may be used only if they detect leaks of 3 gallons per hour at 10 pounds per square inch line pressure within one hour. An annual test of the operation of the leak detector must be conducted in accordance with the manufacturer's requirements.

b. Line tightness testing. A periodic test of piping may be conducted only if it can detect a 0.1 gallon-per-hour leak rate at one and one-half times the operating pressure.

c. Applicable tank methods. Any of the methods in 135.5(4)*"e"* through *"h"* may be used if they are designed to detect a release from any portion of the underground piping that routinely contains regulated substances.

d. Interstitial monitoring of secondary containment. Interstitial monitoring may be used for any piping with secondary containment designed for and capable of interstitial monitoring.

(1) Leak detection shall be conducted:

1. Continously, by means of an automatic leak sensing device that signals to the operator the presence of any regulated substance in the interstitial space or containment sump; or

2. Monthly, by means of a procedure capable of detecting the presence of any regulated substance in the interstitial space or containment sump, such as visual inspection.

(2) The interstitial space or sump shall be maintained and kept free of water, debris or anything that could interfere with leak detection capabilities.

(3) At least every two years, any sump shall be visually inspected for integrity of sides and floor and tightness of piping penetration seals. Any automatic sensing device shall be tested for proper function.

135.5(6) *Release detection record keeping.* All UST system owners and operators must maintain records in accordance with 135.4(5) demonstrating compliance with all applicable requirements of this rule. These records must include the following:

a. All written performance claims pertaining to any release detection system used, and the manner in which these claims have been justified or tested by the equipment manufacturer or installer, must be maintained for five years, or for another reasonable period of time determined by the department, from the date of installation;

b. The results of any sampling, testing, or monitoring must be maintained for at least one year, or for another reasonable period of time determined by the department, except that the results of tank tightness testing conducted in accordance with 135.5(4)*"c"* must be retained until the next test is conducted; and

c. Written documentation of all calibration, maintenance, and repair of release detection equipment permanently located on-site must be maintained for at least one year after the servicing work is completed, or for another reasonable time period determined by the department. Any schedules of required calibration and maintenance provided by the release detection equipment manufacturer must be retained for five years from the date of installation.

[**ARC 8469B**, IAB 1/13/10, effective 2/17/10 (See Delay note at end of chapter)]

567—135.6(455B) Release reporting, investigation, and confirmation.

135.6(1) *Reporting of suspected releases.* Owners and operators of UST systems must report to the department within 24 hours, or within 6 hours in accordance with 567—Chapter 131 if a hazardous condition exists as defined in 567—131.1(455B), or another reasonable time period specified by the department, and follow the procedures in 135.8(1) for any of the following conditions:

a. The discovery by owners and operators or others of released regulated substances at the UST site or in the surrounding area (such as the presence of free product or vapors in soils, basements, sewer and utility lines, and nearby surface water);

b. Unusual operating conditions observed by owners and operators (such as the erratic behavior of product dispensing equipment, the sudden loss of product from the UST system, or an unexplained presence of water in the tank), unless system equipment is found to be defective but not leaking, and is immediately repaired or replaced; and

c. Monitoring results from a release detection method required under 135.5(2) and 135.5(3) that indicate a release may have occurred unless:

(1) The monitoring device is found to be defective, and is immediately repaired, recalibrated or replaced, and additional monitoring does not confirm the initial result; or

(2) In the case of inventory control, a second month of data does not confirm the initial result.

135.6(2) *Investigation due to off-site impacts.* When required by the department, owners and operators of UST systems must follow the procedures in 135.6(3) to determine if the UST system is the source of off-site impacts. These impacts include the discovery of regulated substances (such as the presence of free product or vapors in soils, basements, sewer and utility lines, and nearby surface and drinking waters) that has been observed by the department or brought to its attention by another party.

135.6(3) *Release investigation and confirmation steps.* Owners and operators must immediately investigate and confirm all suspected releases of regulated substances requiring reporting under 135.6(1)

within seven days, or another reasonable time period specified by the department, using either the following steps or another procedure approved by the department:

a. System test. Owners and operators must conduct tests (according to the requirements for tightness testing in 135.5(4)*"c"* and 135.5(5)*"b"*) that determine whether a leak exists in that portion of the tank that routinely contains product, or the attached delivery piping or both.

(1) Owners and operators must repair, replace or upgrade the UST system and begin corrective action in accordance with rule 135.9(455B) if the test results for the system, tank, or delivery piping indicate a leak exists.

(2) Further investigation is not required if the test results for the system, tank, and delivery piping do not indicate a leak exists and if environmental contamination is not the basis for suspecting a release.

(3) Owners and operators must conduct a site check as described in paragraph *"b"* of this subrule if the test results for the system, tank, and delivery piping do not indicate a leak exists but environmental contamination is the basis for suspecting a release.

b. Site check. A certified groundwater professional must conduct a site check in accordance with the tank closure in place procedures as provided in 135.15(3) or they may conduct a Tier 1 assessment in accordance with subrule 135.9(3). Under either procedure, the certified groundwater professional must follow the policies and procedures applicable to sites where bedrock is encountered before groundwater as provided in 135.8(5) to avoid creating a preferential pathway for soil or groundwater contamination to reach a bedrock aquifer. The certified groundwater professional must measure for the presence of a release where contamination is most likely to be present at the UST site. In selecting sample types, sample locations, and measurement methods, the certified groundwater professional must consider the nature of the stored substance, the type of initial alarm or cause for suspicion, the type of backfill, the depth of groundwater, and other factors appropriate for identifying the presence and source of the release.

(1) If the test results of the site check indicate action levels in 135.14(455B) have been exceeded, owners and operators must begin corrective action in accordance with rules 135.7(455B) to 135.12(455B).

(2) If the test results for the excavation zone or the UST site do not indicate a release has occurred, further investigation is not required.

135.6(4) *Reporting and cleanup of spills and overfills.*

a. *Reportable releases.* Owners and operators of UST systems must contain and immediately clean up a spill, overfill or any aboveground release, and report to the department within 24 hours, or within 6 hours in accordance with 567—Chapter 131 if a hazardous condition exists as defined in rule 567—131.1(455B) and begin corrective action in accordance with rules 135.7(455B) to 135.12(455B) in the following cases:

(1) Spill, overfill or any aboveground release of petroleum that results in a release to the environment that exceeds 25 gallons, causes a sheen on nearby surface water, impacts adjacent property, or contaminates groundwater; and

(2) Spill, overfill or any aboveground release of a hazardous substance that results in a release to the environment that equals or exceeds its reportable quantity under CERCLA (40 CFR 302) as of September 13, 1988.

b. *Nonreportable releases.* Owners and operators of UST systems must contain and immediately clean up a spill, overfill or any aboveground release of petroleum that is less than 25 gallons and a spill, overfill or any aboveground release of a hazardous substance that is less than the reportable quantity. If cleanup cannot be accomplished within 24 hours, owners and operators must immediately notify the department.

NOTE: Any spill or overfill that results in a hazardous condition as defined in rule 567—131.1(455B) must be reported within 6 hours. This includes the transporter of the product. A release of a hazardous substance equal to or in excess of its reportable quantity must also be reported immediately (rather than within 24 hours) to the National Response Center under Sections 102 and 103 of the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 and to appropriate state and local authorities under Title III of the Superfund Amendments and Reauthorization Act of 1986.

567—135.7(455B) Release response and corrective action for UST systems containing petroleum or hazardous substances.

135.7(1) *General.* Owners and operators of petroleum or hazardous substance UST systems must, in response to a confirmed release from the UST system, comply with the requirements of this rule except for USTs excluded under 135.1(3)*"b"* and UST systems subject to RCRA Subtitle C corrective action requirements under Section 3004(u) of the Resource Conservation and Recovery Act, as amended.

135.7(2) *Initial response.* Upon confirmation of a release in accordance with 135.6(3) or after a release from the UST system is identified in any other manner, owners and operators must perform the following initial response actions within 24 hours of a release or within another reasonable period of time specified by the department:

a. Report the release to the department (e.g., by telephone or electronic mail);

b. Take immediate action to prevent any further release of the regulated substance into the environment; and

c. Identify and mitigate fire, explosion, and vapor hazards.

135.7(3) *Initial abatement measures and site check.*

a. Unless directed to do otherwise by the department, owners and operators must perform the following abatement measures:

(1) Remove as much of the regulated substance from the UST system as is necessary to prevent further release to the environment;

(2) Visually inspect any aboveground releases or exposed below-ground releases and prevent further migration of the released substance into surrounding soils and groundwater;

(3) Continue to monitor and mitigate any additional fire and safety hazards posed by vapors or free product that have migrated from the UST excavation zone and entered into subsurface structures (such as sewers or basements);

(4) Remedy hazards posed by contaminated soils that are excavated or exposed as a result of release confirmation, site investigation, abatement, or corrective action activities. If these remedies include treatment or disposal of soils, the owner and operator must comply with applicable state and local requirements;

(5) Rescinded IAB 7/17/96, effective 8/15/96.

(6) Investigate to determine the possible presence of free product, and begin free product removal as soon as practicable and in accordance with 135.7(5).

b. Within 20 days after release confirmation, or within another reasonable period of time determined by the department, owners and operators must submit a report to the department summarizing the initial abatement steps taken under paragraph *"a"* and any resulting information or data.

135.7(4) *Initial site characterization.* Rescinded IAB 7/17/96, effective 8/15/96.

135.7(5) *Free product assessment and removal.* At sites where investigations under 135.7(3)*"a"*(6) indicate 0.01 ft. or more of free product, owners and operators must immediately initiate a free product recovery assessment and submit a report in accordance with paragraph *"d"* and initiate interim free product removal while continuing, as necessary, any actions initiated under 135.7(2) to 135.7(4), or preparing for actions required under 135.8(455B) to 135.12(455B). Owners and operators must immediately begin interim free product removal by bailing or by installation and maintenance of passive skimming equipment until an alternative removal method is required by or approved by the department. A certified groundwater professional must initially determine the frequency of bailing and proper installation and maintenance of the skimming equipment based on a determination of the recharge rate of the free product. The department may approve implementation of this interim removal process by persons not certified as groundwater professionals. For approval a certified groundwater professional must submit (1) sufficient documentation establishing that the bailing or skimming system has been adequately designed and tested, and (2) a written plan for regular maintenance, reporting and supervision by a certified groundwater professional. Interim free product recovery reports must be submitted to the department on a monthly basis and on forms provided by the department. In meeting the requirements of this subrule, owners and operators must:

a. Conduct free product removal at a frequency determined by the recharge rate of the product and in a manner that minimizes the spread of contamination into previously uncontaminated zones by using recovery and disposal techniques appropriate to the hydrogeologic conditions at the site, and that properly treats, discharges or disposes of recovery by-products in compliance with applicable local, state and federal regulations. Unless approved by the department, free product assessment and recovery activities must be conducted by a certified groundwater professional. Owners and operators must report the results of free product removal activities on forms designated by the department;

b. Use abatement of free product migration as a minimum objective for the design of the free product removal system. Free product recovery systems must be designed to remove free product to the maximum extent practicable;

c. Handle any flammable products in a safe and competent manner to prevent fires or explosions; and

d. Free product recovery assessment and report. Unless directed to do otherwise by the department, prepare and submit to the department, within 45 days after confirming a release, a free product recovery assessment report and a proposal for subsequent free product removal activities. The free product recovery assessment report and removal proposal must contain at least the following information:

(1) The name of the person(s) responsible for implementing the free product removal measures;

(2) The estimated quantity, type and thickness of free product observed or measured in monitoring wells, boreholes, and excavations, the recharge rate in all affected monitoring wells and a detailed description of the procedures used to determine the recharge rate;

(3) A detailed justification for the free product removal technology proposed for the site. Base the justification narrative on professional judgment considering the characteristics of the free product plume (i.e., estimated volume, type of product, thickness, extent), an assessment of cost effectiveness based on recovery costs compared to alternative methods, site hydrology and geology, when the release event occurred, testing conducted to verify design assumptions and the potential for petroleum vapors or explosive conditions to occur in enclosed spaces. Proposals for removal systems other than hand bailing or passive skimming systems must be completed and submitted on a format consistent with the department's corrective action design report.

(4) A schematic and narrative description of the free product recovery system used;

(5) Whether any discharge will take place on site or off site during the recovery operation and where this discharge will be located;

(6) A schematic and narrative description of the treatment system, and the effluent quality expected from any discharge;

(7) The steps that have been or are being taken to obtain necessary permits for any discharge;

(8) The disposition of the recovered free product;

(9) Free product plume definition and map. The extent of free product in groundwater must be assessed. The number and location of wells and separation distance between the wells used to define the free product plume must be based on the receptors present and the site hydrology and geology. A minimum of five monitoring wells are required to construct the plume map. If the groundwater professional can adequately define the plume using other technology as specified in department guidance, fewer than five wells may be used. The boundary of the plume may be determined by linear interpolation consistent with the methods described in 135.10(2)*"f"*(3); and

(10) The estimated volume of free product present, how the volume was calculated, recoverable volume and estimated recovery time.

e. The department will review the free product assessment report; and, if approved, the owner or operator must implement the installation of the approved recovery system within 60 days or other time period approved by the department.

f. Termination of free product recovery activities. Owners and operators may propose to the department to terminate free product recovery activities when significant amounts of hydrocarbons are not being recovered. The department will consider proposals to terminate free product recovery when the amount of product collected from a monitoring well is equal to or less than 0.1 gallon each month

for a year unless another plan is approved by the department. When free product activities have been terminated, owners and operators must inspect the monitoring wells monthly for at least a year. The department must be notified and free product recovery activities reinitiated if during the monthly well inspections it is determined the product thickness in a monitoring well exceeds 0.02 foot. The monthly well inspection records must be kept available for review by the department.

g. Unless directed to do otherwise by the department, prepare and submit to the department within 180 days after confirming a release, a Tier 2 site cleanup report.

567—135.8(455B) Risk-based corrective action.

135.8(1) *General.* The objective of risk-based corrective action is to effectively evaluate the risks posed by contamination to human health, safety and the environment using a progressively more site-specific, three-tiered approach to site assessment and data analysis. Based on the tiered assessment, a corrective action response is determined sufficient to remove or minimize risks to acceptable levels. Corrective action response includes a broad range of options including reduction of contaminant concentrations through active or passive methods, monitoring of contamination, use of technological controls or institutional controls.

a. *Tier 1.* The purpose of a Tier 1 assessment is to identify sites which do not pose an unreasonable risk to public health and safety or the environment based on limited site data. The objective is to determine maximum concentrations of chemicals of concern at the source of a release(s) in soil and groundwater. The Tier 1 assessment assumes worst-case scenarios in which actual or potential receptors could be exposed to these chemicals at maximum concentrations through certain soil and groundwater pathways. The point of exposure is assumed to be the source showing maximum concentrations. Risk-based screening levels (Tier 1 levels) contained in the Tier 1 Look-Up Table have been derived from models which use conservative assumptions to predict exposure to actual and potential receptors. (These models and default assumptions are contained in Appendix A.) If Tier 1 levels are not exceeded for a pathway, that pathway may not require further assessment. If the maximum concentrations exceed a Tier 1 level, the options are to conduct a more extensive Tier 2 assessment, apply an institutional control, or in limited circumstances excavate contaminated soil to below Tier 1 levels. If all pathways clear the Tier 1 levels, it is possible for the site to obtain a no action required classification.

b. *Tier 2.* The purpose of a Tier 2 assessment is to use site-specific data to assess the risk from chemicals of concern to existing receptors and potential receptors using fate and transport models in accordance with 135.10(455B). See 135.10(2)*"a."*

c. *Tier 3.* Where site conditions may not be adequately addressed by Tier 2 procedures, a Tier 3 assessment may provide more accurate risk assessment. The purpose of Tier 3 is to identify reasonable exposure levels of chemicals of concern and to assess the risk of exposure to existing and potential receptors based on additional site assessment information, probabilistic evaluations, or sophisticated chemical fate and transport models in accordance with 135.11(455B).

d. *Notification.* Whenever the department requires a tiered site assessment and a public water supply well is within 2,500 feet of a leaking underground storage tank site, the department will notify the public water supply operator.

e. *Pathway reevaluation.* Prior to issuance of a no further action certificate in accordance with 135.12(10) and Iowa Code section 455B.474(1)*"h"*(3), if it is determined that the conditions for an individual pathway that has been classified as "no action required" no longer exist, or the site presents an unreasonable risk to a public water supply well and the model used to obtain the pathway clearance underpredicts the actual contaminant plume, the individual pathway shall be further assessed consistent with the risk-based corrective action provisions in rules 567—135.8(455B) through 567—135.12(455B).

135.8(2) *Certified groundwater professional.* All assessment, corrective action, data analysis and report development required under rules 135.6(455B) to 135.12(455B) must be conducted by or under the supervision of a certified groundwater professional in accordance with these rules and department guidance as specified.

135.8(3) *Chemicals of concern.* Soil and groundwater samples from releases of petroleum regulated substances must always be analyzed for the presence of benzene, ethylbenzene, toluene, and xylenes. In

addition, if the release is suspected to include any petroleum regulated substance other than gasoline or gasoline blends, or if the source of the release is unknown, the samples must be tested for the presence of Total Extractable Hydrocarbons (TEH). Appendices A and B and department Tier 2 guidance define a method for converting TEH values to a default concentration for naphthalene, benzo(a)pyrene, benz(a)anthracene and chrysene and conversion back to a representative TEH value. These default values must be used in order to apply Tier 2 modeling to these constituents in the absence of accurate laboratory analysis. At Tier 2 and Tier 3, owners and operators have the option of analyzing for these specific constituents and applying them to the specific target levels in Appendices A and B instead of using the TEH conversion method if an approved laboratory and laboratory technique are used.

135.8(4) *Boring depth for sampling.* When drilling for the placement of groundwater monitoring wells, if groundwater is encountered, drilling must continue to the maximum of 10 feet below the first encountered groundwater or to the bottom of soil contamination as estimated by field screening. If groundwater is not encountered, drilling must continue to the deeper of 10 feet below the soil contamination as estimated by field screening or 75 feet from the ground surface.

135.8(5) *Bedrock aquifer assessment.* Prior to conducting any groundwater drilling, a groundwater professional must determine if there is a potential to encounter bedrock before groundwater. These potential areas include (1) areas where karst features or outcrops exist in the vicinity and (2) areas with bedrock less than 50 feet from the surface as illustrated in Tier 1 and Tier 2 guidance. The purpose of this determination is to prevent drilling through contaminated subsurface areas thereby creating a preferential pathway to a bedrock aquifer. If the first encountered groundwater is above bedrock but near the bedrock surface or fluctuates above and below bedrock, the groundwater professional should evaluate the subsurface geology and aquifer characteristics to determine the potential for creating a preferential pathway. If it is determined that the aquifer acts like a nongranular aquifer as provided in 135.10(3)*"a"* or bedrock is encountered before groundwater, the groundwater professional must conduct a Tier 2 assessment for all pathways under 135.10(455B), including the specified bedrock procedures under 135.10(3).

If the first encountered groundwater is above bedrock with sufficient separation and aquifer characteristics to establish that it acts as a granular aquifer, site assessment may proceed under the site check procedure in 135.6(455B), the Tier 1 procedure in 135.9(455B) or the Tier 2 procedure in 135.10(455B) as would be customary regardless of the bedrock designation. However, even under this condition, drilling through bedrock should be avoided in contaminated areas.

[**ARC 7621B**, IAB 3/11/09, effective 4/15/09]

567—135.9(455B) Tier 1 site assessment policy and procedure.

135.9(1) *General.* The main objective of a Tier 1 site assessment is to reasonably determine the highest concentrations of chemicals of concern which would be associated with any suspected or confirmed release and an accurate identification of applicable receptors. In addition, the placement and depth of borings and the construction of monitoring wells must be sufficient to determine the sources of all releases, the vertical extent of contamination, an accurate description of site stratigraphy, and a reliable determination of groundwater flow direction.

a. *Pathway assessment.* The pathways to be evaluated at Tier 1 are the groundwater ingestion pathway, soil leaching to groundwater pathway, groundwater vapor to enclosed space pathway, soil vapor to enclosed space pathway, soil to plastic water line pathway, groundwater to plastic water line pathway and the surface water pathway. Assessment requires a determination of whether a pathway is complete, an evaluation of actual and potential receptors, a determination of whether conditions are satisfied for obtaining no further action clearance for individual pathways, or for obtaining a complete site classification of "no action required." A pathway is considered complete if a chemical of concern has a route which could be followed to reach an actual or potential receptor.

b. *Pathway clearance.* If field data for an individual pathway does not exceed the applicable Tier 1 levels or if a pathway is incomplete, no further action is required to evaluate the pathway unless otherwise specified in these rules. If the field data for a pathway exceeds the applicable Tier 1 level(s) in the "Iowa Tier 1 Look-up Table," the response is to conduct further assessment under Tier 2 or Tier 3 unless an

effective institutional control is approved. In limited circumstances excavation of contaminated soils may be used as an option to obtain pathway clearance. If further site assessment indicates site data exceeds an applicable Tier 1 level(s) for a previously cleared pathway or the conditions justifying a determination of pathway incompleteness change, that pathway must be reevaluated as part of a Tier 2 or Tier 3 assessment.

c. Chemical group clearance. If field data for all chemicals of concern within a designated group of chemicals is below the Tier 1 levels, no further action is required as to the group of chemicals unless otherwise specified in these rules. Group one consists of benzene, ethylbenzene, toluene, and xylenes (BTEX). Group two consists of naphthalene, benzo(a)pyrene, benz(a)anthracene and chrysene; TEH default values are incorporated into the Iowa Tier 1 Look-Up Table and Appendix A for group two chemicals.

d. Site classification. A site can be classified as no action required only after all pathways have met the conditions for pathway clearance as provided in this rule.

e. Groundwater sampling procedure. Groundwater sampling and field screening must be conducted in accordance with department Tier 1 guidance. A minimum of three properly constructed groundwater monitoring wells must be installed, subject to the limitations on maximum drilling depths, for the purpose of identifying maximum concentrations of groundwater contamination, suspected sources of releases, and groundwater flow direction.

(1) Field screening must be used to locate suspected releases and to determine locations with the greatest concentrations of contamination. Field screening is required as per department guidance at each former and current tank basin, each former and current pump island, along the piping, and at any other areas of actual or suspected releases. In placing monitoring wells, the following must be considered: field screening data, available current and historical information regarding the releases, tank and piping layout, site conditions, and drilling data available from sites in the vicinity. At least one well must be placed at each suspected source of release which shall include at a minimum: the pump island with the greatest field screening level, each current and former underground storage tank basin, and if field screening shows greater levels than at the pump islands or tank basins, at other suspected sources of releases. As a general rule, wells should be installed outside of the tank basin through native soils but as close to the tank basin as feasible. A well must be installed in a presumed downgradient direction and within 30 feet of the sample with the greatest field screening level. Three of the wells must be placed in a triangular arrangement to determine groundwater flow direction.

(2) Where the circumstances which prompt a Tier 1 assessment identify a discrete source and cause of a release, and the groundwater professional is able to rule out other suspected sources or contributing sources such as pump islands, piping runs and tank basins, the application of field screening and groundwater well placement may be limited to the known source.

f. Soil sampling procedure. The objective of soil sampling is to identify the maximum concentrations of soil contamination in the vadose and saturated zones and to identify sources of releases. The same principles stated above apply to soil sampling. Soil samples must be taken from borings with the greatest field screening levels even if the boring will not be converted to a monitoring well. At a minimum, soil and groundwater samples must be collected for analysis from all borings which are converted to monitoring wells.

Iowa Tier 1 Look-Up Table

Media	Exposure Pathway	Receptor	Group 1				Group 2: TEH	
			Benzene	Toluene	Ethylbenzene	Xylenes	Diesel*	Waste Oil
Groundwater (ug/L)	Groundwater Ingestion	actual	5	1,000	700	10,000	1,200	400
		potential	290	7,300	3,700	73,000	75,000	40,000
	Groundwater Vapor to Enclosed Space	all	1,540	20,190	46,000	NA	2,200,000	NA
	Groundwater to Plastic Water Line	all	290	7,300	3,700	73,000	75,000	40,000
	Surface Water	all	290	1,000	3,700	73,000	75,000	40,000
Soil (mg/kg)	Soil Leaching to Groundwater	all	0.54	42	15	NA	3,800	NA
	Soil Vapor to Enclosed Space	all	1.16	48	79	NA	47,500	NA
	Soil to Plastic Water Line	all	1.8	120	43	NA	10,500	NA

NA: Not applicable. There are no limits for the chemical for the pathway, because for groundwater pathways the concentration for the designated risk would be greater than the solubility of the pure chemical in water, and for soil pathways the concentration for the designated risk would be greater than the soil concentration if pure chemical were present in the soil.

TEH: Total Extractable Hydrocarbons. The TEH value is based on risks from naphthalene, benzo(a)pyrene, benz(a)anthracene, and chrysene. Refer to Appendix B for further details.

Diesel*. Standards in the Diesel column apply to all low volatile petroleum hydrocarbons except waste oil.

135.9(2) *Conditions requiring Tier 1 site assessment.* Unless owners and operators choose to conduct a Tier 2 assessment, the presence of bedrock requires a Tier 2 assessment as provided in 135.8(5), or these rules otherwise require preparation of a Tier 2 site assessment, a Tier 1 site assessment must be completed in response to release confirmation as provided in rule 135.6(455B), or tank closure investigation under 135.15(455B), or other reliable laboratory analysis which confirms the presence of contamination above the action levels in 135.14(455B).

135.9(3) *Tier 1 assessment report.* Unless directed to do otherwise by the department or the owners or operators choose to prepare a Tier 2 site cleanup report, owners and operators must assemble information about the site and the nature of the release in accordance with the department Tier 1 guidance, including information gained while confirming the release under 135.6(455B), tank closure under 135.15(455B) or completing the initial abatement measures in 135.7(1) and 135.7(2). This information must include, but is not necessarily limited to, the following:

a. Data on the nature and estimated quantity of release.

b. Results of any release investigation and confirmation actions required by subrule 135.6(3).

c. Results of the free product investigations required under 135.7(3)*"a"*(6), to be used by owners and operators to determine whether free product must be recovered under 135.7(5).

d. Chronology of property ownership and underground storage tank ownership, identification of the person(s) having control of, or having responsibility for the daily operation of the underground storage tanks and the operational history of the underground storage tank system. The operational history shall include, but is not limited to, a description of or suspected known subsurface or aboveground releases, past remediation or other corrective action, type of petroleum product stored, recent tank and piping tightness test results, any underground storage tank system repairs, upgrades or replacements and the underground storage tank and piping leak detection method being utilized. The operational history shall confirm that current release detection methods and record keeping comply with the requirements of 135.5(455B), that all release detection records have been reviewed and report any evidence that a release detection standard has been exceeded as provided in 135.5(4) and 135.5(5).

e. Appropriate diagrams of the site and the underground storage tank system and surrounding land use, identifying site boundaries and existing structures and uses such as residential properties, schools, hospitals, child care facilities and a general description of relevant land use restrictions and known future land use.

f. Current proof of financial responsibility as required by 136.19(455B) and 136.20(455B) and the status of coverage for corrective action under any applicable financial assurance mechanism or other financial assistance program.

g. A receptor survey including but not limited to the following: existing buildings, enclosed spaces (basements, crawl spaces, utility vaults, etc.), conduits (gravity drain lines, sanitary and storm sewer mains and service lines), plastic water lines and other utilities within 500 feet of the source. For conduits and enclosed spaces there must be a description of construction material, conduit backfill material, slope of conduit and trenches (include flow direction of sewers), burial depth of utilities or subsurface enclosed spaces, and the relationship to groundwater elevations.

h. An explosive vapor survey of enclosed spaces where there may be the potential for buildup of explosive vapors. The groundwater professional must provide a specific justification for not conducting an explosive vapor survey.

i. A survey of all surface water bodies within 200 feet of the source.

j. A survey of all active, abandoned and plugged groundwater wells within 1,000 feet of the source with a description of construction and present or future use.

k. Accurate and legible site maps showing the location of all groundwater monitoring wells, soil borings, field screening locations and screening values, and monitoring well and soil boring construction logs.

l. A tabulation of all laboratory analytical results for chemicals of concern and copies of the laboratory analytical reports.

m. Results of hydraulic conductivity testing and description of the procedures utilized.

n. A Tier 1 site assessment in accordance with the department's Tier 1 guidance. The Tier 1 report shall be submitted on forms and in a format prescribed by this guidance. The Tier 1 data analysis shall be performed by using computer software developed by the department or by using the computer software's hard-copy version.

135.9(4) *Groundwater ingestion pathway assessment.* The groundwater ingestion pathway addresses the potential for human ingestion of petroleum-regulated substances from existing groundwater wells or potential drinking water wells.

a. *Pathway completeness.* This pathway is considered complete if: (1) there is a drinking or non-drinking water well within 1,000 feet of the source(s) exhibiting the maximum concentrations of the chemicals of concern; or (2) the first encountered groundwater is a protected groundwater source.

b. *Receptor evaluation.* A drinking or non-drinking water well within 1,000 feet of the source(s) is an actual receptor. The Tier 1 levels for actual receptors apply to drinking water wells and the Tier 1 levels for potential receptors apply to non-drinking water wells. Potential receptor points of exposure exist if the first encountered groundwater is a protected groundwater source but no actual receptors presently exist within 1,000 feet of the source.

c. *Pathway clearance.* If the pathway is incomplete, no further action is required for this pathway. If the Tier 1 level for actual or potential receptors is not exceeded, no further action is required for this pathway. Groundwater wells that are actual or potential receptors may be plugged in accordance with 567—Chapter 39 and 567—Chapter 49 and may result in no further action clearance if the groundwater is not a protected groundwater source and the pathway is thereby incomplete.

d. *Corrective action response.* If maximum concentrations exceed the applicable Tier 1 levels for either actual or potential receptors, a Tier 2 assessment must be conducted unless effective institutional controls are implemented as provided below. Technological controls are not acceptable at Tier 1 for this pathway. Abandonment and plugging of drinking and non-drinking water wells in accordance with 567—Chapters 39 and 49 is an acceptable corrective action response.

e. *Use of institutional controls.* To apply an effective institutional control, if drinking or non-drinking water wells are present within 1,000 feet of the source, and the applicable Tier 1 level is

exceeded, the well(s) for which there is an exceedence must be properly plugged. If the groundwater is a protected groundwater source and the maximum concentrations do not exceed the Tier 1 level for potential receptors but do exceed the Tier 1 level for actual receptors, the owner or operator must provide notification of site conditions on a department form to the department water supply section, or if a county has delegated authority, then the designated county authority responsible for issuing private water supply construction permits or regulating non-public water well construction as provided in 567—Chapters 38 and 49.

If the groundwater is a protected source and the maximum concentrations exceed the Tier 1 level for potential receptors, the owner or operator must (1) implement an institutional control prohibiting the use of the groundwater for installation of drinking and non-drinking water wells within 1,000 feet of the source; and (2) provide notification as provided above. If an effective institutional control is not feasible, a Tier 2 assessment must be performed for this pathway in accordance with rule 135.10(455B).

f. *Receptor evaluation for public water supply wells.* Rescinded IAB 3/11/09, effective 4/15/09.

135.9(5) *Soil leaching to groundwater pathway assessment.* This pathway addresses the potential for soil contamination to leach to groundwater creating a risk of human exposure through the groundwater ingestion pathway.

a. *Pathway completeness.* If the groundwater ingestion pathway is complete, the soil leaching to groundwater pathway is considered complete.

b. *Receptor evaluation.* There is a single receptor type for this pathway and one applicable Tier 1 level.

c. *Pathway clearance.* If the pathway is incomplete or the pathway is complete and the maximum concentrations of chemicals of concern do not exceed the Tier 1 levels, no further action is required for assessment of this pathway.

d. *Corrective action response.* If the Tier 1 levels are exceeded for this pathway, a Tier 2 assessment must be conducted or alternatively, institutional controls or soil excavation may be undertaken in accordance with 135.9(7)*"h."*

e. *Use of institutional controls.* Institutional controls must satisfy the conditions applicable to the groundwater ingestion pathway as provided in 135.9(4)*"e."*

135.9(6) *Groundwater vapor to enclosed space pathway assessment.* This pathway addresses the potential for vapors from contaminated groundwater to migrate to enclosed spaces where humans could inhale chemicals of concern at unacceptable levels. This pathway assessment assumes the health-based Tier 1 levels will adequately protect against any associated short- and long-term explosive risks.

a. *Pathway completeness.* This pathway is always considered complete for purposes of Tier 1 and must be evaluated.

b. *Explosive vapor survey.* An explosive vapor survey must be conducted in accordance with procedures outlined in the department Tier 1 guidance. If potentially explosive levels are detected, the groundwater professional must notify the owner or operator with instructions to report the condition in accordance with 567—Chapter 131. The owner or operator must begin immediate response and abatement procedures in accordance with 135.7(455B) and 567—Chapter 133.

c. *Receptor evaluation.* For purposes of Tier 1, there is one receptor type for this pathway and the Tier 1 level applies regardless of the existence of actual or potential receptors.

d. *Pathway clearance.* No further action is required for this pathway, if the maximum groundwater concentrations do not exceed the Tier 1 levels for this pathway.

e. *Corrective action response.* If the maximum concentrations exceed the Tier 1 levels for this pathway, a Tier 2 assessment of this pathway must be conducted unless institutional controls are implemented. Technological controls are not acceptable at Tier 1 for this pathway.

f. *Use of institutional controls.* An institutional control must be effective to prohibit the placement of enclosed space receptors within 500 feet of the source.

135.9(7) *Soil vapor to enclosed space pathway assessment.* This pathway addresses the potential for vapors from contaminated soils to migrate to enclosed spaces where humans could inhale chemicals of concern at unacceptable levels. This pathway assessment assumes health-based screening levels at Tier 1 will adequately protect against short- and long-term explosive risks.

a. Pathway completeness. This pathway is always considered complete for purposes of Tier 1 and must be evaluated.

b. Explosive vapor survey. An explosive vapor survey must be conducted in accordance with procedures outlined in the department Tier 1 guidance. If potentially explosive levels are detected, the groundwater professional must notify the owner or operator with instructions to report the condition in accordance with 567—Chapter 131. The owner or operator must begin immediate response and abatement procedures in accordance with 135.7(455B) and 567—Chapter 133.

c. Receptor evaluation. For purposes of Tier 1, there is one receptor type for this pathway, and the Tier 1 level applies regardless of existing or potential receptors.

d. Pathway clearance. No further action is required for this pathway, if the maximum soil concentrations do not exceed the Tier 1 levels for this pathway. If the Tier 1 levels are exceeded, soil gas measurements may be taken in accordance with the Tier 2 guidance at the area(s) of maximum concentration. Subject to confirmation sampling, if the soil gas measurements do not exceed the target levels in 135.10(7)*"f,"* no further action is required for this pathway. If the Tier 1 level is not exceeded but the soil gas measurement exceeds the target level, further action is required for the pathway.

e. Soil gas samples. To establish that the soil gas measurement is representative of the highest expected levels, a groundwater professional must obtain two soil gas samples taken at least two weeks apart. One of the samples must be taken below the typical frostline depth during a seasonal period of lowest groundwater elevation.

f. Corrective action response. If the maximum concentrations exceed the Tier 1 levels and the soil gas measurements exceed target levels for this pathway, or if no soil gas measurement was taken, a Tier 2 assessment of this pathway must be conducted unless institutional controls are implemented or soil excavation is conducted as provided below. Technological controls are not acceptable at Tier 1 for this pathway.

g. Use of institutional controls. An institutional control must be effective to eliminate the placement of enclosed space receptors within 500 feet of the source.

h. Soil excavation. Excavation of contaminated soils for the purpose of removing soils contaminated above the Tier 1 levels is permissible as an alternative to conducting a Tier 2 assessment. Adequate field screening methods must be used to identify maximum concentrations during excavation. At a minimum, one soil sample must be taken for field screening every 100 square feet of the base and each sidewall. Soil samples must be taken for laboratory analysis at least every 400 square feet of the base and each sidewall of the excavated area to confirm that remaining concentrations are below Tier 1 levels. If the excavation is less than 400 square feet, a minimum of one sample must be analyzed for each sidewall and the base.

135.9(8) *Groundwater to plastic water line pathway assessment.* This pathway addresses the potential for creating a drinking water ingestion risk due to contact with plastic water lines and causing infusion to the drinking water.

a. Pathway completeness and receptor evaluation.

(1) Actual receptors. This pathway is considered complete for an actual receptor if there is an existing plastic water line within 200 feet of the source and the first encountered groundwater is less than 20 feet below ground surface.

(2) Potential receptors. This pathway is considered complete for a potential receptor if the first encountered groundwater is less than 20 feet below ground surface.

b. Pathway clearance. If the pathway is not complete, no further action is required for this pathway. If the pathway is complete and the maximum concentrations of all chemicals of concern do not exceed the Tier 1 levels for this pathway, no further action is required for this pathway.

c. Utility company notification. The utility company which supplies water service to the area must be notified of all actual and potential plastic water line impacts. Notification of potential plastic water line impacts may be postponed until completion of Tier 2 if a Tier 2 assessment is required.

d. Corrective action response.

(1) For actual receptors, if the Tier 1 levels are exceeded, all plastic water lines within 200 feet must be replaced with nonplastic lines or the plastic lines must be relocated beyond the 200-foot distance. A Tier 2 assessment must be conducted for this pathway if lines are not replaced or relocated.

(2) For potential receptors, upon utility company notification, no further action will be required for this pathway.

135.9(9) *Soil to plastic water line pathway assessment.* This pathway addresses the potential for creating a drinking water ingestion risk due to contact with plastic water lines and infusion into the drinking water.

a. Pathway completeness.

(1) Actual receptors. This pathway is considered complete for an actual receptor if a plastic water line exists within 200 feet of the source.

(2) Potential receptors. This pathway is always considered complete for potential receptors.

b. Pathway clearance. If the pathway is not complete for actual receptors, no further action is required for this pathway. If the pathway is complete for actual receptors and the maximum concentrations of all chemicals of concern do not exceed Tier 1 levels for this pathway, no further action is required. For potential receptors, upon utility company notification, no further action will be required for this pathway for potential receptors.

c. Utility company notification. The utility company which supplies water service to the area must be notified of all actual and potential plastic water line impacts. Notification of potential plastic water line impacts may be postponed until completion of Tier 2 if a Tier 2 assessment is required.

d. Corrective action response. For actual receptors, if the Tier 1 levels are exceeded for this pathway, the plastic water lines may be replaced with nonplastic lines or the plastic lines must be relocated to a distance beyond 200 feet of the source. Excavation of soils to below Tier 1 levels may be undertaken in accordance with 135.9(7)*"h."* If none of these options is implemented, a Tier 2 assessment must be conducted for this pathway.

135.9(10) *Surface water pathway assessment.* This pathway addresses the potential for contaminated groundwater to impact surface water bodies creating risks to human health and aquatic life.

a. Pathway completeness. This pathway is considered complete if a surface water body is present within 200 feet of the source. For purposes of Tier 1, surface water bodies include both general use segments and designated use segments as provided in 567—subrule 61.3(1).

b. Receptor evaluation. The Tier 1 levels for this pathway only apply to designated use segments of surface water bodies as provided in 567—subrules 61.3(1) and 61.3(5). The point of compliance is the source with the highest concentrations of chemicals of concern. General use segments of surface water bodies as provided in 567—paragraph 61.3(1)*"a"* are only subject to the visual inspection criteria.

c. Visual inspection requirements. A visual inspection of all surface water bodies within 200 feet of the source must be conducted to determine if there is evidence of a sheen on the water or there is evidence of petroleum residue along the bank. If a sheen or residue is evident or has been reported to be present, the groundwater professional must make a sufficient investigation to reasonably determine its source. If in the opinion of the groundwater professional, the sheen is not associated with the underground storage tank site, the professional must report and reasonably justify this opinion. If in the opinion of the groundwater professional the sheen is not a petroleum-regulated substance, a sample must be laboratory tested in accordance with 135.16(455B) to confirm it is not a petroleum-regulated substance.

d. Pathway clearance. If the pathway is not complete or it is complete and the maximum concentrations of all chemicals of concern at the point of compliance do not exceed the Tier 1 levels and there is no petroleum sheen or residue attributable to the site, no further action is required for assessment of this pathway.

e. Corrective action response. If a Tier 1 level is exceeded for any chemical of concern for a designated use segment within 200 feet of the source, or the groundwater professional determines the presence of a petroleum-regulated substance sheen or residue, a Tier 2 assessment of this pathway must be conducted.

135.9(11) *Tier 1 submission and review procedures.*

a. Within 90 calendar days of release confirmation or another reasonable period of time determined by the department, owners and operators must submit to the department a Tier 1 report in a format prescribed by the department and in accordance with these rules and the department Tier 1 guidance.

b. If the owner or operator elects to prepare a Tier 2 site cleanup report instead of a Tier 1 assessment, the department must be notified in writing prior to the expiration of the Tier 1 submission deadline. The Tier 2 site cleanup report must be submitted to the department in accordance with rule 135.10(455B) within 180 calendar days of release confirmation or another reasonable period of time determined by the department.

c. Tier 1 report completeness and accuracy. A Tier 1 report is considered to be complete if it contains all the information and data required by this rule and the department Tier 1 guidance. The report is accurate if the information and data is reasonably reliable based first on application of the standards in these rules and department guidance and second, generally accepted industry standards.

d. The certified groundwater professional shall include the following certification with the Tier 1 site assessment report:

I, _____, Groundwater Professional Certification No. _____, am familiar with all applicable requirements of Iowa Code section 455B.474 and all rules and procedures adopted thereunder including, but not limited to, 567—Chapter 135 and the Department of Natural Resources Tier 1 guidance. Based on my knowledge of those documents and information I have prepared and reviewed regarding this site, UST Registration No. _____, LUST No._____ I certify that this document is complete and accurate as provided in 567 IAC 135.9(11)*"c"* and meets the applicable requirements of the Tier 1 site assessment.

Signature:

Date:

e. Upon receipt of the Tier 1 report, the department may review it by reliance on the groundwater professional's certification and a summary review for completeness and accuracy or may undertake a more complete review to determine completeness and accuracy and compliance with department rules and guidance. If the Tier 1 report proposes to classify the site "no action required," the department may review the report as provided in 135.9(11)*"g."*

f. If a "no action required" site classification is not proposed, the department must within 60 days approve the Tier 1 report for purposes of completeness or disapprove of the report upon a finding of incompleteness, inaccuracy or noncompliance with these rules. If no decision is made within this time period, the report is deemed to be accepted for purposes of completeness. The department retains the authority to review the report at the time a no action required site classification is proposed.

g. No action required site classification review. The department will review each Tier 1 report which proposes to classify a site as "no action required" to determine whether the data and information are complete and accurate, the data and information comply with department rules and guidance and the site classification proposal is reasonably supported by the data and information.

135.9(12) *Tier 1 site classification and corrective action response.*

a. No action required site classification. At Tier 1, a site is only eligible for a "no action required" classification. To be classified as no action required, each pathway must meet the requirements for pathway clearance as specified in this rule. If the department determines a no action required site classification is appropriate, a no further action certificate will be issued as provided in 135.12(10).

b. Where an individual pathway or a chemical group meets the requirements for clearance but the site is not entitled to a no action required classification, only those pathways and chemical groups which do not meet the no further action requirements must be evaluated as part of a Tier 2 assessment as provided in rule 135.10(455B).

c. Compliance monitoring and confirmation sampling. Compliance monitoring is not an acceptable corrective action at Tier 1. Except for soil gas sampling under 135.9(7), confirmation sampling to verify a sample does not exceed a Tier 1 level is not required. However, the department retains the authority to require confirmation sampling from existing groundwater monitoring wells if a no action required classification is being proposed at Tier 1 and the department has a reasonable basis

to question the representative validity of the samples based on, for example, the seasonal bias of the sampling, evidence of multiple sources of releases, marginal groundwater monitoring well locations and analytical variability.

d. Expedited corrective action. Expedited corrective action is permissible in accordance with 135.12(11).

[**ARC 7621B**, IAB 3/11/09, effective 4/15/09]

567—135.10(455B) Tier 2 site assessment policy and procedure.

135.10(1) *General conditions.* A Tier 2 site assessment must be conducted and a site cleanup report submitted for all sites which have not obtained a no action required site classification and for all pathways and chemicals of concern groups that have not obtained no further action clearance as provided in 135.9(455B). If in the course of conducting a Tier 2 assessment, data indicates the conditions for pathway clearance under Tier 1 no longer exist, the pathway shall be further assessed under this rule. The Tier 2 assessment and report must be completed whenever free product is discovered as provided in 135.7(455B). If the owner or operator elects to complete the Tier 2 site assessment without doing a Tier 1 assessment, all the Tier 1 requirements as provided in 135.9(455B) must be met in addition to requirements under this rule.

a. Guidance. The Tier 2 site assessment shall be conducted in accordance with the department's "Tier 2 Site Assessment Guidance" and these rules. The site cleanup report shall be submitted on forms and in a format prescribed by this guidance. The Tier 2 data analysis shall be performed by using computer software developed by the department or by using the computer software's hard-copy version.

b. Classification. At Tier 2, individual pathways may be classified as high risk or low risk or no action required and separate classification criteria may apply to actual and potential receptors for any pathway. A single pathway may have multiple classifications based on actual or potential receptor evaluations. A pathway must meet both the criteria for actual and potential receptors for the pathway to obtain a classification of no action required. Sites may have multiple pathway classifications. For a site to obtain a no action required classification, all pathways must meet the individual pathway criteria for no action required classification.

c. Public right-of-way. As a general rule, public right-of-way will not be considered an area of potential receptor exposure except for potential sanitary sewer evaluation under the soil and groundwater vapor pathways, subrules 135.10(6) and 135.10(7).

135.10(2) *General Tier 2 assessment procedures.*

a. Objectives. The objective of a Tier 2 assessment is to collect site-specific data and with the use of Tier 2 modeling determine what actual or potential receptors could be impacted by chemicals of concern and what concentrations at the source are predicted to achieve protection of these receptors. Both Tier 1 and Tier 2 are based on achieving similar levels of protection of human health, safety and the environment.

b. Groundwater modeling. Tier 2 uses fate and transport models to predict the maximum distance groundwater contamination is expected to move and the distribution of concentrations of chemicals of concern within this area. The model is used for two basic purposes. One, it is used to predict at what levels of concentration contamination would be expected to impact actual and potential receptors. Two, it is used to determine a concentration at the source which if achieved, and after dispersion and degradation, would protect actual and potential receptors at the point of exposure. In predicting the transport of contaminants, the models assume the contaminant plume is at "steady state" such that concentrations throughout the plume have reached a maximum level and are steady or decreasing. The Tier 2 models are only designed to predict transport in a direct line between the source and downgradient to a receptor. In order to more reasonably define a modeled plume in all directions, paragraph *"i"* defines a method of decreasing modeled concentrations as a percentage of their distance in degrees from the downgradient direction.

c. Soil vapor models. The soil vapor models are vertical transport models and do not use modeling to predict soil contaminant transport horizontally to receptors.

d. Soil leaching to groundwater modeling. The soil leaching to groundwater model is a model that predicts the maximum concentrations of chemicals of concern that would be expected in groundwater due to vertical leaching from the area of maximum soil concentrations and then incorporates the groundwater transport models to predict contaminant transport through groundwater pathways.

e. Modeling default parameters. The Tier 2 model formulas and applicable parameters are designated in Appendix B and must be followed unless otherwise specified in these rules. Unless otherwise specified, target levels at a point of exposure may be the Tier 1 level(s) or may be determined using site-specific parameters. The target level at a point of exposure is calculated using the Tier 1 formulas in Appendix A and either site-specific measurements or the default values for those parameters identified as "optional" and "site-specific" in Appendix B.

f. Source width. The source width and source length are variables used in modeling and must be determined by the following criteria and as specified in the department's Tier 2 guidance. The following are not to be used as criteria for defining the extent of the contaminant plumes.

(1) Source width (equals S_w in models) for groundwater transport modeling. The sum of group one chemical (benzene, toluene, ethylbenzene, xylenes or "BTEX") concentrations for each groundwater sample is determined and the location of the sample with the maximum total BTEX is identified. Linear interpolation is used to estimate the area where groundwater concentrations would be expected to exceed 50 percent of the maximum BTEX value, and this area is considered for the source width measurement. The same procedure is used to determine source width for group two chemicals, using TEH in groundwater. The width of the groundwater contamination perpendicular to estimated groundwater flow direction (S_w) is determined, and the larger of either group one or group two chemicals is used in the groundwater transport model.

(2) Source width (S_w) and source length (equals W in models) for soil leaching to groundwater transport modeling. Both the source width perpendicular to the estimated groundwater flow direction (S_w) and the source length parallel to the estimated groundwater flow direction (W) are used in the soil leaching to groundwater model. The sum of BTEX concentrations for each soil sample is determined and the location of the sample with the maximum total BTEX is identified. Concentrations from both the vadose zone and the saturated zone must be considered when determining the maximum. Linear interpolation is used to estimate the area where soil concentrations would be expected to exceed 50 percent of the maximum BTEX value, and this area is considered for the source width and source length measurements. The same procedure is used to determine source width for group 2 chemicals, using TEH in soil. Source width and source length measurements for BTEX in groundwater are also taken following the same linear interpolation criteria in *"f"*(1) above. The source width value used in the model is the greatest of either the soil source width measurements or the groundwater source width measurement. The source length value used in the model is the greatest of either of the soil source length measurements or the groundwater length measurement.

(3) Estimating source width when free product is present. Groundwater from wells with free product must be analyzed for BTEX and the source width and source length are estimated using the criteria in 135.10(2)*"f"*(1) and 135.10(2)*"f"*(2) above. For those sites with approved site cleanup reports and free product present in wells but actual BTEX values are not available, source width and source length may be estimated in accordance with 135.10(2)*"f"*(1) and 135.10(2)*"f"*(2) using the default BTEX values for groundwater in 135.18(4) or estimated by using the area representing half the distance between wells with free product and wells without free product, whichever method is greater.

g. Modeled simulation line. The simulation line represents the predicted maximum extent of groundwater contamination and distribution of contaminant concentrations between the source(s) and actual or potential receptor locations. The model calculates the simulation line using maximum concentrations at the source(s) and predicting the amount of dispersion and degradation. Modeled data in the simulation line are compared with actual field data to verify the predictive validity of the model and to make risk classification decisions.

h. Modeled site-specific target level (SSTL) line. The modeled SSTL line represents acceptable levels of contaminant concentrations at points between and including the source(s) and an applicable point(s) of exposure or other point(s) of compliance (ex. a potential receptor point of exposure). The

SSTL line is calculated by assuming an applicable target level concentration at the point(s) of exposure or point(s) of compliance and modeling back to the source to determine the maximum concentrations at the source (SSTL) that must be achieved to meet the target level at the point of exposure or compliance. Comparison of field data to this SSTL line is used to determine a risk classification and determine appropriate corrective action response.

i. Crossgradient and upgradient modeling. In determining the SSTL line and the simulation line in directions other than downgradient, the modeled contaminant concentrations are applied to reduced distances, as specified in the "Tier 2 Guidance." The modeled results are applied to 100 percent of the distance within an angle of 30 degrees on either side of the range of downgradient directions, as specified in Tier 2 guidance. The modeled results are applied to 20 percent of the distance in the upgradient direction and directly proportional distances between these two outer limits. If the groundwater gradient is less than 0.005 or the groundwater contaminant plume shows no definitive direction or shows directional reversals, the modeled concentrations are applied to 100 percent of the distance in all directions from the source. As the downgradient velocity increases, the upgradient modeled distance is reduced to less than 20 percent of the downgradient modeled distance.

j. Plume definition. The purpose of plume definition at Tier 2 is to obtain sufficient data to determine the impact on actual and potential receptors, to determine and confirm the highest levels of contamination, to verify the validity of the models, and to determine groundwater flow direction. The number and location of borings and monitoring wells and the specificity of plume definition will depend on the pathway or pathways being assessed and the actual or potential receptors of concern. Unless otherwise specified, groundwater and soil contamination shall be defined to Tier 1 levels for the applicable pathways. Linear interpolation between two known concentrations must be used to delineate plume extent. Samples with no concentrations detected shall be considered one-half the detection limit for interpolation purposes.

k. Pathway completeness. Unless a pathway has obtained clearance under Tier 1, each pathway must be evaluated at Tier 2. Pathways are generally considered complete (unless otherwise specified) and receptors affected if actual receptors or potential receptor points of exposure exist within the modeled contaminant plume using the modeled simulation line calculated to the applicable target level at a point of exposure. If the actual contaminant plume exceeds the modeled plume, the pathway is complete and must be evaluated if actual or potential points of exposure exist within a distance extending 10 percent beyond the edge of the defined plume.

l. Points of exposure and compliance. For actual receptors, the point(s) of exposure is the receptor. For potential receptors, the potential receptor point(s) of exposure is determined by using actual plume definition or the modeled simulation line to determine all points which exceed the target level(s) for potential receptors. The potential receptor point(s) of exposure is the location(s) closest to the source where a receptor could reasonably exist and which is not subject to an institutional control; for example, the source is the potential receptor point of exposure if not subject to an institutional control or an adjoining property boundary line if that property is not subject to an institutional control. At Tier 2, the point(s) of exposure or potential receptor point(s) of exposure is a point of compliance unless otherwise specified. Other points of compliance are specified by rules and will generally include all points along the SSTL line for purposes of pathway and site classification and corrective action response.

m. Group two chemicals. At Tier 2, chemical-specific values for the four chemicals may be used or the largest of the four TEH default values. (Refer to Appendix B and department Tier 2 guidance for using the TEH conversion method for modeling.) If chemical-specific values are used, the analytical method must be approved by the department prior to its use.

135.10(3) Bedrock assessment.

a. General. As provided in 135.8(5), if bedrock is encountered before groundwater, special assessment procedures under this subrule apply. The Tier 2 assessment procedures apply to the extent they are not inconsistent with this subrule. The objectives of these special procedures are to avoid creating a preferential pathway for contamination through a confining layer to a bedrock aquifer; to avoid creating a preferential pathway to a fractured system, and to determine whether groundwater transport modeling can be used and, if not, what alternative procedures are required. The owner or

operator may choose to conduct a Tier 3 assessment under 135.11(455B) as an alternative to proceeding under this subrule. For sites where bedrock is encountered before groundwater, there are three general categories of site conditions which determine the assessment procedures that apply:

(1) Nongranular bedrock. Nongranular bedrock is bedrock which is determined to not act as a granular aquifer as provided in subparagraph (2). Nongranular bedrock generally has some type of fractured system where groundwater transport modeling cannot be applied and which makes it difficult to define the extent of contamination.

(2) Granular bedrock. Granular bedrock is bedrock which is determined to act as a granular aquifer and for which monitoring wells do not exist at the source as of August 15, 1996. For purposes of this rule, a granular aquifer is one that shows no extraordinary variations or inconsistencies in groundwater elevations across the site, groundwater flow, hydraulic conductivities, or total dissolved solid concentrations among monitoring wells. Although the extent of contamination can be defined in granular bedrock, groundwater transport modeling cannot be used because there are no monitoring wells at the source.

(3) Exempt granular bedrock. Exempt granular bedrock is bedrock which is determined to act as a granular aquifer as provided in subparagraph (2) and for which monitoring wells exist at the source as of August 15, 1996. Sites in exempt granular bedrock shall be evaluated using the normal Tier 1 or Tier 2 procedures in this rule. Nongranular bedrock is not exempt from this subrule even if groundwater monitoring wells exist at the source.

b. Exempt soil pathways. The soil vapor to enclosed space pathway and the soil to plastic water lines pathway shall be assessed under the normal Tier 2 procedures in subrules 135.10(7) and 135.10(9) respectively. In all cases, the normal assessment must comply with the policy of avoiding a preferential pathway to groundwater consistent with 135.8(5) and this subrule.

c. Soil and groundwater assessment. The vertical and horizontal extent of soil contamination shall first be defined to Tier 1 levels for the soil leaching to groundwater pathway without drilling into bedrock. A minimum of three groundwater monitoring wells shall be located and installed between 50 to 100 feet beyond the soil contamination Tier 1 levels to avoid creating a preferential pathway. Analytical data as normally required by these rules and guidance must be obtained.

d. Soil contamination remediation. For all sites where soil contamination exceeds the soil leaching to groundwater Tier 1 levels, soil excavation or other active soil remediation technology must be conducted in accordance with department guidance to reduce concentrations to below this Tier 1 level. Soil remediation monitoring must be conducted in accordance with 135.12(455B).

e. Groundwater plume definition. If it is determined the groundwater acts in a manner consistent with a granular aquifer as provided in subparagraph *"a"*(2) and guidance but does not meet the criteria for exemption under subparagraph *"a"*(3), the plume must be defined. The policy of avoiding the creation of a preferential pathway to the bedrock aquifer in accordance with 135.8(5) must be followed.

f. Soil leaching to groundwater ingestion pathway. Under this subrule, the soil leaching to groundwater pathway only need be evaluated in combination with the groundwater ingestion pathway. Because of the policies requiring soil remediation to the soil leaching to groundwater Tier 1 levels under paragraphs *"d"* and *"k,"* the soil leaching pathway target levels applicable to other groundwater transport pathways and other soil pathways would not be exceeded. If a soil leaching to groundwater Tier 1 level is exceeded, the pathway is high risk.

g. Special procedures for the groundwater ingestion pathway.

(1) A protected groundwater source is assumed without measurements of hydraulic conductivity for all sites designated as granular or nongranular bedrock.

(2) Groundwater well receptor evaluation for granular and nongranular bedrock designations. All drinking and non-drinking water wells within 1,000 feet of the source must be identified and tested for chemicals of concern. All public water supply systems within one mile of the source must be identified and raw water tested for chemicals of concern. If no drinking water wells are located within 1,000 feet of the source, all the area within 1,000 feet is considered a potential receptor point of exposure.

(3) Target levels. The following target levels apply regardless of granular aquifer designation. If drinking water wells are within 1,000 feet of the source, the applicable target level is the groundwater

ingestion pathway Tier 1 level for actual receptors. If non-drinking water wells are within 1,000 feet of the source, the applicable target level is the groundwater ingestion pathway Tier 1 level for potential receptors. For potential wells, the applicable target level is the groundwater ingestion pathway Tier 1 level for potential receptors.

(4) Sentry well. If the Tier 1 level for actual receptors is exceeded at sites designated as granular bedrock and the receptor has not yet been impacted, a monitoring well shall be placed between the source and an actual receptor, outside the defined plume and approximately 200 feet from the actual receptor. For alternative well placement, the certified groundwater professional must provide justification and obtain department approval. This monitoring well is to be used for monitoring potential groundwater contamination of the receptor.

(5) High risk classification. A site where bedrock is encountered before groundwater shall be classified high risk for this pathway if any of the following conditions exist regardless of granular aquifer determination: The target level at any actual receptor is exceeded; drinking water well receptors are present within 1,000 feet and groundwater concentrations in any monitoring well exceed the groundwater ingestion Tier 1 level for actual receptors; non-drinking water wells are within 1,000 feet and groundwater concentrations in any monitoring well exceed the groundwater ingestion pathway Tier 1 level for potential receptors; or for sites designated nongranular bedrock, if groundwater concentrations for chemicals of concern from any public water system well within one mile of the source exceed 40 percent of the Tier 1 level for actual receptors, and groundwater concentrations in any monitoring well exceed the groundwater ingestion Tier 1 level for actual receptors. Corrective action shall be undertaken as provided in paragraph *"k."*

(6) Low risk classification. Sites without an actual receptor within 1,000 feet shall be classified as low risk for this pathway if no high risk conditions exist, and the Tier 1 level for potential receptors is exceeded. The site is subject to monitoring as provided in paragraph *"l."* If an actual receptor exists within 1,000 feet, a site designated as granular or nongranular bedrock shall be classified low risk for this pathway when soil contamination has been removed or remediated to below the soil leaching to groundwater Tier 1 levels, and all groundwater monitoring wells are non-detect or below the applicable target level for actual and potential receptors. A site may be reclassified to no action required for this pathway after all monitoring wells meet the exit monitoring criteria as specified in paragraph *"l."* (NOTE: Exit monitoring is required because groundwater monitoring wells are not located at the source or if they are, the data is highly unreliable given the nature of bedrock.) If actual receptors do not exist or have been properly plugged and concentrations exceed the Tier 1 level for potential receptors, institutional controls and notification to permitting authorities may be employed in accordance with 135.10(4)*"i."* The institutional control must prohibit use of groundwater for 1,000 feet.

h. Special procedures for the groundwater vapor to enclosed space pathway.

(1) Soil gas plume. Soil gas measurements must be taken regardless of granular aquifer determination and in accordance with Tier 2 guidance to determine a soil gas plume. Soil gas where practical should be measured at the soil-bedrock interface. At a minimum, soil gas must be measured at the suspected area of maximum contamination and near the three monitoring wells with the highest concentrations that exceed the Tier 1 level for the groundwater to enclosed space pathway. Where the plume has been defined, soil gas measurements should be taken near wells exceeding the Tier 1 level. Other soil gas measurements must be taken as needed to define the extent of contamination where soil gas measurements exceed the soil gas vapor target levels.

(2) The soil gas target levels are those defined in 135.10(7)*"f."*

(3) High risk classification. A site designated as granular or nongranular bedrock shall be classified high risk for this pathway if an actual confined space receptor exists within 50 feet of the soil gas plume based on the soil gas target level as defined in 135.10(6).

(4) Low risk classification. A site designated as granular or nongranular bedrock shall be classified as low risk for this pathway if the soil gas exceeds the vapor target level at any point and no actual confined space receptors exist within 50 feet of the soil gas contaminant plume.

i. Special procedure for the groundwater to plastic water line pathway.

(1) Target level. The applicable target level is the Tier 1 level for plastic water lines.

(2) High risk classification. A site designated as granular or nongranular bedrock shall be classified high risk for this pathway if the highest groundwater elevation is higher than three feet below the bottom of a plastic water line as provided in 135.10(8)*"a"*(1), risk classification cannot be determined as provided in 135.12(455B) due to limitations on placement of monitoring wells, and plastic water lines exist within 200 feet of a monitoring well which exceeds the Tier 1 level.

j. Special procedures for the surface water pathway. Any surface water body within 200 feet of the source must be evaluated under the following for sites designated as granular or nongranular bedrock. The provisions of 135.10(10) apply to the extent they are not inconsistent with the following, including the visual inspection requirements.

(1) Point of compliance. The monitoring well closest to the surface water body must be used as the point of compliance to evaluate impacts to designated use segments as described in 135.10(10) and for general use segments that fail the visual inspection criteria of 135.10(10)*"b."* If the surface water criteria is exceeded for a designated use segment, an allowable discharge concentration must be calculated and met at the point of compliance. For general use segments failing the visual inspection criteria, the acutely toxic target level must be met at the point of compliance.

(2) High risk classification. A site designated as granular or nongranular bedrock shall be classified high risk for this pathway if the surface water body is within 200 feet of the source, risk classification cannot be determined as per 135.12(455B) due to limitations on placement of monitoring wells, and the monitoring well closest to the designated use segment exceeds the allowable discharge concentration. A general use segment failing the visual inspection criteria is high risk if, after the sheen is removed, the monitoring well closest to the general use segment exceeds the acutely toxic target level.

(3) Low risk classification. If the allowable discharge concentration is not exceeded at the point of compliance, the site shall be classified as low risk for this pathway and subject to monitoring under paragraph *"l."* The monitoring well closest to the receptor shall serve as the sentry well for monitoring purposes.

k. High risk corrective action response. Owners and operators have the option to conduct a Tier 3 assessment in accordance with 135.11(455B).

(1) Groundwater ingestion pathway. For high risk sites, where soil exceeds the soil leaching to groundwater Tier 1 level for actual receptors, soil excavation or other active remediation of soils must be conducted in accordance with department guidance to reduce soil concentrations below the soil leaching Tier 1 level. Corrective action other than monitoring of groundwater is required at sites designated as nongranular bedrock if the actual receptor has been or is likely to be impacted. Corrective action other than monitoring of groundwater is required at sites designated as granular bedrock if the actual receptor has been impacted or the sentry well required by 135.10(3)*"g"*(4) has been impacted above Tier 1 levels. Acceptable corrective action for impacted or vulnerable groundwater wells may include active remediation, technological controls, institutional controls, well plugging, relocation, and well reinstallation with construction measures sufficient to prevent contaminant infiltration to the well and to prevent formation of a preferential pathway.

(2) Groundwater ingestion pathway high risk monitoring. For high risk sites designated as nongranular or granular bedrock, if the soil concentrations do not exceed the soil leaching to groundwater Tier 1 levels or have been reduced to this level by corrective action, and corrective action of groundwater is not required as in subparagraph (1), these sites shall be subject to groundwater monitoring as provided in paragraph *"l."* Corrective action other than monitoring of groundwater is required at sites designated as granular bedrock if groundwater concentrations exceed the applicable target level less than 200 feet from an actual receptor. Reevaluation of the potential for impact to actual receptors is required at sites designated as nongranular bedrock if concentrations from monitoring wells increases more than 20 percent of the previous samples.

(3) Other pathways. For high risk sites other than groundwater ingestion, active remediation must be conducted to reduce concentrations below the applicable target levels including the use of institutional and technological controls.

l. Monitoring. For high and low risk sites, annual monitoring at a minimum is required as specified below, and potential receptor status for low risk sites must be confirmed. Annual monitoring

may be used to meet the exit requirements for no action required classification in accordance with paragraph *"m."*

(1) Groundwater in nongranular bedrock designations. All groundwater monitoring wells must be monitored at least annually.

(2) Groundwater in granular bedrock designations. The following monitoring wells must be monitored at least annually: a well with detected levels of contamination closest to the leading edge of the groundwater plume between the source and the receptor, and a sentry well with concentrations below the applicable target level consistent with subparagraph *"g"*(4) and paragraph *"j."*

(3) Soil gas. For sites where the soil gas target level is exceeded, annual monitoring of soil gas is required at the suspected area of maximum contamination and between the soil gas plume and any actual receptors within 100 feet of the soil gas plume.

m. *No action required classification.* A site may be given a no action required classification after conducting a Tier 2 assessment as provided in this subrule if maximum soil concentrations do not exceed the Tier 1 levels for the soil leaching pathway, and if groundwater exit monitoring criteria and soil gas confirmation sampling are met as specified below.

(1) Groundwater in nongranular bedrock designations. Exit monitoring requires that samples from all groundwater monitoring wells must not exceed the applicable target levels for annual sampling for three consecutive years.

(2) Groundwater in granular bedrock designations. Exit monitoring must be met in two ways: A monitoring well between the source and the receptor must not exceed applicable target levels for three sampling events, and samples must be separated by at least six months; and the three most recent consecutive groundwater samples from a monitoring well between the source and the receptor with detected levels of contamination must show a steady or declining trend and meet the following criteria: The first of the three samples must be more than detection limits, concentrations cannot increase more than 20 percent from the first of the three samples to the third sample; concentrations cannot increase more than 20 percent of the previous sample; and samples must be separated by at least six months.

(3) Soil gas. Confirmation sampling for soil gas must be conducted as specified in 135.12(6)*"c."*

n. After receiving a no action required classification, all monitoring wells must be properly plugged in accordance with 567—Chapters 39 and 49.

135.10(4) *Groundwater ingestion pathway assessment.*

a. *Pathway completeness.* Unless cleared at Tier 1, this pathway is complete and must be evaluated under any of the following conditions: (1) the first encountered groundwater is a protected groundwater source; or (2) there is a drinking water well or a non-drinking water well within the modeled groundwater plume or the actual plume as provided in 135.10(2)*"j"* and 135.10(2)*"k."*

b. *Receptor evaluation.* All drinking and non-drinking water wells located within 100 feet of the largest actual plume (defined to the appropriate target level for the receptor type) must be tested, at a minimum, for chemicals of concern as part of the receptor evaluation. Actual plumes refer to groundwater plumes for all chemicals of concern. Untreated or raw water must be collected for analysis unless it is determined to be infeasible or impracticable.

All existing drinking water wells and non-drinking water wells within the modeled plume or the actual plume as provided in paragraph *"a"* must be evaluated as actual receptors. Potential receptors only exist if the groundwater is a protected groundwater source. Potential receptor points of exposure are those points within the modeled plume or actual plume that exceed the potential point of exposure target level. The point(s) of compliance for actual receptor(s) is the receptor. The point(s) of compliance for potential receptor(s) is the potential receptor point of exposure as provided in 135.10(2)*"j"* and 135.10(2)*"k."*

c. *Target levels.* For drinking water wells, the target level at the point(s) of exposure is the Tier 1 level for actual receptors. For non-drinking water wells, the target level at the point(s) of exposure is the Tier 1levels for potential receptors. For potential receptors, the target level at the potential receptor point(s) of exposure is the Tier 1 level for potential receptors.

d. The soil leaching to groundwater pathway must be evaluated in accordance with 135.9(5) if this pathway is complete.

e. Modeling. At Tier 2, the groundwater well located within the modeled plume is assumed to be drawing from the contaminated aquifer, and the groundwater transport model is designed to predict horizontal movement to the well. If the groundwater professional determines that assessment of the vertical movement of contamination is advisable to determine the potential or actual impact to the well source, a Tier 3 assessment of this vertical pathway may be conducted. The groundwater professional shall submit a work plan to the department specifying the assessment methods and objectives for approval in accordance with 135.11(455B). Factors which should be addressed include, but are not limited to, well depth and construction, radius of influence, hydrogeologic separation of aquifer, preferential pathways, and differing water quality characteristics.

f. Public water supply well assessment. Rescinded IAB 3/11/09, effective 4/15/09.

g. Plume definition. The groundwater plume shall be defined to the applicable Tier 1 level for actual receptors except, where there are no actual receptors and the groundwater is a protected groundwater source, the plume shall be defined to the Tier 1 level for potential receptors.

h. Pathway classification. This pathway shall be classified as high risk, low risk or no action required in accordance with 135.12(455B).

i. Corrective action response. Corrective action must be conducted in accordance with 135.12(455B). Abandonment and plugging of wells in accordance with 567—Chapters 39 and 49 is an acceptable corrective action response.

j. Use of institutional controls. The use of institutional controls may be used to obtain no action required pathway classification. If the pathway is complete and the concentrations exceed the applicable Tier 1 level(s) for actual receptors, the drinking or non-drinking water well must be properly plugged in accordance with 567—Chapters 39 and 49 and the institutional control must prohibit the use of a protected groundwater source (if one exists) within the actual or modeled plume as provided in 135.10(2)*"j"* and 135.10(2)*"k."* If the Tier 1 level is exceeded for potential receptors, the institutional control must prohibit the use of a protected groundwater source within the actual or modeled plume, whichever is greater. If concentrations exceed the Tier 1 level for drinking water wells and the groundwater is a protected groundwater source, the owner or operator must provide notification of the site conditions on a department form to the department water supply section, or if a county has delegated authority, then the designated county authority responsible for issuing private water supply construction permits or regulating non-public water well construction as provided in 567—Chapters 38 and 49.

k. Notification of well owners. Upon receipt of a Tier 2 site cleanup report and as soon as practicable, the department shall notify the owner of any public water supply well identified within the Tier 2 site cleanup report that a leaking underground storage tank site is within 2,500 feet and an assessment has been performed.

135.10(5) *Soil leaching to groundwater pathway assessment.*

a. General. The soil leaching to groundwater pathway is evaluated using a one-dimensional model which predicts vertical movement of contamination through soil to groundwater and transported by the groundwater to a receptor. The model is used to predict the maximum concentrations of chemicals of concern that would be present in groundwater beneath a source which is representative of residual soil contamination and maximum soil concentrations. The predicted groundwater concentrations then must be used as a groundwater source concentration to evaluate its impact on other groundwater transport pathways, including the groundwater ingestion pathway, the groundwater vapor pathway, the groundwater plastic line pathway and the surface water pathway.

b. Pathway completeness. This pathway is complete whenever a groundwater transport pathway is complete as provided in this rule.

c. Plume definition. The soil plume shall be defined to the Tier 1 levels for the soil leaching to groundwater pathway.

d. Receptor evaluation. Receptors for this pathway are the same as the receptors for each complete groundwater transport pathway.

e. Modeling and target levels. The soil and groundwater parameters shall be measured as provided in 135.10(2).

The soil leaching to groundwater model shall be used to calculate the predicted groundwater source concentration. Each applicable groundwater transport pathway model shall then be used in accordance with the rules for that pathway to predict potential impact to actual receptors, the location of potential receptor points of exposure and the site-specific target level (SSTL) in groundwater at the source. This SSTL then is used to calculate a SSTL for soil at the source. If the soil concentrations exceed the SSTL for soil, corrective action response shall be evaluated.

f. *Corrective action response.* If the maximum soil concentration at the source exceeds the SSTL for soil for actual or potential receptors, corrective action must be taken in accordance with 135.12(455B).

135.10(6) *Groundwater vapor to enclosed space pathway assessment.*

a. *Pathway completeness.* Unless cleared at Tier 1, this pathway is always considered complete for purposes of Tier 2.

b. *Explosive vapor survey.* If an explosive vapor survey has not been conducted as part of a Tier 1 assessment, an explosive vapor survey of enclosed spaces must be conducted during the Tier 2 assessment in accordance with 135.9(6)*"b"* and procedures outlined in the department's Tier 1 guidance.

c. *Confined space receptor evaluation.* Actual and potential receptors are evaluated at Tier 2 for this pathway.

(1) Actual receptors. An existing confined space within the modeled groundwater plume or the actual groundwater plume as provided in 135.10(2)*"j"* and 135.10(2)*"k"* is an actual receptor. For the purpose of Tier 2, a confined space is a basement in a building occupied by humans. Buildings constructed with a concrete slab on grade or buildings constructed without a concrete slab, but with a crawl space are not considered confined spaces. Sanitary sewers are considered confined space receptors and preferential pathways if an occupied building exists within 200 feet of where the sewer line crosses over or through actual or modeled groundwater contamination which exceeds the target levels calculated for sewers. The sanitary sewer includes its utility envelope. The point of exposure is the receptor and points of compliance include the locations where target level measurements may be taken as provided in paragraphs *"f"* and *"g."*

(2) Potential receptors. Potential receptors are confined spaces that do not presently exist but could exist in the future. Areas within the actual groundwater plume perimeter or modeled groundwater plume perimeter are considered potential receptor points of exposure. Potential receptors are evaluated and target levels established based on the current zoning as provided in paragraph *"f."* The potential receptor point of exposure is a point of compliance.

d. Owners and operators may be required to address vapor inhalation hazards in occupied spaces other than confined spaces as defined in these rules when evidence arises which would give the department a reasonable basis to believe vapor hazards are present or may occur.

e. *Plume definition.*

(1) The soil plume must be defined in accordance with 135.10(2)*"f"* for the purposes of estimating source width and source length used in soil leaching to groundwater and groundwater transport models.

(2) The groundwater plume must be defined to the target levels derived from site-specific data as provided in paragraph *"f."*

f. *Target levels.* Target levels can be based on groundwater concentrations, soil gas measurements, and indoor vapor measurements as provided below.

(1) For actual receptors and potential receptors, groundwater modeling as provided in 135.10(2) is used to calculate the groundwater concentration target level at the point of exposure. Default residential exposure factors, default residential building parameters, and a target risk of 10^{-4} are used to determine target levels for actual receptors and potential receptor points of exposure in residential areas and areas with no zoning. Default nonresidential exposure factors, default nonresidential building parameters, and a target risk of 10^{-4} are used to determine target levels for actual receptors and potential receptor points of exposure in nonresidential areas. Default values are provided in Appendices A and B.

(2) For actual receptors, the indoor vapor target levels are designated in 135.10(7)*"f."* For actual and potential receptors, the soil gas target levels are designated in 135.10(7)*"f."*

(3) Sanitary sewers are treated as human health receptors, and groundwater concentration target levels at the point of exposure are based on the application of a target risk of 2×10^{-4} for carcinogens and a hazard quotient of 2 for noncarcinogens.

g. Pathway evaluation and classification. Upon completion of analysis of field data and modeled data, the pathway must be classified high risk, low risk or no further action as provided in 135.12(455B).

(1) Actual receptors. If it can be demonstrated that the groundwater plume has reached steady state concentrations under a confined space, indoor vapor measurements at the point(s) of exposure and soil gas measurements at an alternative point(s) of compliance may be used for the pathway evaluation. When assessing sanitary sewers for pathway clearance, soil gas measurements may be evaluated against the soil gas target levels; however, indoor vapor cannot be used as criteria for pathway clearance. Soil gas measurements shall be taken and analyzed in accordance with 135.16(5) and the department's Tier 2 guidance, and at locations in the plume where measured groundwater concentrations exceed the levels which are projected by modeling to exist beneath the actual receptor. If measured groundwater concentrations beneath the actual receptor exceed the levels projected from modeling, then the soil gas measurements may be taken either adjacent to the actual receptor in areas expected to exhibit the greatest soil gas measurements or at an alternative point of compliance between the source and receptor where the actual groundwater concentrations exceed the groundwater concentrations which exist beneath the confined space. If the soil gas measurements and confirmation samples taken in accordance with 135.12(6)*"c"* do not exceed the soil gas target levels, the pathway as to actual receptors shall be classified no action required. If the soil gas target levels are exceeded, either the pathway shall be classified high risk, or indoor vapor measurements may be taken in accordance with the department's Tier 2 guidance. If indoor vapor measurements and confirmation samples do not exceed the indoor vapor target levels, the pathway as to actual confined space receptors shall be classified no action required. If the Tier 1 indoor vapor target levels are exceeded, the pathway shall be classified high risk.

(2) Potential receptors. If the potential receptor groundwater concentration target level(s) is exceeded at any potential receptor point of exposure based on actual data or modeling, the pathway shall be classified low risk. However, if soil gas measurements taken at the potential receptor point(s) of exposure and alternate point(s) of compliance and confirmation samples do not exceed the target levels in 135.10(7)*"f,"* the pathway, as to potential receptors, shall be classified no action required. If the target level(s) for potential sanitary sewer receptors is exceeded, the pathway shall be classified as low risk. Where the area of potential receptor exposure includes public right-of-way, the pathway may be classified as no action required if the owner or operator provides sufficient documentation to establish that there are no foreseeable plans for construction of sanitary sewers through the area of potential receptor exposure. The municipal authority must acknowledge consent to the no action required classification whenever target levels are exceeded. If the municipal authority reports that it has confirmed plans for construction of sanitary sewers through the area of potential receptor exposure, the pathway shall be reevaluated as an actual receptor.

h. Corrective action response. Unless the pathway is classified as no action required, corrective action for this pathway must be conducted as provided in 135.12(455B). Actual receptors are subject to corrective actions which: (1) reduce groundwater concentrations beneath the enclosed space to below the target level; (2) reduce the measured soil gas levels to below the soil gas target levels; (3) reduce the indoor vapor concentrations to below the indoor vapor target level; or (4) reduce the vapor level to below 10 percent of the lower explosive limit (LEL), if applicable. Potential receptors are subject to the monitoring requirements in 135.12(5). Soil vapor monitoring may be conducted in lieu of groundwater monitoring for this pathway. Institutional or technological controls as provided in 135.12(455B) may be used.

i. Municipal authority notification for potential sewer receptors. The municipal authority responsible for sewer construction must be notified of the environmental conditions whenever target level(s) is exceeded for potential sanitary sewers. The notification must show the area where groundwater concentrations and soil gas samples exceed target levels. The owner or operator must acknowledge what plans, if any, exist for construction of sanitary sewers through the area of potential receptor exposure.

135.10(7) *Soil vapor to enclosed space pathway assessment.*

a. *Pathway completeness.* Unless cleared at Tier 1, this pathway is always considered complete for purposes of Tier 2.

b. *Explosive vapor survey.* If an explosive vapor survey has not been conducted as part of a Tier 1 assessment, an explosive vapor survey of enclosed spaces must be conducted during the Tier 2 assessment in accordance with 135.9(6)*"b"* and procedures outlined in the department's Tier 1 guidance.

c. *Confined space receptor evaluation.* Actual and potential receptors are evaluated at Tier 2 for this pathway.

(1) Actual receptors. An existing confined space within 50 feet of the edge of the plume is an actual receptor. For the purpose of Tier 2, a confined space is a basement in a building occupied by humans. Buildings constructed with a concrete slab on grade or buildings constructed without a concrete slab, but with a crawl space are not considered receptors. Sanitary sewers are considered confined space receptors and preferential pathways if an occupied building exists within 200 feet of where the sewer line crosses over or through soil contamination which exceeds the target levels calculated for sewers. The sanitary sewer includes its utility envelope. The point of exposure is the receptor and points of compliance include the locations where target level measurements may be taken as provided in paragraphs *"f"* and *"g."*

(2) Potential receptors. Potential receptors are confined spaces that do not presently exist but could exist in the future. Areas where soil concentrations are greater than the Tier 1 level applicable to residential areas or alternative target levels for nonresidential areas as specified in paragraph *"f"* are considered potential receptor points of exposure. Potential receptors are evaluated and target levels established based on the current zoning. An area with no zoning is considered residential. The potential receptor point of exposure is a point of compliance.

d. Owners and operators may be required to address vapor inhalation hazards in occupied spaces other than confined spaces as defined in these rules when evidence arises which would give the department a reasonable basis to believe vapor hazards are present or may occur.

e. *Plume definition.* The soil plume must be defined to the Tier 1 level for this pathway unless vapor measurements taken at the area(s) with the maximum levels of soil contamination do not exceed the soil gas target level in 135.10(7)*"f."* If soil gas measurements taken from the area(s) of maximum soil concentration do not exceed target levels, confirmation sampling must be conducted in accordance with 135.12(6)*"c"* prior to proposing a no action pathway classification.

f. *Target levels.* Target levels can be based on soil concentrations, soil gas measurements, and indoor vapor measurements as provided below:

(1) For actual receptors, the soil concentration target level is the Tier 1 level. For potential receptors, the soil concentration target level for residential areas and areas with no zoning is the Tier 1 level. For areas zoned nonresidential, the target level is calculated using the default nonresidential exposure factors and building parameters from Appendix A and a target risk of 10^{-4} .

(2) The following indoor vapor target levels apply to actual receptors other than sanitary sewers and the soil gas target levels apply to all actual and potential receptors. These levels were derived from the ASTM indoor air inhalation and the soil vapor to enclosed space models designated in Appendix A.

	Indoor Vapor ($\mu g/m^3_{air}$)	**Soil Gas ($\mu g/m^3$)**
Benzene	39.2	600,000
Toluene	555	9,250,000

(3) Sanitary sewers are treated as human health receptors, and soil concentration target levels at the point of exposure are based on application of a target risk of 2×10^{-4} for carcinogens and hazard quotient of 2 for noncarcinogens.

g. *Pathway evaluation and classification.*

(1) Actual receptors. Confined space receptors may be evaluated using soil gas measurements and indoor vapor measurements. When assessing sanitary sewers for pathway clearance, soil gas

measurements may be evaluated against the soil gas target levels, however, indoor vapor cannot be used as criteria for pathway clearance. Soil gas measurements shall be taken adjacent to the actual receptor or at an alternative point of compliance between the source and receptor such as the property boundary, and in accordance with 135.16(5) and the department's Tier 2 guidance. If the soil gas measurements and confirmation samples taken in accordance with 135.12(6)*"c"* do not exceed the soil gas target levels, the pathway as to actual receptors shall be classified no action required. If the soil gas target levels are exceeded, either the pathway shall be classified high risk, or indoor vapor measurements may be taken in accordance with the department's Tier 2 guidance. If indoor vapor measurements and confirmation samples do not exceed the indoor vapor target levels, the pathway as to actual receptors shall be classified no action required. If the indoor vapor target levels are exceeded, the pathway shall be classified high risk.

(2) Potential receptors. If the potential receptor target level(s) based on soil concentrations is exceeded at any potential receptor point of exposure, the pathway shall be classified low risk. However, if soil gas measurements taken at the potential receptor point(s) of exposure and alternate point(s) of compliance and confirmation samples do not exceed the target levels in paragraph *"f,"* the pathway shall be classified no action required as to potential receptors. If the target level(s) for potential sanitary sewer receptors is exceeded, the pathway shall be classified as low risk. Where the area of potential receptor exposure includes public right-of-way, the pathway may be classified as no action required if the owner or operator provides sufficient documentation to establish that there are no foreseeable plans for construction of sanitary sewers through the area of potential receptor exposure. The municipal authority must acknowledge consent to the no action required classification whenever target levels are exceeded. If the municipal authority reports that it has confirmed plans for construction of sanitary sewers through the area of potential receptor exposure, the pathway shall be reevaluated as an actual receptor.

h. Corrective action response. Unless the pathway is classified as no action required, corrective action for this pathway must be conducted as provided in 135.12(455B) and in accordance with department Tier 2 guidance. Actual receptors are subject to corrective actions which: (1) reduce the indoor vapor concentrations to below the target level; (2) reduce measured soil gas levels to below the soil gas target levels; and (3) if applicable, reduce the vapor level to below 10 percent of the lower explosive limit (LEL). Potential receptors are subject to monitoring requirements as provided in 135.12(5). Soil vapor monitoring may be conducted in lieu of soil monitoring for this pathway. Institutional or technological controls as provided in 135.12(455B) may be used.

i. Municipal authority notification for potential sewer receptors. The municipal authority responsible for sewer construction must be notified of the environmental conditions whenever target level(s) is exceeded for potential sanitary sewers. The notification must show the area where soil concentrations and soil gas samples exceed target levels. The owner or operator must acknowledge what plans, if any, exist for construction of sanitary sewers through the area of potential receptor exposure.

135.10(8) *Groundwater to plastic water line pathway assessment.*

a. Pathway completeness and receptor evaluation.

(1) Actual receptors include all plastic water lines where the highest groundwater elevation is higher than three feet below the bottom of the plastic line at the measured or predicted points of exposure. The highest groundwater elevation is the estimated average of the highest measured groundwater elevations for each year. All plastic water lines must be evaluated for this pathway regardless of distance from the source and regardless of the Tier 1 evaluation, if the lines are in areas with modeled data above the SSTL line. If actual data exceeds modeled data, then all plastic water lines are considered actual receptors if they are within a distance extending 10 percent beyond the edge of the contaminant plume defined by the actual data.

(2) Potential receptors include all areas where the first encountered groundwater is less than 20 feet deep and where actual data or modeled data are above Tier 1 levels.

(3) The point(s) of exposure is the plastic water line, and the points of compliance are monitoring wells between the source and the plastic water line which would be effective in monitoring whether the line has been or may be impacted by chemicals of concern.

b. Plume definition. If this pathway is complete for an actual receptor, the groundwater plume must be defined to the Tier 1 levels, with an emphasis between the source and any actual plastic water lines. The water inside the plastic water lines shall be analyzed for all chemicals of concern.

c. Target levels. Groundwater modeling as provided in 135.10(2) must be used to calculate the projected concentrations of chemicals of concern and site-specific target levels. The soil leaching to groundwater pathway must be evaluated to ensure contaminated soil will not cause future groundwater concentrations to exceed site-specific target levels. The target level at the point(s) of exposure is the Tier 1 level.

d. Pathway classification. Upon completion of analysis of field data and modeled data, the pathway must be classified high risk, low risk or no further action as provided in 135.12(455B). The water quality inside the plastic water lines is not a criteria for clearance of this pathway.

e. Utility company notification. The utility company which supplies water service to the area must be notified of all actual and potential plastic water line impacts. If the extent of contamination has been defined, this information must be included in utility company notification, and any previous notification made at Tier 1 must be amended to include this information.

f. Corrective action response.

(1) For actual receptors, unless the pathway is classified as no further action, corrective action for this pathway must be conducted as provided in 135.12(455B). If the concentrations of chemicals of concern in a water line exceed the Tier 1 levels for actual receptors for the groundwater ingestion pathway, immediate corrective action must be conducted to eliminate exposure to the water, including but not limited to replacement of the line with an approved nonplastic material.

(2) For potential receptors, upon utility company notification, no further action will be required for this pathway for potential receptors.

135.10(9) *Soil to plastic water line pathway assessment.*

a. Pathway completeness and receptor evaluation.

(1) Actual receptors include all plastic water lines within ten feet of the soil plume defined to the Tier 1 level. All plastic water lines must be evaluated for this pathway regardless of distance from the source, if the lines are in areas where Tier 1 levels are exceeded.

(2) Potential receptors include all areas where Tier 1 levels are exceeded.

b. Plume definition. The extent of soil contamination must be defined to Tier 1 levels for the chemicals of concern.

c. Target level. The point(s) of exposure include all areas within ten feet of the plastic water line. The target level at the point(s) of exposure is the Tier 1 level.

d. Pathway classification. Upon completion of analysis of field data and modeled data, the pathway must be classified high risk, low risk or no further action as provided in 135.12(455B). Measurements of water quality inside the plastic water lines may be required, but are not allowed as criteria to clear this pathway.

e. Utility company notification. The utility company which supplies water service to the area must be notified of all actual and potential plastic water line impacts. If the extent of contamination has been defined, this information must be included in utility company notification, and any previous notification made at Tier 1 must be amended to include this information.

f. Corrective action response.

(1) For actual receptors, unless the pathway is classified as no further action, corrective action for this pathway must be conducted as provided in 135.12(455B).

(2) For potential receptors, upon utility company notification, no further action will be required for this pathway for potential receptors.

135.10(10) *Surface water pathway assessment.*

a. Pathway completeness. Unless maximum concentrations are less than the applicable Tier 1 levels, this pathway is complete and must be evaluated under any of the following conditions: (1) there is a designated use surface water within the modeled groundwater plume or the actual plume as provided in 135.10(2)*"f"* and 135.10(2)*"g"*; or (2) any surface water body which failed the Tier 1 visual inspection as provided in 135.9(10).

b. Visual inspection. A visual inspection must be conducted according to 135.9(10)*"c."* If a sheen or residue from a petroleum-regulated substance is present, soil and groundwater sampling must be conducted to identify the source of the release and to define the extent of the contaminant plume to the levels acutely toxic to aquatic life as provided in 567—subrule 61.3(2).

c. Receptor evaluation.

(1) Surface water criteria apply only to designated use segments of surface water bodies as provided in 567—subrules 61.3(1) and 61.3(5). If the surface water body is a designated use segment and if maximum groundwater concentrations exceed applicable surface water criteria, the extent of contamination must be defined as provided in paragraph *"d."* The point of compliance for measuring chemicals of concern at the point of exposure is the groundwater adjacent to the surface water body because surface water must be protected for low flow conditions. In-stream measurements of concentrations are not allowed as a basis for no further action.

(2) If the visual inspection indicates the presence of a petroleum sheen in a general use segment within 200 feet of the source, as defined in 567—paragraph 61.3(1)*"a,"* the segment must be evaluated as an actual receptor. The point of compliance for measuring chemicals of concern at the point of exposure is the groundwater adjacent to the general use segment.

d. Plume definition. The groundwater plume must be defined to the surface water criteria levels for designated use segment receptors and to the acutely toxic levels for general use segment receptors, with an emphasis between the source and the surface water body.

e. Target levels. Determining target levels for this pathway involves a two-step process.

(1) Groundwater modeling as provided in 135.10(2) must be used to calculate the projected concentrations of chemicals of concern at the point of compliance. If the modeled concentrations or field data at the point of compliance exceed surface water criteria for designated use segments, an allowable discharge concentration must be calculated. If the projected concentrations and field data at the point of compliance do not exceed surface water criteria, no further action is required to assess this pathway.

(2) The department water quality section will calculate the allowable discharge concentration using information provided by the certified groundwater professional on a department form. Required information includes, at a minimum, the site location and a discharge flow rate calculated according to the department's Tier 2 guidance. The allowable discharge concentration is the target level which must be met adjacent to the surface water body which is the point of compliance.

(3) The target level at the point of exposure/compliance for general use segments subject to evaluation is the acutely toxic levels established by the department under 567—Chapter 61 and 567—subrule 62.8(2). If the modeled concentrations of field data at the point of exposure/compliance exceed the acutely toxic levels, modeling must be used to determine site classifications and corrective action in accordance with 135.12(455B).

f. Pathway classification. Upon completion of analysis of field data and modeled data, the pathway must be classified high risk, low risk or no further action as provided in 135.12(455B).

(1) For general use segments, as defined in 567—subrule 61.3(1), if the groundwater professional determines there is no sheen or residue present or if the site is not the source of the sheen or residue or if the sheen does not consist of petroleum-regulated substances, no further action is required for assessment of this pathway. If a petroleum-regulated substance sheen is present, the pathway is high risk and subject to classification in accordance with 135.12(455B).

(2) For designated use segments, as provided in 567—subrules 61.3(1) and 61.3(5), if projected concentrations of chemicals of concern and field data at the point of compliance do not exceed the target level adjacent to the surface water, and the groundwater professional determines there is no sheen or residue present, no further action is required for assessment of this pathway.

g. Corrective action response. Unless the pathway is classified as no further action, corrective action for this pathway must be conducted as provided in 135.12(455B). For surface water bodies failing the visual inspection criteria, corrective action must eliminate the sheen and reduce concentrations to below the site specific target level in accordance with 135.12(455B).

135.10(11) *Tier 2 submission and review procedures.*

a. Owners and operators must submit a Tier 2 site cleanup report within 180 days of the date the department approves or is deemed to approve a Tier 1 assessment report under 135.9(12). If the owner or operator has elected to conduct a Tier 2 assessment instead of a Tier 1, or a Tier 2 assessment is required due to the presence of free product under 135.7(5), the Tier 2 site cleanup report must be submitted within 180 days of the date the release was confirmed. The department may establish an alternative schedule for submittal.

b. Site cleanup report completeness and accuracy. A Tier 2 site cleanup report is considered to be complete if it contains all the information and data required by this rule and the department's Tier 2 guidance. The report is considered accurate if the information and data are reasonably reliable based first on the standards in these rules and department guidance, and second, on generally accepted industry standards.

c. The certified groundwater professional responsible for completion of the Tier 2 site assessment and preparation of the report must accompany each Tier 2 site cleanup report with a certification as set out below:

I, _____, groundwater professional certification number _____, am familiar with all applicable requirements of Iowa Code section 455B.474 and all rules and procedures adopted thereunder including, but not limited to, the Department of Natural Resources' Tier 2 guidance. Based on my knowledge of those documents and the information I have prepared and reviewed regarding this site, UST registration number _____, LUST No._____, I certify that this document is complete and accurate as provided in 135.10(11) and meets the applicable requirements of the Tier 2 site cleanup report.

Signature

Date

d. *Review.* Unless the report proposes to classify the site as no action required, the department must approve the report within 60 days for purposes of completeness or disapprove the report upon a finding of incompleteness, inaccuracy or noncompliance with these rules. If no decision is made within this 60-day period, the report is deemed to be approved for purposes of completeness. The department retains the authority to review the report at any time a no action required site classification is proposed.

e. No action required site classification review. The department will review each Tier 2 site cleanup report which proposes to classify a site as no action required to determine the data and information are complete and accurate, the data and information comply with department rules and guidance and the site classification proposal is reasonably supported by the data and information.

f. Upon approval of the Tier 2 site cleanup report or as directed by the department, owners and operators must either implement the corrective action recommendations, including any modifications required by the department, or prepare a Tier 3 site analysis. Owners and operators must monitor, evaluate, and report the results of corrective action activities in accordance with the schedule and on a form or in a format required by the department.

g. The department may, in the interest of minimizing environmental or public health risks and promoting a more effective cleanup, require owners and operators to begin cleanup of soil and groundwater before the Tier 2 site cleanup report is approved.

h. *Review of the public water supply receptor risk assessment.* Rescinded IAB 3/11/09, effective 4/15/09.

[**ARC 7621B**, IAB 3/11/09, effective 4/15/09]

567—135.11(455B) Tier 3 site assessment policy and procedure.

135.11(1) *General.* Tier 3 site assessment. Unless specifically limited by rule or an imminent hazard exists, an owner or operator may choose to prepare a Tier 3 site assessment as an alternative to completion of a Tier 2 assessment under 135.10(455B) or as an alternative to completion of a corrective action design report under 135.12(455B). Prior to conducting a Tier 3 site assessment, a groundwater professional must submit a work plan to the department for approval. The work plan must contain an evaluation of the specific site conditions which justify the use of a Tier 3 assessment, an outline of the proposed

Tier 3 assessment procedures and reporting format and a method for determining a risk classification consistent with the policies underlying the risk classification system in 135.12(455B). Upon approval, the groundwater professional may implement the assessment plan and submit a report within a reasonable time designated by the department.

135.11(2) *Tier 3 site assessment.* A Tier 3 assessment may include but is not limited to the use of more site-specific or multidimensional models and assessment data, methods for calibrating Tier 2 models to make them more predictive of actual site conditions, and more extensive assessment of receptor construction and vulnerability to contaminant impacts. If use of Tier 2 models is proposed with substitution of other site-specific data (as opposed to the Tier 2 default parameters), the groundwater professional must adequately justify how site-specific data is to be measured and why it is necessary. The groundwater professional must demonstrate that the proposal has a proven applicability to underground storage tank sites or similar conditions or has a strong theoretical basis for applicability and is not biased toward underestimating assessment results. The Tier 3 assessment report shall make a recommendation for site classification as high risk, low risk or no action required, at least two corrective action response technologies and provide justification consistent with the standards and policies underlying risk classification and corrective action response under 135.12(455B) and Iowa Code chapter 455B, Division 4, Part 8.

135.11(3) *Review and submittal.* The department will review the Tier 3 assessment for compliance with the terms of the approved work plan and based on principles consistent with these rules and Iowa Code chapter 455B, Division IV, Part 8. Upon approval of the Tier 3 assessment, the department may require corrective action in accordance with 135.12(455B).

567—135.12(455B) Tier 2 and 3 site classification and corrective action response.

135.12(1) *General.* 1995 Iowa Code section 455B.474(1)*"d"*(2) provides that sites shall be classified as high risk, low risk and no action required. Risk classification is accomplished by comparing actual field data to the concentrations that are predicted by the use of models. Field data must be compared to the simulation model which uses the maximum concentrations at a source and predicts at what levels actual or potential receptors could be impacted in the future. Field data must also be compared to the site-specific target level line which assumes a target level concentration at the point of exposure and is used to predict the reduction in concentration that must be achieved at the source in order to meet the applicable target level at the point of exposure. These models not only predict concentrations at points of exposure or a point of compliance at a source but also predict a distribution of concentrations between the source and the point of exposure which may also be points of compliance. The comparison of field data with these distribution curves primarily is considered for purposes of judging whether the modeled data is reasonably predictive and what measures such as monitoring are prudent to determine the reliability of modeled data and actual field data.

For the soil vapor to enclosed pathway and soil to plastic water line pathways, there are no horizontal transport models to use predicting future impacts. Therefore, for these pathways, sites are classified as high risk, low risk or no action based on specified criteria below and in 135.10(455B).

135.12(2) *High risk classification.* Except as provided below, sites shall be classified as high risk if, for any pathway, any actual field data exceeds the site-specific target level line at any point for an actual receptor.

a. For the soil vapor to enclosed space and soil to plastic water line pathways, sites shall be classified as high risk if the target levels for actual receptors are exceeded as provided in 135.10(7) and 135.10(9).

b. For the soil vapor or groundwater vapor to enclosed space pathways, sites shall be classified as high risk if the explosivity levels at applicable points of compliance are exceeded as provided in 135.10(6) and 135.10(7).

c. Generally, sites are classified as low risk if only potential receptor points of compliance are exceeded. The following is an exception. For the soil leaching to groundwater ingestion pathway for potential receptor conditions, the site shall be classified as high risk if the groundwater concentration(s)

exceeds the groundwater Tier 1 level for potential receptor and the soil concentration exceeds the soil leaching site-specific target level at the source.

135.12(3) *High risk corrective action response.*

a. Objectives. The primary objectives of corrective action in response to a high risk classification are both short- term and long-term. The short-term goal is to eliminate or reduce the risk of exposure at actual receptors which have been or are imminently threatened with exposure above target levels. The longer term goal is to prevent exposure to actual receptors which are not currently impacted or are not imminently threatened with exposure. To achieve these objectives, it is the intent of these rules that concentrations of applicable chemicals of concern be reduced by active remediation to levels below the site-specific target level line at all points between the source(s) and the point(s) of exposure as well as to undertake such interim corrective action as necessary to eliminate or prevent exposure until concentrations below the SSTL line are achieved. If it is shown that concentrations at all applicable points have been reduced to below the SSTL line, the secondary objective is to establish that the field data can be reasonably relied upon to predict future conditions at points of exposure rather than reliance on the modeled data. Reliance on field data is achieved by establishing through monitoring that concentrations within the contaminant plume are steady or declining. Use of institutional control and technological controls may be used to sever pathways or control the risk of receptor impacts.

b. For the soil vapor and soil to plastic water line, these objectives are achieved by active remediation of soil contamination below the target level at the point(s) of exposure or other designated point(s) of compliance using the same measurement methods for receptor evaluation under 135.10(7) and 135.10(9).

c. For a site classified as high risk or reclassified as high risk for the soil leaching to groundwater ingestion pathway, these objectives are achieved by active remediation of soil contamination to reduce the soil concentration to below the site-specific target level at the source.

d. A corrective action design report (CADR) must be submitted by a certified groundwater professional for all high risk sites unless the terms of a corrective action plan are formalized in a memorandum of agreement within a reasonable time frame specified by the department. The CADR must be submitted on a form provided by the department and in accordance with department CADR guidance within 60 days of site classification approval as provided in 135.10(11). The CADR must identify at least two principally applicable corrective action options designed to meet the objectives in 135.12(3), an outline of the projected timetable and critical performance benchmarks, and a specific monitoring proposal designed to verify its effectiveness and must provide sufficient supporting documentation consistent with industry standards that the technology is effective to accomplish site-specific objectives. The CADR must contain an analysis of its cost-effectiveness in relation to other options. The department will review the CADR in accordance with 135.12(9).

e. *Interim monitoring.* From the time a Tier 2 site cleanup report is submitted and until the department determines a site is classified as no action required, interim monitoring is required at least annually for all sites classified as high risk. Groundwater samples must be taken: (1) from a monitoring well at the maximum source concentration; (2) from a transition well, meaning a monitoring well with detected levels of contamination closest to the leading edge of the groundwater plume as defined to the pathway-specific target level, and between the source(s) and the point(s) of exposure; and (3) from a guard well, meaning a monitoring well between the source(s) and the point(s) of exposure with concentrations below the SSTL line. If a receptor is located within an actual plume contoured to the applicable target level for that receptor, the point of exposure must be monitored. If concentrations at the receptor already exceed the applicable target level for that receptor, corrective actions must be implemented as soon as practicable. Monitoring conducted as part of remediation or as a condition of establishing a no action required classification may be used to the extent it meets these criteria. Soil monitoring is required at least annually for all applicable pathways in accordance with 135.12(5)*"d."* All drinking water wells and non-drinking water wells within 100 feet of the largest actual plume (defined to the appropriate target level for the receptor type) must be tested annually for chemicals of concern. Actual plumes refer to groundwater plumes for all chemicals of concern.

f. Remediation monitoring. Remediation monitoring during operation of a remediation system is required at least four times each year to evaluate effectiveness of the system. A remediation monitoring schedule and plan must be specified in the corrective action design report and approved by the department.

g. Technological controls. The purpose of a technological control is to effectively sever a pathway by use of technologies such that an applicable receptor could not be exposed to chemicals of concern above an applicable target risk level. Technological controls are an acceptable corrective action response either alone or in combination with other remediation systems. The purpose of technological controls may be to control plume migration through use of containment technologies, barriers, etc., both as an interim or permanent corrective action response or to permanently sever a pathway to a receptor. Controls may also be appropriate to treat or control contamination at the point of exposure. Any technological control proposed as a permanent corrective action option without meeting the reduction in contaminant concentrations objectives must establish that the pathway to a receptor will be permanently severed or controlled. The effectiveness of a technological control must be monitored under a department approved plan until concentrations fall below the site-specific target level line or its effectiveness as a permanent response is established, and no adverse effects are created.

h. Following completion of corrective action, the site must meet exit monitoring criteria to be reclassified as no action required as specified in 135.12(6)*"b."* At any point where an institutional or technological control is implemented and approved by the department, the site may be reclassified as no action required consistent with 135.12(6).

135.12(4) *Low risk classification.* A site shall be classified as low risk if none of the pathways are high risk and if any of the pathways are low risk. A pathway shall be classified low risk if it meets one of the following conditions:

a. For actual and potential receptors, if the modeled data and the actual field data are less than the site-specific target level line, and any of the field data is greater than the simulation line.

b. For potential receptors, if any actual field data exceeds the site-specific target level line at any point.

c. For the soil leaching to groundwater ingestion pathway where modeling predicts that the Tier 1 levels for potential receptors would be exceeded in groundwater at applicable potential receptor points of compliance and the soil concentration exceeds the soil leaching to groundwater site-specific target level but groundwater concentrations are currently below the Tier 1 level for potential receptors, the site shall be initially classified as low risk and subject to monitoring under 135.12(5)*"d"*(2). If at any time during the three-year monitoring period, groundwater concentrations exceed the Tier 1 level for potential receptors, the site shall be classified as high risk requiring soil remediation in accordance with 135.12(3)*"c."*

135.12(5) *Low risk corrective action response.*

a. Purpose. For sites or pathways classified as low risk, the purpose of monitoring is to determine if concentrations are decreasing such that reclassification to no action required may be appropriate or if concentrations are increasing above the site-specific target level line such that reclassification to high risk is appropriate. Monitoring is necessary to evaluate impacts to actual receptors and assess the continued status of potential receptor conditions. Low risk monitoring shall be conducted and reported by a certified groundwater professional.

b. For sites or pathways classified as low risk, provide a best management practices plan. The plan must include maintenance procedures, schedule of activities, prohibition of practices, and other management practices, or a combination thereof, which, after problem assessment, are determined to be the most effective means of monitoring and preventing additional contamination of the groundwater and soil. The plan will also contain a contamination monitoring proposal containing sufficient sampling points to ensure the detection of any significant movement of or increase in contaminant concentration.

c. Groundwater monitoring. For groundwater pathways, samples must be taken at a minimum of once per year: (1) from a monitoring well at the maximum source concentration; (2) a transitional well meaning a well with detected levels of contamination closest to the leading edge of the groundwater plume as defined to the pathway-specific target level and between the source and the receptor; and (3) a

guard well meaning a monitoring well between the source and the point of exposure with concentrations below the SSTL line. (NOTE: Monitoring under this provision may be used to satisfy exit monitoring if it otherwise meets the criteria in 135.12(6).)

d. Soil monitoring.

(1) For the soil vapor to enclosed space pathway potential receptors, soil gas samples must be taken at a minimum of once per year in the area(s) of expected maximum vapor concentrations where an institutional control is not in place.

(2) For the soil leaching to groundwater pathway potential receptors, annual groundwater monitoring is required for a minimum of three years as provided in *"c"* above. If groundwater concentrations are below the applicable SSTL line for all three years and a final soil sample taken from the source shows no significant vertical movement, no further action is required. If groundwater concentrations exceed the applicable SSTL line in any of the three years, corrective action is required to reduce soil concentrations to below the Tier 1 levels for soil leaching to groundwater. Therefore, annual monitoring of soil is not applicable.

(3) For the soil to plastic water line pathway potential receptors, notification of the utility company is required. Notification will result in reclassification to no action required. Therefore, annual monitoring of soil is not applicable.

e. Receptors must be evaluated at least annually to ensure no actual or modeled data are above the site-specific target level line for any actual receptors. Potential receptor areas of concern must be evaluated at least annually and the presence of no actual receptors confirmed. If actual receptors are present or reasonably expected to be brought into existence, the owner or operator must report this fact to the department as soon as practicable. Annual monitoring which also meets the exit criteria under 135.12(6) may be used for that purpose.

f. The site or pathway must meet exit monitoring criteria to be reclassified as no action required as specified in 135.12(6)*"b."* If concentrations for actual receptors increase above the site-specific target level line or potential receptor status changes to actual receptor status, the site must be reclassified as high risk and further corrective action required in accordance with 135.12(3).

135.12(6) *No action required classification.* A site shall be classified as no action required if all of the pathways are classified as no action required as provided below:

a. Soil pathways shall be classified as no action required if samples are less than the applicable target levels as defined for each pathway and confirmational sampling requirements have been met.

b. For initial classification, groundwater pathways shall be classified as no action required if the field data is below the site-specific target level line and all field data is at or less than the simulation line, and confirmation monitoring has been completed successfully. Confirmation sampling for groundwater and soil is a second sample which confirms the no action required criteria.

c. For reclassification from high or low risk, a pathway shall be classified as no action required if all field data is below the site-specific target level line and if exit monitoring criteria have been met. Exit monitoring criteria means the three most recent consecutive groundwater samples from all monitoring wells must show a steady or declining trend and the most recent samples are below the site-specific target level line. Other criteria include the following: The first of the three samples for the source well and transition well must be more than detection limits; concentrations cannot increase more than 20 percent from the first of the three samples to the third sample; concentrations cannot increase more than 20 percent of the previous sample; and samples must be separated by at least six months.

d. Confirmation sampling for soil gas and indoor vapor. For the enclosed space pathways, confirmation sampling is required to reasonably establish that the soil gas and indoor vapor samples represent the highest expected levels. A groundwater professional must obtain two samples taken at least two weeks apart. One of the samples must be taken during a seasonal period of lowest groundwater elevation and soil gas samples must be taken below the frost line.

e. Upon site classification as no action required, all groundwater monitoring wells must be properly plugged in accordance with 567—Chapters 39 and 49 unless the department requires selected wells to be maintained or written approval to maintain the well is obtained by the department.

135.12(7) *Reclassification.* Any site or pathway which is classified as high risk may be reclassified to low risk if in the course of corrective action the criteria for low risk classification are established. Any site or pathway which is classified as low risk may be reclassified to high risk if in the course of monitoring the conditions for high risk classification are established. Sites subject to department-approved institutional or technological controls are classified as no action required if all other criteria for no action required classification are satisfied.

135.12(8) *Use of institutional and technological controls.*

a. Purpose. The purpose of an institutional control is to restrict access to or use of property such that an applicable receptor could not be exposed to chemicals of concern for as long as the target level is exceeded at applicable points of exposure and compliance. Institutional controls include:

1. A law of the United States or the state;
2. A regulation issued pursuant to federal or state laws;
3. An ordinance or regulation of a political subdivision in which real estate subject to the institutional control is located;
4. An environmental covenant as provided in 2005 Iowa Code Supplement section 455B.474(1)*"f"*(4)(f) and in accordance with the provisions of 2005 Iowa Code Supplement chapter 455I and 567—Chapter 14;
5. Any other institutional control the owner or operator can reasonably demonstrate to the department will reduce the risk from a release throughout the period necessary to ensure that no applicable target level is likely to be exceeded.

b. Modification or termination of institutional and technological controls. At a point when the department determines that an institutional or technological control has been removed or is no longer effective for the purpose intended, regardless of the issuance of a no further action certification or previous site classification, it may require owners and operators to undertake such reevaluation of the site conditions as necessary to determine an appropriate site classification and corrective action response. If the owner or operator is in control of the affected property, the department may require reimplementation of the institutional or technological control or may require a Tier 2 assessment of the affected pathway(s) be conducted to reevaluate the site conditions and determine alternative corrective action response. An owner or operator subject to an institutional or technological control may request modification or termination of the control by conducting a Tier 2 assessment of the affected pathway or conduct such other assessment as required by the department to establish that the control is no longer required given current site conditions.

c. If the owner or operator is not in control of the affected property or cannot obtain control and the party in control refuses to continue implementation of an institutional control, the department may require the owner or operator to take such legal action as available to enforce institution of the control or may require the owner or operator to undertake a Tier 2 assessment to determine site classification and an alternative corrective action response. If a person in control of the affected property appears to be contractually obligated to maintain an institutional or technological control, the department may, but is not required to, attempt enforcement of the contractual obligation as an alternative to requiring corrective action by the owner or operator.

d. If a site is classified no action required, subject to the existence of an institutional control or technological control, the holder of the fee interest in the real estate subject to the institutional control or technological control may request, at any time, that the department terminate the institutional control or technological control requirement. The department shall terminate the requirement for an institutional control if the holder demonstrates by completion of a Tier 2 assessment of the applicable pathway or other assessment as required by the department that the site conditions warranting the control no longer exist and that the site or pathway has met exit criteria for no action required classification under 135.12(6).

135.12(9) *Corrective action design report submission and review procedures.*

a. Owners and operators must submit a corrective action design report (CADR) within 60 days of the date the department approves or is deemed to approve a Tier 2 assessment report under 135.10(11) or a Tier 3 assessment is to be conducted. The department may establish an alternative schedule for submittal. As an alternative to submitting a CADR, owners or operators may participate in a corrective action

meeting process to develop a corrective action plan which would be incorporated into a memorandum of agreement or other written agreement approved by the department. Owners or operators shall implement the terms of an approved CADR, memorandum of agreement or other corrective action plan agreement.

b. Corrective action design report completeness and accuracy. A CADR is considered to be complete if it contains all the information and data required by this rule and the department's guidance. The report is considered accurate if the information and data are reasonably reliable based first on the standards in these rules and department guidance, and second, on generally accepted industry standards.

c. The certified groundwater professional responsible for completion of the CADR must provide the following certification with the CADR:

I, _____, groundwater professional certification number _____, am familiar with all applicable requirements of Iowa Code section 455B.474 and all rules and procedures adopted thereunder including, but not limited to, the Department of Natural Resources' guidance and specifications for corrective action design reports. Based on my knowledge of those documents and the information I have prepared and reviewed regarding this site, UST registration number _____, LUST No._____, I certify that this document is complete and accurate as provided in 135.12(9) and meets the applicable requirements of the corrective action design report, and that the recommended corrective action can reasonably be expected to meet its stated objectives.

Signature

Date

d. *Review.* Unless the report proposes to classify the site as no action required, the department must approve the report within 60 days for purposes of completeness or disapprove the report upon a finding of incompleteness, inaccuracy or noncompliance with these rules. If no decision is made within this 60-day period, the report is deemed to be approved for purposes of completeness. The department retains the authority to review the report at any time a no action required site classification is proposed. Owners or operators who fail to implement actions or meet the activity schedule in a memorandum of agreement resulting from a corrective action meeting or other written corrective action plan agreement or who fail to implement the actions or schedule outlined in an approved CADR are subject to legal action.

e. No action required site classification review. The department will review each CADR which proposes to classify a site as no action required to determine the data and information are complete and accurate, the data and information comply with department rules and guidance and the site classification proposal is reasonably supported by the data and information.

135.12(10) *Monitoring certificates and no further action certificates.*

a. Monitoring certificate. The department of natural resources will issue a monitoring certificate to the owner or operator of an underground storage tank from which a release has occurred, the current property owner, or other responsible party who has undertaken the corrective action warranting issuance of the certificate. Sites classified as low risk or sites classified as high risk/monitoring shall be eligible for a monitoring certificate. The monitoring certificate will be valid until the site is reclassified to a high risk requiring active remediation or no action required site. A site which has been issued a monitoring certificate shall not be eligible to receive a certificate evidencing completion of remediation until the site is reclassified as no action required. The monitoring certificate will be invalidated and the site reclassified to high risk if it is determined by the department that the owner of the site is not in compliance with the requirements specified in the monitoring certificate.

b. No further action certificate. The department will issue a no further action certificate to an owner or operator of an underground storage tank from which a release has occurred, the current property owner or other responsible party who has undertaken the corrective action warranting classification of the site as no action required. The person requesting the certificate shall provide the department with an accurate legal description of the property on which the underground storage tanks are or were formerly located. The following conditions apply:

(1) The site has been determined by a certified groundwater professional to not present an unreasonable risk to the public health and safety or the environment;

(2) A person issued the certificate or a subsequent purchaser of the site cannot be required to perform further corrective action solely because action standards are changed at a later date. Action standards refer to applicable site-specific standards under this rule;

(3) The certificate shall not prevent the department from ordering remediation of a new release or a release of a regulated substance from an unregulated tank;

(4) The certificate will not constitute a warranty of any kind to any person as to the condition, marketability or value of the described property;

(5) The certificate shall reflect any institutional control utilized to ensure compliance with any applicable Tier 2 level; and may include a notation that the classification is based on the fact that designated potential receptors are not in existence;

(6) The certificate shall be in a form which is recordable in accordance with Iowa Code section 558.1 et seq. and substantially in the form as provided in Appendix C.

c. The department shall modify any issued no further action certificates containing institutional controls once the owner, operator or their successor or assign has demonstrated that the institutional control is no longer necessary to meet the applicable Tier 2 level as provided in 135.12(10).

135.12(11) *Expedited corrective action.* An owner, operator or responsible party of a site at which a release of regulated substance is suspected to have occurred may carry out corrective actions at the site so long as the department receives notice of the expedited cleanup activities within 30 calendar days of their commencement; the owner, operator, or responsible party complies with the provisions of these rules; and the corrective action does not include active treatment of groundwater other than:

a. As previously approved by the department; or

b. Free product recovery pursuant to subrule 135.7(5).

c. Soil excavation. When undertaking excavation of contaminated soils, adequate field screening methods must be used to identify maximum concentrations during excavation. At a minimum one soil sample must be taken for field screening every 100 square feet of the base and each sidewall. Soil samples must be taken for laboratory analysis at least every 400 square feet of the base and each sidewall of the excavated area to confirm remaining concentrations are below Tier 1 levels. If the excavation is less than 400 square feet, a minimum of one sample must be analyzed for each sidewall and the base. The owner or operator must maintain adequate records of the excavation area to document compliance with this procedure unless submitted to the department and must provide it to the department upon request.

567—135.13(455B) Public participation.

135.13(1) For each confirmed release that is classified as high or low risk, the department must provide notice to the public by means designated to reach those members of the public directly affected by the release and the recommended corrective action response. This notice may include, but is not limited to, public notice in local newspapers, block advertisements, public service announcements, publication in a state register, letters to individual households, or personal contacts by the staff.

135.13(2) The department must ensure site release information and decisions concerning the Tier 1 assessment report, Tier 2 and Tier 3 site cleanup reports are made available to the public for inspection upon request.

135.13(3) Before approving the Tier 2 or Tier 3 site cleanup report, the department may hold a public meeting to consider comments on the proposed corrective action response if there is sufficient public interest, or for any other reason.

135.13(4) The department must give a public notice that complies with subrule 135.13(1) above if the implementation of the approved Tier 2 or Tier 3 site cleanup report does not achieve the established cleanup levels in the report and the termination of that report is under consideration by the department.

567—135.14(455B) Action levels. The following corrective action levels apply to petroleum regulated substances as regulated by this chapter. These action levels shall be used to determine if further corrective action under 135.6(455B) through 135.12(455B) or 135.15(455B) is required as the result of tank closure sampling under 135.15(3) or other analytical results submitted to the department. The contaminant concentrations must be determined by laboratory analysis as stated in 135.16(455B). Final

cleanup determination is not limited to these contaminants. The contamination corrective action levels are:

	Soil (mg/kg)	Groundwater (ug/L)
Benzene	0.54	5
Toluene	42	1,000
Ethylbenzene	15	700
Xylenes	No limit	10,000
Total Extractable Hydrocarbons	3,800	1,200

567—135.15(455B) Out-of-service UST systems and closure.

135.15(1) *Temporary closure.*

a. When a UST system is temporarily closed, owners and operators must continue operation and maintenance of corrosion protection in accordance with 135.4(2), any release detection in accordance with rule 135.5(455B), and financial responsibility in accordance with 567—Chapter 136. Rules 135.6(455B) to 135.12(455B) must be complied with if a release is suspected or confirmed. However, release detection is not required as long as the UST system is empty. The UST system is empty when all materials have been removed using commonly employed practices so that no more than 2.5 centimeters (1 inch) of residue, or 0.3 percent by weight of the total capacity of the UST system, remain in the system.

b. When a UST system is temporarily closed for three months or more, owners and operators must notify the department in writing of the temporary closure and comply with the following requirements:

(1) Leave vent lines open and functioning; and

(2) Cap and secure all other lines, pumps, accesses, and ancillary equipment.

c. When a UST system is temporarily closed for more than 12 months, owners and operators must return the tank tags and permanently close the UST system if it does not meet either the performance standards in 135.3(1) for new UST systems or the upgrading requirements in 135.3(2), except that the spill and overfill equipment requirements do not have to be met. Owners and operators must permanently close the substandard UST systems at the end of this 12-month period in accordance with 135.15(2) to 135.15(5), unless the department provides an extension of the 12-month temporary closure period. Owners and operators must complete a site assessment in accordance with 135.15(3) before such an extension can be applied for.

135.15(2) *Permanent closure and changes-in-service.*

a. At least 30 days before beginning either permanent closure or a change-in-service under paragraphs *"b"* and *"c"* below, owners and operators must notify the department of their intent to permanently close or make the change-in-service. An owner or operator must seek prior approval to permanently close a tank in a time frame shorter than the 30-day notice. The required assessment of the excavation zone under 135.15(3) must be performed after notifying the department but before completion of the permanent closure or a change-in-service.

b. To permanently close a tank or piping, owners and operators must empty and clean them by removing all liquids and accumulated sludge. All tanks taken out of service permanently must also be either removed from the ground or filled with an inert solid material. Piping must either be removed from the ground or have the ends plugged with an inert solid material.

When permanently closing a tank by filling with inert solid material, the tank may not be filled until a closure report is approved by the department. The tank must be filled within 30 days after department approval. The owner and operator must notify the department within 15 days after filling the tank with inert solid material.

c. Continued use of a UST system to store a nonregulated substance is considered a change-in-service. Before a change-in-service, owners and operators must empty and clean the tank by removing all liquid and accumulated sludge and conduct a site assessment in accordance with 135.15(3).

d. Permanent closure procedures must be followed in the replacement of tanks or piping. Notification must be made using DNR Form 542-1308, "Notification of Tank Closure or Change-in-Service." The form must include the date scheduled for the closure. Oral confirmation of the closure date must be given to the DNR field office 24 hours prior to the actual closure. The required assessment of the excavation zone under 139.15(3) must be performed after notifying the department but before completion of the permanent closure or change-in-service.

NOTE: The following cleaning and closure procedures may be used to comply with subrule 135.15(2): American Petroleum Institute Recommended Practice 1604, "Removal and Disposal of Used Underground Petroleum Storage Tanks"; American Petroleum Institute Publication 2015, "Cleaning Petroleum Storage Tanks"; American Petroleum Institute Recommended Practice 1631, "Interior Lining of Underground Storage Tanks," may be used as guidance for compliance with this subrule; and the National Institute for Occupational Safety and Health "Criteria for a Recommended Standard . . . Working in Confined Space" may be used as guidance for conducting safe closure procedures at some hazardous substance tanks.

135.15(3) *Assessing the site at closure or change-in-service.*

a. Before permanent closure or a change-in-service is completed, owners or operators must measure for the presence of a release where contamination is most likely to be present at the UST site. This soil and groundwater closure investigation must be conducted or supervised by a groundwater professional certified under 567—Chapter 134, Part A, unless the department in its discretion grants an exemption and provides direct supervision of the closure investigation. In selecting the sample types, sample locations, and measurement methods, owners and operators must consider the method of closure, the nature of the stored substance, the type of backfill, the depth to groundwater, and other factors appropriate for identifying the presence of a release.

At UST sites with a history of petroleum storage, soil and groundwater samples shall in every case be analyzed for benzene, toluene, ethylbenzene, and xylenes (BTEX) with each compound reported separately in accordance with 135.16(455B). If there has been a history or suspected history of petroleum storage other than gasoline or gasoline blends (i.e., all grades of diesel fuels, fuel oil, kerosene, oil and mineral spirits), or such storage history is unknown or uncertain, soil and groundwater samples shall also be analyzed for total extractable hydrocarbons in accordance with 135.16(455B).

All such samples shall be collected separately and shipped to a laboratory certified under 567—Chapter 42, Part C, within 72 hours of collection. Samples shall be refrigerated and protected from freezing during shipment to the laboratory.

When a UST is removed from an area of confirmed contamination, the department may waive closure sampling if written documentation is submitted with the closure notification. Documentation should include laboratory analytical reports and a site map showing tank and piping locations along with contamination plume and sampling locations.

b. For all permanent tank and piping closures or changes-in-service, at least one water sample must be taken from the first saturated groundwater zone via a monitoring well or borehole except as provided in paragraph *"g."* The well or borehole must be located downgradient from and as close as possible to the excavation but no farther away than 20 feet.

If, however, the first saturated groundwater zone is not encountered within 10 feet below the lowest elevation of the tank excavation, the requirement for groundwater sampling shall not apply unless:

(1) Sands or highly permeable soils are encountered within 10 feet below the lowest level of the tank excavation which together with the underlying geology would, in the judgment of the department, pose the reasonable possibility that contamination may have reached groundwaters deeper than 10 feet below the lowest level of the tank excavation. The method of determining highly permeable soil is found in the departmental guidance documents entitled "Underground Storage Tank Closure Procedures for Tank and Piping Removal" and "Underground Storage Tank Closure for Filling in Place."

(2) Indications of potential groundwater contamination, including petroleum products in utility lines, petroleum products in private wells, petroleum product vapors in basements or other structures, occur in the area of the tank installation undergoing closure or change-in-service.

c. For permanent closure by tank removal, the departmental guidance document entitled "Underground Storage Tank Closure Procedures for Tank and Piping Removal" must be followed. The minimum number of soil samples that must be taken depends on the tank size and length of product piping. Samples must be taken at a depth of 1 to 2 feet beneath the tank fill area below the base of the tank along the tank's centerline. Soil samples must also be taken at least every 10 feet along the product piping at a depth of 1 to 2 feet beneath the piping fill area below the piping.

If sands or other highly permeable soils are encountered, alternative sampling methods may be required.

If contamination is suspected or found in any area within the excavation (i.e., sidewall or bottom), a soil sample must be taken at that location.

The numbers of samples required for tanks are as follows:

Nominal Tank Capacity (gallons)	Number of Samples	Location on Centerline
1,000 or less	1	center of tank
1,001 - 8,000	2	1/3 from ends
8,001 - 30,000	3	5 feet from ends and at center of tank
30,001 - 40,000	4	5 and 15 feet from ends
40,001 and more	5	5 and 15 feet from ends and at center of tank

d. For closing a tank in place by filling with an inert solid material or for a change-in-service, the departmental guidance document entitled "Underground Storage Tank Closure for Filling in Place" must be followed. The minimum number of soil borings required for sampling depends on the size of the tank and the length of the product piping. Soil samples must be taken within 5 feet of the sides and ends of the tank at a depth of 2 to 4 feet below the base of the tank, but outside the backfill material, at equal intervals around the tank. Soil samples must also be taken at least every 10 feet along the product piping at a depth of 1 to 2 feet beneath the piping fill area below the piping. If sands or other highly permeable soils are encountered, alternative sampling methods may be required.

The minimum numbers of soil borings and samples required are as follows:

Nominal Tank Capacity (gallons)	Number of Samples	Location of Samples
6,000 or less	4	1 each end and each side
6,001 - 12,000	6	1 each end and 2 each side
12,001 or more	8	1 each end and 3 each side

e. A closure report must be submitted to the department within 45 days of the tank removal or sampling for a closure in place. The report must include all laboratory analytical reports, soil boring and well or borehole construction details and stratigraphic logs, and a dimensional drawing showing location and depth of all tanks, piping, sampling, and wells or boreholes, and contaminated soil encountered. The tank tags must be returned with the closure report.

f. The requirements of this subrule are satisfied if one of the external release detection methods allowed in 135.5(4)*"e"* and *"f"* is operating in accordance with the requirements in 135.5(4) at the time of closure and indicates no release has occurred.

g. If contaminated soils, contaminated groundwater, or free product as a liquid or vapor is discovered during the site assessment or by any other manner, contact the department in accordance with 135.6(1). Normal closure procedures no longer apply. Owners and operators must begin corrective action in accordance with rules 135.7(455B) to 135.12(455B).

Identification of free product requires immediate response in accordance with 135.7(5). If contamination appears extensive or the groundwater is known to be contaminated, a full assessment of the contamination will be required. When a full assessment is required or anticipated, collection of the

required closure samples is not required. If contamination appears limited to soils, overexcavation of the contaminated soils in accordance with 135.15(4) may be allowed at the time of closure.

135.15(4) *Overexcavation of contaminated soils at closure.*

a. If contaminated soils are discovered while assessing a site at closure in accordance with 135.15(3), owners and operators may overexcavate up to one foot of the contaminated soils surrounding the tank pit. The contamination and overexcavation must be reported to the department in accordance with the requirements of 135.6(4)*"a"* prior to backfilling the excavation. If excavation is limited to one foot of contaminated soils, a soil sample shall be taken and laboratory analyzed in accordance with 135.16(455B) from the area showing the greatest contamination. Any overexcavation of contaminated soils beyond one foot of contaminated soils is considered expedited corrective action and must be conducted by a certified groundwater professional in accordance with the procedures in 135.12(11).

b. Excavated contaminated soils must be properly disposed in accordance with 567—Chapters 100, 101, 102, 120, and 121, Iowa Administrative Code.

c. A report must be submitted to the department within 30 days of completion of the laboratory analysis. The report must include the requirements of 135.15(3)*"e"* and a dimensional drawing showing the depth and area of the excavation prior to and after overexcavation. The area of contamination must be shown.

135.15(5) *Applicability to previously closed UST systems.* When directed by the department, the owner and operator of a UST system permanently closed before October 24, 1988, must assess the excavation zone and close the UST system in accordance with this rule if releases from the UST may, in the judgment of the department, pose a current or potential threat to human health and the environment.

135.15(6) *Closure records.* Owners and operators must maintain records in accordance with 135.4(5) that are capable of demonstrating compliance with closure requirements under this rule. The results of the excavation zone assessment required in 135.15(3) must be maintained for at least three years after completion of permanent closure or change-in-service in one of the following ways:

a. By the owners and operators who took the UST system out of service;

b. By the current owners and operators of the UST system site; or

c. By mailing these records to the department if they cannot be maintained at the closed facility.

135.15(7) *Applicability to pre-1974 USTs.* The closure provisions of rule 135.15(455B) are not applicable to USTs which have been out of operation as of January 1, 1974. For purposes of this subrule, out of operation means that no regulated substance has been deposited into or dispensed from the tanks and that the tanks do not currently contain an accumulation of regulated substances other than a de minimus amount as provided in 135.15(1)*"a."*

Owners and operators or other interested parties are not required to submit documentation that USTs meet the exemption conditions and may rely on this subrule as guidance. However, should a question arise as to whether USTs meet the exemption, or owners and operators or other interested parties request acknowledgment by the department that USTs are exempt, they must submit an affidavit on a form provided by the department. The affiant must certify that based on a reasonable investigation and to the best of the affiant's knowledge, the USTs were taken out of operation prior to January 1, 1974, the USTs have not contained a regulated substance since January 1, 1974, and the USTs do not currently contain an accumulation of regulated substances.

If the department has a reasonable basis to suspect a release has occurred, the release investigation and confirmation steps of subrule 135.8(1) and the corrective action requirements as provided in 135.7(455B) to 135.8(455B) shall apply.

[**ARC 8124B**, IAB 9/9/09, effective 10/14/09]

567—135.16(455B) Laboratory analytical methods for petroleum contamination of soil and water.

135.16(1) *General.* When having soil or water analyzed for petroleum or hazardous substances, owners and operators of UST systems must use a laboratory certified under 567—Chapter 83. In addition they must ensure that all soil and groundwater samples are properly preserved and shipped within 72 hours of collection to a laboratory certified under 567—Chapter 83, for UST petroleum analyses. This

rule provides acceptable analytical procedures for petroleum substances and required information that must be provided in all laboratory reports.

135.16(2) *Laboratory report.* All laboratory reports must contain the following information:

a. Laboratory name, address, telephone number and Iowa laboratory certification number. If analytical work is subcontracted to another laboratory, the analytical report from the certified lab which analyzed the sample must be submitted and include the information required in this subrule.

b. Medium sampled (soil, water).

c. Client submitting sample (name, address, telephone number).

d. Sample collector (name, telephone number).

e. UST site address.

f. Clients sample location identifier.

g. Date sample was collected.

h. Date sample was received at laboratory.

i. Date sample was analyzed.

j. Results of analyses and units of measure.

k. Detection limits.

l. Methods used in sample analyses (preparation method, sample detection method, and quantitative method).

m. Laboratory sample number.

n. Analyst name.

o. Signature of analyst's supervisor.

p. Condition in which the sample was received at the laboratory and whether it was properly sealed and preserved.

q. Note that analytical results are questionable if a sample exceeded an established holding time or was improperly preserved. (The recommended holding time for properly cooled and sealed petroleum contaminated samples is 14 days, except for water samples containing volatile organic compounds which have a 7-day holding time unless acid-preserved.)

r. Laboratory reports required by this chapter for tank closure investigations under 135.15(455B) and site checks under 135.6(3) or Tier 1 or Tier 2 assessments under 135.9(455B) to 135.11(455B) must include a copy of the chromatograms and associated quantitation reports for the waste oil, diesel and gasoline standard used by the laboratory in analyzing submitted samples. The laboratory analytical report for each sample must state whether the sample tested matches the laboratory standard for waste oil, diesel or gasoline or that the sample cannot be reliably matched with any of these standards. A copy of the chromatograms and associated quantitation reports for only the soil and groundwater samples with the maximum concentrations of BTEX and TEH must be included.

135.16(3) *Analysis of soil and water for high volatile petroleum compounds (i.e., gasoline, benzene, ethylbenzene, toluene, xylene).* Sample preparation and analysis shall be by Method OA-1, "Method for Determination of Volatile Petroleum Hydrocarbons (gasoline)," revision 7/27/93, University Hygienic Laboratory, Iowa City, Iowa. This method is based on U.S. EPA methods 5030, 8000, and 8015, SW-846, "Test Methods for Evaluating Solid Waste," 3rd Edition. Copies of Method OA-1 are available from the department.

135.16(4) *Analysis of soil and water for low volatile petroleum hydrocarbon contamination (i.e., all grades of diesel fuel, fuel oil, kerosene, oil, and mineral spirits).* Sample preparation and analysis shall be by Method OA-2, "Determination of Extractable Petroleum Products (and Related Low Volatility Organic Compounds)," revision 7/27/93, University Hygienic Laboratory, Iowa City, Iowa. This method is based on U.S. EPA methods 3500, 3510, 3520, 3540, 3550, 8000, and 8100, SW-846, "Test Methods for Evaluating Solid Waste," 3rd Edition. Copies of Method OA-2 are available from the department.

135.16(5) *Analysis of soil gas for volatile petroleum hydrocarbons.* Analysis of soil gas for volatile petroleum hydrocarbons shall be conducted in accordance with the National Institute for Occupational Safety and Health (NIOSH) Method 1501, or a department-approved equivalent method.

567—135.17(455B) Evaluation of ability to pay.

135.17(1) General. The ability to pay guidance procedures referenced in this rule will be used by the department when an owner or operator of an underground storage tank (UST) claims to be financially unable to comply with corrective action requirements under 135.7(455B) to 135.12(455B) or closure investigation requirements under 135.15(455B). If an owner or operator of a regulated UST claims to be financially unable to meet these departmental requirements, that responsible party must provide documentation of the party's finances on forms provided by the department in order for the department to act on the claim of financial inability. The department may request additional financial documentation to verify or supplement reported information.

135.17(2) Individual claims. The financial ability of individual owners and operators of USTs, with or without an active business (including but not limited to sole proprietorships and general partnerships), shall be evaluated using the "Individual Ability to Pay Guidance" document dated June 19, 1992, and generally accepted principles of financial analysis. This guidance is only one tool the department may use in evaluating claims of financial inability.

135.17(3) Corporate claims. The financial ability of corporate owners and operators of USTs shall be evaluated using the June 1992 version of "ABEL" developed by the U.S. Environmental Protection Agency and generally accepted principles of financial analysis. This guidance is only one tool the department may use in evaluating claims of financial inability.

135.17(4) Federal LUST Trust Fund. The financial ability of owners and operators of USTs shall be evaluated for the purpose of determining if the department is authorized to use Federal LUST Trust Fund moneys as provided in the current cooperative agreement with the U.S. Environmental Protection Agency, Region VII. A determination of financial inability does not create an entitlement or any expectation interest on behalf of an owner or operator that Federal LUST Trust Fund moneys will be used for corrective action at any individual site.

135.17(5) The evaluation of financial ability will also be used by the department in making other administrative planning decisions including but not limited to decisions as to whether to pursue and when to pursue administrative or judicial enforcement of regulatory and statutory duties and the assessment of penalties. A determination of financial inability does not create an entitlement or expectation interest that enforcement actions will be deferred or suspended. The evaluation of this factor is only one of many affecting the department's fully discretionary decisions regarding enforcement options and program planning.

135.17(6) An evaluation of financial inability as provided in this rule does not relieve any owner or operator of legal liability to comply with department rules or Iowa Code chapter 455B or provide a defense to any legal actions to establish liability or enforce compliance.

567—135.18(455B) Transitional rules.

135.18(1) *Transitional rules.* Guidance for implementing these transitional rules is contained in the department's guidance entitled "Transition Policy Statement" dated June 6, 1996.

135.18(2) *Site cleanup reports and corrective action design reports accepted before August 15, 1996.* Any owner or operator who had a site cleanup report or corrective action design report approved by the department before August 15, 1996, may elect to submit a Tier 1 Site Assessment or Tier 2 Site Cleanup Report to the department. If the owner, operator, or responsible party so elects, the site shall be assessed, classified, and, if necessary, remediated, in accordance with the rules of the department as of August 15, 1996. To the extent that data collected for the site cleanup report does not include all information necessary for the Tier 1 Site Assessment or Tier 2 Site Cleanup Report, the owner or operator shall utilize the default parameters set out in subrule 135.18(4) or provide site-specific parameters.

135.18(3) *Site cleanup reports in the process of preparation or review prior to August 15, 1996.* The department will complete a Tier 1 or a Tier 2 risk analysis for any site cleanup report received but not approved by the department by November 15, 1996. To the extent that data collected for the site cleanup report does not include all information necessary for the Tier 2 site cleanup report and the owner or operator elects to not complete a Tier 2 site cleanup report the department shall utilize the default

parameters set out in subrule 135.18(4). If the owner or operator wishes that site-specific data, rather than any default parameter, be used, the owner or operator shall notify the department by October 15, 1996, or in accordance with a schedule specified by the department. Following notification, the owner or operator shall be responsible for preparation of the Tier 1 site assessment or Tier 2 site cleanup report.

135.18(4) *Default parameters for use in converting a site cleanup report to a Tier 2 site cleanup report.*

a. As to sites for which the owner or operator has collected and submitted only TPH ("total petroleum hydrocarbons") data regarding soil contamination, TPH levels shall be converted to a risk associated factor by using: (1) previously acquired data regarding benzene, toluene, ethyl benzene, and xylenes data for the samples; (2) newly collected benzene, toluene, ethylbenzene, and xylenes data for the site; or (3) the assumptions that 1 percent of the total petroleum hydrocarbon (TPH) is benzene, 7 percent of the TPH is toluene, 2 percent of the TPH is ethylbenzene, and 8 percent of the TPH is xylenes.

b. As to sites for which the owner or operator has, to date, submitted only TEH ("total extractable hydrocarbons") data regarding soil contamination, TEH levels should be converted to a risk-associated factor by using: (1) previously acquired benzene, toluene, ethylbenzene and xylenes data for the samples; (2) newly collected benzene, toluene, ethylbenzene and xylenes data for the site; or (3) the assumption that 0.004 percent of the TEH is benzene, 0.05 percent of the TEH is toluene, 0.03 percent of the TEH is ethylbenzene and 0.3 percent of the TEH is xylenes. In addition, TEH levels should be compared to the TEH default levels in the Tier 1 Table. If, as of August 15, 1996, only TEH data for soil is available, and it does not exceed Tier 1 levels, additional sampling for TEH in groundwater is not required. Otherwise, groundwater samples must be collected and analyzed for TEH in accordance with 135.8(3).

c. Data required for preparing a Tier 2 site cleanup report shall be taken from the site cleanup report. If the site cleanup report lacks any of the data, site-specific data subsequently obtained may be used. The following assumptions shall be used if no site cleanup report or site-specific data is provided:

(1) If the site cleanup report is unclear as to neighboring land use, assume the land residential land use;

(2) Use the larger resulting default if both TPH and TEH data are available.

(3) For sites with free product gasoline range constituents, the default values in groundwater are 17,500 ug/l for benzene, 3,040 ug/l for ethylbenzene, 37,450 ug/l for toluene and 15,840 ug/l for xylenes. For sites with free product consisting of diesel range constituents, the default values are 370 ug/l benzene, 640 ug/l toluene, 140 ug/l ethylbenzene, 580 ug/l xylenes, and 260 ug/l naphthalene or 130,000 ug/l TEH.

135.18(5) *Risk-based corrective action assessment reports, corrective action plans, and corrective action design reports accepted before August 6, 2008.* Any owner or operator who had a Tier 2 site cleanup report, Tier 3 report, or corrective action design report approved by the department before August 6, 2008, may elect to submit a Tier 2 site cleanup report using the Appendix B revised model, department-developed software and rules in effect as of August 6, 2008. The owner or operator shall notify the department that the owner or operator wishes to evaluate the leaking underground storage tank site with the Appendix B revised model, software and rules. If the owner or operator so elects, the site shall be assessed, classified, and, if necessary, remediated, in accordance with the rules of the department as of August 6, 2008. If the leaking underground storage tank site is undergoing active remediation, the remediation system shall remain operating until the reevaluation is completed and accepted or as otherwise approved by the department. Once a site has been evaluated using the Appendix B revised model, software and rules in effect as of August 6, 2008, it can no longer be evaluated with the Appendix B-1 old model and software and rules in effect prior to August 6, 2008.

135.18(6) *Risk-based corrective action assessment reports, corrective action plans, and corrective action design reports in the process of preparation with a submittal schedule established prior to August 6, 2008.* The owner or operator shall notify the department that the owner or operator wishes to use the Appendix B revised model and department software and rules in effect as of August 6, 2008, to evaluate the leaking underground storage tank site before submitting the next report, and prior to expiration of the previously established submittal schedule. Once a site has been evaluated using the Appendix B revised model, software and rules in effect as of August 6, 2008, it can no longer be evaluated with the Appendix B-1 old model, software and rules existing just prior to August 6, 2008.

135.18(7) *Risk-based corrective action assessment reports, corrective action plans, and corrective action design reports received by the department but not yet reviewed.* The owner or operator will notify the department within 60 days of August 6, 2008, whether the owner or operator is electing to complete a risk-based corrective action assessment using Appendix B revised model, department software and rules effective as of August 6, 2008, or proceeding with the risk-based corrective action assessment using Appendix B-1 old model and department software and rules existing prior to August 6, 2008. Once a site has been evaluated using the Appendix B revised model, software and rules it can no longer be evaluated with the previous Appendix B-1 old model, software and rules.

567—135.19(455B) Analyzing for methyl tertiary-butyl ether (MTBE) in soil and groundwater samples.

135.19(1) *General.* The objective of analyzing for MTBE is to determine its presence in soil and water samples collected as part of investigation and remediation of contamination at underground storage tank facilities.

135.19(2) *Required MTBE testing.* Soil and water samples must be analyzed for MTBE when collected for risk-based corrective action as required in rules 135.8(455B) through 135.12(455B). These sampling requirements include but are not limited to:

a. Risk-based corrective action (RBCA) evaluations required for Tier 1, Tier 2, and Tier 3 assessments and corrective action design reports.

b. Site monitoring.

c. Site remediation monitoring.

135.19(3) *MTBE testing not required.* Soil and water samples for the following actions are not required to be analyzed for MTBE:

a. Closure sampling under rule 135.15(455B) unless Tier 1 or Tier 2 sampling is being performed.

b. Site checks under subrule 135.7(3) unless Tier 1 or Tier 2 sampling is being performed.

c. If prior analysis at a site under 135.19(2) has not shown MTBE present in soil or groundwater.

d. If the department determines MTBE analysis is no longer needed at a site.

135.19(4) *Reporting.* The analytical data must be submitted in a format prescribed by the department.

135.19(5) *Analytical methods for methyl tertiary-butyl ether (MTBE).* When having soil or water analyzed for MTBE from contamination caused by petroleum or hazardous substances, owners and operators of UST systems must use a laboratory certified under 567—Chapter 83 for petroleum analyses. In addition, the owners and operators must ensure all soil and water samples are properly preserved and shipped within 72 hours of collection to a laboratory certified under 567—Chapter 83 for petroleum analyses.

a. Sample preparation and analysis shall be by:

(1) GC/MS version of OA-1, "Method for Determination of Volatile Petroleum Hydrocarbons (gasoline)," revision 7/27/93, University Hygienic Laboratory, Iowa City, Iowa; or

(2) U.S. Environmental Protection Agency Method 8260B, SW-846, "Test Methods for Evaluating Solid Waste," Third Edition.

b. Laboratories performing the analyses must run standards for MTBE on a routine basis, and standards for other possible compounds like ethyl tertiary-butyl ether (ETBE), tertiary-amyl methyl ether (TAME), diisopropyl ether (DIPE), and tertiary-butyl alcohol (TBA) to be certain of their identification should they be detected.

c. Laboratories must run a method detection limit study and an initial demonstration of capability for MTBE. These records must be kept on file.

d. The minimum detection level for MTBE in soil is 15 ug/kg. The minimum detection level for MTBE in water is 15 ug/l.

567—135.20(455B) Compliance inspection of UST system.

135.20(1) The owner or operator must have the UST system inspected and an inspection report submitted to the department by a UST compliance inspector certified by the department under

567—Chapter 134. An initial compliance site inspection shall be conducted no later than December 31, 2007. All subsequent compliance site inspections conducted after the compliance site inspection for the 2008-2009 biennial period shall be conducted within 24 months of the prior compliance site inspection. Compliance site inspections must be separated by at least six months.

135.20(2) Compliance inspection requirements. The owner or operator is responsible to ensure the department receives ten days' prior notice by the compliance inspector of the date of a site inspection and the name of the inspector as provided in 567—134.14(455B). The owner and operator must comply with the following as part of the inspection process.

a. Review and respond to the inspection report provided by the certified compliance inspector and complete the corrective actions specified in the compliance inspection report within the specified time frames.

b. Provide all records and documentation required by the certified compliance inspector and this chapter.

c. Upon notification of a suspected release by the certified compliance inspector pursuant to 567—subrule 134.14(1), report the condition to the department and undertake steps to investigate and confirm the suspected release as provided in 567—135.6(455B).

d. Ensure that the compliance inspector completes and submits an electronic inspection form in accordance with 567—134.14(455B).

135.20(3) The owner and operator shall do the following upon receipt of a compliance inspection report as provided in 567—subrule 134.14(1) which finds violations of the department's rules:

a. Take all actions necessary to correct any compliance violations or deficiencies in accordance with this chapter. Corrective action must be taken within the time frame established by rule or, if no time frames are established by rule, within 60 days of receipt of the inspector's report or another reasonable time period approved by the department. The granting of time to remedy a violation does not preclude the department from exercising its discretion to assess penalties for the violation.

b. Within 60 days of receipt of the inspector's report, provide documentation to the compliance inspector that the violation or deficiencies have been corrected.

c. Conduct a follow-up inspection in instances where there are serious problems or a history of repeated violations when required by the department.

135.20(4) Conflict of interest. A compliance site inspection must be conducted by a certified compliance inspector who is not the owner or operator of the UST system being inspected, an employee of the owner or operator of the UST system being inspected, or a person having daily on-site responsibility for the operation and maintenance of the UST system.

[**ARC 8124B**, IAB 9/9/09, effective 10/14/09]

Appendix A - Tier 1 Table, Assumptions, Equations and Parameter Values

Iowa Tier 1 Look-Up Table

Media	Exposure Pathway	Receptor	Group 1				Group 2: TEH	
			Benzene	Toluene	Ethylbenzene	Xylenes	Diesel*	Waste Oil
Groundwater (ug/L)	Groundwater Ingestion	actual	5	1,000	700	10,000	1,200	400
		potential	290	7,300	3,700	73,000	75,000	40,000
	Groundwater Vapor to Enclosed Space	all	1,540	20,190	46,000	NA	2,200,000	NA
	Groundwater to Plastic Water Line	all	290	7,300	3,700	73,000	75,000	40,000
	Surface Water	all	290	1,000	3,700	73,000	75,000	40,000
Soil (mg/kg)	Soil Leaching to Groundwater	all	0.54	42	15	NA	3,800	NA
	Soil Vapor to Enclosed Space	all	1.16	48	79	NA	47,500	NA
	Soil to Plastic Water Line	all	1.8	120	43	NA	10,500	NA

NA: Not applicable. There are no limits for the chemical for the pathway, because for groundwater pathways the concentration for the designated risk would be greater than the solubility of the pure chemical in water, and for soil pathways the concentration for the designated risk would be greater than the soil concentration if pure chemical were present in the soil.

TEH: Total Extractable Hydrocarbons. The TEH value is based on risks from naphthalene, benzo(a)pyrene, benz(a)anthracene, and chrysene. Refer to Appendix B for further details.

Diesel*: Standards in the Diesel column apply to all low volatile petroleum hydorcarbons except waste oil.

Assumptions Used for Iowa Tier 1 Look-Up Table Generation

1. Groundwater ingestion pathway. The maximum contaminant levels (MCLs) were used for Group 1 chemicals. The target risk for carcinogens for actual receptors is 10^{-6} and for potential receptors is 10^{-4}. A hazard quotient of one, and residential exposure and building parameters are assumed.

2. Groundwater vapor to enclosed space pathway. Residential exposure and residential building parameters are assumed; no inhalation reference dose is used for benzene; the capillary fringe is assumed to be the source of groundwater vapor; and the hazard quotient is 1 and target risk for carcinogens is $1x10^{-4}$.

3. Groundwater to plastic water line. This pathway uses the same assumptions as the groundwater ingestion pathway for potential receptors, including a target risk for carcinogens of 10^{-4}.

4. Surface water. This pathway uses the same assumptions as the groundwater ingestion pathway for potential receptors, including a target risk for carcinogens of 10^{-4}, except for toluene which has a chronic level for aquatic life of 1,000 as in the definition for surface water criteria in 567—135.2.

5. Soil leaching to groundwater. This pathway assumes the groundwater will be protected to the same levels as the groundwater ingestion pathway for potential receptors, using residential exposure and a target risk for carcinogens of 10^{-4}.

6. Soil vapor to enclosed space pathway. The target risk for carcinogens is $1x10^{-4}$; the hazard quotient is 1; no inhalation reference dose is used for benzene; residential exposure factors are assumed; and the average of the residential and nonresidential building parameters are assumed.

7. Soil to plastic water line pathway. This pathway uses the soil leaching to groundwater model with nonresidential exposure and a target risk for carcinogens of 10^{-4}

In addition to these assumptions, the equations and parameter values used to generate the Iowa Tier 1 Look-Up Table are described below.

Groundwater Ingestion Equations

Carcinogens:

$$RBSL_w \left[\frac{mg}{L - H_2O}\right] = \frac{TR \times BW \times AT_c \times \frac{365\ days}{year}}{SF_o \times IR_w \times EF \times ED}$$

Noncarcinogens:

$$RBSL_w \left[\frac{mg}{L - H_2O}\right] = \frac{THQ \times RfD_o \times BW \times AT_n \times \frac{365\ days}{year}}{IR_w \times EF \times ED}$$

Soil Leaching to Groundwater Equations

$$RBSL_{sl} \left[\frac{mg}{kg - soil}\right] = \frac{RBSL_w \left[\frac{mg}{L - H_2O}\right]}{LF}$$

$$LF \left[\frac{mg/L - H_2O}{mg/kg - soil}\right] = \frac{\rho_s}{(\theta_{ws} + k_s\rho_s + H\theta_{as})\left(1 + \frac{U\delta}{IW}\right)}$$

Soil Vapor to Enclosed Space Equations

$$RBSL_{sv}\left[\frac{mg}{kg-soil}\right] = \frac{RBSL_{air}\left[\frac{\mu g}{m^3-air}\right]}{VF_{sv}}\left(\frac{mg}{1000\ \mu g}\right)$$

$$VF_{sv}\left[\frac{(mg/m^3-air)}{(mg/kg-soil)}\right] = \frac{\frac{H\rho_s}{(\theta_{ws}+k_s\rho_s+H\theta_{as})}\left[\frac{D_s^{eff}/L_s}{ER\ L_B}\right]}{1+\left[\frac{D_s^{eff}/L_s}{ER\ L_B}\right]+\left[\frac{D_s^{eff}/L_s}{\left(D_{crack}^{eff}/L_{crack}\right)\eta}\right]}\left(10^3\ \frac{cm^3-kg}{m^3-g}\right)$$

$$D_{crack}^{eff}\left[\frac{cm^2}{s}\right] = D^{air}\ \frac{\theta_{acrack}^{3.33}}{\theta_T^2} + D^{wat}\frac{1}{H}\frac{\theta_{wcrack}^{3.33}}{\theta_T^2}$$

$$D_s^{eff}\left[\frac{cm^2}{s}\right] = D^{air}\ \frac{\theta_{as}^{3.33}}{\theta_T^2} + D^{wat}\frac{1}{H}\frac{\theta_{ws}^{3.33}}{\theta_T^2}$$

Indoor Air Inhalation Equations

Carcinogens:

$$RBSL_{air}\left[\frac{\mu g}{m^3\text{ - air}}\right] = \frac{TR \times BW \times AT_c \times \frac{365\text{ days}}{year} \times \frac{1000\ \mu g}{mg}}{SF_i \times IR_{air} \times EF \times ED}$$

Noncarcinogens:

$$RBSL_{air}\left[\frac{\mu g}{m^3\text{ - air}}\right] = \frac{THQ \times RfD_i \times BW \times AT_n \times \frac{\frac{365}{kdays}}{year} \times \frac{1000\ \mu g}{mg}}{IR_{air} \times EF \times ED}$$

Groundwater Vapor to Enclosed Space Equations

$$RBSL_{gw}\left[\frac{mg}{L - H_2O}\right] = \frac{RBSL_{air}\left[\frac{\mu g}{m^3 - air}\right]}{VF_{gw}}\left(\frac{mg}{1000\ \mu g}\right)$$

$$VF_{gw}\left[\frac{(mg/m^3 - air)}{(mg/L - H_2O)}\right] = \frac{H\left[\frac{D_s^{eff}/L_{gw}}{ER\ L_B}\right]}{1 + \left[\frac{D_s^{eff}/L_{gw}}{ER\ L_B}\right] + \left[\frac{D_s^{eff}/L_{gw}}{\left(D_{crack}^{eff}/L_{crack}\right)\eta}\right]}\left(\frac{10^3 L}{m^3}\right)$$

Variable Definitions

δ	groundwater mixing zone thickness (cm)
η	areal fraction of cracks in foundation/wall (cm^2-cracks/cm^2-area)
ρ_s	soil bulk density (g/cm^3)
θ_{acrack}	volumetric air content in foundation/wall cracks (cm^3-air/cm^3-soil)
θ_{as}	volumetric air content in vadose zone (cm^3-air/cm^3-soil)
θ_T	total soil porosity (cm^3-voids/cm^3-soil)
θ_{wcrack}	volumetric water content in foundation/wall cracks (cm^3-H_2O/cm^3-soil)
θ_{ws}	volumetric water content in vadose zone (cm^3-H_2O/cm^3-soil)
AT_c	averaging time for carcinogens (years)
AT_n	averaging time for noncarcinogens (years)
BW	body weight (kg)
D^{air}	chemical diffusion coefficient in air (cm^2/s)
D^{wat}	chemical diffusion coefficient in water (cm^2/s)
D^{eff}_{crack}	effective diffusion coefficient through foundation cracks (cm^2/s)
D^{eff}_{s}	effective diffusion coefficient in soil based on vapor-phase concentration (cm^2/s)
ED	exposure duration (years)
EF	exposure frequency (days/year)
ER	enclosed space air exchange rate (s^{-1})
f_{oc}	fraction organic carbon in the soil (kg-C/kg-soil)
H	henry's law constant (L-H_2O)/(L-air)
i	groundwater head gradient (cm/cm)
I	infiltration rate of water through soil (cm/year)
IR_{air}	daily indoor inhalation rate (m^3/day)
IR_w	daily water ingestion rate (L/day)
K	hydraulic conductivity (cm/year)
K_{oc}	carbon-water sorption coefficient (L-H_2O/kg-C)
k_s	soil-water sorption coefficient (L-H_2O/kg-soil), f_{oc} x K_{oc}
L_B	enclosed space volume/infiltration area ratio (cm)
L_{crack}	enclosed space foundation or wall thickness (cm)
LF	leaching factor from soil to groundwater ((mg/L-H_2O)/(mg/kg-soil))
L_{gw}	depth to groundwater from the enclosed space foundation (cm)
L_s	depth to subsurface soil sources from the enclosed space foundation (cm)
$RBSL_{air}$	Risk-Based Screening Level for indoor air ($\mu g/m^3$-air)
$RBSL_{gw}$	Risk-Based Screening Level for vapor from groundwater to enclosed space air inhalation (mg/L-H_2O)
$RBSL_{sl}$	Risk-Based Screening Level for soil leaching to groundwater (mg/kg-soil)
$RBSLs_v$	Risk-Based Screening Level for vapors from soil to enclosed space air inhalation (mg/kg-soil)
$RBSL_w$	Risk-Based Screening Level for groundwater ingestion (mg/L-H_2O)
RfD_i	inhalation chronic reference dose ((mg/(kg-day))
RfD_o	oral chronic reference dose ((mg/(kg-day))
SF_i	inhalation cancer slope factor ((kg-day)/mg)
SF_o	oral cancer slope factor ((kg-day)/mg)
THQ	target hazard quotient for individual constituents (unitless)
TR	target excess individual lifetime cancer risk (unitless)
U	groundwater Darcy velocity (cm/year), U=Ki
VF_{gw}	volatilization factor for vapors from groundwater to enclosed space ((mg/m^3-air)/(mg/L-H_2O))
VF_{sv}	volatilization factor for vapors from soil to enclosed space ((mg/m^3-air)/(mg/kg-soil))
W	width of soil source area parallel to groundwater flow direction (cm)

Soil and Groundwater Parameter Values Used for Iowa Tier 1 Table Generation

Parameter		Iowa Tier 1 Table Value
K	hydraulic conductivity	16060 cm/year
i	groundwater head gradient	0.01 cm/cm
W	width of soil source area parallel to groundwater flow direction	1500 cm
I	infiltration rate of water through soil	7 cm/year
δ	groundwater mixing zone thickness	200 cm
ρ_s	soil bulk density	1.86 g/cm^3
θ_{as}	volumetric air content in vadose zone	0.2 cm^3-air/cm^3-soil
θ_{ws}	volumetric water content in vadose zone	0.1 cm^3-H_2O/cm^3-soil
θ_{acrack}	volumetric air content in foundation/wall cracks	0.2 cm^3-air/cm^3-soil
θ_{wcrack}	volumetric water content in foundation/wall cracks	0.1 cm^3-H_2O/cm^3-soil
θ_T	total soil porosity	0.3 cm^3-voids/cm^3-soil
f_{oc}	fraction organic carbon in the soil	0.01 kg-C/kg-soil
L_s	depth to subsurface soil sources from the enclosed space foundation	1 cm
L_{gw}	depth to groundwater from the enclosed space foundation	1 cm

Exposure Factors Used in Iowa Tier 1 Table Generation

Parameter		Residential	Nonresidential
AT_c (years)	averaging time for carcinogens	70	70
AT_n (years)	averaging time for noncarcinogens	30	25
BW (kg)	body weight	70	70
ED (years)	exposure duration	30	25
EF (days/year)	exposure frequency	350	250
IR_{air} (m^3/day)	daily indoor inhalation rate	15	20
IR_w (L/day)	daily water ingestion rate	2	1
THQ (unitless)	target hazard quotient for individual constituents	1.0	1.0

Building Parameters Used in Iowa Tier 1 Table Generation

Parameter		Residential	Nonresidential
ER (s^{-1})	enclosed space air exchange rate	0.00014	0.00023
L_B (cm)	enclosed space volume/infiltration area ratio	200	300
L_{crack} (cm)	enclosed space foundation or wall thickness	15	15
η	areal fraction of cracks in foundation/wall	0.01	0.01

Chemical-Specific Parameter Values Used for Iowa Tier 1 Table Generation

Chemical	D^{air} (cm^2/s)	D^{wat} (cm^2/s)	H (L-air/L-water)	log(K_{oc}), L/kg
Benzene	0.093	1.1e-5	0.22	1.58
Toluene	0.085	9.4e-6	0.26	2.13
Ethylbenzene	0.076	8.5e-6	0.32	1.98
Xylenes	0.072	8.5e-6	0.29	2.38
Naphthalene	0.072	9.4e-6	0.049	3.11
Benzo(a)pyrene	0.050	5.8e-6	5.8e-8	5.59
Benz(a)anthracene	0.05	9.0e-6	5.74e-7	6.14
Chrysene	0.025	6.2e-6	4.9e-7	5.30

Saturation Values Used to Determine "NA" for the Iowa Tier 1 Table

Chemical	Solubility in Water (mg/L) S	Saturation in Soil (mg/kg) C_s^{sat}
Benzene	1,750	801
Toluene	535	765
Ethylbenzene	152	159
Xylenes	198	492
Naphthalene	31	401
Benzo(a)pyrene	0.0012	4.69
Benz(a)anthracene	0.014	193.3
Chrysene	0.0028	5.59

The maximum solubility of the pure chemical in water is listed in the table above. The equation below is used to calculate the soil concentration (C_s^{sat}) at which dissolved pore-water and vapor phases become saturated. Tier 1 default values are used in the equation. "NA" (for not applicable) is used in the Tier 1 table when the risk-based value exceeds maximum solubility for water (S) or maximum saturation for soil (C_s^{sat}).

$$C_s^{sat}(\text{mg/kg-soil}) = S/\rho_s \times (H\theta_{as} + \theta_{ws} + k_s \rho_s)$$

Slope Factors and Reference Doses Used for Iowa Tier 1 Table Generation

Chemical	SF_i ((kg-day)/mg)	SF_o ((kg-day)/mg)	RfD_i (mg/(kg-day))	RfD_o (mg/(kg-day))
Benzene	0.029	0.029	—	—
Toluene	—	—	0.114	0.2
Ethylbenzene	—	—	0.286	0.1
Xylenes	—	—	2.0	2.0
Naphthalene	—	—	0.004	0.004
Benzo(a)pyrene	6.1	7.3	—	—
Benz(a)anthracene	0.61	0.73	—	—
Chrysene	0.061	0.073	—	—

Appendix B – Tier 2 Equations and Parameter Values (Revised Model)

All Tier 1 equations and parameters apply at Tier 2 except as specified below.

Equation for Tier 2 Groundwater Contaminant Transport Model

Equation (1)

$$C(x) = C_s \exp\left(\frac{x_m}{2\alpha_x}\left[1-\sqrt{1+\frac{4\lambda\alpha_x}{u}}\right]\right) erf\left(\frac{S_w}{4\sqrt{\alpha_y x_m}}\right) erf\left(\frac{S_d}{4\sqrt{\alpha_z x_m}}\right)$$

Equation (2)

Where $x_m = ax + bx^c$

The value of X_m is computed from Equation (2), where the values for a, b and c in Equation (2) are given in Table 1.

Table 1. Parameter Values for Equation (2)

Chemical	a	b	c
Benzene	1	0.000000227987	3.929438689
Toluene	1	0.000030701	3.133842393
Ethylbenzene	1	0.0001	2.8
Xylenes	1	0.0	0.0
TEH-Diesel	1	0.000000565	3.625804634
TEH-Waste Oil	1	0.000000565	3.625804634
Naphthalene	1	0	0

Variable definitions

x: distance in the x direction downgradient from the source
erf( ): the error function
C(x): chemical concentration in groundwater at x
C_s: Source concentration in groundwater (groundwater concentration at x=0)
S_w: width of the source (perpendicular to x)
S_d: vertical thickness of the source
u: groundwater velocity (pore water velocity); u=Ki/θe
K: hydraulic conductivity
i: groundwater head gradient
θe: effective porosity
λ: first order decay coefficient, chemical specific
αx, αy, αz: dispersivities in the x, y and z directions, respectively

For the following lists of parameters, one of three is required: site-specific measurements, defaults or the option of either (which means the default may be used or replaced with a site-specific measurement).

Soil parameters

Parameter		Default Value	Required
ρ_s	soil bulk density	1.86 g/cm^3	option
f_{oc}	fraction organic carbon in the soil	0.01 kg-C/kg-soil	option
θ_T	total soil porosity	0.3cm^3-voids/cm^3-soil	option
θ_{as}	volumetric air content in vadose zone	0.2cm^3-air/cm^3-soil	default
θ_{ws}	volumetric water content in vadose zone	0.1cm^3-H_2O/cm^3-soil	default
θ_{acrack}	volumetric air content in foundation/wall cracks	0.2cm^3-air/cm^3-soil	default

Parameter		Default Value	Required
θ_{wcrack}	volumetric water content in foundation/wall cracks	0.1cm^3-H_2O/cm^3-soil	default
I	infiltration rate of water through soil	7 cm/year	default

If the total porosity is measured, assume 1/3 is air filled and 2/3 is water filled for determining the water and air fraction in the vadose zone soil and floor cracks.

Groundwater Transport Modeling Parameters

Parameter		Default Value	Required
K	hydraulic conductivity	16060 cm/year	site-specific
i	groundwater head gradient	0.01 cm/cm	site-specific
S_w	width of the source	use procedure specified in 135.10(2)	site-specific
S_d	vertical thickness of the source	3 m	default
αx	dispersivity in the x direction	0.1x	default
αy	dispersivity in the y direction	$0.33\alpha x$	default
αz	dispersivity in the z direction	$0.05\alpha x$	default
θe	effective porosity	0.1	default

where $u=Ki/\theta e$

First-order Decay Coefficients

Chemical	Default Valueλ (d-1)	Required
Benzene	0.000127441	default
Toluene	0.0000208066	default
Ethylbenzene	0.0	default
Xylenes	0.0005	default
Naphthalene	0.00013	default
TEH-Diesel	0.0000554955	default
TEH-Waste Oil	0.0000554955	default

Other Parameters for Groundwater Vapor to Enclosed Space

Parameter		Default Value	Required
Lgw	depth to groundwater from the enclosed space foundation	1 cm	option
L_B	enclosed space volume/infiltration area ratio	200 cm	option
ER (s-1)	enclosed space air exchange rate	0.00014	default
Lcrack	enclosed space foundation or wall thickness	15 cm	default
η	areal fraction of cracks in foundation/wall	0.01	default

Other Parameters for Soil Vapor to Enclosed Space

Parameter		Default Value	Required
L_s	depth to subsurface soil sources from the enclosed space foundation	1 cm	option
L_B	enclosed space volume/infiltration area ratio	250 cm *	option
ER (s-1)	enclosed space air exchange rate	0.000185 *	default
Lcrack	enclosed space foundation or wall thickness	15 cm	default
η	areal fraction of cracks in foundation/wall	0.01	default

*These values are an average of residential and nonresidential factors.

Soil Leaching to Groundwater

Parameter		Default Value	Required
δ	groundwater mixing zone	2 m	default

Building Parameters for Iowa Tier 2

Parameter		Residential	Nonresidential
ER (s-1)	enclosed space air exchange rate	0.00014	0.00023
L_B	enclosed space volume/infiltration area ratio	200 cm	300 cm

Other Parameters

For Tier 2, the following are the same as Tier 1 values (refer to Appendix A): chemical-specific parameters, slope factors and reference doses, and exposure factors (except for those listed below).

Exposure Factors for Tier 2 Groundwater Vapor to Enclosed Space Modeling:

Potential Residential: use residential exposure and residential building parameters.

Potential Nonresidential: use nonresidential exposure and nonresidential building parameters.

Diesel and Waste Oil

Diesel and Waste Oil			Chemical-Specific Values for Tier 1			
Media	Exposure Pathway	Receptor	Naphthalene	Benzo(a) pyrene	Benz(a) anthracene	Chrysene
Groundwater (ug/L)	Groundwater Ingestion	actual	150	0.012	0.12	1.2
		potential	150	1.2	12.0	NA
	Groundwater Vapor to Enclosed Space	all	4,440	NA	NA	NA
	Groundwater to Plastic Water Line	all	150	1.2	12.0	NA
	Surface Water	all	150	1.2	12.0	NA
Soil (mg/kg)	Soil Leaching to Groundwater	all	7.6	NA	NA	NA
	Soil Vapor to Enclosed Space	all	95	NA	NA	NA
	Soil to Plastic Water Line	all	21	NA	NA	NA

Due to difficulties with analytical methods for the four individual chemicals listed in the above table, Total Extractable Hydrocarbon (TEH) default values were calculated for each chemical, using the assumption that

diesel contains 0.2% napthalene, 0.001% benzo(a)pyrene, 0.001% benz(a)anthracene, and 0.001% chrysene. Resulting TEH Default Values are shown in the following table.

Diesel			TEH Default Values			
Media	Exposure Pathway	Receptor	Naphthalene	Benzo(a) pyrene	Benz(a) anthracene	Chrysene
Groundwater (ug/L)	Groundwater Ingestion	actual	75,000	1,200	12,000	120,000
		potential	75,000	120,000	1,200,000	NA
	Groundwater Vapor to Enclosed Space	all	2,200,000	NA	NA	NA
	Groundwater to Plastic Water Line	all	75,000	120,000	1,200,000	NA
	Surface Water	all	75,000	120,000	1,200,000	NA
Soil (mg/kg)	Soil Leaching to Groundwater	all	3,800	NA	NA	NA
	Soil Vapor to Enclosed Space	all	47,500	NA	NA	NA
	Soil to Plastic Water Line	all	10,500	NA	NA	NA

The lowest TEH default value for each pathway (shown as a shaded box) was used in the Tier 1 Table.

Due to difficulties with analytical methods for the four individual chemicals, Total Extractable Hydrocarbon (TEH) default values were calculated for each chemical, using the assumption that waste oil contains no naphthalene, 0.003% benzo(a)pyrene, 0.003% benz(a)anthracene, and 0.003% chrysene. Resulting TEH Default Values are shown in the following table.

Waste Oil			TEH Default Values			
Media	Exposure Pathway	Receptor	Naphthalene	Benzo(a) pyrene	Benz(a) anthracene	Chrysene
Groundwater (ug/L)	Groundwater Ingestion	actual	NA	400	4,000	40,000
		potential	NA	40,000	400,000	NA
Groundwater (ug/L)	Groundwater Vapor to Enclosed Space	all	NA	NA	NA	NA
	Groundwater to Plastic Water Line	all	NA	40,000	400,000	NA
	Surface Water	all	NA	40,000	400,000	NA
Soil (mg/kg)	Soil Leaching to Groundwater	all	NA	NA	NA	NA
	Soil Vapor to Enclosed Space	all	NA	NA	NA	NA
	Soil to Plastic Water Line	all	NA	NA	NA	NA

The lowest TEH default value for each pathway (shown as a shaded box) was used in the Tier 1 Table.

Appendix B-1 – Tier 2 Equations and Parameter Values (Old Model)

All Tier 1 equations and parameters apply at Tier 2 except as specified below.

Equation for Tier 2 Groundwater Contaminant Transport Model

$$C(x) = C_s \exp\left(\frac{x}{2\alpha_x}\left[1-\sqrt{1+\frac{4\lambda\alpha_x}{u}}\right]\right) \operatorname{erf}\left(\frac{S_w}{4\sqrt{\alpha_y x}}\right) \operatorname{erf}\left(\frac{S_d}{4\sqrt{\alpha_z x}}\right)$$

Variable definitions

x: distance in the x direction downgradient from the source
erf( ): the error function
C(x): chemical concentration in groundwater at x
C_s: Source concentration in groundwater (groundwater concentration at x=0)
S_w: width of the source (perpendicular to x)
S_d: vertical thickness of the source
u: groundwater velocity (pore water velocity); u=Ki/θe
K: hydraulic conductivity
i: groundwater head gradient
θe: effective porosity
λ: first-order decay coefficient, chemical specific
αx, αy, αz: dispersivities in the x, y and z directions, respectively

For the following lists of parameters, one of three is required: site-specific measurements, defaults or the option of either (which means the default may be used or replaced with a site-specific measurement).

Soil parameters

Parameter		Default Value	Required
ρ_s	soil bulk density	1.86 g/cm^3	option
f_{oc}	fraction organic carbon in the soil	0.01 kg-C/kg-soil	option
θ_T	total soil porosity	0.3cm^3-voids/cm^3-soil	option
θ_{as}	volumetric air content in vadose zone	0.2cm^3-air/cm^3-soil	default
θ_{ws}	volumetric water content in vadose zone	0.1cm^3-H_2O/cm^3-soil	default
θ_{acrack}	volumetric air content in foundation/wall cracks	0.2cm^3-air/cm^3-soil	default
θ_{wcrack}	volumetric water content in foundation/wall cracks	0.1cm^3-H_2O/cm^3-soil	default
I	infiltration rate of water through soil	7 cm/year	default

If the total porosity is measured, assume 1/3 is air filled and 2/3 is water filled for determining the water and air fraction in the vadose zone soil and floor cracks.

Groundwater Transport Modeling Parameters

Parameter		Default Value	Required
K	hydraulic conductivity	16060 cm/year	site-specific
i	groundwater head gradient	0.01 cm/cm	site-specific
S_w	width of the source	use procedure specified in 135.10(2)	site-specific
S_d	vertical thickness of the source	3 m	default
αx	dispersivity in the x direction	0.1x	default
αy	dispersivity in the y direction	$0.33\alpha x$	default
αz	dispersivity in the z direction	$0.05\alpha x$	default
θe	effective porosity	0.1	default

where $u=Ki/\theta e$

First-order Decay Coefficients

Chemical	Default Valueλ (d-1)	Required
Benzene	0.0005	default
Toluene	0.0007	default
Ethylbenzene	0.00013	default
Xylenes	0.0005	default
Naphthalene	0.00013	default
Benzo(a)pyrene	0	default
Benz(a)anthracene	0	default
Chrysene	0	default

Other Parameters for Groundwater Vapor to Enclosed Space

Parameter		Default Value	Required
Lgw	depth to groundwater from the enclosed space foundation	1 cm	option
L_B	enclosed space volume/infiltration area ratio	200 cm	option
ER (s-1)	enclosed space air exchange rate	0.00014	default
Lcrack	enclosed space foundation or wall thickness	15 cm	default
η	areal fraction of cracks in foundation/wall	0.01	default

Other Parameters for Soil Vapor to Enclosed Space

Parameter		Default Value	Required
L_s	depth to subsurface soil sources from the enclosed space foundation	1 cm	option
L_B	enclosed space volume/infiltration area ratio	250 cm *	option
ER (s-1)	enclosed space air exchange rate	0.000185 *	default
Lcrack	enclosed space foundation or wall thickness	15 cm	default
η	areal fraction of cracks in foundation/wall	0.01	default

*These values are an average of residential and nonresidential factors.

Soil Leaching to Groundwater

Parameter		Default Value	Required
δ	groundwater mixing zone	2 m	default

Building Parameters for Iowa Tier 2

Parameter		Residential	Nonresidential
ER (s-1)	enclosed space air exchange rate	0.00014	0.00023
L_B	enclosed space volume/infiltration area ratio	200 cm	300 cm

Other Parameters

For Tier 2, the following are the same as Tier 1 values (refer to Appendix A): chemical-specific parameters, slope factors and reference doses, and exposure factors (except for those listed below).

Exposure Factors for Tier 2 Groundwater Vapor to Enclosed Space Modeling:
Potential Residential: use residential exposure and residential building parameters.
Potential Nonresidential: use nonresidential exposure and nonresidential building parameters.

Diesel and Waste Oil

Diesel and Waste Oil			Chemical-Specific Values for Tier 1			
Media	Exposure Pathway	Receptor	Naphthalene	Benzo(a) pyrene	Benz(a) anthracene	Chrysene
Groundwater (ug/L)	Groundwater Ingestion	actual	150	0.012	0.12	1.2
		potential	150	1.2	12.0	NA
	Groundwater Vapor to Enclosed Space	all	4,440	NA	NA	NA
	Groundwater to Plastic Water Line	all	150	1.2	12.0	NA
	Surface Water	all	150	1.2	12.0	NA
Soil (mg/kg)	Soil Leaching to Groundwater	all	7.6	NA	NA	NA
	Soil Vapor to Enclosed Space	all	95	NA	NA	NA
	Soil to Plastic Water Line	all	21	NA	NA	NA

Due to difficulties with analytical methods for the four individual chemicals listed in the above table, Total Extractable Hydrocarbon (TEH) default values were calculated for each chemical, using the assumption that diesel contains 0.2% napthalene, 0.001% benzo(a)pyrene, 0.001% benz(a)anthracene, and 0.001% chrysene. Resulting TEH Default Values are shown in the following table.

Diesel			TEH Default Values			
Media	Exposure Pathway	Receptor	Naphthalene	Benzo(a) pyrene	Benz(a) anthracene	Chrysene
Groundwater (ug/L)	Groundwater Ingestion	actual	75,000	1,200	12,000	120,000
		potential	75,000	120,000	1,200,000	NA
	Groundwater Vapor to Enclosed Space	all	2,200,000	NA	NA	NA
	Groundwater to Plastic Water Line	all	75,000	120,000	1,200,000	NA
	Surface Water	all	75,000	120,000	1,200,000	NA
Soil (mg/kg)	Soil Leaching to Groundwater	all	3,800	NA	NA	NA
	Soil Vapor to Enclosed Space	all	47,500	NA	NA	NA
	Soil to Plastic Water Line	all	10,500	NA	NA	NA

The lowest TEH default value for each pathway (shown as a shaded box) was used in the Tier 1 Table.

Due to difficulties with analytical methods for the four individual chemicals, Total Extractable Hydrocarbon (TEH) default values were calculated for each chemical, using the assumption that waste oil contains no naphthalene, 0.003% benzo(a)pyrene, 0.003% benz(a)anthracene, and 0.003% chrysene. Resulting TEH Default Values are shown in the following table.

Waste Oil			TEH Default Values			
Media	Exposure Pathway	Receptor	Naphthalene	Benzo(a) pyrene	Benz(a) anthracene	Chrysene
Groundwater (ug/L)	Groundwater Ingestion	actual	NA	400	4,000	40,000
		potential	NA	40,000	400,000	NA
Groundwater (ug/L)	Groundwater Vapor to Enclosed Space	all	NA	NA	NA	NA
	Groundwater to Plastic Water Line	all	NA	40,000	400,000	NA
	Surface Water	all	NA	40,000	400,000	NA
Soil (mg/kg)	Soil Leaching to Groundwater	all	NA	NA	NA	NA
	Soil Vapor to Enclosed Space	all	NA	NA	NA	NA
	Soil to Plastic Water Line	all	NA	NA	NA	NA

The lowest TEH default value for each pathway (shown as a shaded box) was used in the Tier 1 Table.

APPENDIX C
DECLARATION OF RESTRICTIVE COVENANTS
Rescinded IAB 7/19/06, effective 8/23/06

APPENDIX D
IOWA DEPARTMENT OF NATURAL RESOURCES

NO FURTHER ACTION CERTIFICATE

This document certifies that the referenced underground storage tank site has been classified by the Iowa Department of Natural Resources (IDNR) as "no action required" as provided in the 1995 Iowa Code Supplement 455B.474(1)"h"(1). This certificate may be recorded as provided by law.

ISSUED TO: OWNERS/OPERATORS OF TANKS
DATE OF ISSUANCE:
IDNR FILE REFERENCES: LUST # REGISTRATION #
LEGAL DESCRIPTION OF UNDERGROUND STORAGE TANK SITE:

Issuance of this certificate does not preclude the IDNR from requiring further corrective action due to new releases and is based on the information available to date. The department is precluded from requiring additional corrective action solely because governmental action standards are changed. See 1995 Iowa Code Supplement 455B.474(1)"h"(1).

This certificate does not constitute a warranty or a representation of any kind to any person as to the environmental condition, marketability or value of the above referenced property other than that certification required by 1995 Iowa Code Supplement 455B.474(1)"h".

These rules are intended to implement Iowa Code sections 455B.304, 455B.424 and 455B.474.

[Filed emergency 9/20/85—published 10/9/85, effective 9/20/85]
[Filed emergency 11/14/86—published 12/3/86, effective 12/3/86]
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[Filed ARC 8124B (Notice ARC 7854B, IAB 6/17/09), IAB 9/9/09, effective 10/14/09]
[Filed ARC 8469B (Notice ARC 7854B, IAB 6/17/09), IAB 1/13/10, effective 2/17/10][3]
[Editorial change: IAC Supplement 2/24/10]

[1] July 15, 1987, effective date of 135.9(4) delayed 70 days by Administrative Rules Review Committee at its June 1987 meeting.

[2] August 6, 2008, effective date of **ARC 6892B** delayed 70 days by Administrative Rules Review Committee at its July 2008 meeting. At its meeting held October 14, 2008, the Committee delayed until adjournment of the 2009 Session of the General Assembly the following provisions: **567—135.2(455B)**, definition of "Sensitive area"; **135.9(4)"f"**; **135.10(4)"a,"** last sentence: "A public water supply screening and risk assessment must be conducted in accordance with 135.10(4)"f" for this pathway" and **135.10(4)"b,"** last sentence of the first paragraph: "The certified groundwater professional or the department may request additional sampling of drinking water wells and non-drinking water wells as part of its evaluation"; **135.10(4)"f"**; **135.10(11)"h."**

[3] February 17, 2010, effective date of 135.5(1)"e" delayed 70 days by the Administrative Rules Review Committee at its meeting held February 8, 2010.

OBJECTION

At a special meeting held on Monday, February 8, 2010, the Administrative Rules Review Committee voted to object to the provisions of **ARC 8469B**, on the grounds these requirements are beyond the authority delegated to the agency. This filing appeared in the 1/13/2010 issue of the Iowa Administrative Bulletin.

This adopted filing establishes leak detection requirements for unstaffed fueling facilities. It requires in-line leak detection to shut off the pump and stop fuel flow to the dispenser. Discussion at the February 8, 2010, meeting raised several issues involving the number of facilities affected and the cost of the upgrades. The issue was also raised whether the rule exceeded the authority of the agency. Iowa Code §455B.474(10) states, in part, "The rules adopted by the commission under this section shall be consistent with and shall not exceed the requirements of federal regulations…." Since federal regulations do not have specific leak detection requirements for unstaffed fueling facilities, the Committee believes the plain language of §455B.474(10) precludes this rulemaking.

For this reason the Committee members felt the new detection requirements are beyond the authority delegated to the agency.

Objection filed February 12, 2010

CHAPTER 7
LOCAL EMERGENCY MANAGEMENT

[Prior to 4/18/90, Public Defense Department[650], Ch 7]
[Prior to 5/12/93, Disaster Services Division[607], Ch 7]

605—7.1(29C) Scope and purpose. These rules apply to each local emergency management commission as provided for in Iowa Code section 29C.9. These rules are intended to establish standards for emergency management and to provide local emergency management commissions with the criteria to assess and measure their capability to mitigate against, prepare for, respond to, and recover from emergencies or disasters.

605—7.2(29C) Definitions. For purposes of this chapter, the following definitions will apply:

"Shall" indicates a mandatory requirement.

"Should" indicates a recommendation or that which is advised but not required.

605—7.3(29C) Local emergency management commission.

7.3(1) The county board of supervisors, city councils, and school district boards of directors in each county shall cooperate with the emergency management division to establish a local emergency management commission to carry out the provisions of Iowa Code chapter 29C.

a. The local commission shall be named the (county name) county emergency management commission.

b. The commission shall be comprised of the following members:

(1) A member of the county board of supervisors or its appointed representative.

(2) The county sheriff or the sheriff's appointed representative.

(3) The mayor or the mayor's appointed representative from each city within the county.

c. The commission is a municipality as defined in Iowa Code section 670.1.

7.3(2) Local commission bylaws. The commission shall develop bylaws to specify, at a minimum, the following information:

a. The name of the commission.

b. The list of members.

c. The date for the commencement of operations.

d. The commission's mission.

e. The commission's powers and duties.

f. The manner for financing the commission and its activities and maintaining a budget therefor.

g. The manner for acquiring, holding and disposing of property.

h. The manner for electing or appointing officers and the terms of office.

i. The manner by which members may vote.

j. The manner for appointing, hiring, disciplining and terminating employees.

k. The rules for conducting meetings of the commission.

l. Any other necessary and proper rules or procedures.

The bylaws, as adopted, shall be signed by each member of the commission. The commission shall record the signed bylaws with the county recorder and shall forward a copy of the bylaws to the administrator of the state emergency management division.

7.3(3) Commission business. Commission business shall be conducted in compliance with Iowa Code chapter 21, "Official Meetings Open to Public," and Iowa Code chapter 22, "Examination of Public Records."

7.3(4) The commission shall have the following minimum duties and responsibilities:

a. Administration and finance.

(1) Establish and maintain an agency responsible for the local emergency management program. The primary responsibility of this agency is to develop and maintain a comprehensive emergency management capability in cooperation with other governmental agencies, volunteer organizations, and private sector organizations. The name of this agency shall be the (county name) county emergency management agency.

(2) Determine the mission of the agency and its program.

(3) Develop and adopt a budget in accordance with the provisions of Iowa Code chapter 24 and Iowa Code section 29C.17 in support of the commission and its programs. The commission shall be the fiscal authority and the chairperson or vice chairperson shall be the certifying official for the budget.

(4) Appoint an emergency management coordinator who meets the qualifications established in subrule 7.4(3).

(5) Develop and adopt policies defining the rights and liabilities of commission employees, emergency workers and volunteers.

(6) Provide direction for the delivery of the emergency management services of planning, administration, coordination, training, exercising, and support for local governments and their departments.

(7) Coordinate emergency management activities and services among county and city governments and the private sector agencies within the county.

b. Hazard identification, risk assessment, and capability assessment.

(1) The commission should continually identify credible hazards that may affect their jurisdiction, the likelihood of occurrence, and the vulnerability of the jurisdiction to such hazards. Hazards to be considered should include natural, technological, and human-caused.

(2) The commission should conduct an analysis to determine the consequences and impact of identified hazards on the health and safety of the public, the health and safety of responders, property and infrastructure, critical and essential facilities, public services, the environment, the economy of the jurisdiction, and government operations and obligations.

(3) The hazard analysis should include identification of vital personnel, systems, operations, equipment, and facilities at risk.

(4) The commission should identify mitigation and preparedness considerations based upon the hazard analysis.

(5) A comprehensive assessment of the emergency management program elements should be conducted periodically to determine the operational capability and readiness of the jurisdiction to address the identified hazards and risks.

c. Resource management.

(1) The commission should develop a method to effectively identify, acquire, distribute, account for, and utilize resources essential to emergency functions.

(2) The commission shall utilize, to the maximum extent practicable, the services, equipment, supplies and facilities of the political subdivisions that are members of the commission.

(3) The commission should identify resource shortfalls and develop the steps and procedures necessary to overcome such shortfalls.

(4) The commission shall, in collaboration with other public and private agencies within this state, develop written mutual aid agreements. Such agreements shall provide reciprocal disaster services and recovery aid and assistance in case of disaster too great to be dealt with by the jurisdiction unassisted. Mutual aid agreements shall be in compliance with the appropriate requirements contained in Iowa Code chapter 28E.

d. Planning.

(1) The commission shall develop comprehensive countywide emergency operations plans that are multihazard and multifunctional in nature and that shall include, but not be limited to, a part "A" operations plan, part "B" mitigation plan, and part "C" recovery plan that may be contained in a single document or multiple documents. Part A, B, and C plans must be completed and submitted to the division on or before October 5, 2003.

1. A part "A" operations plan assigns responsibilities to organizations and individuals for carrying out specific actions at projected times and places in an emergency or disaster.

2. The part "B" mitigation plan shall establish interim and long-term strategies to eliminate hazards or to reduce the impact of those hazards that cannot be eliminated. This requirement notwithstanding, to qualify for federal funding for mitigation assistance, the eligible applicant must

comply with the mitigation planning requirements set forth in 44 CFR Section 201.6 and the Iowa Hazard Mitigation Grant Program Administrative Plan, as appropriate.

3. A part "C" recovery plan shall identify the short-term and long-term strategic priorities, processes, vital resources, and acceptable time frames and procedures for restoration.

(2) Plans shall contain the following common elements.

1. The functional roles and responsibilities of internal and external agencies, organizations, departments, and individuals during mitigation, preparedness, response and recovery shall be identified.

2. Lines of authority for those agencies, organizations, departments, and individuals shall be established and identified.

(3) Plans shall be regularly reviewed and amended as appropriate in accordance with a five-year schedule established by the commission, to include at a minimum:

1. A complete review, and amendment as appropriate, of the part "A" operations plan at a minimum of every five years. However, a review, and amendment as appropriate, of the hazardous materials portion and of a minimum of 20 percent of the remaining annexes or portions of the plan shall be conducted on a yearly basis. The complete operations plan must be entirely reviewed and amended as appropriate every five years. A printed copy of the portions of the plan that are reviewed, regardless of amendment, must be certified and submitted to the division for approval.

2. A complete review, and amendment as appropriate, of the part "B" mitigation plan at a minimum of every five years at such time a printed copy of the plan, regardless of amendment, must be submitted to the division for approval. Part "B" mitigation plans must also be reviewed and amended, as appropriate, certified and submitted to the division for approval within 180 days of the formal closing of the disaster incident period for a presidential declaration for major disaster.

3. A complete review, and amendment as appropriate, of the part "C" recovery plan at a minimum of every five years at such time a printed copy of the plan, regardless of amendment, must be submitted to the division for approval. Part "C" recovery plans must also be reviewed and amended, as appropriate, certified and submitted to the division for approval within 180 days of the formal closing of the disaster incident period for a presidential declaration for major disaster.

(4) To be certified, the plan must be adopted by the members of the local or joint emergency management commission and attested to by the chairperson and the local emergency management coordinator on a form to be provided by the division.

(5) In addition to the standards heretofore established in paragraph 7.3(4)*"d,"* the operations plan shall include provisions for damage assessment.

(6) Hazardous materials plans shall meet the minimum requirements of federal law, 42 U.S.C., Sec. 11003.

(7) Counties designated as risk or host counties for a nuclear facility emergency planning zone shall meet the standards and requirements as published by the United States Nuclear Regulatory Commission and the Federal Emergency Management Agency in NUREG-0654, FEMA-REP-1, Rev. 1, March 1987.

(8) Local or joint emergency management commissions participating in or conducting exercises or experiencing real disaster incidents, which require after action and corrective action reports, have 180 days from the date of the publication of the corrective action report to incorporate the corrective actions, as appropriate, in their plans.

(9) Required plans or portions of plans, submitted for approval to the division by a local or joint emergency management commission, shall be reviewed within 60 calendar days from the receipt of the plan. The division shall notify the local emergency management coordinator in writing of the approval or nonapproval of the plan. If the plan is not approved, the division shall state the specific standard or standards that are not being met and offer guidance on how the plan may be brought into compliance.

(10) A comprehensive countywide emergency operations plan shall not be considered approved by the emergency management division as required in Iowa Code subsection 29C.9(8) unless such plan adheres to and meets the minimum standards as established in paragraph 7.3(4)*"d."*

(11) Iowa Code section 29C.6 provides that state participation in funding financial assistance in a presidentially declared disaster is contingent upon the local government's having on file a state-approved, comprehensive, countywide plan as provided in Iowa Code subsection 29C.9(8). Required plans must

be received by the division within 180 days of the formal closing of the disaster incident period for a presidential declaration for major disaster for the affected county, and must be approved by the division within 240 days of this date for public or private nonprofit entities within the county to be eligible to receive state financial assistance.

e. Direction, control and coordination.

(1) The commission shall execute and enforce the orders or rules made by the governor, or under the governor's authority.

(2) The commission shall establish and maintain the capability to effectively direct, control and coordinate emergency and disaster response and recovery efforts.

(3) The commission shall establish a means of interfacing on-scene management with direction and control personnel and facilities.

(4) The commission should actively support use of the Incident Command System (ICS) model by all emergency and disaster response agencies within the jurisdiction.

f. Damage assessment.

(1) The commission shall develop and maintain a damage assessment capability consistent with local, state and federal requirements and shall designate individuals responsible for the function of damage assessment.

(2) Individuals identified by the commission to perform the function of damage assessment shall be trained through a course of instruction approved by the division.

g. Communications and warning.

(1) The commission should identify a means of disseminating a warning to the public, key officials, emergency response personnel and those other persons within the jurisdiction that may be potentially affected.

(2) The commission should identify the primary and secondary means of communications to support direction, control, and coordination of emergency management activities.

h. Operations and procedures. The commission should encourage public and private agencies, having defined responsibilities in the countywide emergency operations plan, to develop standard operating procedures, policies, and directives in support of the plan.

i. Training.

(1) The commission shall require the local emergency management coordinator to meet the minimum training requirements as established by the division and identified in subrule 7.4(4).

(2) The commission should, in conjunction with the local emergency management coordinator, arrange for and actively support ongoing emergency management related training for local public officials, emergency responders, volunteers, and support staff.

(3) Persons responsible for emergency plan development or implementation should receive training specific to, or related to, hazards identified in the local hazard analysis.

(4) The commission should encourage individuals, other than the emergency management coordinator, with emergency management responsibilities as defined in the countywide emergency operations plan, to complete, within two years of appointment, training consistent with their emergency management responsibilities.

(5) The commission should encourage all individuals with emergency management responsibilities to maintain current and adequate training consistent with their responsibilities.

j. Exercises.

(1) The commission shall ensure that exercise activities are conducted annually in accordance with local, state and federal requirements.

(2) Exercise activities should follow a progressive five-year plan that is designed to meet the needs of the jurisdiction.

(3) Local entities assigned to an exercise should actively participate and support the role of the entity in the exercise.

(4) Local entities assigned to an exercise should actively participate in the design, development, implementation, and evaluation of the exercise activity.

k. Public education and information.

(1) The commission should designate the individual or individuals who are responsible for public education and information functions.

(2) The commission should ensure a public information capability, to include:

1. Designated public information personnel trained to meet local requirements.
2. A system of receiving and disseminating emergency public information.
3. A method to develop, coordinate, and authorize the release of information.
4. The capability to communicate with special needs populations.

(3) The commission should actively support the development of capabilities to electronically collect, compile, report, receive, and transmit emergency public information.

7.3(5) Two or more commissions. Two or more local commissions may, upon review by the state administrator and with the approval of their respective boards of supervisors and cities, enter into agreements pursuant to Iowa Code chapter 28E for the joint coordination and administration of emergency management services throughout the multicounty area.

605—7.4(29C) Emergency management coordinator.

7.4(1) Each county emergency management commission or joint commission shall appoint an emergency management coordinator who shall serve at the pleasure of the commission. The commission shall delegate to the emergency management coordinator the authority to fulfill the commission's and coordinator's duties as provided in Iowa Code sections 29C.9 and 29C.10, as further described in subrule 7.3(4), and as otherwise assigned and authorized by the commission.

7.4(2) Political activity.

a. A member of a local or joint commission shall not be appointed as the emergency management coordinator.

b. An individual serving in a full-time or part-time governmental position incompatible with the position of coordinator shall not be appointed as the emergency management coordinator.

c. Any employee of an organization for emergency management shall not become a candidate for any partisan elective office. However, the employee is not precluded from holding any nonpartisan elective office for which no pay or only token payment is received.

7.4(3) Emergency management coordinator qualifications. Each person appointed after July 1, 1990, as an emergency management coordinator shall meet the following requirements with regard to education, abilities, experience, knowledge and skills:

a. Demonstrate a knowledge of local, state, and federal laws and regulations pertaining to emergency management.

b. Demonstrate an understanding of communications systems, frequencies, and equipment capabilities.

c. Demonstrate a knowledge of basic accounting principles and practices.

d. Express oneself clearly and concisely, both orally and in writing.

e. Establish and maintain effective working relationships with employees, public officials, and the general public.

f. Prepare accurate reports.

g. Write plans, direct the use of resources, and coordinate emergency operations under extraordinary circumstances.

h. Exercise good judgment in evaluating situations and making decisions.

i. Coordinate with agencies at all levels of government.

j. Have graduated from an accredited four-year college or university and have two years of responsible experience in emergency management, public or business administration, public relations, military preparedness or related work; or have an equivalent combination of experience and education, substituting 30 semester hours of graduate study for each year of the required work experience to a maximum of two years; or have an equivalent combination of experience and education, substituting one year of experience in the aforementioned areas for each year of college to a maximum of four years; or be an employee with current continuous experience in the state classified service that includes the equivalent of 18 months of full-time experience as an emergency management operations officer;

or be an employee with current continuous experience in the state classified service that includes the equivalent of 36 months of full-time experience as a local emergency management assistant.

7.4(4) Emergency management coordinator continuing education requirements. Each local coordinator shall meet the following educational development requirements. The administrator may extend the time frame for meeting these continuing education requirements upon request from the local or joint commission.

a. Within five years of appointment as an emergency management coordinator, the person must complete the following ten independent study courses as prescribed by the Federal Emergency Management Agency:

(1) Citizens Guide to Disaster Assistance IS-7.
(2) The EOC's Role in Community Preparedness, Response and Recovery Activities IS-775.
(3) Emergency Manager: An Orientation to the Position IS-1.
(4) Are You Ready? An In-depth Guide to Citizen Preparedness IS-22.
(5) An Introduction to Hazardous Materials IS-5A.
(6) Introduction to Incident Command System IS-100.a.
(7) ICS for Single Resources and Initial Action Incidents IS-200.a.
(8) Radiological Emergency Management IS-3.
(9) Introduction to Hazard Mitigation IS-393.a.
(10) Emergency Management Program Development.

b. Within five years of appointment as an emergency management coordinator, the person must complete the professional development series of courses as prescribed by the Federal Emergency Management Agency.

c. Upon completion of the requirements established in subrule 7.4(4), paragraphs *"a"* and *"b,"* a person must complete annually a minimum of 24 hours of state-approved emergency management training. Since completion of the annual training will follow the federal fiscal year, October 1 to September 30, the requirement to complete 24 hours of annual training will commence on the next October 1.

d. The local emergency management coordinator must document completion of courses by submitting a copy of the certificate of completion, a letter indicating satisfactory completion, or other appropriate documentation.

e. The Iowa homeland security and emergency management division, in conjunction with the Iowa Emergency Management Association, may substitute courses when deemed appropriate.

f. An emergency management coordinator who has met the baseline requirements prior to October 1, 2006, will not be required to take any of the new courses listed above to reestablish the person's baseline.

[**ARC 8116B**, IAB 9/9/09, effective 10/14/09]

605—7.5(29C) Local commission or joint commission personnel.

7.5(1) Personnel for the local commission or joint commission shall be considered as employees of that local commission to include the coordinator, operations officers, and emergency management assistants.

7.5(2) The local or joint commission shall determine the personnel policies of the agency to include holidays, rate of pay, sick leave, vacation, and health benefits. The local commission may adopt existing county or city policies in lieu of writing their own policies.

605—7.6(29C) Damage assessment and financial assistance for disaster recovery. Disaster-related expenditures and damages incurred by local governments, private nonprofit entities, individuals, and businesses may be reimbursable and covered under certain state and federal disaster assistance programs. Preliminary damage assessments shall be provided to the emergency management division prior to the governor's making a determination that the magnitude and impact are sufficient to warrant a request for a presidential disaster declaration.

7.6(1) *Local preliminary damage assessment and impact statement.* The county emergency management coordinator shall be responsible for the coordination and collection of damage assessment and impact statement information immediately following a disaster that affects the county or any municipality within the county.

7.6(2) *Damage assessment guidance and forms to be provided.* The state emergency management division will provide guidance regarding the methodologies to be used in collecting damage assessment and impact statement information and shall provide the forms and format by which this information shall be recorded.

7.6(3) *Joint preliminary damage assessment.* Once the governor has determined that a request for a presidential disaster declaration is appropriate, joint preliminary damage assessment teams, consisting of local, state, and federal inspectors, will assess the uninsured damages and costs incurred or to be incurred in responding to and recovering from the disaster. All affected city, municipality, or county governments shall be required to provide assistance to the joint preliminary damage assessment teams for conducting damage assessments. The jurisdiction may be required to develop maps to show the damaged areas and to compile lists of names and telephone numbers of individuals, businesses, private nonprofit entities, and governmental agencies sustaining disaster response and recovery costs or damages. This joint preliminary damage assessment may be required before the request for presidential declaration is formally transmitted to the Federal Emergency Management Agency.

7.6(4) *Public assistance and hazard mitigation briefing.* In the event that a presidential disaster declaration is received, affected jurisdictions and eligible private nonprofit entities should be prepared to attend a public assistance and hazard mitigation briefing to acquire the information and documents necessary to make their formal applications for public and hazard mitigation assistance. Failure to comply with the deadlines for making application for public and mitigation assistance as established in 44 CFR Part 206 and the Stafford Act (PL 923-288) may jeopardize or eliminate the jurisdiction's or private nonprofit entity's ability to receive assistance.

7.6(5) *Forfeiture of assistance funding.* Failure to provide timely and accurate damage assessment and impact statement information may jeopardize or eliminate an applicant's ability to receive federal and state disaster assistance funds that may otherwise be available.

State participation in funding of disaster financial assistance in a presidentially declared disaster shall be contingent upon the local or joint emergency management commission's having on file a state-approved, comprehensive, countywide emergency operations plan which meets the standards as provided in subrule 7.3(4), paragraph *"d."*

605—7.7(29C) Emergency management performance grant (EMPG) program. Emergency management is a joint responsibility of the federal government, the states, and their political subdivisions. Emergency management means all those activities and measures designed or undertaken to mitigate against, prepare for, respond to, or recover from the effects of a human-caused, technological, or natural hazard. The purpose of the emergency management performance grant program is to provide the necessary assistance to local governments to ensure that a comprehensive emergency preparedness system exists for all hazards.

7.7(1) *Eligibility.* Local or joint emergency management commissions may be eligible for funding under the state and emergency management performance grant program by meeting the requirements, conditions, duties and responsibilities for emergency management commissions and county emergency management coordinators established in rules 7.3(29C) and 7.4(29C). In addition, the local commission shall ensure that the coordinator works an average of 20 hours per week or more toward the emergency management effort. Joint commissions shall ensure that the coordinator works an average of 40 hours per week toward the emergency management effort.

7.7(2) *Application for funding.* Local or joint commissions may apply for funding under the emergency management performance grant program by entering into an agreement with the division and by completing the necessary application and forms, as published and distributed yearly to each commission by the division.

7.7(3) *Allocation and distribution of funds.*

a. The homeland security and emergency management division shall allocate funds to eligible local or joint commissions within 45 days of receipt of notice from the federal Department of Homeland Security, Preparedness Directorate, Office of Grants and Training, that such funds are available. The division shall use a formula for the allocation of funds based upon the number of eligible applicants, the part-time or full-time status of the coordinator, 50 percent equal-share base, and 50 percent population base. The total allocation of funds for an applicant may not exceed the lesser of $39,000 or the amount requested by the applicant.

b. The formula shall be applied in the following manner: The pass-through amount is divided equally between an equal-share base and a population base.

(1) The amount of total equal-share base dollars is divided by the total number of EMPG counties to establish a per-county average. For counties with part-time coordinators, the per-county average is reduced by 50 percent to determine the part-time county allocation. The total baseline dollar amount, minus the cumulative total dollars already allocated to part-time counties, is then divided by the total number of counties with full-time coordinators to determine the full-time county allocation.

(2) The population base amount for each county is determined by adding the populations of all counties together; then each county's population is divided by that total population to determine a percentage. The total population base dollars are then multiplied by a county's percentage to determine that county's share of the population dollars.

c. Funds will be reimbursed to local and joint commissions on a federal fiscal year, quarterly basis; and such reimbursement will be based on eligible claims made against the local or joint commission's allocation. In no case will the allocation or reimbursement of funds be greater than one-half of the total cost of eligible emergency management related expenses.

7.7(4) *Compliance.* The administrator may withhold or recover emergency management performance grant funds from any local or joint commission for its failure or its coordinator's failure to meet any of the following conditions:

a. Appoint a qualified coordinator.

b. Comply with continuing education requirements.

c. Adopt a comprehensive countywide emergency operations plan that meets current standards.

d. Determine the mission of its agency.

e. Show continuing progress in fulfilling the commission's duties and obligations.

f. Conduct commission business according to the guidelines and rules established in this chapter.

g. Enter into and file a cooperative agreement with the division by the stipulated filing date.

h. Abide by state and federal regulations governing the proper disbursement and accountability for federal funds, equal employment opportunity and merit system standards.

i. Accomplish work specified in one or more program areas, as agreed upon in the cooperative agreement, or applicable state or federal rule or statute.

j. Provide the required matching financial contribution.

k. Expend funds for authorized purposes or in accordance with applicable laws, regulations, terms and conditions.

l. Respond to, or cooperate with, state efforts to determine the extent and nature of compliance with the cooperative agreement.

7.7(5) *Serious nonperformance problems.* If a local or joint commission cannot demonstrate achievement of agreed-upon work products, the division is empowered to withhold reimbursement or to recover funds from the local or joint commission. Corrective action procedures are designed to focus the commission's attention on nonperformance problems and to bring about compliance with the cooperative agreement. Corrective action procedures, which could lead to sanction, may be enacted as soon as the administrator becomes aware of serious nonperformance or noncompliance. This realization may arise from staff visits or other contacts with the local agency or commission, from indications in the commission's or coordinator's quarterly report that indicate a significant shortfall from planned accomplishments, or from the commission's or coordinator's failure to report. Financial sanctions are

to be applied only after corrective action remedies fail to result in accomplishment of agreed-upon work product.

7.7(6) *Corrective actions.*

a. *Informal corrective action.* As a first and basic step to correcting nonperformance, a designated member of the state emergency management division staff will visit, call or write the local coordinator to determine the reason for nonperformance and seek an agreeable resolution.

b. *Formal corrective action.* On those occasions when there is considerable discrepancy between agreed-upon and actual performance and response to informal corrective action is not sufficient or agreeable, the division will take the following steps:

(1) Emergency management staff will review the scope of work, as agreed to in the cooperative agreement, to determine the extent of nonperformance. To focus attention on the total nonperformance issue, all instances of nonperformance will be addressed together in a single correspondence to the local or joint commission.

(2) The administrator will prepare a letter to the local or joint commission which will contain, at a minimum, the following information:

1. The reasons why the division believes the local or joint commission may be in noncompliance, including the specified provisions in question.

2. A description of the efforts made by the division to resolve the matter and the reasons these efforts were unsuccessful.

3. A declaration of the local or joint commission's commitment to accomplishing the work agreed upon and specified in the comprehensive cooperative agreement and its importance to the emergency management capability of the local jurisdiction.

4. A description of the exact actions or alternative actions required of the local or joint commission to bring the problem to an agreed resolution.

5. A statement that this letter constitutes the final no-penalty effort to achieve a resolution and that financial sanctions provided for in these rules will be undertaken if a satisfactory response is not received by the division within 30 days.

7.7(7) *Financial sanctions.* If the corrective actions heretofore described fail to produce a satisfactory resolution to cases of serious nonperformance, the administrator may invoke the following financial sanction procedures:

a. Send a "Notice of Intention to Withhold Payment" to the chairperson of the local or joint commission. This notice shall also contain notice of a reasonable time and place for a hearing, should the local or joint commission request a hearing before the administrator.

b. Any request by a local or joint commission for a hearing must be made in writing, to the division, within 15 days of receipt of the notice of intention to withhold payment.

c. Any hearing under the notice of intention to withhold payment shall be held before the administrator. However, the administrator may designate an administrative law judge to take evidence and certify to the administrator the entire record, including findings and recommended actions.

d. The local or joint commission shall be given full opportunity to present its position orally and in writing.

e. If, after a hearing, the administrator finds sufficient evidence that the local or joint commission has violated established rules and regulations or the terms and conditions of the cooperative agreement, the administrator may withhold such contributions and payments as may be considered advisable, until the failure to expend funds in accordance with said rules, regulations, terms and conditions has been corrected or the administrator is satisfied that there will no longer be any such failure.

f. If upon the expiration of the 15-day period stated for a hearing, a hearing has not been requested, the administrator may issue the findings and take appropriate action as described in the preceding paragraph.

g. If the administrator finds there is serious nonperformance by the commission or its coordinator and issues an order to withhold payments to the local or joint commission as described in this rule, the commission shall not receive funds under the emergency management performance grant program for the

remainder of the federal fiscal year in which the order is issued and one additional year or until such time that all issues of nonperformance have been agreeably addressed by the division and the commission.

h. Any emergency management perforce grant program funds withheld or recovered by the division as a result of this process shall be reallocated at the end of the federal fiscal year to the remaining participating counties.

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PLUMBING AND MECHANICAL SYSTEMS BOARD—ADMINISTRATIVE AND REGULATORY AUTHORITY

641—27.1(17A,105) Definitions. For purposes of this chapter, the following definitions apply:

"Board" means the plumbing and mechanical systems board.

"Board office" means the office of the administrative staff.

"Department" means the department of public health.

"Disciplinary proceeding" means any proceeding under the authority of the board pursuant to which licensee discipline may be imposed.

"License" means a license to operate as a contractor or work in the plumbing, HVAC, refrigeration, or hydronic disciplines or work as a certified medical gas system installer or work in the specialty license disciplines developed by the board.

"Licensee" means a person or entity licensed to operate as a contractor or work in the plumbing, HVAC, refrigeration, or hydronic disciplines or work as a certified medical gas system installer or work in the specialty license disciplines developed by the board.

[**ARC 8528B**, IAB 2/24/10, effective 1/26/10]

641—27.2(17A,105,83GA,ch151) Purpose of board. The purpose of the board is to administer and enforce the provisions of Iowa Code chapters 17A and 105 with regard to the licensing and regulation of plumbers, mechanical professionals, and contractors. The mission of the board is to protect the public health, safety and welfare by licensing qualified individuals who provide services to consumers and by fair and consistent enforcement of the statutes and regulations of the licensure board. Responsibilities include, but are not limited to:

27.2(1) Licensing of qualified applicants to operate as a contractor or work in the plumbing, HVAC, refrigeration, or hydronic disciplines or work as a certified medical gas system installer or work in the specialty license disciplines developed by the board by examination, renewal, endorsement, and reciprocity.

27.2(2) Developing and administering a program of continuing education to ensure the continued competency of individuals licensed by the board.

27.2(3) Imposing discipline on licensees as provided by statute or rule.

[**ARC 8528B**, IAB 2/24/10, effective 1/26/10]

641—27.3(17A,105) Organization of board and proceedings.

27.3(1) The board shall be composed of 11 members appointed by the governor. The board members identified in subrule 27.3(2), paragraphs *"c"* to *"i,"* are subject to confirmation by the senate.

27.3(2) The members of the board shall include:

a. The director of public health or the director's designee;

b. The commissioner of public safety or the commissioner's designee;

c. One plumbing inspector;

d. One mechanical inspector;

e. One contractor who works primarily in rural areas;

f. One individual licensed as a journeyperson plumber pursuant to the provisions of Iowa Code chapter 105 or, for the initial membership of the board, an individual eligible for such licensure;

g. One individual working as a plumbing contractor and licensed as a master plumber pursuant to the provisions of Iowa Code chapter 105 or, for the initial membership of the board, an individual eligible for such licensure;

h. Two individuals licensed as journeyperson mechanical professionals pursuant to the provisions of Iowa Code chapter 105 or, for the initial membership of the board, two individuals eligible for such licensure; and

i. Two individuals licensed as master mechanical professionals pursuant to the provisions of Iowa Code chapter 105 or, for the initial membership of the board, two individuals eligible for such licensure. One of these individuals shall be a mechanical systems contractor.

27.3(3) The board shall elect a chairperson, vice chairperson, and secretary from its membership at the first meeting after April 30 of each year.

27.3(4) The board shall hold at least four meetings annually.

27.3(5) A majority of the members of the board shall constitute a quorum.

27.3(6) Board meetings shall be governed in accordance with Iowa Code chapter 21, and the board's proceedings shall be conducted in accordance with Robert's Rules of Order, Revised.

27.3(7) The department shall furnish the board with the necessary facilities and employees to perform the duties required by this chapter but shall be reimbursed for all costs incurred from funds appropriated to the board and subsequent fees from licensing activities.

27.3(8) The board has the authority to:

a. Develop and implement a program of continuing education to ensure the continued competency of individuals licensed by the board.

b. Establish fees.

c. Establish committees of the board, the members of which shall be appointed by the board chairperson and shall not constitute a quorum of the board. The board chairperson shall appoint committee chairpersons.

d. Hold a closed session if the board votes to do so in a public roll-call vote with an affirmative vote of at least two-thirds if the total board is present or a unanimous vote if fewer are present. The board will recognize the appropriate statute allowing for a closed session when voting to go into closed session. The board shall keep minutes of all discussion, persons present, and action occurring at a closed session and shall tape-record the proceedings. The records shall be stored securely in the board office and shall not be made available for public inspection.

e. Investigate alleged violations of statutes or rules that relate to operation as a contractor; work in the plumbing, HVAC, refrigeration, or hydronic disciplines; work as a certified medical gas system installer; or work in the specialty license disciplines developed by the board upon receipt of a complaint or upon the board's own initiation. The investigation will be based on information or evidence received by the board.

f. Initiate and impose licensee discipline.

g. Monitor licensees that are restricted by a board order.

h. Perform any other functions authorized by a provision of law.

[**ARC 8528B**, IAB 2/24/10, effective 1/26/10]

641—27.4(17A,105) Official communications.

27.4(1) All official communications, including submissions and requests, may be addressed to the Plumbing and Mechanical Systems Board, Lucas State Office Building, 321 E. 12th Street, Des Moines, Iowa 50319-0075.

27.4(2) Notice of change of address. Each licensee and licensed entity shall notify the board of a change of the current mailing address within 30 days after the occurrence.

27.4(3) Notice of change of name. Each licensee shall notify the board in writing of a change of name within 30 days after the occurrence.

[**ARC 8528B**, IAB 2/24/10, effective 1/26/10]

641—27.5(17A,105) Office hours. The board office is open for public business from 8 a.m. to 4:30 p.m., Monday to Friday of each week, except holidays.

641—27.6(21) Public meetings. Members of the public may be present during board meetings unless the board votes to hold a closed session. Dates and location of board meetings may be obtained through the Iowa department of public health's Web site (http://www.idph.state.ia.us) or directly from the board office.

27.6(1) At every regularly scheduled board meeting, time will be designated for public comment. During the public comment period, any person may speak for up to two minutes. Any additional time allowances will be at the discretion of the chairperson or acting chairperson.

27.6(2) Persons who have not asked to address the board during the public comment period may raise their hands to be recognized by the chairperson. Acknowledgment and an opportunity to speak will be at the discretion of the chairperson.

27.6(3) The person presiding at a meeting of the board may exclude a person from an open meeting for behavior that obstructs the meeting.

27.6(4) Cameras and recording devices may be used at open meetings, provided the cameras or recording devices do not obstruct the meeting. If the user of a camera or recording device obstructs the meeting by the use of such device, the person presiding at the meeting may request the user to discontinue use of the camera or device.

[**ARC 8528B**, IAB 2/24/10, effective 1/26/10]

These rules are intended to implement Iowa Code chapters 17A and 105.

[Filed 10/17/08, Notice 9/10/08—published 11/5/08, effective 12/10/08]

[Filed Emergency After Notice ARC 8528B (Notice ARC 8360B, IAB 12/2/09), IAB 2/24/10, effective 1/26/10]

CHAPTER 28
PLUMBING AND MECHANICAL SYSTEMS BOARD—LICENSURE FEES

641—28.1(105) Fees. All fees are nonrefundable.

28.1(1) License fee for:

a. An apprentice license as defined in 641—subrule 29.2(1) is $50.

b. A journey license as defined in 641—subrule 29.2(2) is $100.

c. A master license as defined in 641—subrule 29.2(3) is $250.

d. A medical gas pipe certificate as defined in 641—29.3(105) is $50.

e. An inactive license as defined in 641—subrules 29.2(5) and 29.2(6) is $50.

f. A contractor license as defined in 641—subrule 29.2(4) is $250.

g. A special restricted license as defined in 641—subrules 29.2(8), 29.2(9), 29.2(10), and 29.2(11) is $50.

28.1(2) Reciprocal license fee for:

a. An apprentice license as defined in 641—subrule 29.2(1) is $50.

b. A journey license as defined in 641—subrule 29.2(2) is $100.

c. A master license as defined in 641—subrule 29.2(3) is $250.

28.1(3) Renewal license fee for:

a. An apprentice license as defined in 641—subrule 29.2(1) is $50.

b. A journey license as defined in 641—subrule 29.2(2) is $100.

c. A master license as defined in 641—subrule 29.2(3) is $250.

d. A medical gas pipe certificate as defined in 641—29.3(105) is $50.

e. An inactive license as defined in 641—subrules 29.2(5) and 29.2(6) is $50.

f. A contractor license as defined in 641—subrule 29.2(4) is $250.

g. A special restricted license as defined in 641—subrules 29.2(8), 29.2(9), 29.2(10), and 29.2(11) is $50.

28.1(4) The examination application fee is $35.

28.1(5) A late fee for failure to renew before expiration is determined as follows:

a. A licensee who allows a license to lapse for one month or less may reinstate and renew the license without examination upon payment of a $60 late fee and appropriate renewal of license fee.

b. A licensee who allows a license to lapse for more than one month but less than two months may reinstate and renew the license without examination upon payment of a late fee equivalent to the appropriate license fee and appropriate renewal of license fee.

c. A licensee who allows a license to lapse for more than two months is required to retake and pass the applicable licensing examination and pay the appropriate renewal of license fee in order to obtain reinstatement. A licensee whose license has lapsed continues to hold the privilege of licensure in Iowa, but may not work as a plumbing or mechanical professional or contractor in Iowa until the license is renewed. A licensee who works as a plumbing or mechanical professional, including under a special restricted license, or operates as a contractor in the state of Iowa with a lapsed license may be subject to disciplinary action by the board, injunctive action pursuant to Iowa Code section 147.83, criminal sanctions pursuant to Iowa Code section 147.86, and other available legal remedies.

28.1(6) The duplicate or reissued license certificate or wallet card fee is $20.

28.1(7) The fee for written verification of licensee status is $20.

28.1(8) The returned check fee is $25.

28.1(9) The disciplinary hearing fee is a maximum of $75.

28.1(10) The paper application fee is $25 plus the appropriate license fee. **[See Objection at end of chapter]**

28.1(11) Combined license.

a. For purposes of this subrule, "combined license" shall mean more than one active master or journeyperson license under subrules 28.1(1) through 28.1(3) in one or multiple disciplines.

b. A license fee for a combined license shall be the sum total of each of the separate license fees reduced by 30 percent.

c. In order to be eligible for the combined license fee reduction, all individual licenses must be purchased in a single transaction.

[Editorial change: IAC Supplement 2/25/09; **ARC 8529B**, IAB 2/24/10, effective 1/26/10]

641—28.2(105) Biennial review of fee schedule. Commencing July 2010 and every biennium thereafter, the plumbing and mechanical systems examining board shall review its revenue, including amounts generated from licensure fees set forth in this chapter, and its expenses for purposes of revisiting and reevaluating the fee structures.

These rules are intended to implement Iowa Code chapters 105 and 272C.

[Filed emergency 12/23/08 after Notice 11/5/08—published 1/14/09, effective 1/1/09]

[Editorial change: IAC Supplement 2/25/09]

[Filed Emergency After Notice ARC 8529B (Notice ARC 8361B, IAB 12/2/09), IAB 2/24/10, effective 1/26/10]

OBJECTION

At its February 6, 2009 meeting the Administrative Rules Review Committee voted two separate objections to certain provisions of ARC 7516B relating to plumbing and mechanical systems licensure. This filing appears in IAB Vol. XXXI, No. 15 (01-14-09). The committee takes this action pursuant to the authority of §17A.4(5).

The committee objects to paragraphs 28.1(2)"d" and (3)"d" relating to the total fee for combined licenses. Committee members believe that it is unreasonable, and imposes an unnecessary hardship, to charge the face value of each license for individuals who need combined licenses. **[Editor's Note: Paragraphs 28.1(2)"d" and (3)"d" were rescinded and subsequent paragraphs were relettered pursuant to ARC 8529B, IAB 2/24/10.]**

The committee also objects to paragraph 28.1(10) which imposes a twenty-five dollar surcharge for applicants who file paper applications instead of electronic. Committee members believe that it is unreasonable to impose a penalty on individuals who may not have access to, or have the expertise to use internet-based application and payment procedures.

Objection filed February 10, 2009

CHAPTER 29
PLUMBING AND MECHANICAL SYSTEMS BOARD— APPLICATION, LICENSURE, AND EXAMINATION

641—29.1(105) Definitions. For purposes of these rules, the following definitions shall apply:

"Applicable" means having relevance; appropriate.

"Apprentice" means any person, other than a helper, journeyperson, or master, who, as a principal occupation, is engaged in working as an employee of a plumbing, HVAC, refrigeration, or hydronic systems contractor under the supervision of either a master or a journeyperson and is progressing toward completion of an apprenticeship training program registered by the Office of Apprenticeship of the United States Department of Labor while learning and assisting in the design, installation, and repair of plumbing, HVAC, refrigeration, or hydronic systems, as applicable.

"Board" means the plumbing and mechanical systems board.

"Corresponding" means the same discipline.

"Department" means the Iowa department of public health.

"Disconnect/reconnect plumbing technician specialty license" means a sublicense under a plumbing license to perform work from the appliance shutoff valve or fixture shutoff valve to the appliance or fixture and any part or component of the appliance or fixture, including the disconnection and reconnection of the existing appliance or fixture to the water or sewer piping and the installation of a shutoff valve no more than 3 feet from the appliance or fixture.

"Emergency repairs" means the repair of water pipes to prevent imminent damage to property.

"Hearth systems specialty license" means a sublicense under an HVAC license to perform work in the installation of gas burning and solid fuel appliances that offer a decorative view of the flames, from the connector pipe to the shutoff valve located within 3 feet of the appliance. This sublicense is further allowed to perform work in the venting systems, log lighters, gas log sets, fireplace inserts, and freestanding stoves.

"HVAC" means heating, ventilation, air conditioning, and ducted systems. "HVAC" includes all natural, propane, liquid propane, or other gas lines associated with any component of an HVAC system.

"Hydronic" means a heating or cooling system that transfers heating or cooling by circulating fluid through a closed system, including boilers, pressure vessels, refrigerated equipment in connection with chilled water systems, all steam piping, hot or chilled water piping together with all control devices and accessories, installed as part of, or in connection with, any comfort heating or comfort cooling system or appliance using a liquid, water, or steam as the heating or cooling media. "Hydronic" includes all low-pressure and high-pressure systems and all natural, propane, liquid propane, or other gas lines associated with any component of a hydronic system.

"Inactive license" means a license that is available for a plumbing, HVAC, refrigeration, or hydronic professional who is not actively engaged in running a business or working in the business in the corresponding discipline at that license level.

"Journeyperson" means any person, other than a master, who, as a principal occupation, is engaged as an employee of, or otherwise working under the direction of, a master in the design, installation, and repair of plumbing, HVAC, refrigeration, or hydronic systems, as applicable.

"Licensee" means a person or entity licensed to operate as a contractor or work in the plumbing, HVAC, refrigeration, or hydronic disciplines or work as a certified medical gas system installer or work in the specialty license disciplines developed by the board.

"Master" means any person who works in the planning or superintending of the design, installation, or repair of plumbing, HVAC, refrigeration, or hydronic systems and is otherwise lawfully qualified to conduct the business of plumbing, HVAC, refrigeration, or hydronic systems, and who is familiar with the laws and rules governing the same.

"Mechanical systems" means HVAC, refrigeration, and hydronic systems.

"Medical gas system installer" means any person who installs or repairs medical gas piping, components, and vacuum systems, including brazers, who has been issued a valid certification from

the National Inspection Testing Certification (NITC) Corporation, or an equivalent authority approved by the board.

"Plumbing" means all potable water building supply and distribution pipes, all plumbing fixtures and traps, all drainage and vent pipes, and all building drains and building sewers, storm sewers, and storm drains, including their respective joints and connections, devices, receptors, and appurtenances within the property lines of the premises, and including the connection to sanitary sewer, storm sewer, and domestic water mains. "Plumbing" includes potable water piping, potable water treating or using equipment, medical gas piping systems, fuel gas piping, water heaters and vents, including all natural, propane, liquid propane, or other gas lines associated with any component of a plumbing system.

"Refrigeration" means any system of refrigeration regardless of the level of power, if such refrigeration is intended to be used for the purpose of food and product preservation and is not intended to be used for comfort systems.

"Routine maintenance" means the maintenance, repair, or replacement of existing fixtures or parts of plumbing, HVAC, refrigeration, or hydronic systems in which no changes in original design are made. Fixtures or parts do not include smoke and fire dampers or water, gas or steam piping permanent repairs except for traps or strainers. Routine maintenance shall include emergency repairs. "Routine maintenance" does not include the replacement of furnaces, boilers, cooling appliances, or water heaters more than 100 gallons in size.

"Service technician HVAC specialty license" means a sublicense under an HVAC license to perform work from the appliance shutoff valve to the appliance and any part and component of the appliance, including the disconnection and reconnection of the existing appliance to the gas piping and the installation of a shutoff valve no more than 3 feet away from the appliance.

"Surety bond" means a performance bond written by an entity licensed to do business in this state which guarantees that a contractor will fully perform the contract and which guarantees against breach of that contract.

[**ARC 8530B**, IAB 2/24/10, effective 1/26/10]

641—29.2(105) Available licenses and general requirements. Subject to the general requirements set forth herein and the minimum qualifications for licensure set forth in rule 641—29.4(105), the following licenses are available:

29.2(1) *Apprentice license.* An applicant for an apprentice license shall:

a. File an application and pay application fees in accordance with 641—29.5(105).

b. Be enrolled in an applicable apprentice program which is registered with the United States Department of Labor Office of Apprenticeship.

c. Certify that the applicant will work under the supervision of a licensed journeyperson or master in the applicable discipline by providing the department with the United States Department of Labor Office of Apprenticeship identification number and sponsor identification number.

29.2(2) *Journeyperson license.*

a. An applicant for a journeyperson license shall:

(1) File an application and pay application fees in accordance with rule 641—29.5(105).

(2) Pass the state journeyperson licensing examination in the applicable discipline.

(3) Provide the board with evidence that the applicant has completed at least four years of practical experience as an apprentice. Commencing January 1, 2010, the four years of practical experience required by this paragraph must be an apprenticeship training program registered by the United States Department of Labor Office of Apprenticeship. Documentation must be submitted on a form provided by the board.

b. Notwithstanding the journeyperson licensure requirements set forth in paragraph 29.2(2)*"a,"* an applicant who possesses a master level license and who seeks a journeyperson license in the same discipline shall file an application and pay application fees in accordance with rule 641—29.5(105).

29.2(3) *Master license.* An applicant for a master license shall:

a. File an application and pay application fees in accordance with rule 641—29.5(105).

b. Pass the state master licensing examination for the applicable discipline.

c. Provide the board with evidence that the applicant:

(1) Has previously been licensed as a master in the applicable discipline; or

(2) Has previously been licensed as a journeyperson in the applicable discipline and has at least two years of journeyperson experience in the applicable discipline.

29.2(4) *Contractor license.* An applicant for a contractor license shall:

a. File an application and pay application fees in accordance with rule 641—29.5(105).

b. Provide the applicant's Iowa workforce development contractor registration number.

c. Provide the board with evidence that the applicant maintains a permanent place of business.

d. Provide the board with evidence of a public liability insurance policy issued by an entity licensed to do business in this state with a minimum coverage amount of $500,000 and:

(1) If the applicant operates the contractor business as a sole proprietorship, provide the board with evidence that the applicant personally obtained the policy, or

(2) If the applicant operates the contractor business as an employee or owner of a legal entity, provide the board with evidence that the insurance policy is obtained by the entity and that the insurance covers all plumbing or mechanical work performed by the entity.

e. Provide the board with evidence of a surety bond issued by an entity licensed to do business in this state in a minimum amount of $5,000 and:

(1) If the applicant operates the contractor business as a sole proprietorship, provide the board with evidence that the applicant personally obtained the surety bond, or

(2) If the applicant operates the contractor business as an employee or owner of a legal entity, provide the board with evidence that the surety bond was obtained by the entity and that the surety bond covers all plumbing or mechanical work performed by the entity.

f. Provide a certificate to the board that the public liability insurance policy required under paragraph 29.2(4)*"d"* and the surety bond required under paragraph 29.2(4)*"e"* shall not be canceled without the entity first giving 15 days' written notice to the board.

g. Provide the board with evidence that the applicant holds an active master license or employs at least one person who holds an active master license issued under Iowa Code chapter 105.

29.2(5) *Active journeyperson license/inactive master license combination.* An applicant for an active journeyperson license and an inactive master license in the same discipline shall:

a. File an application and pay application fees for both an active journeyperson license and an inactive master license in accordance with rule 641—29.5(105).

b. Provide the board with evidence that the applicant meets the requirements for master licensure under subrule 29.2(3).

c. Provide evidence that the applicant is not performing plumbing, HVAC, refrigeration, or hydronic work for which a master license is required.

d. Acknowledge awareness that the applicant is unable to perform any plumbing, HVAC, refrigeration, or hydronic work for which a master license is required so long as the applicant's master license is held in inactive status.

29.2(6) *Inactive license.* An applicant for an inactive license that does not fall within subrule 29.2(5) shall:

a. File an application and pay application fees in accordance with rule 641—29.5(105).

b. Provide the board with evidence that the applicant meets the requirements for licensure under rule 641—29.2(105) at the applicable licensure level.

c. Provide the board with evidence that the applicant is not actively engaged working in the plumbing, HVAC, refrigeration, or hydronic disciplines for which licensure is required.

d. Acknowledge awareness that the applicant is unable to perform any plumbing, HVAC, refrigeration, or hydronic work for which licensure is required so long as the applicant's license is held in inactive status.

29.2(7) *Service technician HVAC specialty license.* An applicant for a service technician HVAC specialty license shall:

a. File an application and pay application fees in accordance with rule 641—29.5(105).

b. Provide the board with evidence that:

(1) The applicant possesses a valid certification from North American Technician Excellence, Inc. or an equivalent authority approved by the board, or

(2) The applicant completed a Service Technician Associate degree or equivalent educational or similar training approved by the board.

29.2(8) *Disconnect/reconnect plumbing technician specialty license.* An applicant for a disconnect/reconnect plumbing technician specialty license shall:

a. File an application and pay application fees in accordance with rule 641—29.5(105).

b. Provide the board with evidence that:

(1) The applicant is receiving or has previously received industry training to perform work covered under this specialty license, or

(2) The applicant completed a Service Technician Associate degree or equivalent educational or similar training approved by the board.

29.2(9) *Private school or college routine maintenance specialty license.* An applicant for a private school or college routine maintenance specialty license shall:

a. File an application and pay application fees in accordance with rule 641—29.5(105).

b. Provide the board with evidence that the applicant is currently employed by a private school or college.

c. Provide the board with evidence that the applicant is performing routine maintenance within the scope of employment with the private school or college.

29.2(10) *Hearth systems specialty license.* An applicant for a hearth systems specialty license shall:

a. File an application and pay application fees in accordance with rule 641—29.5(105).

b. Provide the board with evidence that the applicant possesses a valid certification issued by the National Fireplace Institute or equivalent authority approved by the board.

[**ARC 8530B**, IAB 2/24/10, effective 1/26/10]

641—29.3(105) Medical gas piping certification. The following certification is required for a person who performs work as a medical gas system installer. An applicant for a medical gas certificate shall:

29.3(1) File an application and pay applicable fees.

29.3(2) Possess valid certification from the National Inspection Testing Certification (NITC) Corporation, or an equivalent authority approved by the board. Documentation must be submitted on a form provided by the board.

[**ARC 8530B**, IAB 2/24/10, effective 1/26/10]

641—29.4(105) Minimum qualifications for licensure. The following minimum requirements shall apply to all licenses issued after July 1, 2008.

29.4(1) An applicant for any type of license must be at least 18 years old.

29.4(2) Effective January 1, 2010, all apprentice applicants must have completed a high school education or attained GED equivalent.

29.4(3) An applicant shall have no record of felony conviction relating to the profession as determined by the board.

29.4(4) Rescinded IAB 2/24/10, effective 1/26/10.

[**ARC 8530B**, IAB 2/24/10, effective 1/26/10]

641—29.5(105) General requirements for application for licensure. The following criteria shall apply to application for licensure.

29.5(1) On-line or paper application.

a. An applicant shall complete a board-approved application either on-line or on a paper application according to instructions contained in the application.

b. Applications can be completed on-line or on a paper application. Paper applications are available to download at http://www.idph.state.ia.us/eh/plumbing.asp or from the board office by writing to: Plumbing and Mechanical Systems Board, Iowa Department of Public Health, 312 E. 12th Street, 5th Floor, Des Moines, Iowa 50319-0075, or by calling 1-866-280-1521.

29.5(2) Fees. In order to be processed, each application must be accompanied by the appropriate fees as determined by the board. All fees are nonrefundable.

a. On-line application fees shall be paid by credit card only.

b. A paper application shall be accompanied by the appropriate fees payable by check or money order to the Iowa Plumbing and Mechanical Systems Board.

29.5(3) If the applicant is notified that the application is incomplete, the applicant must contact the board office within 90 days. The board may be contacted at: Plumbing and Mechanical Systems Board, Iowa Department of Public Health, 312 E. 12th Street, 5th Floor, Des Moines, Iowa 50319, or by calling 1-866-280-1521.

29.5(4) No application will be considered by the board without the appropriate verifiable documentation. An applicant must submit the following verifiable documentation:

a. A passing score for a discipline-appropriate examination provided by the testing vendor under contract with the board, when testing is required for a license.

b. Verification that the applicant has met the minimum requirements as defined in 641—29.4(105) and the established employment experience criteria for each type of license.

29.5(5) Complete applications shall be filed with the plumbing and mechanical systems board. Incomplete applications shall be considered invalid and after 90 days shall be destroyed.

[**ARC 8530B**, IAB 2/24/10, effective 1/26/10]

641—29.6(105) Examination.

29.6(1) An applicant for licensure as a plumbing or mechanical system professional that requires a state licensing examination must successfully pass the licensing examination for the discipline.

a. The examination will be administered by the board-approved vendor.

b. The board shall approve the specific examination to be used for each license type.

c. Rescinded IAB 2/24/10, effective 1/26/10.

29.6(2) Examination requirements.

a. The examination will be written and proctored by a nationally recognized testing agency selected by the board through a competitive bid process.

b. The examination will be offered periodically during the year. The time and location will rotate between multiple sites in the state of Iowa, as determined by the department, with approval of the board.

c. The examination will not be subject to review by applicants. The testing vendor shall, upon request from an applicant, provide information about the sections that the applicant failed, but shall not provide an applicant access to actual examination questions or answers. Any fees associated with the review process will be assessed by and payable to the testing vendor. The applicant is responsible for paying all associated examination fees.

d. A score of 75 percent or better will be considered passing.

29.6(3) Examination application requirements.

a. An applicant shall complete and submit a board-approved examination application either on-line or on a paper application a minimum of 15 business days prior to taking an examination. An applicant shall complete the application form according to instructions contained in the application.

b. Examination applications can be completed on-line or on a paper application. Paper applications are available to download at http://www.idph.state.ia.us/eh/plumbing.asp or from the board office by writing to: Plumbing and Mechanical Systems Board, Iowa Department of Public Health, 312 E. 12th Street, 5th Floor, Des Moines, Iowa 50319-0075, or by calling 1-866-280-1521.

c. Fees. In order to be processed, each application must be accompanied by the appropriate fees as determined by the board. All fees are nonrefundable.

(1) On-line examination application fees shall be paid by credit card only.

(2) A paper examination application shall be accompanied by the appropriate fees payable by check or money order to the Iowa Plumbing and Mechanical Systems Board.

d. No application will be considered by the board without the appropriate verifiable documentation.

e. The applicant will be notified and issued an examination entrance letter upon approval of the examination application.

f. If the applicant is notified that the application is incomplete, the applicant must contact the board office within 90 days. The board may be contacted at: Plumbing and Mechanical Systems Board, Iowa Department of Public Health, 312 E. 12th Street, 5th Floor, Des Moines, Iowa 50319, or by calling 1-866-280-1521.

g. Incomplete applications shall be considered invalid and after 90 days shall be destroyed.

h. Examination fees shall be payable directly to the board-approved testing vendor.

(1) All transactions shall be the responsibility of the applicant and testing vendor.

(2) The board shall not be held responsible for refunds from the testing vendor.

i. An applicant shall present current photo identification in order to sit for the examination.

j. An applicant for licensure by examination who does not pass the examination within one year from the original application date will be required to submit a new application.

k. A master examination applicant shall not receive permission to sit for a master examination unless the applicant establishes that the applicant:

(1) Has previously been licensed as a master in the applicable discipline; or

(2) Has previously been licensed as a journeyperson in the applicable discipline and has at least two years of journeyperson experience in the applicable discipline.

l. A journeyperson examination applicant may apply to sit for the examination up to 60 days prior to completion of the 48 months of required apprentice credit, which shall include the granting of advanced standing or credit for previously acquired experience, training, or skills.

[**ARC 8530B**, IAB 2/24/10, effective 1/26/10]

641—29.7(105) License renewal.

29.7(1) The period of licensure to operate as a contractor or work as a master, journeyperson or apprentice in the plumbing, HVAC, refrigeration, or hydronic disciplines or work as a certified medical gas system installer or work in the specialty license disciplines developed by the board shall be biennial (every two years).

a. The board shall send a renewal notice by regular mail to each licensee at the address on record at least 60 days prior to the expiration of the license.

b. The licensee is responsible for renewing the license prior to its expiration.

c. Failure of the licensee to receive the notice does not relieve the licensee of the responsibility for renewing the license.

29.7(2) Specific renewal requirements.

a. A licensee seeking renewal shall:

(1) Meet the continuing education requirements as set forth in rule 641—30.2(105). A licensee whose license was reactivated during the current renewal compliance period may use continuing education credit earned during the compliance period for the first renewal following reactivation; and

(2) Submit the completed renewal application and renewal fee before the license expiration date.

(3) Provide evidence that the licensee continues to meet the general requirements for licensure under rule 641—29.2(105).

b. Failure to renew a license within two months after the expiration of the license shall not invalidate the license, but a reasonable penalty may be assessed as adopted by rule, in addition to the license renewal fee, to allow reinstatement of the license.

(1) A licensee who allows a license to lapse for one month or less may reinstate and renew the license without examination upon payment of a late fee and appropriate renewal of license fee as defined in 641—subrule 28.1(5).

(2) A licensee who allows a license to lapse for more than one month but less than two months may reinstate and renew the license without examination upon payment of a late fee equivalent to the appropriate license fee and appropriate renewal of license fee as defined in 641—subrule 28.1(5).

c. A licensee who allows a license to lapse for more than two months is required to retake and pass the applicable licensing examination and pay appropriate renewal of license fee as defined in 641—subrule 28.1(5) in order to obtain reinstatement and renewal of that person's license.

(1) A licensee who fails to renew the license by the end of the two-month period has a lapsed license.

(2) A licensee whose license is lapsed may not operate as a contractor or work in the plumbing, HVAC, refrigeration, or hydronic disciplines or work as a certified medical gas system installer or work in the specialty license disciplines developed by the board until the license is reinstated and renewed.

(3) A licensee who operates as a contractor or works in the plumbing, HVAC, refrigeration, or hydronic disciplines or works as a certified medical gas system installer or works in the specialty license disciplines developed by the board in the state of Iowa with a lapsed license may be subject to disciplinary action by the board, injunctive action pursuant to Iowa Code chapter 105, criminal sanctions pursuant to Iowa Code chapter 105, and other available legal remedies.

[**ARC 8530B**, IAB 2/24/10, effective 1/26/10]

641—29.8(105) Denial of license. Rescinded IAB 2/24/10, effective 1/26/10.

These rules are intended to implement Iowa Code chapter 105.

[Filed emergency 12/23/08 after Notice 11/5/08—published 1/14/09, effective 1/1/09]

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CHAPTER 32
PLUMBING AND MECHANICAL SYSTEMS BOARD—LICENSEE DISCIPLINE

641—32.1(105,272C) Definitions. For purposes of this chapter, the following definitions apply:

"Board" means the plumbing and mechanical systems board as established pursuant to Iowa Code section 105.3.

"Discipline" means any sanction the board may impose upon licensees.

"Licensee" means any person licensed to practice pursuant to Iowa Code chapter 105.

[**ARC 8531B**, IAB 2/24/10, effective 1/26/10]

641—32.2(105,272C) Grounds for discipline. The board may impose any of the disciplinary sanctions provided in rule 641—32.3(105,272C) when the board determines that the licensee is guilty of any of the following acts or offenses:

32.2(1) Fraud in procuring a license. Fraud in procuring a license includes, but is not limited to, an intentional perversion of the truth in making application for a license to practice in this state, which includes the following:

a. False representations of a material fact, whether by word or by conduct, by false or misleading allegations, or by concealment of that which should have been disclosed when making application for a license in this state, or

b. Attempting to file or filing with the board or the department of public health any false or forged diploma, certificate, affidavit, identification or qualification in making an application for a license in this state.

32.2(2) Professional incompetence. Professional incompetence includes, but is not limited to:

a. A substantial lack of knowledge or ability to discharge professional obligations within the scope of the applicable licensed trade.

b. A substantial deviation from the standards of learning or skill ordinarily possessed and applied by others licensed in the applicable trade in the state of Iowa acting in the same or similar circumstances.

c. A failure to exercise the degree of care which is ordinarily exercised by the average licensee in the applicable trade acting in the same or similar circumstances.

d. Failure to conform to the minimal standard of acceptable and prevailing practice of a licensee in the applicable trade in this state.

e. Inability to practice in the trade with reasonable skill and safety by reason of illness, drunkenness, excessive use of drugs, narcotics, chemicals, or other type of material or as a result of a mental or physical condition.

f. Being adjudged mentally incompetent by a court of competent jurisdiction.

32.2(3) Knowingly making misleading, deceptive, untrue or fraudulent representations in the practice of the profession or engaging in unethical conduct or practice harmful or detrimental to the public. Proof of actual injury need not be established.

32.2(4) Habitual intoxication or addiction to the use of drugs.

32.2(5) Conviction of a felony related to the profession or occupation of the licensee or the conviction of any felony that would affect the licensee's ability to practice within the profession. A copy of the record or conviction or plea of guilty shall be conclusive evidence of such conviction.

32.2(6) Fraud in representations as to skill or ability.

32.2(7) Use of untruthful or improbable statements in advertisements.

32.2(8) Willful or repeated violations of Iowa Code chapter 105 or 272C.

32.2(9) Violation of a board rule.

32.2(10) Nonpayment of a state debt as evidenced by a certificate of noncompliance issued pursuant to Iowa Code chapter 272D and 641—Chapter 194.

32.2(11) Permitting another person to use the licensee's wall certificate, wallet card, or license number for any purpose.

32.2(12) Failure to cooperate with a board audit.

32.2(13) Failure to meet the continuing education requirements for licensure.

32.2(14) Submission of a false report of continuing education.

32.2(15) Failure to pay any outstanding fees or costs owed to the board.

32.2(16) Acceptance of any fee by fraud or misrepresentation.

32.2(17) Negligence by the licensee in the practice of the trade. Negligence by the licensee in the practice of the trade includes a failure to exercise due care, including negligent delegation of duties or supervision of employees or other individuals, whether or not injury results; or any conduct, practice, or conditions which impair the ability to safely and skillfully practice the trade.

32.2(18) Violation of a law, ordinance, or regulation of this state, or a political subdivision therein, another state, or the United States, which relates to the practice of the profession.

32.2(19) Revocation, suspension, or other disciplinary action taken by a licensing authority of this state, another state, territory, or country; or failure by the licensee to report in writing to the board revocation, suspension, or other disciplinary action taken by a licensing authority within 30 days of the final action. A stay by an appellate court shall not negate this requirement; however, if such disciplinary action is overturned or reversed by a court of last resort, the report shall be expunged from the records of the board.

32.2(20) Failure of a licensee or an applicant for licensure in this state to report any voluntary agreements restricting the practice in the trade in another state, district, territory, or country.

32.2(21) Failure to notify the board of a criminal conviction within 30 days of the action, regardless of the jurisdiction where it occurred.

32.2(22) Failure to notify the board within 30 days after the occurrence of any judgment or settlement of professional negligence claim or action.

32.2(23) Engaging in any conduct that subverts or attempts to subvert a board investigation.

32.2(24) Failure to comply with a subpoena issued by the board or otherwise fail to cooperate with an investigation of the board.

32.2(25) Failure to comply with the terms of a board order or the terms of a settlement agreement or consent order.

32.2(26) Failure to report another licensee to the board for any violations listed in these rules, pursuant to Iowa Code section 272C.9.

32.2(27) Knowingly aiding, assisting, procuring, or advising a person to unlawfully practice a trade included in Iowa Code chapter 105.

32.2(28) Failure to report a change in name or address within 30 days after it occurs.

32.2(29) Representing oneself as a licensed tradesperson when one's license has been suspended or revoked or when the license is on inactive status.

32.2(30) Permitting another person to use the licensee's license for any purpose.

32.2(31) Permitting an unlicensed employee or person under the licensee's control to perform activities that require a license.

32.2(32) Failure to apply and obtain a permit prior to performing work, if required by the state or a political subdivision therein.

32.2(33) Failure to pay all inspection fees, if required by the state or a political subdivision therein.

32.2(34) Failure to pay a permit fee, if required by the state or a political subdivision therein.

[**ARC 8531B**, IAB 2/24/10, effective 1/26/10]

641—32.3(105,272C) Method of discipline. The board has the authority to impose the following disciplinary sanctions:

1. Revocation of license.
2. Suspension of license until further order of the board or for a specific period.
3. Prohibit permanently, until further order of the board or for a specific period, the licensee's engaging in specified procedures, methods, or acts.
4. Probation.
5. Require additional education or training.
6. Require a reexamination.

7. Order a physical or mental evaluation, or order alcohol and drug screening within a time specified by the board.

8. Impose civil penalties not to exceed $5000.

9. Issue a citation and warning.

10. Such other sanctions allowed by law as may be appropriate.

[**ARC 8531B**, IAB 2/24/10, effective 1/26/10]

641—32.4(272C) Discretion of board. The following factors may be considered by the board in determining the nature and severity of the disciplinary sanction to be imposed:

1. The relative serious nature of the violation as it relates to ensuring a high standard of professional care to the citizens of this state;

2. The facts of the particular violation;

3. Any extenuating facts or other countervailing considerations;

4. The number of prior violations or complaints;

5. The seriousness of prior violations or complaints;

6. Whether remedial action has been taken; and

7. Such other factors as may reflect upon the competency, ethical standards, and professional conduct of the licensee.

[**ARC 8531B**, IAB 2/24/10, effective 1/26/10]

641—32.5(105) Civil penalties. The board may impose civil penalties by order against a person who is not licensed by the board based on the unlawful practices specified in Iowa Code section 105.27(1). In addition to the procedures set forth in Iowa Code chapter 105, this chapter shall apply.

32.5(1) *Unlawful practices.* Practices by an unlicensed person which are subject to civil penalties include, but are not limited to:

a. Acts or practices by unlicensed persons which require licensure to install or repair plumbing, HVAC, refrigeration, or hydronic systems under Iowa Code chapter 105.

b. Acts or practices by unlicensed persons which require certification to install or repair medical gas piping systems under Iowa Code chapter 105.

c. Engaging in the business of designing, installing, or repairing plumbing, HVAC, refrigeration, or hydronic systems without employing a licensed master.

d. Use or attempted use of a licensee's certificate or wallet card or use or attempted use of an expired, suspended, revoked, or nonexistent certificate.

e. Falsely impersonating a person licensed under Iowa Code chapter 105.

f. Providing false or forged evidence of any kind to the board in obtaining or attempting to obtain a license.

g. Other violations of Iowa Code chapter 105.

h. Knowingly aiding or abetting an unlicensed person or establishment in any activity identified in this rule.

32.5(2) *Investigations.* The board is authorized by Iowa Code subsection 17A.13(1) and Iowa Code chapter 105 to conduct such investigations as are needed to determine whether grounds exist to impose civil penalties against a nonlicensee. Complaint and investigatory files concerning nonlicensees are not confidential except as may be provided in Iowa Code chapter 22.

32.5(3) *Subpoenas.* Pursuant to Iowa Code section 17A.13(1) and Iowa Code chapter 105, the board is authorized in connection with an investigation of an unlicensed person to issue subpoenas to compel persons to testify and to compel persons to produce books, papers, records and any other real evidence, whether or not privileged or confidential under law, which the board deems necessary as evidence in connection with the civil penalty proceeding or relevant to the decision of whether to initiate a civil penalty proceeding. Board procedures concerning investigative subpoenas are set forth in rule 641—34.5(105).

32.5(4) *Notice of intent to impose civil penalties.* The notice of the board's intent to issue an order to require compliance with Iowa Code chapter 105 and to impose a civil penalty shall be served upon the nonlicensee by restricted certified mail, return receipt requested, or by personal service in accordance

with Iowa Rule of Civil Procedure 1.305. Alternatively, the nonlicensee may accept service personally or through authorized counsel. The notice shall include the following:

a. A statement of the legal authority and jurisdiction under which the proposed civil penalty would be imposed.

b. Reference to the particular sections of the statutes and rules involved.

c. A short, plain statement of the alleged unlawful practices.

d. The dollar amount of the proposed civil penalty and the nature of the intended order to require compliance with Iowa Code chapter 105.

e. Notice of the nonlicensee's right to a hearing and the time frame in which the hearing must be requested.

f. The address to which written request for hearing must be made.

32.5(5) *Requests for hearings.*

a. Nonlicensees must request a hearing within 30 days of the date the notice is received if served through restricted certified mail, or within 30 days of the date of service if service is accepted or made in accordance with Iowa Rule of Civil Procedure 1.305. A request for hearing must be in writing and is deemed made on the date of the nonmetered United States Postal Service postmark or the date of personal service.

b. If a request for hearing is not timely made, the board chairperson or the chairperson's designee may issue an order imposing the civil penalty and requiring compliance with Iowa Code chapter 105, as described in the notice. The order may be mailed by regular first-class mail or served in the same manner as the notice of intent to impose a civil penalty.

c. If a request for hearing is timely made, the board shall issue a notice of hearing and conduct a hearing in the same manner as applicable to disciplinary cases against licensees.

d. A nonlicensee may waive the right to hearing and all attendant rights and enter into a consent order imposing a civil penalty and requiring compliance with Iowa Code chapter 105 at any stage of the proceeding upon mutual consent of the board.

e. The notice of intent to issue an order and the order are public records available for inspection and copying in accordance with Iowa Code chapter 22. Copies may be published. Hearings shall be open to the public.

32.5(6) *Factors for board consideration.* The board may consider the following when determining the amount of civil penalty to impose, if any:

a. Whether the amount imposed will be a substantial economic deterrent to the violation.

b. The circumstances leading to or resulting in the violation.

c. The severity of the violation and the risk of harm to the public.

d. The economic benefits gained by the violator as a result of noncompliance.

e. The welfare or best interest of the public.

32.5(7) *Enforcement options.* In addition, or as an alternative, to the administrative process described in these rules, the board may seek an injunction in district court, refer the matter for criminal prosecution, or enter into a consent agreement.

32.5(8) *Judicial review.*

a. A person aggrieved by the imposition of a civil penalty under this rule may seek a judicial review in accordance with Iowa Code section 17A.19.

b. The board shall notify the attorney general of the failure to pay a civil penalty within 30 days after entry of an order or within 10 days following final judgment in favor of the board if an order has been stayed pending appeal.

c. The attorney general may commence an action to recover the amount of the penalty, including reasonable attorney fees and costs.

d. An action to enforce an order under this rule may be joined with an action for an injunction pursuant to Iowa Code section 105.27(4).

[**ARC 8531B**, IAB 2/24/10, effective 1/26/10]

These rules are intended to implement Iowa Code chapters 105 and 272C.

[Filed Emergency After Notice ARC 8531B (Notice ARC 8363B, IAB 12/2/09), IAB 2/24/10, effective 1/26/10]

CHAPTER 33
Reserved

CHAPTER 34
PLUMBING AND MECHANICAL SYSTEMS BOARD—COMPLAINTS AND INVESTIGATIONS

641—34.1(272C) Complaints.

34.1(1) A complaint shall be made in writing and shall be mailed or delivered to the Plumbing and Mechanical Systems Board, Lucas State Office Building, 321 E. 12th Street, Des Moines, Iowa 50319-0075. The complaint shall include the name and address of the complainant, the name of the licensee, and a concise statement of the allegations against the licensee. A complaint may also be initiated upon the board's own motion pursuant to evidence received by the board. Timely filing of complaints is required in order to ensure the availability of witnesses and to avoid initiation of an investigation under conditions which may have been significantly altered during the period of delay.

34.1(2) A person shall not be civilly liable as a result of filing a complaint with the board, or for disclosure to the board or its agents or employees, whether or not pursuant to a subpoena of records, documents, testimony or other forms of information which constitute privileged matter concerning a recipient of health care services or some other person, in connection with the duties of the board. However, such immunity from civil liability shall not apply if such act is done with malice.

[**ARC 8532B**, IAB 2/24/10, effective 1/26/10]

641—34.2(272C) Report of malpractice claims or actions or disciplinary actions. Each licensee shall submit a copy of any judgment or settlement in a malpractice claim or any disciplinary action taken by another licensing authority in another state or jurisdiction to the board within 30 days of the date of occurrence.

[**ARC 8532B**, IAB 2/24/10, effective 1/26/10]

641—34.3(272C) Report of acts or omissions. Each licensee with firsthand knowledge of acts or omissions in violation of statute or the board's administrative rules shall report to the board those acts or omissions when committed by another person licensed to practice by the board. The report shall include the name and address of the licensee and the date, time, and place of the incident.

[**ARC 8532B**, IAB 2/24/10, effective 1/26/10]

641—34.4(272C) Investigation of complaints or reports. The chairperson of the board may assign an investigation of a complaint or report to a member of the board or to an investigator. The investigating board member or the investigator may request information from any peer review committee which may be established to assist the board. The investigating board member or investigator may consult an assistant attorney general concerning the investigation or evidence produced from the investigation. A board member who has personally investigated a complaint is disqualified from participating in any contested case proceeding resulting from the investigation.

[**ARC 8532B**, IAB 2/24/10, effective 1/26/10]

641—34.5(17A,272C) Issuance of investigatory subpoenas.

34.5(1) The board executive officer or designee may, upon the written request of a board investigator or on the executive officer's own initiative, subpoena books, papers, records, and other real evidence which are necessary for the board to decide whether to initiate a contested case proceeding. In the case of a subpoena for mental health records, each of the following conditions shall be satisfied prior to the issuance of the subpoena:

a. The nature of the complaint reasonably justifies the issuance of a subpoena;

b. Adequate safeguards have been established to prevent unauthorized disclosure;

c. An express statutory mandate, articulated public policy, or other recognizable public interest favors access; and

d. An attempt was made to notify the patient and to secure an authorization from the patient for release of the records at issue.

34.5(2) A written request for a subpoena or the executive officer's written memorandum in support of the issuance of a subpoena shall contain the following:

a. The name and address of the person to whom the subpoena will be directed;

b. A specific description of the books, papers, records or other real evidence requested;

c. An explanation of why the documents sought to be subpoenaed are necessary for the board to determine whether it should initiate a contested case proceeding; and

d. In the case of a subpoena request for mental health records, confirmation that the conditions described in subrule 34.5(1) have been satisfied.

34.5(3) Each subpoena shall contain:

a. The name and address of the person to whom the subpoena is directed;

b. A description of the books, papers, records or other real evidence requested;

c. The date, time and location for production or inspection and copying;

d. The time within which a motion to quash or modify the subpoena must be filed;

e. The signature, address and telephone number of the board executive officer or designee;

f. The date of issuance;

g. A return of service.

34.5(4) Any person who is aggrieved or adversely affected by compliance with the subpoena and who desires to challenge the subpoena must, within 14 days after service of the subpoena, or before the time specified for compliance if such time is less than 14 days, file with the board a motion to quash or modify the subpoena. The motion shall describe the legal reasons why the subpoena should be quashed or modified and may be accompanied by legal briefs or factual affidavits.

34.5(5) Upon receipt of a timely motion to quash or modify a subpoena, the board may request an administrative law judge to issue a decision, or the board may issue a decision. Oral argument may be scheduled at the discretion of the board or the administrative law judge. The administrative law judge or the board may quash or modify the subpoena, deny the motion, or issue an appropriate protective order.

34.5(6) A person who is aggrieved by a ruling of an administrative law judge and who desires to challenge that ruling must appeal the ruling to the board by serving on the board executive officer, either in person or by certified mail, a notice of appeal within ten days after service of the decision of the administrative law judge.

34.5(7) If the person contesting the subpoena is not the person under investigation, the board's decision is final for purposes of judicial review. If the person contesting the subpoena is the person under investigation, the board's decision is not final for purposes of judicial review until either (1) the person is notified the investigation has been concluded with no formal action, or (2) there is a final decision in the contested case.

[**ARC 8532B**, IAB 2/24/10, effective 1/26/10]

641—34.6(272C) Peer review committees.

34.6(1) A complaint may be assigned to a peer review committee for review, investigation, or report to the board.

34.6(2) The board shall determine which peer review committee will review a case and what complaints or other matters shall be referred to a peer review committee for investigation, review, or report to the board.

34.6(3) Members of the peer review committees shall not be liable for acts, omissions, or decisions made in connection with service on the peer review committee. However, such immunity from civil liability shall not apply if such act is done with malice.

34.6(4) The peer review committees shall observe the requirements of confidentiality imposed by Iowa Code section 272C.6.

[**ARC 8532B**, IAB 2/24/10, effective 1/26/10]

641—34.7(17A) Appearance. The board may request that a licensee appear before a committee of the board to discuss a pending investigation. By electing to participate in the committee appearance, the licensee waives any objection to a board member both participating in the appearance and later participating as a decision maker in a contested case proceeding. By electing to participate in the

committee appearance, the licensee further waives any objection to the board executive officer assisting the board in the contested case proceeding.

[**ARC 8532B**, IAB 2/24/10, effective 1/26/10]

These rules are intended to implement Iowa Code chapters 17A, 105, and 272C.

[Filed Emergency After Notice ARC 8532B (Notice ARC 8364B, IAB 12/2/09), IAB 2/24/10, effective 1/26/10]

CHAPTER 35
PLUMBING AND MECHANICAL SYSTEMS BOARD—LICENSURE OF NONRESIDENT APPLICANT—RECIPROCITY

641—35.1(105) Definition. For purposes of this chapter, the following definition applies:

"Board" means the plumbing and mechanical systems board as established pursuant to Iowa Code section 105.3.

[**ARC 8533B**, IAB 2/24/10, effective 1/26/10]

641—35.2(105) Reciprocity agreements.

35.2(1) The board may enter into reciprocity agreements with other states that have plumbing, HVAC, refrigeration, and hydronic licensing requirements similar to those set forth under Iowa law.

35.2(2) The board shall not enter into a reciprocity agreement with another state unless the other state grants the same reciprocity licensing privileges to residents of Iowa who have obtained Iowa plumbing, HVAC, refrigeration, or hydronic licenses under Iowa Code chapter 105.

[**ARC 8533B**, IAB 2/24/10, effective 1/26/10]

641—35.3(105) Application by reciprocity. A nonresident of Iowa seeking a reciprocal license under Iowa Code chapter 105 shall apply on forms provided by the board.

35.3(1) *Registration requirements.* The board may issue a reciprocal license if:

a. The applicant is a nonresident of Iowa;

b. The applicant possesses a valid plumbing, HVAC, refrigeration, or hydronic license issued from a state with which the board has entered into a reciprocity agreement;

c. The applicant has paid the appropriate fee or fees required in 641—Chapter 28;

d. The applicant meets the minimum qualifications for licensure in rule 641—29.4(105); and

e. The applicant agrees to comply with all provisions of Iowa law and rules.

35.3(2) *Denial of reciprocal license.* The board may refuse to issue a reciprocal license to an applicant otherwise qualified based upon a suspension, revocation, or other disciplinary action taken against the applicant by a licensing authority in this or another jurisdiction. For purposes of this subrule, a "disciplinary action" includes the voluntary surrender of a license to resolve a pending disciplinary investigation or proceeding.

[**ARC 8533B**, IAB 2/24/10, effective 1/26/10]

These rules are intended to implement Iowa Code chapter 105.

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CHAPTER 36
PLUMBING AND MECHANICAL SYSTEMS BOARD—PETITIONS FOR RULE MAKING

The Iowa plumbing and mechanical systems board hereby adopts the petitions for rule making segment of the Uniform Rules on Agency Procedure which are printed in the first volume of the Iowa Administrative Code, with the following amendments:

641—36.1(17A) Petition for rule making. In lieu of the words "(designate office)", insert "Iowa Plumbing and Mechanical Systems Board." A request for access to a record should be addressed to the Iowa Plumbing and Mechanical Systems Board, Lucas State Office Building, 321 E. 12th Street, Des Moines, Iowa 50319-0075.

In lieu of the words "(AGENCY NAME)", the heading of the Petition should read:

"BEFORE THE IOWA PLUMBING AND MECHANICAL SYSTEMS BOARD"

[**ARC 8534B**, IAB 2/24/10, effective 1/26/10]

641—36.3(17A) Inquiries. In lieu of the words "(designate official by full title and address)", insert "Iowa Plumbing and Mechanical Systems Board, Lucas State Office Building, 321 E. 12th Street, Des Moines, Iowa 50319-0075."

[**ARC 8534B**, IAB 2/24/10, effective 1/26/10]

These rules are intended to implement Iowa Code section 17A.7.

[Filed Emergency After Notice ARC 8534B (Notice ARC 8366B, IAB 12/2/09), IAB 2/24/10, effective 1/26/10]

CHAPTER 6
GENERAL PHARMACY PRACTICE

[Prior to 2/10/88, see Pharmacy Examiners[620] Ch 2]

657—6.1(155A) Purpose and scope. A general pharmacy is a location where a pharmacist provides pharmaceutical services or dispenses pharmaceutical products to patients in accordance with pharmacy laws. This chapter does not apply to a hospital pharmacy as defined in 657—Chapter 7. The requirements of these rules for general pharmacy practice are in addition to the requirements of 657—Chapter 8 and other rules of the board relating to services provided by the pharmacy.

657—6.2(155A) Pharmacist in charge. One professionally competent, legally qualified pharmacist in charge in each pharmacy shall be responsible for, at a minimum, the following:

1. Ensuring that the pharmacy utilizes an ongoing, systematic program for achieving performance improvement and ensuring the quality of pharmaceutical services.
2. Ensuring that the pharmacy employs an adequate number of qualified personnel commensurate with the size and scope of services provided by the pharmacy.
3. Ensuring the availability of any equipment and references necessary for the particular practice of pharmacy.
4. Ensuring that a pharmacist performs prospective drug use review as specified in rule 657—8.21(155A).
5. Ensuring that a pharmacist provides patient counseling as specified in rule 657—6.14(155A).
6. Dispensing drugs to patients, including the packaging, preparation, compounding, and labeling functions performed by pharmacy personnel.
7. Delivering drugs to the patient or the patient's agent.
8. Ensuring that patient medication records are maintained as specified in rule 657—6.13(155A).
9. Training pharmacy technicians and supportive personnel.
10. Procuring and storing prescription drugs and devices and other products dispensed from the pharmacy.
11. Distributing and disposing of drugs from the pharmacy.
12. Maintaining records of all transactions of the pharmacy necessary to maintain accurate control over and accountability for all drugs as required by applicable state and federal laws, rules, and regulations.
13. Establishing and maintaining effective controls against the theft or diversion of prescription drugs and records for such drugs.
14. Establishing and implementing policies and procedures for all operations of the pharmacy.
15. Ensuring the legal operation of the pharmacy, including meeting all inspection and other requirements of state and federal laws, rules, and regulations governing the practice of pharmacy.
16. Ensuring that there is adequate space within the prescription department or a locked room not accessible to the public for the storage of prescription drugs, devices, and controlled substances and to support the operations of the pharmacy.

657—6.3(155A) Reference library. References may be printed or computer-accessed. A reference library shall be maintained which includes, as a minimum, one current reference from each of the following categories, including access to current periodic updates.

1. The Iowa Pharmacy Law and Information Manual.
2. A patient information reference that includes or provides patient information in compliance with rule 6.14(155A).
3. A reference on drug interactions.
4. A general information reference.
5. A drug equivalency reference.
6. A reference on natural or herbal medicines.
7. The readily accessible telephone number of a poison control center that serves the area.

8. Additional references as may be necessary for the pharmacist to adequately meet the needs of the patients served.

657—6.4(155A) Exemption from duplicate requirements. A pharmacy established in the same location as another licensed pharmacy and with direct and immediate access to required references, patient counseling area, refrigerator, or sink with hot and cold running water may utilize the references, counseling area, refrigerator, or sink of the other pharmacy to satisfy the requirements of rule 657—6.3(155A), subrule 6.14(3), or rule 657—8.5(155A), paragraphs "1" and "2."

657—6.5 and **6.6** Reserved.

657—6.7(124,155A) Security. While on duty, each pharmacist shall be responsible for the security of the prescription department, including provisions for effective control against theft of, diversion of, or unauthorized access to prescription drugs, records for such drugs, and patient records as provided in 657—Chapter 21.

6.7(1) *Department locked.* The prescription department shall be locked by key or combination so as to prevent access when a pharmacist is not on site except as provided in subrule 6.7(2).

6.7(2) *Temporary absence of pharmacist.* In the temporary absence of the pharmacist, only the pharmacist in charge may designate persons who may be present in the prescription department to perform technical and nontechnical functions designated by the pharmacist in charge. Activities identified in subrule 6.7(3) may not be performed during such temporary absence of the pharmacist. A temporary absence is an absence of short duration not to exceed two hours. In the absence of the pharmacist, the pharmacy shall notify the public that the pharmacist is temporarily absent and that no prescriptions will be dispensed until the pharmacist returns.

6.7(3) *Activities prohibited in absence of pharmacist.* Activities which shall not be designated and shall not be performed during the temporary absence of the pharmacist include:

a. Dispensing or distributing any prescription drugs or devices to patients or others.

b. Providing the final verification for the accuracy, validity, completeness, or appropriateness of a filled prescription or medication order.

c. Conducting prospective drug use review or evaluating a patient's medication record for purposes identified in rule 657—8.21(155A).

d. Providing patient counseling, consultation, or drug information.

e. Making decisions that require a pharmacist's professional judgment such as interpreting or applying information.

f. Transferring prescriptions to or from other pharmacies.

657—6.8(124,155A) Prescription processing documentation. All prescriptions shall be dated and assigned a unique identification number that shall be recorded on the original prescription. The original prescription, whether transmitted orally, electronically, or in writing, shall be retained by the pharmacy filling the prescription. Refill documentation shall include date of refill and the initials or other unique identification of the pharmacist. The name, strength, and either the manufacturer's name or the National Drug Code (NDC) of the actual drug product dispensed shall be maintained and be readily retrievable.

657—6.9(124,155A) Transfer of prescription. The transmission of a prescription drug order from a pharmacy to a pharmacy engaged in centralized prescription filling or processing on behalf of the originating pharmacy pursuant to the requirements of 657—Chapter 18 shall not constitute the transfer of a prescription. Upon the request of a patient or the patient's caregiver, a pharmacy shall transfer original prescription drug order information and prescription refill information to a pharmacy designated by the patient or the patient's caregiver, central fill or processing pharmacies excepted, subject to the following requirements:

6.9(1) *Schedule III, IV, or V prescriptions.* The transfer of original prescription drug order information for controlled substances listed in Schedule III, IV, or V is permissible between pharmacies on a one-time basis except as provided in subrule 6.9(9).

6.9(2) *Noncontrolled substances prescriptions.* The transfer of original prescription drug order information for noncontrolled prescription drugs between pharmacies is permissible as long as the number of transfers does not exceed the number of originally authorized refills and the original prescription is still valid.

6.9(3) *Communication.* The transfer is communicated directly between pharmacists, directly between pharmacist-interns under the direct supervision of pharmacists at the respective pharmacies, directly between a pharmacist and a pharmacist-intern under the direct supervision of a pharmacist, or as authorized in subrule 6.9(9).

6.9(4) *Prescriptions maintained.* Both the original and the transferred prescription drug orders are maintained for a period of two years from the date of last refill.

6.9(5) *Record of transfer out.* The pharmacist or pharmacist-intern transferring the prescription drug order information shall:

a. Invalidate the prescription drug order;

b. Record on or with the invalidated prescription drug order the following information:

(1) The name, address, and, for a controlled substance, the DEA registration number of the pharmacy to which such prescription is transferred;

(2) The name of the pharmacist or pharmacist-intern receiving the prescription drug order information;

(3) The name of the pharmacist or pharmacist-intern transferring the prescription drug order information; and

(4) The date of the transfer.

6.9(6) *Original prescription status.* The original prescription drug order shall be invalidated in the data processing system for purposes of filling or refilling, but shall be maintained in the data processing system for refill history purposes.

6.9(7) *Controlled substance prescription status.* The data processing system shall have a mechanism to prohibit the transfer or refilling of controlled substance prescription drug orders that have been previously transferred.

6.9(8) *Record of transfer received.* The pharmacist or pharmacist-intern receiving the transferred prescription drug order information shall:

a. Indicate that the prescription drug order has been transferred;

b. Record on or with the transferred prescription drug order the following information:

(1) Original date of issuance and date of dispensing, if different from date of issuance;

(2) Original prescription number;

(3) Number of valid refills remaining, the date of last refill, and, for a controlled substance, the dates and locations of all previous refills;

(4) Name, address, and, for a controlled substance, the DEA registration number of the pharmacy from which such prescription drug order information is transferred;

(5) The date of the transfer;

(6) Name of the pharmacist or pharmacist-intern receiving the prescription drug order information;

(7) Name of the pharmacist or pharmacist-intern transferring the prescription drug order information; and

(8) If transferring a controlled substance prescription from a pharmacy utilizing a shared electronic database system as described in subrule 6.9(9) to a pharmacy outside that shared system, the pharmacy name, location, DEA registration number, and prescription number from which the prescription was originally filled.

6.9(9) *Electronic transfer between pharmacies.* Pharmacies electronically accessing the same prescription drug order records via a real-time, on-line database may electronically transfer prescription information, including controlled substance prescription information, up to the maximum refills permitted by law and the prescriber's authorization, if the following requirements are met.

a. The data processing system shall have a mechanism to send the transferring pharmacy a message containing the following information:

(1) The fact that the prescription drug order was transferred;

(2) The unique identification number of the prescription drug order transferred;

(3) The name, address, and DEA registration number of the pharmacy to which the prescription drug order was transferred and the name of the pharmacist or pharmacist-intern receiving the prescription information; and

(4) The date and time of transfer.

b. A pharmacist or pharmacist-intern under the direct supervision of a pharmacist in the transferring pharmacy shall review the message and document the review by signing and dating a hard copy of the message or logbook containing the information required on the message, or by a notation in the electronic message that includes the unique identification of the pharmacist or pharmacist-intern and the date of review, as soon as practical, but in no event more than 72 hours from the time of such transfer.

c. For transfers of controlled substance prescriptions, all information requirements included in subrules 6.9(1) and 6.9(3) through 6.9(8) shall be satisfied in the electronic system. Transfers of controlled substance prescriptions shall also identify the pharmacy name, address, DEA registration number, and prescription number from which the prescription was originally filled.

[**ARC 7634B**, IAB 3/11/09, effective 4/15/09; **ARC 8169B**, IAB 9/23/09, effective 10/28/09]

657—6.10(126,155A) Prescription label requirements.

6.10(1) *Required information.* The label affixed to or on the dispensing container of any prescription drug or device dispensed by a pharmacy pursuant to a prescription drug order shall bear the following:

a. Serial number (a unique identification number of the prescription);

b. The name, telephone number, and address of the pharmacy;

c. The name of the patient or, if such drug is prescribed for an animal, the species of the animal and the name of its owner;

d. The name of the prescribing practitioner;

e. The date the prescription is dispensed;

f. The directions or instructions for use, including precautions to be observed;

g. Unless otherwise directed by the prescriber, the label shall bear the name, strength, and quantity of the drug dispensed.

(1) If a pharmacist selects an equivalent drug product for a brand name drug product prescribed by a practitioner, the prescription container label shall identify the generic drug and may identify the brand name drug for which the selection is made, such as "(generic name) Generic for (brand name product)."

(2) If a pharmacist selects a brand name drug product for a generic drug product prescribed by a practitioner, the prescription container label shall identify the brand name drug product dispensed and may identify the generic drug product ordered by the prescriber, such as "(brand name product) for (generic name)";

h. The initials or other unique identification of the dispensing pharmacist.

6.10(2) *Exceptions.* The requirements of subrule 6.10(1) do not apply to unit dose dispensing systems, 657—22.1(155A); sterile products, 657—Chapter 13; and patient med paks, 657—22.5(126,155A).

657—6.11 and **6.12** Reserved.

657—6.13(155A) Patient record system.

6.13(1) *Information required.* A patient record system shall be maintained by all pharmacies for patients for whom prescription drug orders are dispensed. The patient record system shall provide for the immediate retrieval of information necessary for the dispensing pharmacist to identify previously dispensed drugs at the time a prescription drug order is presented for dispensing. The pharmacist shall be responsible for obtaining, recording, and maintaining the following information:

a. Full name of the patient for whom the drug is intended;

b. Address and telephone number of the patient;

c. Patient's age or date of birth;

d. Patient's gender;

e. Known allergies;

f. Significant patient information including a list of all prescription drug orders dispensed by the pharmacy during the two years immediately preceding the most recent entry showing the name of the drug or device, prescription number, name and strength of the drug, the quantity and date received, and the name of the prescriber; and

g. Pharmacist comments relevant to the individual's drug therapy, including:

(1) Known drug reactions,

(2) Identified idiosyncrasies,

(3) Known chronic conditions or disease states of the patient,

(4) The identity of any other drugs, over-the-counter drugs, herbals, other alternative medications, or devices currently being used by the patient that may relate to prospective drug review.

6.13(2) *Record retained.* A patient record shall be maintained for a period of not less than two years from the date of the last entry in the patient record. This record may be a hard copy or a computerized form.

6.13(3) *Confidential.* Information in the patient record shall be deemed to be confidential and may be released only as provided in rule 657—8.16(124,155A).

657—6.14(155A) Patient counseling and instruction. Every general pharmacy located in Iowa shall post in the prescription pickup area in a manner clearly visible to patients a notice that Iowa law requires the pharmacist to discuss with the patient any new prescriptions dispensed to the patient. The board shall provide a general pharmacy with the required signage. A pharmacy that provides no direct patient access to the pharmacy department, commonly referred to as a "closed-door pharmacy," shall not be required to post the counseling notice.

6.14(1) *Counseling required.* Upon receipt of a new prescription drug order and following a prospective drug use review pursuant to 657—8.21(155A), a pharmacist shall counsel each patient or patient's caregiver. An offer to counsel shall not fulfill the requirements of this rule. Patient counseling shall be on matters which, in the pharmacist's professional judgment, will enhance or optimize drug therapy. Appropriate elements of patient counseling may include:

a. The name and description of the drug;

b. The dosage form, dose, route of administration, and duration of drug therapy;

c. Intended use of the drug, if known, and expected action;

d. Special directions and precautions for preparation, administration, and use by the patient;

e. Common severe side effects or adverse effects or interactions and therapeutic contraindications that may be encountered, including their avoidance, and the action required if they occur;

f. Techniques for self-monitoring drug therapy;

g. Proper storage;

h. Prescription refill information;

i. Action to be taken in the event of a missed dose;

j. Pharmacist comments relevant to the individual's drug therapy including any other information peculiar to the specific patient or drug.

6.14(2) *Instruction.* A pharmacist may instruct patients and demonstrate procedures for self-monitoring of medical conditions and for self-administration of drugs.

6.14(3) *Counseling area.* A pharmacy shall contain an area which is suitable for confidential patient counseling. Such area shall:

a. Be easily accessible to both patient and pharmacists and not allow patient access to prescription drugs;

b. Be designed to maintain the confidentiality and privacy of the pharmacist/patient communication.

6.14(4) *Oral counseling not practicable.* If in the pharmacist's professional judgment oral counseling is not practicable, the pharmacist may use alternative forms of patient information. "Not practicable" refers to patient variables including, but not limited to, the absence of the patient or patient's

caregiver, the patient's or caregiver's hearing impairment, or a language barrier. "Not practicable" does not include pharmacy variables such as inadequate staffing, technology failure, or high prescription volume. Alternative forms of patient information may include written information leaflets, pictogram labels, video programs, or information generated by electronic data processing equipment. When used in place of oral counseling, alternative forms of patient information shall advise the patient or caregiver that the pharmacist may be contacted for consultation in person at the pharmacy by toll-free telephone or collect telephone call. A combination of oral counseling and alternative forms of counseling is encouraged.

6.14(5) *Exception.* Patient counseling, as described above, shall not be required for inpatients of an institution where other licensed health care professionals are authorized to administer the drugs.

6.14(6) *Refusal of consultation.* A pharmacist shall not be required to counsel a patient or caregiver when the patient or caregiver refuses such consultation. A patient's or caregiver's refusal of consultation shall be documented by the pharmacist. The absence of any record of a refusal of the pharmacist's attempt to counsel shall be presumed to signify that the offer was accepted and that counseling was provided.

[**ARC 8540B**, IAB 2/24/10, effective 4/1/10]

657—6.15(124,126) Return of drugs and other items. For the protection of the public health and safety, prescription drugs and devices, controlled substances, and items of personal contact nature may be returned to the pharmacy for reuse or resale only as herein provided:

6.15(1) *Integrity maintained.* Prescription drugs and devices may be returned, exchanged, or resold only if, in the professional judgment of the pharmacist, the integrity of the prescription drug has not in any way been compromised.

6.15(2) *Controlled substances.* Under no circumstances shall pharmacy personnel accept from a patient or a patient's agent any controlled substances for return, exchange, or resale except to the same patient.

6.15(3) *Unit dose returns.* Prescription drugs dispensed in unit dose packaging, excluding controlled substances, may be returned and reused as authorized in 657—subrule 22.1(6).

6.15(4) *Personal contact items.* Pharmacy personnel shall not accept for reuse or resale any items of personal contact nature that have been removed from the original package or container after sale.

657—6.16(124,155A) Records. Every inventory or other record required to be kept under Iowa Code chapters 124 and 155A or rules of the board shall be kept by the pharmacy and be available for inspection and copying by the board or its representative for at least two years from the date of the inventory or record except as specifically identified by law or rule. Controlled substances records shall be maintained in a readily retrievable manner in accordance with federal requirements and 657—Chapter 10. Original hard-copy prescription and other pharmacy records more than 12 months old may be maintained in a secure storage area outside the licensed pharmacy department unless such remote storage is prohibited under federal law. A remote storage area shall be located within the same physical structure containing the licensed pharmacy department.

6.16(1) *Combined records.* If controlled substances, prescription drugs, or nonprescription drug items are listed on the same record, the controlled substances shall be asterisked, red-lined, or in some other manner made readily identifiable from all other items appearing on the records.

6.16(2) *Prescriptions maintained.* The original prescription drug order shall be maintained for a period of two years following the date of last activity on the prescription.

6.16(3) *Number imprinted.* The original hard-copy prescription shall be imprinted with the prescription or control number assigned to the prescription drug order.

6.16(4) *Alternative data retention system.* Records, except when specifically required to be maintained in original or hard-copy form, may be maintained in an alternative data retention system, such as a data processing system or direct imaging system provided:

a. The records maintained in the alternative system contain all of the information required on the manual record;

b. The data processing system is capable of producing a hard copy of the record, within two business days, upon the request of the board, its representative, or other authorized local, state, or federal law enforcement or regulatory agencies; and

c. The information maintained in the alternative system is not obscured or rendered illegible due to security features of the original hard-copy record.

[**ARC 7636B**, IAB 3/11/09, effective 4/15/09; **ARC 8539B**, IAB 2/24/10, effective 4/1/10]

These rules are intended to implement Iowa Code sections 124.301, 124.303, 124.306, 126.10, 126.11, 155A.6, 155A.13, 155A.27, 155A.28, 155A.31, and 155A.33 through 155A.36.

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◊ Two or more ARCs

CHAPTER 8
UNIVERSAL PRACTICE STANDARDS

[Prior to 2/10/88, see Pharmacy Examiners[620] Ch 6]

657—8.1(155A) Purpose and scope. The requirements of these rules apply to all Iowa-licensed pharmacists and to all pharmacies providing the services addressed in this chapter to patients in Iowa and are in addition to rules of the board relating to specific types of pharmacy licenses issued by the board.

657—8.2(155A) Pharmaceutical care. Pharmaceutical care is a comprehensive, patient-centered, outcomes-oriented pharmacy practice in which the pharmacist accepts responsibility for assisting the prescriber and the patient in optimizing the patient's drug therapy plan and works to promote health, to prevent disease, and to optimize drug therapy. Pharmaceutical care does not include the prescribing of drugs without the consent of the prescribing practitioner.

8.2(1) *Drug therapy problems.* In providing pharmaceutical care, the pharmacist shall strive to identify, resolve, and prevent drug therapy problems.

8.2(2) *Drug therapy plan.* In providing pharmaceutical care, the pharmacist shall access and evaluate patient-specific information, identify drug therapy problems, and utilize that information in a documented plan of therapy that assists the patient or the patient's caregiver in achieving optimal drug therapy. In concert with the patient, the patient's prescribing practitioner, and the patient's other health care providers, the pharmacist shall assess, monitor, and suggest modifications of the plan as appropriate.

8.2(3) *Eligibility.* Any Iowa-licensed pharmacist may practice pharmaceutical care.

657—8.3(155A) Responsibility.

8.3(1) *Pharmacy operations.* The pharmacy and the pharmacist in charge share responsibility for ensuring that all operations of the pharmacy are in compliance with federal and state laws, rules, and regulations relating to pharmacy operations and the practice of pharmacy.

8.3(2) *Practice functions.* The pharmacist is responsible for all functions performed in the practice of pharmacy. The pharmacist maintains responsibility for any and all delegated functions including functions delegated to pharmacist-interns, pharmacy technicians, and other supportive personnel.

8.3(3) *Pharmacist-documented verification.* The pharmacist shall provide and document the final verification for the accuracy, validity, completeness, and appropriateness of the patient's prescription or medication order prior to the delivery of the medication to the patient or the patient's representative.

657—8.4(155A) Pharmacist identification.

8.4(1) *Display of pharmacist license.* During any period the pharmacist is working in a pharmacy, each pharmacist shall display, in a position visible to the public, an original license to practice pharmacy. A current license renewal certificate, which may be a photocopy of an original renewal certificate, shall be displayed with the original license.

8.4(2) *Identification codes.* A permanent log of the initials or codes identifying by name each dispensing pharmacist, pharmacist-intern, and pharmacy technician shall be maintained for a minimum of two years and shall be available for inspection and copying by the board or its representative. The initials or identification code shall be unique to the individual to ensure that each pharmacist, pharmacist-intern, and pharmacy technician can be identified.

8.4(3) *Temporary or intermittent pharmacy staff.* The pharmacy shall maintain a log of all pharmacists, pharmacist-interns, and pharmacy technicians who have worked at that pharmacy and who are not regularly staffed at that pharmacy. Such log shall include the dates and shifts worked by each pharmacist, pharmacist-intern, and pharmacy technician and shall be available for inspection and copying by the board or its representative for a minimum of two years following the date of the entry.

8.4(4) *Identification badge.* A pharmacist shall wear a visible identification badge while on duty that clearly identifies the person as a pharmacist and includes at least the pharmacist's first name.

657—8.5(155A) Environment and equipment requirements. There shall be adequate space, equipment, and supplies for the professional and administrative functions of the pharmacy. Space and equipment in an amount and type to provide secure, environmentally controlled storage of drugs shall be available.

8.5(1) *Refrigeration.* The pharmacy shall maintain one or more refrigeration units. The temperature of the refrigerator shall be maintained within a range compatible with the proper storage of drugs requiring refrigeration, and a thermometer shall be maintained in the refrigerator to verify the temperature.

8.5(2) *Sink.* The pharmacy shall have a sink with hot and cold running water located within the pharmacy department and available to all pharmacy personnel; the sink shall be maintained in a sanitary condition.

8.5(3) *Secure barrier.* The pharmacy department shall be surrounded by a physical barrier capable of being securely locked to prevent entry when the department is closed. A secure barrier may be constructed of other than a solid material with a continuous surface if the openings in the material are not large enough to permit removal of items from the pharmacy department by any means. Any material used in the construction of the barrier shall be of sufficient strength and thickness that it cannot be readily or easily removed, penetrated, or bent. The plans and specifications of the barrier shall be submitted to the board for approval prior to the start of construction. The board may also require on-site inspection of the facility or pharmacy department prior to the pharmacy's opening or relocation. The pharmacy department shall be closed and secured in the absence of the pharmacist except as provided in rule 657—6.7(124,155A) or 657—7.6(124,155A).

8.5(4) *Orderly and clean.* The pharmacy shall be arranged in an orderly fashion and kept clean. All required equipment shall be in good operating condition and maintained in a sanitary manner.

8.5(5) *Light and ventilation.* The pharmacy shall be properly lighted and ventilated.

8.5(6) *Temperature and humidity.* The temperature and humidity of the pharmacy shall be maintained within a range compatible with the proper storage of drugs.

8.5(7) *Other equipment.* The pharmacist in charge shall ensure the availability of any other equipment necessary for the particular practice of pharmacy and to meet the needs of the patients served by the pharmacy.

8.5(8) *Bulk counting machines.* Unless bar-code scanning is required and utilized to verify the identity of each stock container of drugs utilized to restock a counting machine cell or bin, a pharmacist shall verify the accuracy of the drugs to be restocked prior to filling the counting machine cell or bin. A record identifying the individual who verified the drugs to be restocked, the individual who restocked the counting machine cell or bin, and the date shall be maintained. The pharmacy shall have a method to calibrate and verify the accuracy of the counting device and shall, at least quarterly, verify the accuracy of the device and maintain a dated record identifying the individual who performed the quarterly verification.

657—8.6(155A) Health of personnel. Only personnel authorized by the responsible pharmacist shall be in the immediate vicinity of the drug dispensing, preparation, compounding, or storage areas. Any person shown, either by medical examination or pharmacist determination, to have an apparent illness or open lesions that may adversely affect the quality or safety of a drug product or another individual shall be excluded from direct contact with components, bulk drug substances, drug product containers, closures, in-process materials, drug products, and patients until the condition is corrected or determined by competent medical personnel not to jeopardize the quality or safety of drug products or patients. All personnel who normally assist the pharmacist shall be instructed to report to the pharmacist any health conditions that may have an adverse effect on drug products or may pose a health or safety risk to others.

657—8.7(155A) Procurement, storage, and recall of drugs and devices.

8.7(1) *Source.* Procurement of prescription drugs and devices shall be from a drug wholesaler licensed by the board to distribute to Iowa pharmacies or, on a limited basis, from another licensed pharmacy or licensed practitioner located in the United States.

8.7(2) *Sufficient stock.* A pharmacy shall maintain sufficient stock of drugs and devices to fulfill the foreseeable needs of the patients served by the pharmacy.

8.7(3) *Manner of storage.* Drugs and devices shall be stored in a manner to protect their identity and integrity.

8.7(4) *Storage temperatures.* All drugs and devices shall be stored at the proper temperature, as defined by the following terms:

a. *"Controlled room temperature"* means temperature maintained thermostatically between 15 degrees and 30 degrees Celsius (59 degrees and 86 degrees Fahrenheit);

b. *"Cool"* means temperature between 8 degrees and 15 degrees Celsius (46 degrees and 59 degrees Fahrenheit). Drugs and devices may be stored in a refrigerator unless otherwise specified on the labeling;

c. *"Refrigerate"* means temperature maintained thermostatically between 2 degrees and 8 degrees Celsius (36 degrees and 46 degrees Fahrenheit); and

d. *"Freeze"* means temperature maintained thermostatically between -20 degrees and -10 degrees Celsius (-4 degrees and 14 degrees Fahrenheit).

8.7(5) *Product recall.* There shall be a system for removing from use, including unit dose, any drugs and devices subjected to a product recall.

657—8.8(124,155A) Out-of-date drugs or devices. Any drug or device bearing an expiration date shall not be dispensed for use beyond the expiration date of the drug or device. Outdated drugs or devices shall be removed from dispensing stock and shall be quarantined until such drugs or devices are properly disposed of.

657—8.9(124,155A) Records. Every inventory or other record required to be maintained by a pharmacy pursuant to board rules or Iowa Code chapters 124 and 155A shall be maintained and be available for inspection and copying by the board or its representative for at least two years from the date of such inventory or record unless a longer retention period is specified for the particular record or inventory. Original hard-copy prescription and other pharmacy records more than 12 months old may be maintained in a secure storage area outside the licensed pharmacy department unless such remote storage is prohibited under federal law. A remote storage area shall be located within the same physical structure containing the licensed pharmacy department. The following records shall be maintained for at least two years.

8.9(1) *Drug supplier invoices.* All pharmacies shall maintain supplier invoices of prescription drugs and controlled substances upon which the actual date of receipt of the controlled substances by the pharmacist or other responsible individual is clearly recorded.

8.9(2) *Drug supplier credits.* All pharmacies shall maintain supplier credit memos for controlled substances and prescription drugs.

[**ARC 8539B**, IAB 2/24/10, effective 4/1/10]

657—8.10 Reserved.

657—8.11(147,155A) Unethical conduct or practice. The provisions of this rule apply to licensed pharmacies, licensed pharmacists and registered pharmacist-interns.

8.11(1) *Misrepresentative deeds.* A pharmacist shall not make any statement intended to deceive, misrepresent or mislead anyone, or be a party to or an accessory to any fraudulent or deceitful practice or transaction in pharmacy or in the operation or conduct of a pharmacy.

8.11(2) *Undue influence.*

a. A pharmacist shall not accept professional employment or share or receive compensation in any form arising out of, or incidental to, the pharmacist's professional activities from a prescriber of prescription drugs or any other person or corporation in which one or more such prescribers have a proprietary or beneficial interest sufficient to permit them to directly or indirectly exercise supervision or control over the pharmacist in the pharmacist's professional responsibilities and duties or over the pharmacy wherein the pharmacist practices.

b. The prohibition in paragraph *"a"* shall not apply until April 23, 2006, to a pharmacist who is working at a prescriber-owned pharmacy location licensed as of April 23, 1981.

c. A prescriber may employ a pharmacist to provide nondispensing, drug information, or other cognitive services.

8.11(3) *Lease agreements.* A pharmacist shall not lease space for a pharmacy under any of the following conditions:

a. From a prescriber of prescription drugs or a group, corporation, association, or organization of such prescribers on a percentage of income basis;

b. From a group, corporation, association, or organization in which prescribers have majority control or have directly or indirectly a majority beneficial or proprietary interest on a percentage of income basis; or

c. If the rent is not reasonable according to commonly accepted standards of the community in which the pharmacy will be located.

8.11(4) *Nonconformance with law.* A pharmacist shall not knowingly serve in a pharmacy which is not operated in conformance with law, or which engages in any practice which if engaged in by a pharmacist would be unethical conduct.

8.11(5) *Freedom of choice/solicitation/kickbacks/fee-splitting and imprinted prescription blanks or forms.* A pharmacist or pharmacy shall not enter into any agreement which negates a patient's freedom of choice of pharmacy services. A pharmacist or pharmacy shall not participate in prohibited agreements with any person in exchange for recommending, promoting, accepting, or promising to accept the professional pharmaceutical services of any pharmacist or pharmacy. "Person" includes an individual, corporation, partnership, association, firm, or other entity. "Prohibited agreements" includes an agreement or arrangement that provides premiums, "kickbacks," fee-splitting, or special charges as compensation or inducement for placement of business or solicitation of patronage with any pharmacist or pharmacy. "Kickbacks" includes, but is not limited to, the provision of medication carts, facsimile machines, any other equipment, or preprinted forms or supplies for the exclusive use of a facility or practitioner at no charge or billed below reasonable market rate. A pharmacist shall not provide, cause to be provided, or offer to provide to any person authorized to prescribe prescription blanks or forms bearing the pharmacist's or pharmacy's name, address, or other means of identification, except that a hospital may make available to hospital staff prescribers, emergency department prescribers, and prescribers granted hospital privileges for the prescribers' use during practice at or in the hospital generic prescription blanks or forms bearing the name, address, or telephone number of the hospital pharmacy.

8.11(6) *Discrimination.* It is unethical to unlawfully discriminate between patients or groups of patients for reasons of religion, race, creed, color, gender, gender identity, sexual orientation, marital status, age, national origin, physical or mental disability, or disease state when providing pharmaceutical services.

8.11(7) *Claims of professional superiority.* A pharmacist shall not make a claim, assertion, or inference of professional superiority in the practice of pharmacy which cannot be substantiated, or claim an unusual, unsubstantiated capacity to supply a drug or professional service to the community.

8.11(8) *Unprofessional conduct or behavior.* A pharmacist shall not exhibit unprofessional behavior in connection with the practice of pharmacy or refuse to provide reasonable information or answer reasonable questions for the benefit of the patient. Unprofessional behavior shall include, but not be limited to, the following acts: verbal abuse, coercion, intimidation, harassment, sexual advances, threats, degradation of character, indecent or obscene conduct, and theft.

657—8.12(126,147) Advertising. Prescription drug price and nonprice information may be provided to the public by a pharmacy so long as the information is not false or misleading and is not in violation of any federal or state laws applicable to the advertisement of such articles generally and if all of the following conditions are met:

1. All charges for services to the consumer must be stated.
2. The effective dates for the prices listed shall be stated.

3. No reference shall be made to controlled substances listed in Schedules II through V of the latest revision of the Iowa uniform controlled substances Act and the rules of the Iowa board of pharmacy.

657—8.13(135C,155A) Personnel histories. Pursuant to the requirements of Iowa Code section 135C.33, the provisions of this rule shall apply to any pharmacy employing any person to provide patient care services in a patient's home. For the purposes of this rule, "employed by the pharmacy" shall include any individual who is paid to provide treatment or services to any patient in the patient's home, whether the individual is paid by the pharmacy or by any other entity such as a corporation, a temporary staffing agency, or an independent contractor. Specifically excluded from the requirements of this rule are individuals such as delivery persons or couriers who do not enter the patient's home for the purpose of instructing the patient or the patient's caregiver in the use or maintenance of the equipment, device, or drug being delivered, or who do not enter the patient's home for the purpose of setting up or servicing the equipment, device, or drug used to treat the patient in the patient's home.

8.13(1) *Applicant acknowledgment.* The pharmacy shall ask the following question of each person seeking employment in a position that will provide in-home services: "Do you have a record of founded child or dependent adult abuse or have you ever been convicted of a crime, in this state or any other state?" The applicant shall also be informed that a criminal history and dependent adult abuse record check will be conducted. The applicant shall indicate, by signed acknowledgment, that the applicant has been informed that such record checks will be conducted.

8.13(2) *Criminal history check.* Prior to the employment of any person to provide in-home services as described by this rule, the pharmacy shall submit to the department of public safety a form specified by the department of public safety and receive the results of a criminal history check.

8.13(3) *Abuse history checks.* Prior to the employment of any person to provide in-home services as described by this rule, the pharmacy shall submit to the department of human services a form specified by the department of human services and receive the results of a dependent adult abuse record check. The pharmacy may submit to the department of human services a form specified by the department of human services to request a child abuse history check.

a. A person who has a criminal record, founded dependent adult abuse report, or founded child abuse report shall not be employed by a pharmacy to provide in-home services unless the department of human services has evaluated the crime or founded abuse report, has concluded that the crime or founded abuse does not merit prohibition from such employment, and has notified the pharmacy that the person may be employed to provide in-home services.

b. The pharmacy shall keep copies of all record checks and evaluations for a minimum of two years following receipt of the record or for a minimum of two years after the individual is no longer employed by the pharmacy, whichever is greater.

657—8.14(155A) Training and utilization of pharmacy technicians. All Iowa-licensed pharmacies utilizing pharmacy technicians shall develop, implement, and periodically review written policies and procedures for the training and utilization of pharmacy technicians appropriate to the practice of pharmacy at that licensed location. Pharmacy policies shall specify the frequency of review. Technician training shall be documented and maintained by the pharmacy for the duration of employment. Policies and procedures and documentation of technician training shall be available for inspection by the board or an agent of the board.

657—8.15(155A) Delivery of prescription drugs and devices. Prescription drug orders, prescription devices, and completed prescription drug containers may be delivered, in compliance with all laws, rules, and regulations relating to the practice of pharmacy, to patients at any place of business licensed as a pharmacy.

8.15(1) *Alternative methods.* A licensed pharmacy may, by means of its employee or by use of a common carrier, pick up or deliver prescriptions to the patient or the patient's caregiver as follows:

a. At the office or home of the prescriber.

b. At the residence of the patient or caregiver.

c. At the hospital or medical care facility in which a patient is confined.

d. At an outpatient medical care facility where the patient receives treatment only pursuant to the following requirements:

(1) The pharmacy shall obtain and maintain the written authorization of the patient or patient's caregiver for receipt or delivery at the outpatient medical care facility;

(2) The prescription shall be delivered directly to or received directly from the patient, the caregiver, or an authorized agent identified in the written authorization;

(3) A prescription authorized by a prescriber not treating the patient at the outpatient medical care facility may be transmitted to the pharmacy by the authorized agent via facsimile provided that the means of transmission does not obscure or render the prescription information illegible due to security features of the paper utilized by the prescriber to prepare the prescription and provided that the original written prescription is delivered to the pharmacy prior to delivery of the filled prescription to the patient; and

(4) The outpatient medical care facility shall store the patient's filled prescriptions in a secure area pending delivery to the patient.

e. At the patient's or caregiver's place of employment only pursuant to the following requirements:

(1) The pharmacy shall obtain and maintain the written authorization of the patient or patient's caregiver for receipt or delivery at the place of employment;

(2) The prescription shall be delivered directly to or received directly from the patient, the caregiver, the prescriber, or an authorized agent identified in the written authorization; and

(3) The pharmacy shall ensure the security of confidential information as defined in subrule 8.16(1).

8.15(2) *Policies and procedures required.* Every pharmacy shipping or otherwise delivering prescription drugs or devices to Iowa patients shall develop and implement policies and procedures to ensure accountability, safe delivery, and compliance with temperature requirements as defined by subrule 8.7(4).

[**ARC 7636B**, IAB 3/11/09, effective 4/15/09]

657—8.16(124,155A) Confidential information.

8.16(1) *Definition.* "Confidential information" means information accessed or maintained by the pharmacy in the patient's records which contains personally identifiable information that could be used to identify the patient. This includes but is not limited to patient name, address, telephone number, and social security number; prescriber name and address; and prescription and drug or device information such as therapeutic effect, diagnosis, allergies, disease state, pharmaceutical services rendered, medical information, and drug interactions, regardless of whether such information is communicated to or from the patient, is in the form of paper, is preserved on microfilm, or is stored on electronic media.

8.16(2) *Release of confidential information.* Confidential information in the patient record may be released only as follows:

a. Pursuant to the express written authorization of the patient or the order or direction of a court.

b. To the patient or the patient's authorized representative.

c. To the prescriber or other licensed practitioner then caring for the patient.

d. To another licensed pharmacist when the best interests of the patient require such release.

e. To the board or its representative or to such other persons or governmental agencies duly authorized by law to receive such information.

A pharmacist shall utilize the resources available to determine, in the professional judgment of the pharmacist, that any persons requesting confidential patient information pursuant to this rule are entitled to receive that information.

8.16(3) *Exceptions.* Nothing in this rule shall prohibit pharmacists from releasing confidential patient information as follows:

a. Transferring a prescription to another pharmacy upon the request of the patient or the patient's authorized representative.

b. Providing a copy of a nonrefillable prescription to the person for whom the prescription was issued which is clearly marked as a copy and not to be filled.

c. Providing drug therapy information to physicians or other authorized prescribers for their patients.

d. Disclosing information necessary for the processing of claims for payment of health care operations or services.

8.16(4) *System security and safeguards.* To maintain the integrity and confidentiality of patient records and prescription drug orders, any system or computer utilized shall have adequate security including system safeguards designed to prevent and detect unauthorized access, modification, or manipulation of patient records and prescription drug orders.

8.16(5) *Record disposal.* Disposal of any materials containing or including patient-specific or confidential information shall be conducted in a manner to preserve patient confidentiality.

657—8.17 and **8.18** Reserved.

657—8.19(124,126,155A) Manner of issuance of a prescription drug or medication order. A prescription drug order or medication order may be transmitted from a prescriber to a pharmacy in written form, orally including telephone voice communication, or by electronic transmission in accordance with applicable federal and state laws and rules. Any prescription drug order or medication order provided to a patient in written or printed form shall include the original, handwritten signature of the prescriber except as provided in rule 657—21.7(124,155A).

8.19(1) *Verification.* The pharmacist shall exercise professional judgment regarding the accuracy, validity, and authenticity of any prescription drug order or medication order consistent with federal and state laws and rules. In exercising professional judgment, the prescribing practitioner and the pharmacist shall take adequate measures to guard against the diversion of prescription drugs and controlled substances through prescription forgeries.

8.19(2) *Transmitting agent.* The prescribing practitioner may authorize an agent to transmit to the pharmacy a prescription drug order or medication order orally or by electronic transmission provided that the name of the transmitting agent is included in the order.

a. New order. A new written or electronically prepared and transmitted prescription drug or medication order shall be manually or electronically signed by the prescriber. If transmitted by the prescriber's agent, the name and title of the transmitting agent shall be included in the order.

b. Refill order or renewal order. An authorization to refill a prescription drug or medication order, or to renew or continue an existing drug therapy, may be transmitted to a pharmacist through oral communication, in writing, or by electronic transmission initiated by or directed by the prescriber.

(1) If the transmission is completed by the prescriber's agent and the name and title of the transmitting agent is included in the order, the prescriber's signature is not required on the fax or alternate electronic transmission.

(2) If the order differs in any manner from the original order, such as a change of the drug strength, dosage form, or directions for use, the prescriber shall sign the order as provided by paragraph *"a."*

8.19(3) *Receiving agent.* Regardless of the means of transmission to a pharmacy, only a pharmacist, a pharmacist-intern, or a pharmacy technician shall be authorized to receive a prescription drug or medication order from a practitioner or the practitioner's agent.

8.19(4) *Legitimate purpose.* The pharmacist shall ensure that the prescription drug or medication order, regardless of the means of transmission, has been issued for a legitimate medical purpose by an authorized practitioner acting in the usual course of the practitioner's professional practice. A pharmacist shall not dispense a prescription drug if the pharmacist knows or should have known that the prescription was issued solely on the basis of an Internet-based questionnaire, an Internet-based consultation, or a telephonic consultation and without a valid preexisting patient-practitioner relationship.

8.19(5) *Refills.* A prescription for a prescription drug or device that is not a controlled substance may authorize no more than 12 refills within 18 months following the date on which the prescription is issued. A refill is one or more dispensings of a prescription drug or device that results in the patient's

receipt of the quantity authorized by the prescriber for a single fill as indicated on the prescription drug order.
[**ARC 8171B**, IAB 9/23/09, effective 10/28/09]

657—8.20(155A) Valid prescriber/patient relationship. Prescription drug orders and medication orders shall be valid as long as a prescriber/patient relationship exists. Once the prescriber/patient relationship is broken and the prescriber is no longer available to treat the patient or oversee the patient's use of a prescription drug, the order loses its validity and the pharmacist, on becoming aware of the situation, shall cancel the order and any remaining refills. The pharmacist shall, however, exercise prudent judgment based upon individual circumstances to ensure that the patient is able to obtain a sufficient amount of the prescribed drug to continue treatment until the patient can reasonably obtain the service of another prescriber and a new order can be issued.

657—8.21(155A) Prospective drug use review. For purposes of promoting therapeutic appropriateness and ensuring rational drug therapy, a pharmacist shall review the patient record, information obtained from the patient, and each prescription drug or medication order to identify:

1. Overutilization or underutilization;
2. Therapeutic duplication;
3. Drug-disease contraindications;
4. Drug-drug interactions;
5. Incorrect drug dosage or duration of drug treatment;
6. Drug-allergy interactions;
7. Clinical abuse/misuse;
8. Drug-prescriber contraindications.

Upon recognizing any of the above, the pharmacist shall take appropriate steps to avoid or resolve the problem and shall, if necessary, include consultation with the prescriber. The review and assessment of patient records shall not be delegated to staff assistants but may be delegated to registered pharmacist-interns under the direct supervision of the pharmacist.

657—8.22 to **8.25** Reserved.

657—8.26(155A) Continuous quality improvement program. Each pharmacy licensed to provide pharmaceutical services to patients in Iowa shall implement or participate in a continuous quality improvement program or CQI program. The CQI program is intended to be an ongoing, systematic program of standards and procedures to detect, identify, evaluate, and prevent medication errors, thereby improving medication therapy and the quality of patient care. A pharmacy that participates as an active member of a hospital or corporate CQI program that meets the objectives of this rule shall not be required to implement a new program pursuant to this rule.

8.26(1) *Reportable program events.* For purposes of this rule, a reportable program event or program event means a preventable medication error resulting in the incorrect dispensing of a prescribed drug received by or administered to the patient and includes but is not necessarily limited to:

a. An incorrect drug;
b. An incorrect drug strength;
c. An incorrect dosage form;
d. A drug received by the wrong patient;
e. Inadequate or incorrect packaging, labeling, or directions; or
f. Any incident related to a prescription dispensed to a patient that results in or has the potential to result in serious harm to the patient.

8.26(2) *Responsibility.* The pharmacist in charge is responsible for ensuring that the pharmacy utilizes a CQI program consistent with the requirements of this rule. The pharmacist in charge may delegate program administration and monitoring, but the pharmacist in charge maintains ultimate responsibility for the validity and consistency of program activities.

8.26(3) *Policies and procedures.* Each pharmacy shall develop, implement, and adhere to written policies and procedures for the operation and management of the pharmacy's CQI program. A copy of the pharmacy's CQI program description and policies and procedures shall be maintained and readily available to all pharmacy personnel. The policies and procedures shall address, at a minimum, a planned process to:

a. Train all pharmacy personnel in relevant phases of the CQI program;

b. Identify and document reportable program events;

c. Minimize the impact of reportable program events on patients;

d. Analyze data collected to assess the causes and any contributing factors relating to reportable program events;

e. Use the findings to formulate an appropriate response and to develop pharmacy systems and workflow processes designed to prevent and reduce reportable program events; and

f. Periodically, but at least annually, meet with appropriate pharmacy personnel to review findings and inform personnel of changes that have been made to pharmacy policies, procedures, systems, or processes as a result of CQI program findings.

8.26(4) *Event discovery and notification.* As provided by the procedures of the CQI program, the pharmacist in charge or appropriate designee shall be informed of and review all reported and documented program events. All pharmacy personnel shall be trained to immediately inform the pharmacist on duty of any discovered or suspected program event. When the pharmacist on duty determines that a reportable program event has occurred, the pharmacist shall ensure that all reasonably necessary steps are taken to remedy any problems or potential problems for the patient and that those steps are documented. Necessary steps include, but are not limited to, the following:

a. Notifying the patient or the patient's caregiver and the prescriber or other members of the patient's health care team as warranted;

b. Identifying and communicating directions or processes for correcting the error; and

c. Communicating instructions for minimizing any negative impact on the patient.

8.26(5) *CQI program records.* All CQI program records shall be maintained on site at the pharmacy or shall be accessible at the pharmacy and be available for inspection and copying by the board or its representative for at least two years from the date of the record. When a reportable program event occurs or is suspected to have occurred, the program event shall be documented in a written or electronic storage record created solely for that purpose. Records of program events shall be maintained in an orderly manner and shall be filed chronologically by date of discovery.

a. The program event shall initially be documented as soon as practicable by the staff member who discovers the event or is informed of the event.

b. Program event documentation shall include a description of the event that provides sufficient information to permit categorization and analysis of the event and shall include:

(1) The date and time the program event was discovered and the name of the staff person who discovered the event; and

(2) The names of the individuals recording and reviewing or analyzing the program event information.

8.26(6) *Program event analysis and response.* The pharmacist in charge or designee shall review each reportable program event and determine if follow-up is necessary. When appropriate, information and data collected and documented shall be analyzed, individually and collectively, to assess the cause and any factors contributing to the program event. The analysis may include, but is not limited to, the following:

a. A consideration of the effects on the quality of the pharmacy system related to workflow processes, technology utilization and support, personnel training, and both professional and technical staffing levels;

b. Any recommendations for remedial changes to pharmacy policies, procedures, systems, or processes; and

c. The development of a set of indicators that a pharmacy will utilize to measure its program standards over a designated period of time.

657—8.27 to **8.29** Reserved.

657—8.30(126,155A) Sterile products. Rescinded IAB 6/6/07, effective 7/11/07.

657—8.31 Reserved.

657—8.32(124,155A) Individuals qualified to administer. The board designates the following as qualified individuals to whom a practitioner may delegate the administration of prescription drugs. Any person specifically authorized under pertinent sections of the Iowa Code to administer prescription drugs shall construe nothing in this rule to limit that authority.

1. Persons who have successfully completed a medication administration course.
2. Licensed pharmacists.

657—8.33(147,155A) Supervision of pharmacists who administer adult immunizations. A physician may prescribe via written protocol adult immunizations for influenza and pneumococcal vaccines for administration by an authorized pharmacist if the physician meets these requirements for supervising the pharmacist.

8.33(1) *Definitions.*

a. *"Authorized pharmacist"* means an Iowa-licensed pharmacist who has documented that the pharmacist has successfully completed an organized course of study in a college or school of pharmacy or an Accreditation Council for Pharmacy Education (ACPE)-approved continuing pharmaceutical education program on vaccine administration that:

(1) Requires documentation by the pharmacist of current certification in the American Heart Association or the Red Cross Basic Cardiac Life Support Protocol for health care providers;

(2) Is an evidence-based course that includes study material and hands-on training and techniques for administering vaccines, requires testing with a passing score, complies with current Centers for Disease Control and Prevention guidelines, and provides instruction and experiential training in the following content areas:

1. Standards for immunization practices;
2. Basic immunology and vaccine protection;
3. Vaccine-preventable diseases;
4. Recommended immunization schedules;
5. Vaccine storage and management;
6. Informed consent;
7. Physiology and techniques for vaccine administration;
8. Pre- and post-vaccine assessment and counseling;
9. Immunization record management; and
10. Management of adverse events, including identification, appropriate response, documentation, and reporting.

b. *"Vaccine"* means a specially prepared antigen which, upon administration to a person, will result in immunity and, specifically for the purposes of this rule, shall mean influenza and pneumococcal vaccines.

c. *"Written protocol"* means a physician's order for one or more patients that contains, at a minimum, the following:

(1) A statement identifying the individual physician authorized to prescribe drugs and responsible for the delegation of administration of adult immunizations for influenza and pneumococcus;

(2) A statement identifying the individual authorized pharmacist;

(3) A statement that forbids an authorized pharmacist from delegating the administration of adult immunizations to anyone other than another authorized pharmacist, a registered pharmacist-intern under the direct personal supervision of the authorized pharmacist, or a registered nurse;

(4) A statement identifying the vaccines that may be administered by an authorized pharmacist, the dosages, and the route of administration;

(5) A statement identifying the activities an authorized pharmacist shall follow in the course of administering adult immunizations, including:

1. Procedures for determining if a patient is eligible to receive the vaccine;

2. Procedures for determining the appropriate scheduling and frequency of drug administration in accordance with applicable guidelines;

3. Procedures for record keeping and long-term record storage including batch or identification numbers;

4. Procedures to follow in case of life-threatening reactions; and

5. Procedures for the pharmacist and patient to follow in case of reactions following administration.

(6) A statement that describes how the authorized pharmacist shall report the administration of adult immunizations, within 30 days, to the physician issuing the written protocols and to the patient's primary care physician if one has been designated by the patient. In case of serious complications, the authorized pharmacist shall notify the physicians within 24 hours and submit a VAERS report to the bureau of immunizations, Iowa department of public health. (VAERS is the Vaccine Advisory Event Reporting System.) A serious complication is one that requires further medical or therapeutic intervention to effectively protect the patient from further risk, morbidity, or mortality.

8.33(2) *Supervision.* A physician who prescribes adult immunizations to an authorized pharmacist for administration shall adequately supervise that pharmacist. Physician supervision shall be considered adequate if the delegating physician:

a. Ensures that the authorized pharmacist is prepared as described in subrule 8.33(1), paragraph *"a"*;

b. Provides a written protocol that is updated at least annually;

c. Is available through direct telecommunication for consultation, assistance, and direction, or provides physician backup to provide these services when the physician supervisor is not available;

d. Is an Iowa-licensed physician who has a working relationship with an authorized pharmacist within the physician's local provider service area.

8.33(3) *Administration of other adult immunizations by pharmacists.* A physician may prescribe, for an individual patient by prescription or medication order, other adult immunizations to be administered by an authorized pharmacist.

This rule is intended to implement Iowa Code sections 147.76, 155A.3, 155A.4, and 272C.3.

657—8.34(155A) Collaborative drug therapy management. An authorized pharmacist may only perform collaborative drug therapy management pursuant to protocol with a physician pursuant to the requirements of this rule. The physician retains the ultimate responsibility for the care of the patient. The pharmacist is responsible for all aspects of drug therapy management performed by the pharmacist.

8.34(1) *Definitions.*

"Authorized pharmacist" means an Iowa-licensed pharmacist whose license is in good standing and who meets the drug therapy management criteria defined in this rule.

"Board" means the board of pharmacy.

"Collaborative drug therapy management" means participation by an authorized pharmacist and a physician in the management of drug therapy pursuant to a written community practice protocol or a written hospital practice protocol.

"Collaborative practice" means that a physician may delegate aspects of drug therapy management for the physician's patients to an authorized pharmacist through a community practice protocol. "Collaborative practice" also means that a P&T committee may authorize hospital pharmacists to perform drug therapy management for inpatients and hospital clinic patients through a hospital practice protocol.

"Community practice protocol" means a written, executed agreement entered into voluntarily between an authorized pharmacist and a physician establishing drug therapy management for one or more of the pharmacist's and physician's patients residing in a community setting. A community practice protocol shall comply with the requirements of subrule 8.34(2).

"Community setting" means a location outside a hospital inpatient, acute care setting or a hospital clinic setting. A community setting may include, but is not limited to, a home, group home, assisted living facility, correctional facility, hospice, or long-term care facility.

"Drug therapy management criteria" means one or more of the following:

1. Graduation from a recognized school or college of pharmacy with a doctor of pharmacy (Pharm.D.) degree;
2. Certification by the Board of Pharmaceutical Specialties (BPS);
3. Certification by the Commission for Certification in Geriatric Pharmacy (CCGP);
4. Successful completion of a National Institute for Standards in Pharmacist Credentialing (NISPC) disease state management examination and credentialing by the NISPC;
5. Successful completion of a pharmacy residency program accredited by the American Society of Health-System Pharmacists (ASHP); or
6. Approval by the board of pharmacy.

"Hospital clinic" means an outpatient care clinic operated and affiliated with a hospital and under the direct authority of the hospital's P&T committee.

"Hospital pharmacist" means an Iowa-licensed pharmacist who meets the requirements for participating in a hospital practice protocol as determined by the hospital's P&T committee.

"Hospital practice protocol" means a written plan, policy, procedure, or agreement that authorizes drug therapy management between hospital pharmacists and physicians within a hospital and the hospital's clinics as developed and determined by the hospital's P&T committee. Such a protocol may apply to all pharmacists and physicians at a hospital or the hospital's clinics or only to those pharmacists and physicians who are specifically recognized. A hospital practice protocol shall comply with the requirements of subrule 8.34(3).

"IBM" means the Iowa board of medicine.

"P&T committee" means a committee of the hospital composed of physicians, pharmacists, and other health professionals that evaluates the clinical use of drugs within the hospital, develops policies for managing drug use and administration in the hospital, and manages the hospital drug formulary system.

"Physician" means a person who is currently licensed in Iowa to practice medicine and surgery, osteopathic medicine and surgery, or osteopathy. A physician who executes a written protocol with an authorized pharmacist shall supervise the pharmacist's activities involved in the overall management of patients receiving medications or disease management services under the protocol. The physician may delegate only drug therapies that are in areas common to the physician's practice.

"Therapeutic interchange" means an authorized exchange of therapeutic alternate drug products in accordance with a previously established and approved written protocol.

8.34(2) *Community practice protocol.*

a. An authorized pharmacist shall engage in collaborative drug therapy management with a physician only under a written protocol that has been identified by topic and has been submitted to the board or a committee authorized by the board. A protocol executed after July 1, 2008, will no longer be required to be submitted to the board; however, written protocols executed or renewed after July 1, 2008, shall be made available upon request of the board or the IBM.

b. The community practice protocol shall include:

(1) The name, signature, date, and contact information for each authorized pharmacist who is a party to the protocol and is eligible to manage the drug therapy of a patient. If more than one authorized pharmacist is a party to the agreement, the pharmacists shall work for a single licensed pharmacy and a principal authorized pharmacist shall be designated in the protocol.

(2) The name, signature, date, and contact information for each physician who may prescribe drugs and is responsible for supervising a patient's drug therapy management. The physician who initiates a protocol shall be considered the main caregiver for the patient respective to that protocol and shall be noted in the protocol as the principal physician.

(3) The name and contact information of the principal physician and the principal authorized pharmacist who are responsible for development, training, administration, and quality assurance of the protocol.

(4) A detailed written protocol pursuant to which the authorized pharmacist will base drug therapy management decisions for patients. The protocol shall authorize one or more of the following:

1. Prescription drug orders. The protocol may authorize therapeutic interchange or modification of drug dosages based on symptoms or laboratory or physical findings defined in the protocol. The protocol shall include information specific to the dosage, frequency, duration, and route of administration of the drug authorized by the patient's physician. The protocol shall not authorize the pharmacist to change a Schedule II drug or to initiate a drug not included in the established protocol.

2. Laboratory tests. The protocol may authorize the pharmacist to obtain or to conduct specific laboratory tests as long as the tests relate directly to the drug therapy management.

3. Physical findings. The protocol may authorize the pharmacist to check certain physical findings, e.g., vital signs, oximetry, or peak flows, that enable the pharmacist to assess and adjust the drug therapy, detect adverse drug reactions, or determine if the patient should be referred back to the patient's physician for follow-up.

4. Patient activities. The protocol may authorize the pharmacist to monitor specific patient activities.

(5) Procedures for securing the patient's written consent. If the patient's consent is not secured by the physician, the authorized pharmacist shall secure such and notify the patient's physician within 24 hours.

(6) Circumstances that shall cause the authorized pharmacist to initiate communication with the physician including but not limited to the need for new prescription orders and reports of the patient's therapeutic response or adverse reaction.

(7) A detailed statement identifying the specific drugs, laboratory tests, and physical findings upon which the authorized pharmacist shall base drug therapy management decisions.

(8) A provision for the collaborative drug therapy management protocol to be reviewed, updated, and reexecuted or discontinued at least every two years.

(9) A description of the method the pharmacist shall use to document the pharmacist's decisions or recommendations for the physician.

(10) A description of the types of reports the authorized pharmacist is to provide to the physician and the schedule by which the pharmacist is to submit these reports. The schedule shall include a time frame within which a pharmacist shall report any adverse reaction to the physician.

(11) A statement of the medication categories and the type of initiation and modification of drug therapy that the physician authorizes the pharmacist to perform.

(12) A description of the procedures or plan that the pharmacist shall follow if the pharmacist modifies a drug therapy.

(13) Procedures for record keeping, record sharing, and long-term record storage.

(14) Procedures to follow in emergency situations.

(15) A statement that prohibits the authorized pharmacist from delegating drug therapy management to anyone other than another authorized pharmacist who has signed the applicable protocol.

(16) A statement that prohibits a physician from delegating collaborative drug therapy management to any unlicensed or licensed person other than another physician or an authorized pharmacist.

(17) A description of the mechanism for the pharmacist and the physician to communicate with each other and for documentation by the pharmacist of the implementation of collaborative drug therapy.

c. Collaborative drug therapy management is valid only when initiated by a written protocol executed by at least one authorized pharmacist and at least one physician.

d. The collaborative drug therapy protocol must be filed with the board, kept on file in the pharmacy, and be made available upon request of the board or the IBM. After July 1, 2008, protocols shall no longer be filed with the board but shall be maintained in the pharmacy and made available to the board and the IBM upon request.

e. A physician may terminate or amend the collaborative drug therapy management protocol with an authorized pharmacist if the physician notifies, in writing, the pharmacist and the board. Notification shall include the name of the authorized pharmacist, the desired change, and the proposed effective date of the change. After July 1, 2008, the physician shall no longer be required to notify the board of changes

in a protocol but the written notification shall be maintained in the pharmacy and made available upon request of the board or the IBM.

f. The physician or pharmacist who initiates a protocol with a patient is responsible for securing a patient's written consent to participate in drug therapy management and for transmitting a copy of the consent to the other party within 24 hours. The consent shall indicate which protocol is involved. Any variation in the protocol for a specific patient shall be communicated to the other party at the time of securing the patient's consent. The patient's physician shall maintain the patient consent in the patient's medical record.

8.34(3) *Hospital practice protocol.*

a. A hospital's P&T committee shall determine the scope and extent of collaborative drug therapy management practices that may be conducted by the hospital's pharmacists.

b. Collaborative drug therapy management within a hospital setting or the hospital's clinic setting is valid only when approved by the hospital's P&T committee.

c. The hospital practice protocol shall include:

(1) The names or groups of pharmacists and physicians who are authorized by the P&T committee to participate in collaborative drug therapy management.

(2) A plan for development, training, administration, and quality assurance of the protocol.

(3) A detailed written protocol pursuant to which the hospital pharmacist shall base drug therapy management decisions for patients. The protocol shall authorize one or more of the following:

1. Medication orders and prescription drug orders. The protocol may authorize therapeutic interchange or modification of drug dosages based on symptoms or laboratory or physical findings defined in the protocol. The protocol shall include information specific to the dosage, frequency, duration, and route of administration of the drug authorized by the physician. The protocol shall not authorize the hospital pharmacist to change a Schedule II drug or to initiate a drug not included in the established protocol.

2. Laboratory tests. The protocol may authorize the hospital pharmacist to obtain or to conduct specific laboratory tests as long as the tests relate directly to the drug therapy management.

3. Physical findings. The protocol may authorize the hospital pharmacist to check certain physical findings, e.g., vital signs, oximetry, or peak flows, that enable the pharmacist to assess and adjust the drug therapy, detect adverse drug reactions, or determine if the patient should be referred back to the physician for follow-up.

(4) Circumstances that shall cause the hospital pharmacist to initiate communication with the patient's physician including but not limited to the need for new medication orders and prescription drug orders and reports of a patient's therapeutic response or adverse reaction.

(5) A statement of the medication categories and the type of initiation and modification of drug therapy that the P&T committee authorizes the hospital pharmacist to perform.

(6) A description of the procedures or plan that the hospital pharmacist shall follow if the hospital pharmacist modifies a drug therapy.

(7) A description of the mechanism for the hospital pharmacist and the patient's physician to communicate and for the hospital pharmacist to document implementation of the collaborative drug therapy.

657—8.35(155A) Pharmacy license. A pharmacy license issued by the board is required for all sites where prescription drugs are offered for sale or dispensed under the supervision of a pharmacist. A pharmacy license issued by the board is also required for all sites where drug information or other cognitive pharmacy services, including but not limited to drug use review and patient counseling, are provided by a pharmacist. The board may issue any of the following types of pharmacy licenses: a general pharmacy license, a hospital pharmacy license, a special or limited use pharmacy license, or a nonresident pharmacy license. Nonresident pharmacy license applicants shall comply with board rules regarding nonresident pharmacy practice except when specific exemptions have been granted. Applicants for general or hospital pharmacy practice shall comply with board rules regarding general or

hospital pharmacy practice except when specific exemptions have been granted. Any pharmacy located within Iowa that dispenses controlled substances must also register pursuant to 657—Chapter 10.

8.35(1) *Exemptions.* Applicants who are granted exemptions shall be issued a "general pharmacy license with exemption," a "hospital pharmacy license with exemption," a "nonresident pharmacy license with exemption," or a "limited use pharmacy license with exemption" and shall comply with the provisions set forth by that exemption. A written petition for exemption from certain licensure requirements shall be submitted pursuant to the procedures and requirements of 657—Chapter 34 and will be determined on a case-by-case basis.

8.35(2) *Limited use pharmacy license.* Limited use pharmacy license may be issued for nuclear pharmacy practice, correctional facility pharmacy practice, and veterinary pharmacy practice. Applications for limited use pharmacy license for these and other limited use practice settings shall be determined on a case-by-case basis.

8.35(3) *Application form.* Application for licensure and license renewal shall be on forms provided by the board. The application for a pharmacy license shall require an indication of the pharmacy ownership classification. If the owner is a sole proprietorship (100 percent ownership), the name and address of the owner shall be indicated. If the owner is a partnership or limited partnership, the names and addresses of all partners shall be listed or attached. If the owner is a corporation, the names and addresses of the officers and directors of the corporation shall be listed or attached. Any other pharmacy ownership classification shall be further identified and explained on the application. The application form shall require the name, signature, and license number of the pharmacist in charge. The names and license numbers of all pharmacists engaged in practice in the pharmacy, the names and registration numbers of all pharmacy technicians working in the pharmacy, and the average number of hours worked by each pharmacist and each pharmacy technician shall be listed or attached. Additional information may be required of specific types of pharmacy license applicants. The application shall be signed by the pharmacy owner or the owner's, partnership's, or corporation's authorized representative.

8.35(4) *License expiration and renewal.* General pharmacy licenses, hospital pharmacy licenses, special or limited use pharmacy licenses, and nonresident pharmacy licenses shall be renewed before January 1 of each year. The fee for a new or renewal license shall be $150.

a. Late payment penalty. Failure to renew the pharmacy license before January 1 following expiration shall require payment of the renewal fee and a penalty fee of $150. Failure to renew the license before February 1 following expiration shall require payment of the renewal fee and a penalty fee of $250. Failure to renew the license before March 1 following expiration shall require payment of the renewal fee and a penalty fee of $350. Failure to renew the license before April 1 following expiration shall require payment of the renewal fee and a penalty fee of $450 and may require an appearance before the board. In no event shall the combined renewal fee and penalty fee for late renewal of a pharmacy license exceed $600.

b. Delinquent license. If a license is not renewed before its expiration date, the license is delinquent and the licensee may not operate or provide pharmacy services to patients in the state of Iowa until the licensee renews the delinquent license. A pharmacy that continues to operate in Iowa without a current license may be subject to disciplinary sanctions pursuant to the provisions of 657—subrule 36.1(4).

8.35(5) *Inspection of new pharmacy location.* If the new pharmacy location within Iowa was not a licensed pharmacy immediately prior to the proposed opening of the new pharmacy, the pharmacy location shall require an on-site inspection by a pharmacy board inspector prior to the issuance of the pharmacy license. The purpose of the inspection is to determine compliance with requirements pertaining to space, library, equipment, security, temperature control, and drug storage safeguards. Inspection may be scheduled anytime following submission of necessary license and registration applications and prior to opening for business as a pharmacy. Prescription drugs, including controlled substances, may not be delivered to a new pharmacy location prior to satisfactory completion of the opening inspection.

8.35(6) *Pharmacy license changes.* When a pharmacy changes its name, location, ownership, or pharmacist in charge, a new pharmacy license application with a license fee as provided in subrule 8.35(4) shall be submitted to the board office. Upon receipt of the fee and properly completed application, the

board will issue a new pharmacy license certificate. The old license certificate shall be returned to the board office within ten days of the change of name, location, ownership, or pharmacist in charge.

a. A change of pharmacy location in Iowa shall require an on-site inspection of the new location as provided in subrule 8.35(5) if the new location was not a licensed pharmacy immediately prior to the relocation.

b. A change of ownership of a currently licensed Iowa pharmacy, or a change of pharmacy location to another existing Iowa pharmacy location, shall not require on-site inspection pursuant to subrule 8.35(5). A new pharmacy license is required as provided above. In those cases in which the pharmacy is owned by a corporation, the sale or transfer of all stock of the corporation does not constitute a change of ownership provided the corporation that owns the pharmacy continues to exist following the stock sale or transfer.

c. A change of pharmacist in charge shall require completion and submission of the application and fee for new pharmacy license . If a permanent pharmacist in charge has not been identified by the time of the vacancy, a temporary pharmacist in charge shall be identified. Written notification identifying the temporary pharmacist in charge, signed by the pharmacy owner or corporate officer and the temporary pharmacist in charge, shall be submitted to the board within 10 days following the vacancy. Within 90 days following the vacancy, a permanent pharmacist in charge shall be identified, and an application for pharmacy license, including the license fee as provided in subrule 8.35(4), shall be submitted to the board office.

8.35(7) *Pharmacy closing.* At least two weeks prior to the closing of a pharmacy, a written notice shall be sent to the board and to the Drug Enforcement Administration (DEA) notifying those agencies of the intent to discontinue business or sell the pharmacy including the anticipated date of sale or closing.

a. Prior notification shall include the name, address, DEA registration number, Iowa pharmacy license number, and Iowa controlled substances Act (CSA) registration number of the closing pharmacy and of the pharmacy to which prescription drugs will be transferred. Notification shall also include the name, address, DEA registration number, Iowa pharmacy license number, and CSA registration number of the location at which prescription files, patient profiles, and controlled substance receipt and disbursement records will be maintained.

b. Pharmacy patients with active prescriptions on file with a pharmacy that intends to close permanently shall be notified by that pharmacy, via direct mail or public notice at least two weeks prior to the closure of the pharmacy, that each patient has the right to transfer the patient's active prescriptions to a pharmacy of the patient's choosing. This paragraph shall not apply in the case of an emergency or unforeseeable closure including, but not limited to, emergency board action, foreclosure, fire, or natural disaster.

c. A complete inventory of all prescription drugs being transferred shall be taken as of the close of business. The inventory shall serve as the ending inventory for the closing pharmacy as well as a record of additional or starting inventory for the pharmacy to which the drugs are transferred. A copy of the inventory shall be included in the records of each licensee.

(1) DEA Form 222 is required for transfer of Schedule II controlled substances.

(2) The inventory of controlled substances shall be completed pursuant to the requirements in 657—10.35(124,155A).

(3) The inventory of all noncontrolled prescription drugs may be estimated.

(4) The inventory shall include the name, strength, dosage form, and quantity of all prescription drugs transferred.

(5) Controlled substances requiring destruction or other disposal shall be transferred in the same manner as all other drugs. The new owner is responsible for the disposal of these substances as provided in rule 657—10.18(124).

d. The license certificate and CSA certificate of the closing or selling pharmacy shall be returned to the board office within ten days of closing or sale. The DEA registration certificate and all unused DEA Forms 222 shall be returned to the DEA.

e. A location that no longer houses a licensed pharmacy shall not display any sign, placard, or other notification, visible to the public, which identifies the location as a pharmacy. A sign or other

public notification that cannot feasibly be removed shall be covered so as to conceal the identification as a pharmacy.

8.35(8) *Failure to complete licensure.* An application for a pharmacy license, including an application for registration pursuant to 657—Chapter 10, if applicable, will become null and void if the applicant fails to complete the licensure process within six months of receipt by the board of the required applications. The licensure process shall be complete upon the pharmacy's opening for business at the licensed location following an inspection rated as satisfactory by an agent of the board if such an inspection is required pursuant to this rule. When an applicant fails to timely complete the licensure process, fees submitted with applications will not be transferred or refunded.

These rules are intended to implement Iowa Code sections 124.101, 124.301, 124.306, 124.308, 126.10, 126.11, 126.16, 135C.33, 147.7, 147.55, 147.72, 147.74, 147.76, 155A.2 through 155A.4, 155A.6, 155A.10, 155A.12 through 155A.15, 155A.19, 155A.20, 155A.27 through 155A.29, 155A.32, and 155A.33.

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◊ Two or more ARCs

CHAPTER 10
CONTROLLED SUBSTANCES

[Prior to 2/10/88, see Pharmacy Examiners[620] Ch 8]

657—10.1(124) Who shall register. Any person or business located in Iowa that manufactures, distributes, dispenses, prescribes, imports or exports, conducts research or instructional activities, or conducts chemical analysis with controlled substances in the state of Iowa, or that proposes to engage in such activities with controlled substances in the state, shall obtain and maintain a registration issued by the board unless exempt from registration pursuant to rule 657—10.6(124). A person or business required to be registered shall not engage in any activity for which registration is required until the application for registration is granted and the board has issued a certificate of registration to such person or business.

Manufacturers, distributors, reverse distributors, importers and exporters, individual practitioners (M.D., D.O., D.D.S., D.V.M., D.P.M., O.D., P.A., resident physician, advanced registered nurse practitioner), pharmacies, hospitals and animal shelters, care facilities, researchers and dog trainers, analytical laboratories, and teaching institutions shall register on forms provided by the board office. To be eligible to register, individual practitioners must hold a current, active license in good standing, issued by the appropriate Iowa professional licensing board, to practice their profession in Iowa.

657—10.2(124) Application forms. Application forms may be obtained from the Board of Pharmacy, 400 S.W. Eighth Street, Suite E, Des Moines, Iowa 50309-4688. Forms are also available on the board's Web site, www.state.ia.us/ibpe. Registration renewal forms will be mailed to each registrant approximately 60 days before the expiration date of the registration. A registrant who has not received a renewal form 45 days before the expiration date of the registration is responsible for contacting the board to request an application.

10.2(1) *Signature requirements.* Each application, attachment, or other document filed as part of an application shall be signed by the applicant as follows:

a. If the applicant is an individual practitioner, the practitioner shall sign the application and supporting documents.

b. If the applicant is a business, the application and supporting documents shall be signed by the person ultimately responsible for the security and maintenance of controlled substances at the registered location.

10.2(2) *Submission of multiple applications.* Any person or business required to obtain more than one registration may submit all applications in one package. Each application shall be complete and shall not refer to any accompanying application or any attachment to an accompanying application for required information.

657—10.3(124) Registration and renewal. For each registration or timely renewal of a registration to manufacture, distribute, dispense, prescribe, import or export, conduct research or instructional activities, or conduct chemical analysis with controlled substances listed in Schedules I through V of Iowa Code chapter 124, registrants shall pay a biennial fee of $100.

10.3(1) *Time and method of payment.* Registration and renewal fees shall be paid at the time the application for registration or renewal is submitted. Payment should be made in the form of a personal, certified, or cashier's check or a money order made payable to the Iowa Board of Pharmacy. Payments made in the form of foreign currency or third-party endorsed checks will not be accepted.

10.3(2) *Late renewal.* Any registered person or business may apply, on forms provided by the board office, for registration renewal not more than 60 days prior to the expiration of the registration. Failure to renew a registration prior to the first day of the month following expiration shall require payment of the renewal fee and a penalty fee of $100. Payment shall be made as specified in subrule 10.3(1).

657—10.4(124) Exemptions—registration fee. The registration fee is waived for federal, state, and local law enforcement agencies and for the following federal and state institutions: hospitals, health care

or teaching institutions, and analytical laboratories authorized to possess, manufacture, distribute, and dispense controlled substances in the course of official duties.

10.4(1) *Law enforcement officials.* In order to enable law enforcement agency laboratories to obtain and transfer controlled substances for use as standards in chemical analysis, such laboratories shall maintain a registration to conduct chemical analysis. Such laboratories shall be exempt from payment of a fee for registration.

10.4(2) *Registration and duties not exempt.* Exemption from payment of a registration or registration renewal fee as provided in this rule does not relieve the agency or institution of registration or of any other requirements or duties prescribed by law.

657—10.5(124) Separate registration for independent activities; coincident activities. The following activities are deemed to be independent of each other and shall require separate registration. Any person or business engaged in more than one of these activities shall be required to separately register for each independent activity, provided, however, that registration in an independent activity shall authorize the registrant to engage in activities identified coincident with that independent activity.

10.5(1) *Manufacturing controlled substances.* A person or business registered to manufacture controlled substances in Schedules I through V may distribute any substances for which registration to manufacture was issued. A person or business registered to manufacture controlled substances in Schedules II through V may conduct chemical analysis and preclinical research, including quality control analysis, with any substances listed in those schedules for which the person or business is registered to manufacture.

10.5(2) *Distributing controlled substances.* This independent activity includes the delivery, other than by administering or dispensing, of controlled substances listed in Schedules I through V. No coincident activities are authorized.

10.5(3) *Dispensing or instructing with controlled substances.* This independent activity includes, but is not limited to, prescribing by individual practitioners, dispensing by pharmacies and hospitals, and conducting instructional activities with controlled substances listed in Schedules II through V. A person or business registered for this independent activity may conduct research and instructional activities with those substances for which the person or business is registered to the extent authorized under state law.

10.5(4) *Conducting research with controlled substances listed in Schedule I.* A researcher may manufacture or import the substances for which registration was issued provided that such manufacture or import is permitted under the federal Drug Enforcement Administration (DEA) registration. A researcher may distribute the substances for which registration was issued to persons or businesses registered or authorized to conduct research with that class of substances or registered or authorized to conduct chemical analysis with controlled substances.

10.5(5) *Conducting research with controlled substances listed in Schedules II through V.* A researcher may conduct chemical analysis with controlled substances in those schedules for which registration was issued, may manufacture such substances if and to the extent such manufacture is permitted under the federal DEA registration, and may import such substances for research purposes. A researcher may distribute controlled substances in those schedules for which registration was issued to persons registered or authorized to conduct chemical analysis, instructional activities, or research with such substances, and to persons exempt from registration pursuant to Iowa Code subsection 124.302(3), and may conduct instructional activities with controlled substances.

10.5(6) *Conducting chemical analysis with controlled substances.* A person or business registered to conduct chemical analysis with controlled substances listed in Schedules I through V may manufacture and import controlled substances for analytical or instructional activities; may distribute such substances to persons registered or authorized to conduct chemical analysis, instructional activities, or research with such substances and to persons exempt from registration pursuant to Iowa Code subsection 124.302(3); may export such substances to persons in other countries performing chemical analysis or enforcing laws relating to controlled substances or drugs in those countries; and may conduct instructional activities with controlled substances.

10.5(7) *Importing or exporting controlled substances.* A person or business registered to import controlled substances listed in Schedules I through V may distribute any substances for which such registration was issued.

657—10.6(124) Separate registrations for separate locations; exemption from registration. A separate registration is required for each principal place of business or professional practice location where controlled substances are manufactured, distributed, imported, exported, or dispensed unless the person or business is exempt from registration pursuant to Iowa Code subsection 124.302(3) or this rule.

10.6(1) *Warehouse.* A warehouse where controlled substances are stored by or on behalf of a registered person or business shall be exempt from registration except as follows:

a. Registration of the warehouse shall be required if such controlled substances are distributed directly from that warehouse to registered locations other than the registered location from which the substances were delivered to the warehouse.

b. Registration of the warehouse shall be required if such controlled substances are distributed directly from that warehouse to persons exempt from registration pursuant to Iowa Code subsection 124.302(3).

10.6(2) *Sales office.* An office used by agents of a registrant where sales of controlled substances are solicited, made, or supervised shall be exempt from registration. Such office shall not contain controlled substances, except substances used for display purposes or for lawful distribution as samples, and shall not serve as a distribution point for filling sales orders.

10.6(3) *Prescriber's office.* An office used by a prescriber who is registered at another location and where controlled substances are prescribed but where no supplies of controlled substances are maintained shall be exempt from registration. However, a prescriber who practices at more than one office location where controlled substances are administered or otherwise dispensed as a regular part of the prescriber's practice shall register at each location wherein the prescriber maintains supplies of controlled substances.

10.6(4) *Prescriber in hospital.* A prescriber who is registered at another location and who treats patients and may order the administration of controlled substances in a hospital other than the prescriber's registered practice location shall not be required to obtain a separate registration for the hospital.

10.6(5) *Affiliated interns, residents, or foreign physicians.* An individual practitioner who is an intern, resident, or foreign physician may dispense and prescribe controlled substances under the registration of the hospital or other institution which is registered and by whom the registrant is employed provided that:

a. The hospital or other institution by which the individual practitioner is employed has determined that the practitioner is permitted to dispense or prescribe drugs by the appropriate licensing board;

b. Such individual practitioner is acting only in the scope of employment in the hospital or institution;

c. The hospital or other institution authorizes the intern, resident, or foreign physician to dispense or prescribe under the hospital registration and designates a specific internal code number, letters, or combination thereof which shall be appended to the institution's DEA registration number, preceded by a hyphen (e.g., AP1234567-10 or AP1234567-12); and

d. The hospital or institution maintains a current list of internal code numbers identifying the corresponding individual practitioner, available for the purpose of verifying the authority of the prescribing individual practitioner.

657—10.7 to **10.9** Reserved.

657—10.10(124,147,155A) Inspection. The board may inspect, or cause to be inspected, the establishment of an applicant or registrant. The board shall review the application for registration and other information regarding an applicant or registrant in order to determine whether the applicant or registrant has met the applicable standards of Iowa Code chapter 124 and these rules.

657—10.11(124) Modification or termination of registration. A registered individual or business may apply to modify a current registration as provided by this rule.

10.11(1) *Change of substances authorized.* Any registrant may apply to modify the substances authorized by the registration by submitting a written request to the board. The request shall include the registrant's name, address, telephone number, registration number, and the substances or schedules to be added to or removed from the registration and shall be signed by the same person who signed the most recent application for registration or registration renewal. No fee shall be required for the modification.

10.11(2) *Change of address of registered location.*

a. Individual practitioner, researcher, analytical laboratory, or teaching institution. An entity registered under these classifications may apply to change the address of the registered location by submitting a written request to the board. The request shall include the registrant's name, current address, new address, telephone number, effective date of the address change, and registration number, and shall be signed by the registered individual practitioner or the same person who signed the most recent application for registration or registration renewal. No fee shall be required for the modification.

b. Pharmacy, hospital, care facility, manufacturer, distributor, importer, or exporter. An entity registered under these classifications shall apply to change the address of the registered location by submitting a completed application for registration. Applications may be obtained and shall be submitted as provided in rule 657—10.2(124). The registration fee as provided in rule 657—10.3(124) shall accompany each completed application.

10.11(3) *Change of registrant's name.*

a. Individual practitioner, researcher, analytical laboratory, or teaching institution. An entity registered under these classifications may apply to change the registrant's name by submitting a written request to the board. The request shall include the registrant's current name, the new name, address, telephone number, effective date of the name change, and registration number, and shall be signed by the registered individual practitioner or the same person who signed the most recent application for registration or registration renewal. No fee shall be required for the modification. Change of name, as used in this paragraph, refers to a change of the legal name of the registrant and does not authorize the transfer of a registration issued to an individual practitioner or researcher to another individual practitioner or researcher.

b. Pharmacy, hospital, care facility, manufacturer, distributor, importer, or exporter. An entity registered under these classifications shall apply to change the registrant name by submitting a completed application for registration. Applications may be obtained and shall be submitted as provided in rule 657—10.2(124). The registration fee as provided in rule 657—10.3(124) shall accompany each completed application.

10.11(4) *Change of ownership of registered business entity.* A change of immediate ownership of a pharmacy, hospital, care facility, manufacturer, distributor, analytical laboratory, teaching institution, importer, or exporter shall require the completion of an application for registration. Applications may be obtained and shall be submitted as provided in rule 657—10.2(124). The registration fee as provided in rule 10.3(124) shall accompany each completed application.

10.11(5) *Change of responsible individual.* Any registrant, except an individual practitioner, a researcher, a hospital, or a pharmacy, may apply to change the responsible individual authorized by the registration by submitting a written request to the board. The request shall include the registrant's name, address, telephone number, the name and title of the current responsible individual and of the new responsible individual, the effective date of the change, and the registration number, and shall be signed by the new responsible individual. No fee shall be required for the modification.

a. Individual practitioners and researchers. Responsibility under a registration issued to an individual practitioner or researcher shall remain with the named individual practitioner or researcher. The responsible individual under such registration may not be changed.

b. Pharmacies and hospitals. The responsible pharmacist may execute a power of attorney for DEA order forms to change responsibility under the registration issued to the pharmacy or hospital. The power of attorney shall include the name, address, DEA registration number, and Iowa uniform controlled substances Act (CSA) registration number of the registrant. The power of attorney shall

identify the current and new responsible individuals and shall authorize the new responsible individual to execute applications and official DEA order forms to requisition Schedule II controlled substances. The power of attorney shall be signed by both individuals, shall be witnessed by two adults, and shall be maintained by the registrant and available for inspection or copying by representatives of the board or other state or federal authorities.

10.11(6) *Termination of registration.* A registration issued to an individual shall terminate upon the death of the individual. A registration issued to an individual or business shall terminate when the registered individual or business ceases legal existence, discontinues business, or discontinues professional practice.

657—10.12(124) Denial, modification, suspension, or revocation of registration.

10.12(1) *Grounds for suspension or revocation.* The board may suspend or revoke any registration upon a finding that the registrant:

a. Has furnished false or fraudulent material information in any application filed under this chapter;

b. Has had the registrant's federal registration to manufacture, distribute, or dispense controlled substances suspended or revoked;

c. Has been convicted of a public offense under any state or federal law relating to any controlled substance. For the purpose of this rule only, a conviction shall include a plea of guilty, a forfeiture of bail or collateral deposited to secure a defendant's appearance in court which forfeiture has not been vacated, or a finding of guilt in a criminal action even though entry of the judgment or sentence has been withheld and the individual has been placed on probation;

d. Has committed such acts as would render the registrant's registration under Iowa Code section 124.303 inconsistent with the public interest as determined by that section; or

e. Has been subject to discipline by the registrant's respective professional licensing board and the discipline revokes, suspends, or modifies the registrant's authority regarding controlled substances (including, but not limited to, limiting or prohibiting the registrant from prescribing or handling controlled substances). A certified copy of the record of licensee discipline or a copy of the licensee's surrender of the professional license shall be conclusive evidence.

10.12(2) *Limited suspension or revocation.* If the board finds grounds to suspend or revoke a registration, the board may limit revocation or suspension of the registration to the particular controlled substance with respect to which the grounds for revocation or suspension exist. If the revocation or suspension is limited to a particular controlled substance or substances, the registrant shall be given a new certificate of registration for all substances not affected by revocation or suspension; no fee shall be required for the new certificate of registration. The registrant shall deliver the old certificate of registration to the board.

10.12(3) *Denial of registration or registration renewal.* If upon examination of an application for registration or registration renewal, including any other information the board has or receives regarding the applicant, the board determines that the issuance of the registration would be inconsistent with the public interest, the board shall serve upon the applicant an order to show cause why the registration should not be denied.

10.12(4) *Considerations in denial of registration.* In determining the public interest, the board shall consider all of the following factors:

a. Maintenance of effective controls against diversion of controlled substances into other than legitimate medical, scientific, or industrial channels.

b. Compliance with applicable state and local law.

c. Any convictions of the applicant under any federal and state laws relating to any controlled substance.

d. Past experience in the manufacture or distribution of controlled substances, and the existence in the applicant's establishment of effective controls against diversion.

e. Furnishing by the applicant of false or fraudulent material in any application filed under this chapter.

f. Suspension or revocation of the applicant's federal registration to manufacture, distribute, or dispense controlled substances as authorized by federal law.

g. Any other factors relevant to and consistent with the public health and safety.

10.12(5) *Order to show cause.* Before denying, modifying, suspending, or revoking a registration, the board shall serve upon the applicant or registrant an order to show cause why the registration should not be denied, modified, revoked, or suspended. The order to show cause shall contain a statement of the basis therefor and shall call upon the applicant or registrant to appear before an administrative law judge or the board at a time and place not less than 30 days after the date of service of the order. The order to show cause shall also contain a statement of the legal basis for such hearing and for the denial, revocation, or suspension of registration and a summary of the matters of fact and law asserted. If the order to show cause involves the possible denial of registration renewal, the order shall be served not later than 30 days before the expiration of the registration. Proceedings to refuse renewal of registration shall not abate the existing registration, which shall remain in effect pending the outcome of the administrative hearing unless the board issues an order of immediate suspension pursuant to subrule 10.12(9).

10.12(6) *Hearing requested.* If an applicant or registrant who has received an order to show cause desires a hearing on the matter, the applicant or registrant shall file a request for a hearing within 30 days after the date of service of the order to show cause. If a hearing is requested, the board shall hold a hearing pursuant to 657—Chapter 35 at the time and place stated in the order and without regard to any criminal prosecution or other proceeding. Unless otherwise ordered by the board, an administrative law judge employed by the department of inspections and appeals shall be assigned to preside over the case and to render a proposed decision for the board's consideration.

10.12(7) *Waiver of hearing.* If an applicant or registrant entitled to a hearing on an order to show cause fails to file a request for hearing, or if the applicant or registrant requests a hearing but fails to appear at the hearing, the applicant or registrant shall be deemed to have waived the opportunity for a hearing unless the applicant or registrant shows good cause for such failure.

10.12(8) *Final board order when hearing waived.* If an applicant or registrant entitled to a hearing waives or is deemed to have waived the opportunity for a hearing, the executive director of the board may cancel the hearing and issue, on behalf of the board, the board's final order on the order to show cause.

10.12(9) *Order of immediate suspension.* The board may suspend any registration simultaneously with the service upon the registrant of an order to show cause why such registration should not be revoked or suspended if it finds there is an imminent danger to the public health or safety that warrants such action. If the board suspends a registration simultaneously with the service of the order to show cause upon the registrant, it shall serve an order of immediate suspension containing a statement of its findings regarding the danger to public health or safety upon the registrant with the order to show cause. The suspension shall continue in effect until the conclusion of the proceedings, including judicial review thereof, under the provisions of the Iowa administrative procedure Act, unless sooner withdrawn by the board or dissolved by the order of the district court or an appellate court.

10.12(10) *Disposition of controlled substances.* If the board suspends or revokes a registration, the registrant shall promptly return the certificate of registration to the board. Also, upon service of the order of the board suspending or revoking the registration, the registrant shall deliver all affected controlled substances in the registrant's possession to the board or authorized agent of the board. Upon receiving the affected controlled substances from the registrant, the board or its authorized agent shall place all such substances under seal and retain the sealed controlled substances pending final resolution of any appeals or until a court of competent jurisdiction directs otherwise. No disposition may be made of the substances under seal until the time for taking an appeal has elapsed or until all appeals have been concluded unless a court, upon application, orders the sale of perishable substances and the deposit of proceeds of the sale with the court. Upon a revocation order's becoming final, all such controlled substances may be forfeited to the state.

10.12(11) *Notifications.* The board shall promptly notify the DEA and the Iowa department of public safety of all orders suspending or revoking registration and all forfeitures of controlled substances.

657—10.13 and **10.14** Reserved.

657—10.15(124,155A) Security requirements. All applicants and registrants shall provide effective controls and procedures to guard against theft and diversion of controlled substances. In order to determine whether a person has provided effective controls against diversion, the board shall use the security requirements set forth in these rules as standards for the physical security controls and operating procedures necessary to prevent diversion.

10.15(1) *Physical security.* Physical security controls shall be commensurate with the schedules and quantity of controlled substances in the possession of the registrant in normal business operation. A registrant shall periodically review and adjust security measures based on rescheduling of substances or changes in the quantity of substances in the possession of the registrant.

a. Controlled substances listed in Schedule I shall be stored in a securely locked, substantially constructed cabinet.

b. Controlled substances listed in Schedules II through V may be stored in a securely locked, substantially constructed cabinet. However, pharmacies and hospitals may disperse these substances throughout the stock of noncontrolled substances in a manner so as to obstruct the theft or diversion of the controlled substances.

10.15(2) *Factors in evaluating physical security systems.* In evaluating the overall security system of a registrant or applicant necessary to maintain effective controls against theft or diversion of controlled substances, the board may consider any of the following factors it deems relevant to the need for strict compliance with the requirements of this rule:

a. The type of activity conducted;

b. The type, form, and quantity of controlled substances handled;

c. The location of the premises and the relationship such location bears to security needs;

d. The type of building construction comprising the facility and the general characteristics of the building or buildings;

e. The type of vault, safe, and secure enclosures available;

f. The type of closures on vaults, safes, and secure enclosures;

g. The adequacy of key control systems or combination lock control systems;

h. The adequacy of electric detection and alarm systems, if any;

i. The adequacy of supervision over employees having access to controlled substances, to storage areas, or to manufacturing areas;

j. The extent of unsupervised public access to the facility, including the presence and characteristics of perimeter fencing, if any;

k. The procedures for handling business guests, visitors, maintenance personnel, and nonemployee service personnel;

l. The availability of local police protection or of the registrant's or applicant's security personnel; and

m. The adequacy of the registrant's or applicant's system for monitoring the receipt, manufacture, distribution, and disposition of controlled substances.

10.15(3) *Manufacturing and compounding storage areas.* Raw materials, bulk materials awaiting further processing, and finished products which are controlled substances listed in any schedule shall be stored pursuant to federal laws and regulations.

657—10.16(124) Report of theft or loss. A registrant shall report in writing, on forms provided by the board, any theft or significant loss of any controlled substance when the loss is attributable to other than inadvertent error. The report shall be submitted to the board office within two weeks of the discovery of the theft or loss. Thefts shall be reported whether or not the controlled substances are subsequently recovered or the responsible parties are identified and action is taken against them. A copy of the report shall be maintained in the files of the registrant, and the board will provide a copy of the report to the DEA. In addition to this required report, DEA requires the registrant to deliver notice, immediately

upon discovery of a theft or significant loss of controlled substances, to the nearest DEA field office via telephone, facsimile, or a brief written message explaining the circumstances.

657—10.17(124) Accountability of stock supply. An individual who administers a controlled substance from a non-patient-specific, stock supply in an institutional setting shall personally document on a separate readily retrievable record system each dose administered, wasted, or returned to the pharmacy. Such documentation shall not be delegated to another individual. Wastage documentation shall include the signature of a witnessing licensed health care practitioner.

Distribution records for non-patient-specific, floor-stocked controlled substances shall bear the following information:

1. Patient's name;
2. Prescriber who ordered drug;
3. Name of drug, dosage form, and strength;
4. Time and date of administration to patient and quantity administered;
5. Signature or unique electronic signature of individual administering controlled substance;
6. Returns to the pharmacy;
7. Waste, which is required to be witnessed and cosigned by another licensed health care practitioner.

657—10.18(124) Disposal. Any persons legally authorized to possess controlled substances in the course of their professional practice or the conduct of their business shall dispose of such drugs pursuant to the procedures and requirements of this rule. Disposal records shall be maintained in the files of the registrant.

10.18(1) *Registrant stock supply.* Pharmacy personnel, registrants, and registrant staff shall remove from current inventory and dispose of controlled substances by one of the following procedures.

a. The responsible individual shall utilize the services of a DEA-registered and Iowa-licensed disposal firm.

b. The board may authorize and instruct the registrant to dispose of the controlled substances in one of the following manners:

(1) By delivery to an agent of the board or to the board office;

(2) By destruction of the drugs in the presence of a board officer, agent, inspector, or other authorized individual; or

(3) By such other means as the board may determine to ensure that drugs do not become available to unauthorized persons.

10.18(2) *Waste.* Except as otherwise specifically provided by federal or state law or rules of the board, the unused portion of a controlled substance resulting from administration to a patient from a registrant's stock or emergency supply or resulting from drug compounding operations may be destroyed or otherwise disposed of by the registrant or a pharmacist in witness of one other licensed health care provider or a registered pharmacy technician 18 years of age or older pursuant to this subrule. A written record of the wastage shall be made and maintained by the registrant for a minimum of two years following the destruction or other disposal. The record shall include the signatures of the individual destroying or otherwise disposing of the waste controlled substance and of the witnessing licensed health care provider or registered pharmacy technician and shall identify the following:

a. The controlled substance wasted;

b. The date of destruction or other disposition;

c. The quantity or estimated quantity of the wasted controlled substance;

d. The source of the controlled substance, including identification of the patient to whom the substance was administered or the drug compounding process utilizing the controlled substance; and

e. The reason for the waste.

10.18(3) *Previously dispensed controlled substances.* Controlled substances dispensed to or for a patient and subsequently requiring destruction due to discontinuance of the drug, death of the patient, or other reasons necessitating destruction may be destroyed or otherwise disposed of by a pharmacist in

witness of one other responsible adult pursuant to this subrule. All licenses and registrations issued to the pharmacy, the pharmacist, and any individual witnessing the destruction or other disposition shall not be subject to sanctions relating to controlled substances at the time of the destruction or disposition. The individuals involved in the destruction or other disposition shall not have been subject to any criminal, civil, or administrative action relating to violations of controlled substances laws, rules, or regulations within the past five years. The pharmacist in charge shall be responsible for designating pharmacists authorized to participate in the destruction or other disposition pursuant to this subrule. The authorized pharmacist shall prepare and maintain in the pharmacy a readily retrievable record of the destruction or other disposition, which shall be clearly marked to indicate the destruction or other disposition of noninventory or patient drugs. The record shall include, at a minimum, the following:

a. Source of the controlled substance (patient identifier or administering practitioner, if applicable, and date of return);

b. The name, strength, and dosage form of the substance;

c. The quantity returned and destroyed or otherwise disposed;

d. The date the substance is destroyed or otherwise disposed;

e. The signatures or other unique identification of the pharmacist and the witness.

657—10.19 and **10.20** Reserved.

657—10.21(124,126,155A) Prescription requirements. All prescriptions for controlled substances shall be dated as of, and manually signed on, the day issued. Controlled substances prescriptions shall be valid for six months following date of issue.

10.21(1) *Form of prescription.* All prescriptions shall bear the full name and address of the patient; the drug name, strength, dosage form, quantity prescribed, and directions for use; and the name, address, and DEA registration number of the prescriber. All prescriptions issued by individual prescribers shall include the legibly preprinted, typed, or hand-printed name of the prescriber as well as the prescriber's signature. When an oral order is not permitted, prescriptions shall be written with ink, indelible pencil, or typed print and shall be manually signed by the prescriber. A secretary or agent may prepare a prescription for the signature of the prescriber but the prescribing practitioner is responsible for the accuracy, completeness, and validity of the prescription. A corresponding liability rests upon the pharmacist who fills a prescription not prepared in the form prescribed by this rule.

10.21(2) *Verification by pharmacist.* The pharmacist shall verify the authenticity of the prescription with the individual prescriber in each case when a prescription for a Schedule II controlled substance is presented for filling and neither the prescribing individual practitioner issuing the prescription nor the patient or patient's agent is known to the pharmacist. The pharmacist is required to record the manner by which the prescription was verified and include the pharmacist's name or unique identifier.

10.21(3) *Intern, resident, foreign physician.* An intern, resident, or foreign physician exempt from registration pursuant to subrule 10.6(5) shall include on all prescriptions issued the hospital's registration number and the special internal code number assigned by the hospital in lieu of the prescriber's registration number required by this rule. Each prescription shall include the stamped or printed name of the intern, resident, or foreign physician as well as the prescriber's signature.

10.21(4) *Valid prescriber/patient relationship.* Once the prescriber/patient relationship is broken and the prescriber is no longer available to treat the patient or to oversee the patient's use of the controlled substance, a prescription shall lose its validity. A prescriber/patient relationship shall be deemed broken when the prescriber dies, retires, or moves out of the local service area or when the prescriber's authority to prescribe is suspended, revoked, or otherwise modified to exclude authority for the schedule in which the prescribed substance is listed. The pharmacist, upon becoming aware of the situation, shall cancel the prescription and any remaining refills. However, the pharmacist shall exercise prudent judgment based upon individual circumstances to ensure that the patient is able to obtain a sufficient amount of the drug to continue treatment until the patient can reasonably obtain the service of another prescriber and a new prescription can be issued.

10.21(5) *Schedule II prescriptions.* With appropriate verification, a pharmacist may add information provided by the patient or patient's agent, such as the patient's address, to a Schedule II controlled substance prescription. A pharmacist shall never change the patient's name, the controlled substance prescribed except for generic substitution, or the name or signature of the prescriber. After consultation with the prescribing practitioner and documentation of such consultation, a pharmacist may change or add the following information on a Schedule II controlled substance prescription:

a. The drug strength;

b. The dosage form;

c. The drug quantity;

d. The directions for use; and

e. The date the prescription was issued.

657—10.22(124) Schedule II emergency prescriptions.

10.22(1) *Emergency situation defined.* For the purposes of authorizing an oral or electronically transmitted prescription for a Schedule II controlled substance listed in Iowa Code section 124.206, the term "emergency situation" means those situations in which the prescribing practitioner determines that all of the following apply:

a. Immediate administration of the controlled substance is necessary for proper treatment of the intended ultimate user.

b. No appropriate alternative treatment is available, including administration of a drug that is not a Schedule II controlled substance.

c. It is not reasonably possible for the prescribing practitioner to provide a written prescription to be presented to the person dispensing the substance prior to the dispensing.

10.22(2) *Requirements of emergency prescription.* In the case of an emergency situation as defined herein, a pharmacist may dispense a controlled substance listed in Schedule II pursuant to an electronic transmission or upon receiving oral authorization of a prescribing individual practitioner provided that:

a. The quantity prescribed and dispensed is limited to the smallest available quantity to meet the needs of the patient during the emergency period. Dispensing beyond the emergency period requires a written prescription manually signed by the prescribing individual practitioner.

b. If the pharmacist does not know the prescribing individual practitioner, the pharmacist shall make a reasonable effort to determine that the authorization came from an authorized prescriber. The pharmacist shall record the manner by which the authorization was verified and include the pharmacist's name or unique identification.

c. The pharmacist shall prepare a temporary written record of the emergency prescription. The temporary written record shall consist of a hard copy of the electronic transmission or a written record of the oral transmission authorizing the emergency dispensing. If the emergency prescription is transmitted by the practitioner's agent, the record shall include the name and title of the individual who transmitted the prescription.

d. If the emergency prescription is transmitted via electronic transmission, the means of transmission shall not obscure or render the prescription information illegible due to security features of the paper utilized by the prescriber to prepare the written prescription, and the hard-copy record of the electronic transmission shall not be obscured or rendered illegible due to such security features.

e. Within seven days after authorizing an emergency prescription, the prescribing individual practitioner shall cause a written prescription for the emergency quantity prescribed to be delivered to the dispensing pharmacist. In addition to conforming to the requirements of 657—10.21(124,126,155A), the prescription shall have written on its face "Authorization for Emergency Dispensing" and the date of the emergency order. The written prescription may be delivered to the pharmacist in person or by mail, but if delivered by mail it must be postmarked within the seven-day period. The written prescription shall be attached to and maintained with the temporary written record prepared pursuant to paragraph *"c."*

f. The pharmacist shall notify the board if the prescribing individual fails to deliver a written prescription. Failure of the pharmacist to so notify the board, or failure of the prescribing individual

to deliver the required written prescription as herein required, shall void the authority conferred by this subrule.
[**ARC 7636B**, IAB 3/11/09, effective 4/15/09]

657—10.23(124) Schedule II prescriptions—partial filling. The partial filling of a prescription for a controlled substance listed in Schedule II is permitted as provided in this rule.

10.23(1) *Insufficient supply on hand.* If the pharmacist is unable to supply the full quantity called for in a prescription and makes a notation of the quantity supplied on the prescription record, a partial fill of the prescription is permitted. The remaining portion of the prescription must be filled within 72 hours of the first partial filling. If the remaining portion is not or cannot be filled within the 72-hour period, the pharmacist shall so notify the prescriber. No further quantity may be supplied beyond 72 hours without a new prescription.

10.23(2) *Long-term care or terminally ill patient.* A prescription for a Schedule II controlled substance written for a patient in a long-term care facility (LTCF) or for a patient with a medical diagnosis documenting a terminal illness may be filled in partial quantities to include individual dosage units as provided by this subrule.

a. If there is any question whether a patient may be classified as having a terminal illness, the pharmacist shall contact the practitioner prior to partially filling the prescription. Both the pharmacist and the practitioner have a corresponding responsibility to ensure that the controlled substance is for a terminally ill patient.

b. The pharmacist shall record on the prescription whether the patient is "terminally ill" or an "LTCF patient." For each partial filling, the dispensing pharmacist shall record on the back of the prescription, or on another appropriate uniformly maintained and readily retrievable record, the date of the partial filling, the quantity dispensed, the remaining quantity authorized to be dispensed, and the identification of the dispensing pharmacist.

c. The total quantity of Schedule II controlled substances dispensed in all partial fillings shall not exceed the total quantity prescribed. Schedule II prescriptions for patients in a LTCF or patients with a medical diagnosis documenting a terminal illness shall be valid for a period not to exceed 60 days from the issue date unless sooner terminated by the discontinuance of the drug.

d. Information pertaining to current Schedule II prescriptions for patients in a LTCF or for patients with a medical diagnosis documenting a terminal illness may be maintained in a computerized system pursuant to rule 657—21.4(124,155A).

657—10.24(124) Schedule II medication order. Schedule II controlled substances may be administered or dispensed to institutionalized patients pursuant to a medication order as provided in 657—subrule 7.13(1) or rule 657—23.18(124,155A), as applicable.

657—10.25(124) Schedule II—issuing multiple prescriptions. An individual prescriber may issue multiple prescriptions authorizing the patient to receive a total of up to a 90-day supply of a Schedule II controlled substance pursuant to the provisions and limitations of this rule.

10.25(1) *Refills prohibited.* The issuance of refills for a Schedule II controlled substance is prohibited. The use of multiple prescriptions for the dispensing of Schedule II controlled substances, pursuant to this rule, ensures that the prescriptions are treated as separate dispensing authorizations and not as refills of an original prescription.

10.25(2) *Legitimate medical purpose.* Each separate prescription issued pursuant to this rule shall be issued for a legitimate medical purpose by an individual prescriber acting in the usual course of the prescriber's professional practice.

10.25(3) *Dates and instructions.* Each prescription issued pursuant to this rule shall be dated as of and manually signed by the prescriber on the day the prescription is issued. Each separate prescription, other than the first prescription if that prescription is intended to be filled immediately, shall contain written instructions indicating the earliest date on which a pharmacist may fill each prescription.

10.25(4) *Authorized fill date unalterable.* Regardless of the provisions of subrule 10.21(5), when a prescription contains instructions from the prescriber indicating that the prescription shall not be filled before a certain date, a pharmacist shall not fill the prescription before that date. The pharmacist shall not contact the prescriber for verbal authorization to fill the prescription before the fill date originally indicated by the prescriber pursuant to this rule.

10.25(5) *Number of prescriptions and authorized quantity.* An individual prescriber may issue for a patient as many separate prescriptions, to be filled sequentially pursuant to this rule, as the prescriber deems necessary to provide the patient with adequate medical care. The cumulative effect of the filling of each of these separate prescriptions shall result in the receipt by the patient of a quantity of the Schedule II controlled substance not exceeding a 90-day supply.

10.25(6) *Prescriber's discretion.* Nothing in this rule shall be construed as requiring or encouraging an individual prescriber to issue multiple prescriptions pursuant to this rule or to see the prescriber's patients only once every 90 days when prescribing Schedule II controlled substances. An individual prescriber shall determine, based on sound medical judgment and in accordance with established medical standards, how often to see patients and whether it is appropriate to issue multiple prescriptions pursuant to this rule.

[**ARC 8172B**, IAB 9/23/09, effective 10/28/09]

657—10.26 Reserved.

657—10.27(124,155A) Facsimile transmission of a controlled substance prescription.

10.27(1) *Schedule II prescription.* A prescription for a Schedule II controlled substance may be transmitted via facsimile to the pharmacy only as provided in rules 657—21.12(124,155A) to 657—21.16(124,155A).

10.27(2) *Schedule III, IV, or V prescription.* A prescription for a Schedule III, IV, or V controlled substance may be transmitted via facsimile to the pharmacy only as provided in rule 657—21.9(124,155A).

657—10.28(124,155A) Schedule III, IV, or V refills. No prescription for a controlled substance listed in Schedule III, IV, or V shall be filled or refilled more than six months after the date on which it was issued nor be refilled more than five times.

10.28(1) *Record.* Each filling and refilling of a prescription shall be entered on the prescription or on another uniformly maintained and readily retrievable record.

a. The following information shall be retrievable by the prescription number: the name and dosage form of the controlled substance, the date filled or refilled, the quantity dispensed, the unique identification of the dispensing pharmacist for each refill, and the total number of refills authorized for that prescription.

b. If the pharmacist merely initials or affixes the pharmacist's unique identifier and dates the back of the prescription, it shall be deemed that the full face amount of the prescription has been dispensed.

10.28(2) *Oral refill authorization.* The prescribing practitioner may authorize additional refills of Schedule III, IV, or V controlled substances on the original prescription through an oral refill authorization transmitted to the pharmacist provided the following conditions are met:

a. The total quantity authorized, including the amount of the original prescription, does not exceed five refills nor extend beyond six months from the date of issuance of the original prescription.

b. The pharmacist who obtains the oral authorization records from the prescriber who issued the original prescription records on or with the original prescription the date, the quantity of each refill, the number of additional refills authorized, and the pharmacist's unique identification.

c. The quantity of each additional refill is equal to or less than the quantity authorized for the initial filling of the original prescription.

d. The prescribing practitioner must execute a new and separate prescription for any additional quantities beyond the five-refill, six-month limitation.

10.28(3) *Automated data processing record system.* An automated data processing record system may be used for the storage and retrieval of Schedule III, IV, and V controlled substance prescription fill and refill information subject to the conditions and requirements of rules 657—21.4(124,155A) and 657—21.5(124,155A).

657—10.29(124,155A) Schedule III, IV, or V partial fills. The partial filling of a prescription for a controlled substance listed in Schedule III, IV, or V is permissible provided that each partial fill is recorded in the same manner as a refill. The total quantity dispensed in all partial fills shall not exceed the total quantity prescribed. No dispensing shall occur later than six months after the date on which the prescription was issued.

657—10.30(124,155A) Schedule III, IV, and V medication order. A Schedule III, IV, or V controlled substance may be administered or dispensed to institutionalized patients pursuant to a medication order as provided in 657—subrule 7.13(1) or rule 657—23.9(124,155A), as applicable.

657—10.31(124,155A) Dispensing Schedule V controlled substances without a prescription. A controlled substance listed in Schedule V, which substance is not a prescription drug as determined under the federal Food, Drug and Cosmetic Act, and excepting products containing ephedrine, pseudoephedrine, or phenylpropanolamine, may be dispensed or administered without a prescription by a pharmacist to a purchaser at retail pursuant to the conditions of this rule.

10.31(1) *Who may dispense.* Dispensing shall be by a licensed Iowa pharmacist or by a registered pharmacist-intern under the direct supervision of a pharmacist preceptor. This subrule does not prohibit, after the pharmacist has fulfilled the professional and legal responsibilities set forth in this rule and has authorized the dispensing of the substance, the completion of the actual cash or credit transaction or the delivery of the substance by a nonpharmacist.

10.31(2) *Frequency and quantity.* Dispensing at retail to the same purchaser in any 48-hour period shall be limited to no more than one of the following quantities of a Schedule V controlled substance:

a. 240 cc (8 ounces) of any controlled substance containing opium.

b. 120 cc (4 ounces) of any other controlled substance.

c. 48 dosage units of any controlled substance containing opium.

d. 24 dosage units of any other controlled substance.

10.31(3) *Age of purchaser.* The purchaser shall be at least 18 years of age.

10.31(4) *Identification.* The pharmacist shall require every purchaser under this rule not known by the pharmacist to present a government-issued photo identification, including proof of age when appropriate.

10.31(5) *Record.* A bound record book (i.e., with pages sewn or glued to the spine) for dispensing of Schedule V controlled substances pursuant to this rule shall be maintained by the pharmacist. The book shall contain the name and address of each purchaser, the name and quantity of controlled substance purchased, the date of each purchase, and the name or unique identification of the pharmacist or pharmacist-intern who approved the dispensing of the substance to the purchaser.

10.31(6) *Prescription not required under other laws.* No other federal or state law or regulation requires a prescription prior to distributing or dispensing a Schedule V controlled substance.

657—10.32(124,155A) Dispensing products containing ephedrine, pseudoephedrine, or phenylpropanolamine. A product containing ephedrine, pseudoephedrine, or phenylpropanolamine, which substance is a Schedule V controlled substance and is not listed in another controlled substance schedule, may be dispensed or administered without a prescription by a pharmacist to a purchaser at retail pursuant to the conditions of this rule.

10.32(1) *Who may dispense.* Dispensing shall be by a licensed Iowa pharmacist or by a registered pharmacist-intern under the direct supervision of a pharmacist preceptor. This subrule does not prohibit, after the pharmacist has fulfilled the professional and legal responsibilities set forth in this rule and has

authorized the dispensing of the substance, the completion of the actual cash or credit transaction or the delivery of the substance by a nonpharmacist.

10.32(2) *Packaging of nonliquid forms.* A nonliquid form of a product containing ephedrine, pseudoephedrine, or phenylpropanolamine includes gel caps. Nonliquid forms of these products to be sold pursuant to this rule shall be packaged either in blister packaging with each blister containing no more than two dosage units or, if blister packs are technically infeasible, in unit dose packets or pouches.

10.32(3) *Frequency and quantity.* Dispensing at retail to the same purchaser within any 30-day period shall be limited to products collectively containing no more than 7,500 mg of ephedrine, pseudoephedrine, or phenylpropanolamine; dispensing at retail to the same purchaser within a single calendar day shall not exceed 3,600 mg.

10.32(4) *Age of purchaser.* The purchaser shall be at least 18 years of age.

10.32(5) *Identification.* The pharmacist shall require every purchaser under this rule to present a government-issued photo identification, including proof of age when appropriate. The pharmacist shall be responsible for verifying that the name on the identification matches the name provided by the purchaser and that the photo image depicts the purchaser.

10.32(6) *Record.* A legible dispensing record shall be created and maintained for the dispensing of ephedrine, pseudoephedrine, and phenylpropanolamine products pursuant to this rule.

a. *Record contents.* The record shall contain the following:

(1) The name, address, and signature of the purchaser.

(2) The name and quantity of the product purchased, including the total milligrams of ephedrine, pseudoephedrine, or phenylpropanolamine contained in the product.

(3) The date and time of the purchase.

(4) The name or unique identification of the pharmacist or pharmacist-intern who approved the dispensing of the product.

b. *Record format.* The record shall be maintained using one of the following options:

(1) A hard-copy record maintained in a bound logbook (i.e., with pages sewn or glued to the spine).

(2) A record in the pharmacy's electronic prescription dispensing record-keeping system.

(3) A record in an electronic data collection system that captures each of the data elements required by this subrule. The electronic data collection system shall be capable of producing a hard-copy printout of a record upon request by the board or its representative or to such other persons or governmental agencies authorized by law to receive such information.

10.32(7) *Notice required.* The following notice shall be included in the logbook required pursuant to subrule 10.32(6) or shall be displayed in the dispensing area and be visible to the public:

"WARNING: Section 1001 of Title 18, United States Code, states that whoever, with respect to the logbook, knowingly and willfully falsifies, conceals, or covers up by any trick, scheme, or device a material fact, or makes any materially false, fictitious, or fraudulent statement or representation, or makes or uses any false writing or document knowing the same to contain any materially false, fictitious, or fraudulent statement or entry, shall be fined not more than $250,000 if an individual or $500,000 if an organization, imprisoned not more than five years, or both."

657—10.33(124,155A) Schedule II perpetual inventory in pharmacy. Each pharmacy located in Iowa that dispenses Schedule II controlled substances shall maintain a perpetual inventory system for all Schedule II controlled substances pursuant to the requirements of this rule. All records relating to the perpetual inventory shall be maintained by the pharmacy and shall be available for inspection and copying by the board or its representative for a period of two years from the date of the record.

10.33(1) *Record format.* The perpetual inventory record may be maintained in a manual or an electronic record format. Any electronic record shall provide for hard-copy printout of all transactions recorded in the perpetual inventory record for any specified period of time and shall state the current inventory quantities of each drug at the time the record is printed.

10.33(2) *Information included.* The perpetual inventory record shall identify all receipts for and disbursements of Schedule II controlled substances by drug or by national drug code (NDC) number.

The record shall be updated to identify each prescription filled and each shipment received. The record shall also include incident reports and reconciliation records pursuant to subrules 10.33(3) and 10.33(4).

10.33(3) *Changes to a record.* If a perpetual inventory record is able to be changed, the individual making a change to the record shall complete an incident report documenting the change. The incident report shall identify the specific information that was changed including the information before and after the change, shall identify the individual making the change, and shall include the date and the reason the record was changed. If the electronic record system documents within the perpetual inventory record all of the information that must be included in an incident report, a separate report is not required.

10.33(4) *Reconciliation.* The pharmacist in charge shall be responsible for reconciling the physical inventory of all Schedule II controlled substances with the perpetual inventory balance on a periodic basis but no less frequently than annually. In case of any discrepancies between the physical inventory and the perpetual inventory, the pharmacist in charge shall determine the need for further investigation, and significant discrepancies shall be reported to the board pursuant to rule 10.16(124) and to the DEA pursuant to federal DEA regulations. Periodic reconciliation records shall be maintained and available for review and copying by the board or agents of the board for a period of two years from the date of the record. The reconciliation process may be completed using either of the following procedures or a combination thereof:

a. The dispensing pharmacist verifies that the physical inventory matches the perpetual inventory following each dispensing and documents that reconciliation in the perpetual inventory record. If controlled substances are maintained on the patient care unit, the nurse or other responsible licensed health care provider verifies that the physical inventory matches the perpetual inventory following each dispensing and documents that reconciliation in the perpetual inventory record. All discrepancies shall be reported to the pharmacist in charge. If any Schedule II controlled substances in the pharmacy's current inventory have been dispensed and verified in this manner within the year, and there are no discrepancies noted, no additional reconciliation action is required. A drug that has had no activity within the year shall be reconciled pursuant to paragraph *"b"* of this subrule.

b. A physical count of each Schedule II controlled substance stocked by the pharmacy shall be completed at least once each year, and that count shall be reconciled with the perpetual inventory record balance. The physical count and reconciliation may be completed over a period of time not to exceed one year in a manner that ensures that the perpetual inventory and the physical inventory of Schedule II controlled substances are annually reconciled. The individual performing the reconciliation shall record the date, the time, the individual's initials or unique identification, and any discrepancies between the physical inventory and the perpetual inventory. Any discrepancies between the physical inventory and the perpetual inventory shall be reported to the pharmacist in charge.

657—10.34(124,155A) Records. Every inventory or other record required to be kept under this chapter or under Iowa Code chapter 124 shall be kept by the registrant and be available for inspection and copying by the board or its representative for at least two years from the date of such inventory or record except as otherwise required in these rules. Controlled substances records shall be maintained in a readily retrievable manner that establishes the receipt and distribution of all controlled substances. Original hard-copy prescription and other pharmacy records more than 12 months old may be maintained in a secure storage area outside the licensed pharmacy department unless such remote storage is prohibited under federal law. A remote storage area shall be located within the same physical structure containing the licensed pharmacy department.

10.34(1) *Schedule I and II records.* Inventories and records of controlled substances listed in Schedules I and II shall be maintained separately from all other records of the registrant.

10.34(2) *Schedule III, IV, and V records.* Inventories and records of controlled substances listed in Schedules III, IV, and V shall be maintained either separately from all other records of the registrant or in such form that the required information is readily retrievable from the ordinary business records of the registrant.

10.34(3) *Date of record.* The date on which a controlled substance is actually received, imported, distributed, exported, or otherwise transferred shall be used as the date of receipt or distribution.

10.34(4) *Receipt and disbursement records.* Each record of receipt or disbursement of controlled substances, unless otherwise provided in these rules or pursuant to federal law, shall include the following:

a. The name of the substance;

b. The strength and dosage form of the substance;

c. The number of units or commercial containers acquired from other registrants, including the date of receipt and the name, address, and DEA registration number of the registrant from whom the substances were acquired;

d. The number of units or commercial containers distributed to other registrants, including the date of distribution and the name, address, and DEA registration number of the registrant to whom the substances were distributed; and

e. The number of units or commercial containers disposed of in any other manner, including the date and manner of disposal and the name, address, and DEA registration number of the registrant to whom the substances were distributed for disposal, if appropriate.

10.34(5) *Dispensing records.* Each record of dispensing of controlled substances to a patient or research subject shall include the following information:

a. The name and address of the person to whom dispensed;

b. The date of dispensing;

c. The name of the substance;

d. The quantity of the substance dispensed; and

e. The name or unique identification of the individual who dispensed or administered the substance.

10.34(6) *Ordering or distributing Schedule I or II controlled substances - DEA Form 222.* Except as otherwise provided by subrule 10.34(7) and under federal law, a DEA Form 222 is required for each distribution of a Schedule I or II controlled substance. An order form may be executed only on behalf of the registrant named on the order form and only if the registrant's DEA and Iowa registrations for the substances being purchased have not expired or been revoked or suspended by the issuing agency.

a. Order forms shall be obtained, executed, and filled pursuant to DEA requirements. Each form shall be complete, legible, and properly prepared, executed, and endorsed and shall contain no alteration, erasure, or change of any kind.

b. The purchaser shall submit Copy 1 and Copy 2 of the order form to the supplier.

c. The purchaser shall maintain Copy 3 of the order form in the files of the registrant. Upon receipt of the substances from the supplier, the purchaser shall record on Copy 3 of the order form the quantity of each substance received, and the date of receipt, and shall initial each line identifying a substance received.

d. The supplier shall record on Copy 1 and Copy 2 of the order form the quantity of each substance distributed to the purchaser and the date on which the shipment is made. The supplier shall maintain Copy 1 of the order form in the files of the supplier and shall forward Copy 2 of the order form to the DEA district office.

e. Order forms shall be maintained separately from all other records of the registrant.

f. Each unaccepted, defective, or otherwise "void" order form and any attached statement or other documents relating to any order form shall be maintained in the files of the registrant.

g. If the registration of any purchaser of Schedule I or II controlled substances is terminated for any reason, or if the name or address of the registrant as shown on the registration is changed, the registrant shall return all unused order forms to the DEA district office.

10.34(7) *Ordering or distributing Schedule I or II controlled substances - electronic ordering system.* A registrant authorized to order or distribute Schedule I or II controlled substances via the DEA Controlled Substances Ordering System (CSOS) shall comply with the requirements of the DEA relating to that system, including the maintenance and security of digital certificates, signatures, and passwords and all record-keeping and reporting requirements.

a. For an electronic order to be valid, the purchaser shall sign the electronic order with a digital signature issued to the purchaser or the purchaser's agent by the DEA.

b. An electronic order may include controlled substances that are not in Schedules I and II and may also include noncontrolled substances.

c. A purchaser shall submit an order to a specific wholesale distributor appropriately licensed to distribute in Iowa.

d. Prior to filling an order, a supplier shall verify the integrity of the signature and the order, verify that the digital certificate has not expired, check the validity of the certificate, and verify the registrant's authority to order the controlled substances.

e. The supplier shall retain an electronic record of every order, including a record of the number of commercial or bulk containers furnished for each item and the date on which the supplier shipped the containers to the purchaser. The shipping record shall be linked to the electronic record of the order. Unless otherwise provided under federal law, a supplier shall ship the controlled substances to the registered location associated with the digital certificate used to sign the order.

f. If an order cannot be filled for any reason, the supplier shall notify the purchaser and provide a statement as to the reason the order cannot be filled. When a purchaser receives such a statement from a supplier, the purchaser shall electronically link the statement of nonacceptance to the original electronic order. Neither a purchaser nor a supplier may correct a defective order; the purchaser must issue a new order for the order to be filled.

g. When a purchaser receives a shipment, the purchaser shall create a record of the quantity of each item received and the date received. The record shall be electronically linked to the original order and shall identify the individual reconciling the order. A purchaser shall, for each order filled, retain the original signed order and all linked records for that order for two years. The purchaser shall also retain all copies of each unfilled or defective order and each linked statement.

h. A supplier shall retain each original order filled and all linked records for two years. A supplier shall, for each electronic order filled, forward to the DEA within two business days either a copy of the electronic order or an electronic report of the order in a format specified by the DEA.

i. Records of CSOS electronic orders and all linked records shall be maintained by a supplier and a purchaser for two years following the date of shipment or receipt, respectively. Records may be maintained electronically or in hard-copy format. Records that are maintained electronically shall be readily retrievable from all other records, shall be easily readable or easily rendered into a readable format, shall be readily retrievable at the registered location, and shall be made available to the board, to the board's agents, or to the DEA upon request. Records maintained in hard-copy format shall be maintained in the same manner as DEA Form 222.

[**ARC 8539B**, IAB 2/24/10, effective 4/1/10]

657—10.35(124,155A) Physical count and record of inventory. Responsibility for ensuring that a required inventory is timely completed shall rest with the registrant or, in the case of a registered business, shall rest with the owner of the business. A registrant or owner of a registered business may delegate the actual taking of any inventory. The person or persons responsible for taking the inventory shall sign the completed inventory record.

10.35(1) *Record and procedure.* Each inventory record, except the periodic count and reconciliation required pursuant to subrule 10.33(4), shall comply with the requirements of this subrule and shall be maintained for a minimum of two years from the date of the inventory.

a. Each inventory shall contain a complete and accurate record of all controlled substances on hand on the date and at the time the inventory is taken.

b. Each inventory shall be maintained in a handwritten, typewritten, or electronically printed form at the registered location. An inventory of Schedule II controlled substances shall be maintained separately from an inventory of all other controlled substances.

c. Controlled substances shall be deemed to be on hand if they are in the possession of or under the control of the registrant. These shall include prescriptions prepared for dispensing to a patient but not yet delivered to the patient, substances maintained in emergency medical services programs or care facility emergency supplies, outdated or adulterated substances pending destruction, and substances stored in a warehouse on behalf of the registrant.

d. A separate inventory shall be made for each registered location and for each independent activity registered except as otherwise provided under federal law.

e. The inventory shall be taken either prior to opening or following the close of business on the inventory date, and the inventory record shall identify either opening or close of business.

f. The inventory record, unless otherwise provided under federal law, shall include the following information:

(1) The name of the substance;

(2) The strength and dosage form of the substance; and

(3) The quantity of the substance.

g. For all substances listed in Schedule I or II, and for all solid oral and injectable hydrocodone-containing products, the quantity shall be an exact count or measure of the substance.

h. For all substances listed in Schedule III, IV, or V, except for hydrocodone-containing products identified in paragraph *"g"* herein, the quantity may be an estimated count or measure of the substance unless the container has been opened and originally held more than 100 dosage units. If the opened commercial container originally held more than 100 dosage units, an exact count of the contents shall be made. Liquid oral hydrocodone-containing products packaged in incremented containers shall be measured to the nearest increment; products packaged in nonincremented containers may be estimated to the nearest one-fourth container.

10.35(2) *Initial inventory.* A new registrant shall take an inventory of all stocks of controlled substances on hand on the date the new registrant first engages in the manufacture, distribution, or dispensing of controlled substances. If the registrant commences business or the registered activity with no controlled substances on hand, the initial inventory shall record that fact.

10.35(3) *Annual inventory.* After the initial inventory is taken, a registrant shall take a new inventory of all stocks of controlled substances on hand at least annually. The annual inventory may be taken on any date that is within one year of the previous inventory date.

10.35(4) *Change of ownership.* Both the current owner and the prospective owner shall be responsible for ensuring that an inventory of all controlled substances is timely completed whenever there is a change of ownership of any pharmacy or drug wholesaler licensed pursuant to Iowa Code section 155A.13 or 155A.17, respectively.

10.35(5) *Change of pharmacist in charge (PIC).* An inventory of all controlled substances shall be completed whenever there is a change of PIC. The inventory shall be taken following the close of business the last day of the terminating PIC's employment and prior to opening for business the first day of the new PIC's employment. A single inventory shall be sufficient if there is no lapse between employment of the terminating PIC and the new PIC.

10.35(6) *Change of registered location.* A registrant shall take an inventory of all controlled substances whenever there is a change of registered location. The inventory shall be taken following the close of business the last day at the location being vacated. This inventory shall serve as the ending inventory for the location being vacated as well as a record of beginning inventory for the new location.

10.35(7) *Discontinuing registered activity.* A registrant shall take an inventory of controlled substances at the close of business the last day the registrant is engaged in registered activities. If the registrant is selling or transferring the remaining controlled substances to another registrant, this inventory shall serve as the ending inventory for the registrant discontinuing business as well as a record of additional or starting inventory for the registrant to whom the substances are transferred.

10.35(8) *Newly controlled substances.* On the effective date of the addition of a previously noncontrolled substance to any schedule of controlled substances, any registrant who possesses the newly controlled substance shall take an inventory of all stocks of the substance on hand. That initial inventory record shall be maintained with the most recent controlled substances inventory record. Thereafter, the newly controlled substance shall be included in each inventory made by the registrant.

657—10.36(124) Samples and other complimentary packages—records. Complimentary packages and samples of controlled substances may be distributed to practitioners pursuant to federal and state law

only if the person distributing the items leaves with the practitioner a specific written list of the items delivered.

10.36(1) *Distribution record.* The record form for the distribution of complimentary packages of controlled substances shall contain the following information:

a. The name, address, and DEA registration number of the supplier;

b. The name, address, and DEA registration number of the practitioner;

c. The name, strength, and quantity of the specific controlled substances delivered; and

d. The date of delivery.

10.36(2) *Reports to the board.* Any person who distributes controlled substances pursuant to this rule shall report all such distributions to the board. Reports shall:

a. Include the information identified in subrule 10.36(1). Reports may consist of copies of those distribution records or may be computer-generated listings identifying those distributions.

b. Be submitted as soon as practicable after distribution to the practitioner but no less often than once each calendar quarter.

10.36(3) *Practitioner records.* A practitioner who regularly administers or dispenses controlled substances shall keep records of the receipt and disbursement of such drugs, including complimentary packages and samples. Records shall be filed in a readily retrievable manner in accordance with federal requirements and shall be made available for inspection and copying by agents of the board or other authorized individuals for at least two years from the date of the record.

657—10.37(124,126) Revision of controlled substances schedules.

10.37(1) *Application for exception.* Any person seeking to have any compound, mixture, or preparation containing any depressant or stimulant substance listed in any of the schedules in Iowa Code chapter 124 excepted from the application of all or any part of that chapter may apply to the board for such exception.

a. An application for an exception under this rule shall provide evidence that an exception has been granted under the federal Controlled Substances Act.

b. The board shall permit any interested person to file written comments on or objections to the proposal for exception and shall designate the time during which such filings may be made. After consideration of the application and any comments on or objections to the proposal for exception, the board shall issue its findings on the application.

10.37(2) *Designation of new controlled substance.* The board may designate any new substance as a controlled substance to be included in any of the schedules in Iowa Code chapter 124 no sooner than 30 days following publication in the Federal Register of a final order so designating the substance under federal law. Designation of a new controlled substance under this subrule shall be temporary as provided in Iowa Code section 124.201, subsection 4.

10.37(3) *Objection to designation of a new controlled substance.* The board may object to the designation of any new substance as a controlled substance within 30 days following publication in the Federal Register of a final order so designating the substance under federal law. The board shall file objection to the designation of a substance as controlled, shall afford all interested parties an opportunity to be heard, and shall issue the board's decision on the new designation as provided in Iowa Code section 124.201, subsection 4.

657—10.38(124) Temporary designation of controlled substances.

10.38(1) Amend Iowa Code section 124.206, subsection 3, by adding the following new paragraph:

ab. Tapentadol.

10.38(2) Amend Iowa Code section 124.212, subsection 5, as follows:

5. Depressants. Unless specifically exempted or excluded or unless listed in another schedule, any material, compound, mixture, or preparation that contains any quantity of the following substance having a depressant effect on the central nervous system, including its salts: ~~pregabalin~~

a. Lacosamide [(R)-2-acetoamido-N-benzyl-3-methoxy-propionamide].

b. Pregabalin [(S)-3-(aminomethyl)-5-methylhexanoic acid].

10.38(3) Amend Iowa Code section 124.210, subsection 3, by adding the following new paragraph:

az. Fospropofol.

[**ARC 7906B**, IAB 7/1/09, effective 6/22/09; **ARC 8411B**, IAB 12/30/09, effective 12/1/09]

657—10.39(124,126) Excluded substances. The Iowa board of pharmacy hereby excludes from all schedules the current list of "Excluded Nonnarcotic Products" identified in Title 21, CFR Part 1308, Section 22. Copies of the list of excluded products may be obtained by written request to the board office at 400 S.W. Eighth Street, Suite E, Des Moines, Iowa 50309-4688.

657—10.40(124,126) Anabolic steroid defined. Anabolic steroid, as defined in Iowa Code section 126.2, paragraph 2, includes any substance identified as such in Iowa Code section 124.208, paragraph 6, or in Iowa Code section 126.2, paragraph 2.

These rules are intended to implement Iowa Code sections 124.201, 124.301 to 124.308, 124.402, 124.403, 124.501, 126.2, 126.11, 147.88, 147.95, 147.99, 155A.13, 155A.17, 155A.26, 155A.37, and 205.3.

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PUBLIC SAFETY DEPARTMENT[661]

Rules transferred from agency number 680 to 661 to conform with the reorganization numbering scheme in general

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661—210.1(100) Definitions. The following definitions apply to rules 661—210.1(100) through 661—210.5(100):

"Approved" means that the equipment has been approved or listed for a specific use by an independent testing laboratory or organization of national reputation.

"Commercial grade smoke detection system" means a system of smoke detectors in which each detector is listed to Underwriters Laboratory Standard 268, Smoke Detectors for Fire Alarm Systems, or to another standard approved by the state fire marshal. Sensors in a commercial grade smoke detection system shall be located so as to provide coverage at least equivalent to that which would be provided by smoke detectors installed as required in subrule 210.3(11).

"Dual sensor smoke detector" means a smoke detector which contains both an ionization sensor and a photoelectric sensor and which is designed to detect and trigger an alarm in response to smoke detected through either sensing device, or a smoke detector which has at least two sensors and which is listed to Underwriters Laboratory Standard 217, Single and Multiple Station Smoke Alarms, or to another standard approved by the state fire marshal.

[**ARC 8550B**, IAB 2/24/10, effective 4/1/10]

661—210.2(100) Scope. The provisions of this chapter apply to single-family and two-family residences and to townhouses and to all other residential occupancies unless otherwise provided herein or by another provision of law. The provisions of this chapter do not apply to nonresidential occupancies.

[**ARC 8550B**, IAB 2/24/10, effective 4/1/10]

661—210.3(100) General requirements.

210.3(1) Approved single station smoke detectors shall be acceptable in all areas covered by this chapter, unless other fire warning equipment or materials are required by any provision of 661—Chapter 201, 202, or 205 or if a commercial grade smoke detection system has been installed. Any single station smoke detector installed on or after April 1, 2010, in compliance with this subrule, including a replacement of an existing detector, shall be a dual sensor smoke detector. If sufficient dual sensor smoke detectors have been installed to comply with the requirements of this chapter, additional smoke detectors which may be other than dual sensor detectors may be installed.

210.3(2) Any installation of wiring and equipment shall comply with NFPA 70, National Electrical Code, 2008 edition, and requirements established by the manufacturer of the equipment serviced by the wiring.

210.3(3) All devices, combinations of devices, and equipment to be installed in conformity with this chapter shall be approved and used for the purposes for which they are intended. Any smoke detector installed on or after April 1, 2010, in compliance with this chapter, including a replacement of an existing detector, shall be a dual sensor smoke detector. If sufficient dual sensor smoke detectors have been installed to comply with the requirements of this chapter, additional smoke detectors which may be other than dual sensor detectors may be installed.

210.3(4) A combination system, such as a household fire warning system whose components may be used in whole or in part, in common with a nonfire emergency signaling system, such as a burglar alarm system or an intercom system, shall not be permitted or approved, except for one- or two-family dwellings.

210.3(5) All power supplies shall be sufficient to operate the smoke detector alarm for at least four continuous minutes.

210.3(6) Power source.

a. In new buildings and additions constructed after July 1, 1991, required smoke detectors shall receive their primary power from the building wiring when such wiring is served from a commercial source. Wiring shall be permanent and without a disconnecting switch other than that required for overcurrent protection. Smoke detectors may be solely battery operated when installed in existing

buildings, or in buildings without commercial power, or in buildings which undergo alterations, repairs or additions subject to subrule 210.3(2).

b. New and replacement smoke detectors installed after May 1, 1993, which receive their primary power from the building wiring shall be equipped with a battery backup.

210.3(7) The failure of any nonreliable or short-life component which renders the detector inoperative shall be readily apparent to the occupant of the sleeping unit without the need for a test. Each smoke detector shall detect abnormal quantities of smoke that may occur and shall properly operate in the normal environmental condition.

210.3(8) Equipment shall be installed in accordance with the manufacturer's recommendations.

210.3(9) Installed fire warning equipment shall be mounted so as to be supported independently of its attachment to wires.

210.3(10) All apparatus shall be restored to normal immediately after each alarm or test.

210.3(11) Smoke detectors shall be located as follows:

a. On the ceiling or wall outside of each separate sleeping area in the immediate vicinity of bedrooms.

b. In each room used for sleeping purposes.

c. In each story within a dwelling unit, including basements but not including crawl spaces and uninhabitable attics. In dwellings or dwelling units with split levels and without an intervening door between the adjacent levels, a smoke alarm installed on the upper level shall suffice for the adjacent lower level provided that the lower level is less than one full story below the upper level.

[**ARC 7735B**, IAB 5/6/09, effective 4/7/09; **ARC 8151B**, IAB 9/23/09, effective 9/1/09; **ARC 8550B**, IAB 2/24/10, effective 4/1/10]

661—210.4(100) Smoke detectors—notice and certification of installation.

210.4(1) *Notice of installation.* An owner of a rental residential building containing two or more units, who is required by law to install smoke detectors, shall notify the local fire department upon installation of required smoke detectors.

210.4(2) *Certification—single-family dwelling units.* A person who files for a homestead tax credit pursuant to Iowa Code chapter 425 shall certify that the single-family dwelling unit for which the credit is filed has a smoke detector(s) installed in accordance with subrule 210.3(6) and paragraph 210.3(11)*"a,"* or that such smoke detector(s) will be installed within 30 days of the date of filing for credit.

210.4(3) *Reports to fire marshal.* Each county or city assessor charged with the responsibility of accepting homestead tax credit applications shall obtain certification of smoke detection on a form acceptable to the state fire marshal, signed by the person making application for credit, and shall file a quarterly report with the fire marshal listing the name and address and stating whether applicant attested to a detector(s) being present at the time of application or that a detector(s) would be installed as required within 30 days.

[**ARC 8550B**, IAB 2/24/10, effective 4/1/10]

661—210.5(100) Smoke detectors—new and existing construction.

210.5(1) *New construction.* All multiple-unit residential buildings and single-family dwellings which are constructed after July 1, 1991, shall include the installation of smoke detectors meeting the requirements of rule 661—210.3(100).

210.5(2) *Existing construction.* All existing single-family units and multiple-unit residential buildings shall be equipped with smoke detectors as required in paragraph 210.3(11)*"a."*

[**ARC 8550B**, IAB 2/24/10, effective 4/1/10]

These rules are intended to implement Iowa Code section 100.18.

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CHAPTER 10
INTEREST, PENALTY, EXCEPTIONS TO PENALTY, AND JEOPARDY ASSESSMENTS

[Prior to 12/17/86, Revenue Department[730]]

Rules 701—10.20(421) to 701—10.111(422A) are excerpted from 701—Chs 12, 30, 44, 46, 52, 58, 63, 81, 86, 88, 89, 104, IAB 1/23/91

701—10.1(421) Definitions. As used in the rules contained herein, the following definitions apply unless the context otherwise requires:

10.1(1) *"Department"* means the department of revenue.

10.1(2) *"Director"* means the director of the department or authorized representative.

10.1(3) *"Taxes"* means all taxes and charges arising under Title X of the Iowa Code, which include but are not limited to individual income, withholding, corporate income, franchise, sales, use, hotel/motel, railroad fuel, equipment car, replacement tax, statewide property tax, motor vehicle fuel, inheritance, estate and generation skipping transfer taxes and the environmental protection charge imposed upon petroleum diminution due and payable to the state of Iowa.

701—10.2(421) Interest. Except where a different rate of interest is provided by Title X of the Iowa Code, the rate of interest on interest-bearing taxes and interest-bearing refunds arising under Title X is fixed for each calendar year by the director. In addition to any penalty computed, there shall be added interest as provided by law from the original due date of the return. Any portion of the tax imposed by statute which has been erroneously refunded and is recoverable by the department shall bear interest as provided in Iowa Code section 421.7, subsection 2, from the date of payment of the refund, considering each fraction of a month as an entire month. Interest which is not judgment interest is not payable on sales and use tax, local option tax, and hotel and motel tax refunds. *Herman M. Brown v. Johnson,* 248 Iowa 1143, 82 N.W.2d 134 (1957); *United Telephone Co. v. Iowa Department of Revenue,* 365 N.W.2d 647 (Iowa 1985). However, interest which is not judgment interest accrues on such refunds on or after January 1, 1995, and is payable on sales and use tax, local option tax and hotel and motel tax refunds on or after January 1, 1995.

10.2(1) *Calendar year 1982.* The rate of interest upon all unpaid taxes which are due as of January 1, 1982, will be 17 percent per annum (1.4% per month). This interest rate will accrue on taxes which were due and unpaid as of, or after, January 1, 1982. In addition, this interest rate will accrue on tax refunds which by law accrue interest, regardless of whether the tax to be refunded is due before, on, or after January 1, 1982. This interest rate of 17 percent per annum, whether for unpaid taxes or tax refunds, will commence to accrue in 1982.

EXAMPLES:

1. The taxpayer, X corporation, owes corporate income taxes assessed to it for the year 1975. The assessment was made by the department in 1977. On January 1, 1982, that assessment had not been paid. The rate of interest on the unpaid tax assessed has accrued at the rate of 9 percent per annum (0.75% per month) through December 31, 1981. Commencing on January 1, 1982, the rate of interest on the unpaid tax will thereafter accrue at the rate of 17 percent per annum for 1982 (1.4% per month). If the tax liability is not paid in 1982, the rate of interest will then accrue in 1983 in accordance with the rate fixed by the director as set forth in Iowa Code section 421.7.

2. The taxpayer, Y, owes retail sales taxes assessed to it for the audit period January 1, 1979, through December 31, 1982. The assessment is made on March 1, 1983. For the tax periods in which the tax became due prior to January 1, 1982, the interest rate on such unpaid sales taxes accrued at 9 percent per annum (0.75% per month). Commencing on January 1, 1982, the entire unpaid portion of the tax assessed which was delinquent at that time will begin to accrue interest at the rate of 17 percent per annum. Those portions of the tax assessed first becoming delinquent in 1982 will bear interest at the rate of 17 percent per annum (1.4% per month). In the event that any portion of the tax assessed remains unpaid on January 1, 1983, the rate of interest will then accrue in 1983 in accordance with the rate fixed by the director as set forth in Iowa Code section 421.7.

3. The taxpayer, Z, files a refund claim for 1978 individual income taxes in March 1982. The refund claim is allowed in May 1982, and is paid. Z is entitled to receive interest at the rate of 9 percent per annum (0.75% per month) upon the refunded tax accruing through December 31, 1981, and is entitled

to interest at the rate of 17 percent per annum (1.4% per month) upon such tax from January 1, 1982, until the refund is paid.

4. A's 1981 individual income tax liability becomes delinquent on May 1, 1982. A owes interest, commencing on May 1, 1982, at the rate of 17 percent per annum (1.4% per month). In the event that A does not pay the liability in 1982, the rate of interest will then accrue in 1983 in accordance with the rate fixed by the director as set forth in Iowa Code section 421.7.

5. Decedent died December 15, 1976. The inheritance tax was due 12 months after death, or December 15, 1977. Prior to the due date, the estate was granted an extension of time, until September 1, 1978, to file the return and pay the tax due. The tax, however, was paid March 15, 1982. Interest accrues on the unpaid tax during the period of the extension of time (December 15, 1977, to September 1, 1978) at the rate of 6 percent per annum. Interest accrues on the delinquent tax from September 1, 1978, through December 31, 1981, at the rate of 8 percent per annum. Interest accrues on the delinquent tax from January 1, 1982, to the date of payment on March 15, 1982, at the rate of 17 percent per annum.

6. B files a refund for sales taxes paid for the periods January 1, 1979, through December 31, 1982, in March 1983. The refund is allowed in May 1983. Since no interest is payable on sales tax refunds, B is not entitled to any interest. *Herman M. Brown Co. v. Johnson,* 248 Iowa 1143 (1957). However, interest accrues and is payable on and after January 1, 1995.

The examples set forth in these rules are not meant to be all-inclusive. In addition, other rules set forth the precise circumstance when interest begins to accrue and whether interest accrues for each month or fraction of a month or annually as provided by law. Interest accrues as provided by law, regardless of whether the department has made a formal assessment of tax.

10.2(2) *Calendar year 1983.* The rate of interest upon all unpaid taxes which are due as of January 1, 1983, will be 14 percent per annum (1.2% per month). This interest rate will accrue on taxes which were due and unpaid as of, or after January 1, 1983. In addition, this interest rate will accrue on tax refunds which by law accrue interest, regardless of whether the tax to be refunded is due before, on, or after January 1, 1983. This interest rate of 14 percent per annum, whether for unpaid taxes or tax refunds, will commence to accrue in 1983.

10.2(3) *Calendar year 1984.* The rate of interest upon all unpaid taxes which are due as of January 1, 1984, will be 9 percent per annum (0.8% per month). This interest rate will accrue on taxes which are due and unpaid as of, or after, January 1, 1984. In addition, this interest rate will accrue on tax refunds which by law accrue interest, regardless of whether the tax to be refunded is due before, on, or after January 1, 1984. This interest rate of 9 percent per annum, whether for unpaid taxes or tax refunds, will commence to accrue in 1984.

10.2(4) *Calendar year 1985.* The rate of interest upon all unpaid taxes which are due as of January 1, 1985, will be 10 percent per annum (0.8% per month). This interest rate will accrue on taxes which are due and unpaid as of, or after, January 1, 1985. In addition, this interest rate will accrue on tax refunds which by law accrue interest, regardless of whether the tax to be refunded is due before, on, or after January 1, 1985. This interest rate of 10 percent per annum, whether for unpaid taxes or tax refunds, will commence to accrue in 1985.

10.2(5) *Calendar year 1986.* The interest upon all unpaid taxes which are due as of January 1, 1986, will be 9 percent per annum (0.8% per month). This interest rate will accrue on taxes which are due and unpaid as of, or after, January 1, 1986. In addition, this interest rate will accrue on tax refunds which by law accrue interest, regardless of whether the tax to be refunded is due before, on, or after January 1, 1986. This interest rate of 9 percent per annum, whether for unpaid taxes or tax refunds, will commence to accrue in 1986.

10.2(6) *Calendar year 1987.* The interest upon all unpaid taxes which are due as of January 1, 1987, will be 9 percent per annum (0.8% per month). This interest rate will accrue on taxes which are due and unpaid as of, or after January 1, 1987. In addition, this interest rate will accrue on tax refunds which by law accrue interest, regardless of whether the tax to be refunded is due before, on, or after January 1, 1987. This interest rate of 9 percent per annum, whether for unpaid taxes or tax refunds, will commence to accrue in 1987.

10.2(7) *Calendar year 1988.* The interest upon all unpaid taxes which are due as of January 1, 1988, will be 8 percent per annum (0.7% per month). This interest rate will accrue on taxes which are due and unpaid as of, or after January 1, 1988. In addition, this interest rate will accrue on tax refunds which by law accrue interest, regardless of whether the tax to be refunded is due before, on, or after January 1, 1988. This interest rate of 8 percent per annum, whether for unpaid taxes or tax refunds, will commence to accrue in 1988.

10.2(8) *Calendar year 1989.* The interest upon all unpaid taxes which are due as of January 1, 1989, will be 9 percent per annum (0.8% per month). This interest rate will accrue on taxes which are due and unpaid as of, or after January 1, 1989. In addition, this interest rate will accrue on tax refunds which by law accrue interest, regardless of whether the tax to be refunded is due before, on, or after January 1, 1989. This interest rate of 9 percent per annum, whether for unpaid taxes or tax refunds, will commence to accrue in 1989.

10.2(9) *Calendar year 1990.* The interest upon all unpaid taxes which are due as of January 1, 1990, will be 11 percent per annum (0.9% per month). This interest rate will accrue on taxes which are due and unpaid as of, or after January 1, 1990. In addition, this interest rate will accrue on tax refunds which by law accrue interest, regardless of whether the tax to be refunded is due before, on, or after January 1, 1990. This interest rate of 11 percent per annum, whether for unpaid taxes or tax refunds, will commence to accrue in 1990.

10.2(10) *Calendar year 1991.* The interest upon all unpaid taxes which are due as of January 1, 1991, will be 12 percent per annum (1.0% per month). This interest rate will accrue on taxes which are due and unpaid as of, or after, January 1, 1991. In addition, this interest rate will accrue on tax refunds which by law accrue interest, regardless of whether the tax to be refunded is due before, on, or after January 1, 1991. This interest rate of 12 percent per annum, whether for unpaid taxes or tax refunds, will commence to accrue in 1991.

10.2(11) *Calendar year 1992.* The interest upon all unpaid taxes which are due as of January 1, 1992, will be 11 percent per annum (0.9% per month). This interest rate will accrue on taxes which are due and unpaid as of, or after, January 1, 1992. In addition, this interest rate will accrue on tax refunds which by law accrue interest, regardless of whether the tax to be refunded is due before, on, or after January 1, 1992. This interest rate of 11 percent per annum, whether for unpaid taxes or tax refunds, will commence to accrue in 1992.

10.2(12) *Calendar year 1993.* The interest upon all unpaid taxes which are due as of January 1, 1993, will be 9 percent per annum (0.8% per month). This interest rate will accrue on taxes which are due and unpaid as of, or after, January 1, 1993. In addition, this interest rate will accrue on tax refunds which by law accrue interest, regardless of whether the tax to be refunded is due before, on, or after January 1, 1993. This interest rate of 9 percent per annum, whether for unpaid taxes or tax refunds, will commence to accrue in 1993.

10.2(13) *Calendar year 1994.* The interest upon all unpaid taxes which are due as of January 1, 1994, will be 8 percent per annum (0.7% per month). This interest rate will accrue on taxes which are due and unpaid as of, or after, January 1, 1994. In addition, this interest rate will accrue on tax refunds which by law accrue interest, regardless of whether the tax to be refunded is due before, on, or after January 1, 1994. This interest rate of 8 percent per annum, whether for unpaid taxes or tax refunds, will commence to accrue in 1994.

10.2(14) *Calendar year 1995.* The interest upon all unpaid taxes which are due as of January 1, 1995, will be 9 percent per annum (0.8% per month). This interest rate will accrue on taxes which are due and unpaid as of, or after, January 1, 1995. In addition, this interest rate will accrue on tax refunds which by law accrue interest, regardless of whether the tax to be refunded is due before, on, or after January 1, 1995. This interest rate of 9 percent per annum, whether for unpaid taxes or tax refunds, will commence to accrue in 1995.

10.2(15) *Calendar year 1996.* The interest upon all unpaid taxes which are due as of January 1, 1996, will be 11 percent per annum (0.9% per month). This interest rate will accrue on taxes which are due and unpaid as of, or after, January 1, 1996. In addition, this interest rate will accrue on tax refunds which by law accrue interest, regardless of whether the tax to be refunded is due before, on, or after

January 1, 1996. This interest rate of 11 percent per annum, whether for unpaid taxes or tax refunds, will commence to accrue in 1996.

10.2(16) *Calendar year 1997.* The interest rate upon all unpaid taxes which are due as of January 1, 1997, will be 10 percent per annum (0.8% per month). This interest rate will accrue on taxes which are due and unpaid as of, or after, January 1, 1997. In addition, this interest rate will accrue on tax refunds which by law accrue interest, regardless of whether the tax to be refunded is due before or after January 1, 1997. This interest rate of 10 percent per annum, whether for unpaid taxes or tax refunds, will commence to accrue in 1997.

10.2(17) *Calendar year 1998.* The interest rate upon all unpaid taxes which are due as of January 1, 1998, will be 10 percent per annum (0.8% per month). This interest rate will accrue on taxes which are due and unpaid as of, or after, January 1, 1998. In addition, this interest rate will accrue on tax refunds which by law accrue interest, regardless of whether the tax to be refunded is due before or after January 1, 1998. This interest rate of 10 percent per annum, whether for unpaid taxes or tax refunds, will commence to accrue in 1998.

10.2(18) *Calendar year 1999.* The interest rate upon all unpaid taxes which are due as of January 1, 1999, will be 10 percent per annum (0.8% per month). This interest rate will accrue on taxes which are due and unpaid as of, or after, January 1, 1999. In addition, this interest rate will accrue on tax refunds which by law accrue interest, regardless of whether the tax to be refunded is due before or after January 1, 1999. This interest rate of 10 percent per annum, whether for unpaid taxes or tax refunds, will commence to accrue in 1999.

10.2(19) *Calendar year 2000.* The interest rate upon all unpaid taxes which are due as of January 1, 2000, will be 10 percent per annum (0.8% per month). This interest rate will accrue on taxes which are due and unpaid as of, or after, January 1, 2000. In addition, this interest rate will accrue on tax refunds which by law accrue interest, regardless of whether the tax to be refunded is due before or after January 1, 2000. This interest rate of 10 percent per annum, whether for unpaid taxes or tax refunds, will commence to accrue in 2000.

10.2(20) *Calendar year 2001.* The interest rate upon all unpaid taxes which are due as of January 1, 2001, will be 11 percent per annum (0.9% per month). This interest rate will accrue on taxes which are due and unpaid as of, or after, January 1, 2001. In addition, this interest rate will accrue on tax refunds which by law accrue interest, regardless of whether the tax to be refunded is due before or after January 1, 2001. This interest rate of 11 percent per annum, whether for unpaid taxes or tax refunds, will commence to accrue in 2001.

10.2(21) *Calendar year 2002.* The interest rate upon all unpaid taxes which are due as of January 1, 2002, will be 10 percent per annum (0.8% per month). This interest rate will accrue on taxes which are due and unpaid as of, or after, January 1, 2002. In addition, this interest rate will accrue on tax refunds which by law accrue interest, regardless of whether the tax to be refunded is due before or after January 1, 2002. This interest rate of 10 percent per annum, whether for unpaid taxes or tax refunds, will commence to accrue in 2002.

10.2(22) *Calendar year 2003.* The interest rate upon all unpaid taxes which are due as of January 1, 2003, will be 7 percent per annum (0.6% per month). This interest rate will accrue on taxes which are due and unpaid as of, or after, January 1, 2003. In addition, this interest will accrue on tax refunds which by law accrue interest, regardless of whether the tax to be refunded is due before or after January 1, 2003. This interest rate of 7 percent per annum, whether for unpaid taxes or tax refunds, will commence to accrue in 2003.

10.2(23) *Calendar year 2004.* The interest rate upon all unpaid taxes which are due as of January 1, 2004, will be 6 percent per annum (0.5% per month). This interest rate will accrue on taxes which are due and unpaid as of, or after, January 1, 2004. In addition, this interest will accrue on tax refunds which by law accrue interest, regardless of whether the tax to be refunded is due before or after January 1, 2004. This interest rate of 6 percent per annum, whether for unpaid taxes or tax refunds, will commence to accrue in 2004.

10.2(24) *Calendar year 2005.* The interest rate upon all unpaid taxes which are due as of January 1, 2005, will be 6 percent per annum (0.5% per month). This interest rate will accrue on taxes which are

due and unpaid as of, or after, January 1, 2005. In addition, this interest will accrue on tax refunds which by law accrue interest, regardless of whether the tax to be refunded is due before or after January 1, 2005. This interest rate of 6 percent per annum, whether for unpaid taxes or tax refunds, will commence to accrue in 2005.

10.2(25) *Calendar year 2006.* The interest rate upon all unpaid taxes which are due as of January 1, 2006, will be 8 percent per annum (0.7% per month). This interest rate will accrue on taxes which are due and unpaid as of, or after, January 1, 2006. In addition, this interest will accrue on tax refunds which by law accrue interest, regardless of whether the tax to be refunded is due before or after January 1, 2006. This interest rate of 8 percent per annum, whether for unpaid taxes or tax refunds, will commence to accrue in 2006.

10.2(26) *Calendar year 2007.* The interest rate upon all unpaid taxes which are due as of January 1, 2007, will be 10 percent per annum (0.8% per month). This interest rate will accrue on taxes which are due and unpaid as of, or after, January 1, 2007. In addition, this interest will accrue on tax refunds which by law accrue interest, regardless of whether the tax to be refunded is due before or after January 1, 2007. This interest rate of 10 percent per annum, whether for unpaid taxes or tax refunds, will commence to accrue in 2007.

10.2(27) *Calendar year 2008.* The interest rate upon all unpaid taxes which are due as of January 1, 2008, will be 10 percent per annum (0.8% per month). This interest rate will accrue on taxes which are due and unpaid as of, or after, January 1, 2008. In addition, this interest will accrue on tax refunds which by law accrue interest, regardless of whether the tax to be refunded is due before or after January 1, 2008. This interest rate of 10 percent per annum, whether for unpaid taxes or tax refunds, will commence to accrue in 2008.

10.2(28) *Calendar year 2009.* The interest rate upon all unpaid taxes which are due as of January 1, 2009, will be 8 percent per annum (0.7% per month). This interest rate will accrue on taxes which are due and unpaid as of, or after, January 1, 2009. In addition, this interest will accrue on tax refunds which by law accrue interest, regardless of whether the tax to be refunded is due before or after January 1, 2009. This interest rate of 8 percent per annum, whether for unpaid taxes or tax refunds, will commence to accrue in 2009.

10.2(29) *Calendar year 2010.* The interest rate upon all unpaid taxes which are due as of January 1, 2010, will be 5 percent per annum (0.4% per month). This interest rate will accrue on taxes which are due and unpaid as of, or after, January 1, 2010. In addition, this interest will accrue on tax refunds which by law accrue interest, regardless of whether the tax to be refunded is due before or after January 1, 2010. This interest rate of 5 percent per annum, whether for unpaid taxes or tax refunds, will commence to accrue in 2010.

This rule is intended to implement Iowa Code section 421.7.

[**ARC 8551B**, IAB 2/24/10, effective 3/31/10]

701—10.3(422,423,450,452A) Interest on refunds and unpaid tax.

10.3(1) *Interest on refunds.* For those taxes on which interest accrues on refunds under Iowa Code sections 422.25(3), 422.28, 450.94, and 452A.65, interest shall accrue through the month in which the refund is mailed to the taxpayer and no further interest will accrue unless the department did not use the most current address as shown on the latest return or refund claim filed with the department.

10.3(2) *Interest on unpaid tax.* Interest due on unpaid tax is not a penalty, but rather it is compensation to the government for the period the government was deprived of the use of money. Therefore, interest due cannot be waived. *Vick v. Phinney*, 414 F.2d 444, 448 (5th CA 1969); *Time, Inc. v. United States*, 226 F.Supp. 680, 686 (S.D. N.Y. 1964); *In Re Jeffco Power Systems*, Dep't of Revenue Hearing Officer decision, Docket No. 77-9-6A-A (1978); *Waterloo Courier, Inc. v. Iowa Department of Revenue and Finance*, Case No. LACV081252, Black Hawk County District Court, December 30, 1999.

This rule is intended to implement Iowa Code sections 422.25(3), 422.28, 423.47, 450.94 and 452A.65.

[**ARC 7761B**, IAB 5/6/09, effective 6/10/09]

701—10.4(421) Frivolous return penalty. A $500 civil penalty is imposed on the return of a taxpayer that is considered to be a "frivolous return." A "frivolous return" is: (1) A return which lacks sufficient information from which the substantial correctness of the amount of tax liability can be determined or contains information that on its face indicates that the amount of tax shown is substantially incorrect, or (2) a return which reflects a position of law which is frivolous or is intended to delay or impede the administration of the tax laws of this state.

If the frivolous return penalty is applicable, the penalty will be imposed in addition to any other penalty which has been assessed. If the frivolous return penalty is relevant, the penalty may be imposed even under circumstances when it is determined that there is no tax liability on the return.

The frivolous return penalty is virtually identical to the penalty for frivolous income tax returns which is authorized in Section 6702 of the Internal Revenue Code. The department will follow federal guidelines and court cases when determining whether or not the frivolous return penalty should be imposed.

The frivolous return penalty may be imposed on all returns filed with the department and not just individual income tax returns. The penalty may be imposed on an amended return as well as an original return. The penalty may be imposed on each return filed with the department.

10.4(1) *Nonexclusive examples of circumstances under which the frivolous return penalty may be imposed.* The following are examples of returns filed in circumstances under which the frivolous return penalty may be imposed:

a. A return claiming a deduction against income or a credit against tax liability which is clearly not allowed such as a "war," "religious," "conscientious objector" deduction or tax credit.

b. A blank or partially completed return that was prepared on the theory that filing a complete return and providing required financial data would violate the Fifth Amendment privilege against self-incrimination or other rights guaranteed by the Constitution.

c. An unsigned return where the taxpayer refused to sign because the signature requirement was "incomprehensible or unconstitutional" or the taxpayer was not liable for state tax since the taxpayer had not signed the return.

d. A return which contained personal and financial information on the proper lines but where the words "true, correct and complete" were crossed out above the taxpayer's signature and where the taxpayer claimed the taxpayer's income was not legal tender and was exempt from tax.

e. A return where the taxpayer claimed that income was not "constructively received" and the taxpayer was the nominee-agent for a trust.

f. A return with clearly inconsistent information such as when 99 exemptions were claimed but only several dependents were shown.

g. A document filed for refund of taxes erroneously collected with the contention that the document was not a return and that no wage income was earned. This was inconsistent with attached W-2 Forms reporting wages.

10.4(2) *Nonexclusive examples where the frivolous return penalty is not applicable.* The following examples illustrate situations where the frivolous return penalty would not be applicable:

a. A return which includes a deduction, credit, or other item which may constitute a valid item of dispute between the taxpayer and the department.

b. A return which includes innocent or inadvertent mathematical or clerical errors, such as an error in addition, subtraction, multiplication, or division or the incorrect use of a table provided by the department.

c. A return which includes a statement of protest or objection, provided the return contains all required information.

d. A return which shows the correct amount of tax due, but the tax due is not paid.

This rule is intended to implement Iowa Code section 421.8.

701—10.5(421) Exceptions from penalty provisions for taxes due and payable on or after January 1, 1987, and for tax periods ending on or before December 31, 1990. Rescinded IAB 11/10/04, effective 12/15/04.

PENALTY FOR TAX PERIOD BEGINNING AFTER JANUARY 1, 1991

701—10.6(421) Penalties. A penalty shall be assessed upon all tax and deposits due under the following circumstances:

1. For failure to timely file a return or deposit form there is a 10 percent penalty. This penalty, once imposed, will be assessed on all subsequent amounts due or required to be shown due on the return or deposit form.

EXAMPLE: The taxpayer fails to timely file a return and fails to timely pay the tax due. The department will assess a 10 percent penalty for failure to timely file the return but will not assess a 5 percent penalty for failure to timely pay. The department subsequently audits the untimely filed return and determines additional tax is due. The department shall assess a 10 percent penalty on the additional tax found due by an audit.

2. For failure to timely pay the tax due on a return or deposit form, there is a 5 percent penalty.

3. For a deficiency of tax due on a return or deposit form found during an audit, there is a 5 percent penalty. For purposes of this penalty, the audit deficiency shall be assessed only when there is a timely filed return or deposit form.

Audit deficiency occurs when the department determines additional tax is due.

4. For willful failure to file a return or deposit form with the intent to evade tax, or in the case of willfully filing a false return or deposit form with the intent to evade tax, there is a 75 percent penalty.

The penalty rates are uniform for all taxes and deposits due under this chapter.

The penalty for failure to timely file will take precedence over the penalty for failure to timely pay or an audit deficiency when more than one penalty is applicable.

5. Examples to illustrate the computation of penalty for tax periods beginning on or after January 1, 1991.

The following are examples to illustrate the computation of penalties imposed under rule 10.7(421). For purposes of these examples, interest has been computed at the rate of 12 percent per year or 1 percent per month. The tax due amounts are assumed to be the total amounts required to be shown due when considering whether the failure to pay penalty should be assessed on the basis that less than 90 percent of the tax was paid.

Example (a) — Failure to File

a. Tax due is $100.

b. Return filed 3 months and 10 days after the due date.

c. $100 paid with the return.

The calculation for additional tax due is shown below:

Tax	$100	
Penalty	10	(10% failure to timely file)
Interest	4	(4 months interest)
Total	$114	
Less payment	100	
Additional tax due	$ 14	

Example (b) — Failure to Pay

a. Tax due is $100.

b. Return is timely filed.

c. $0 paid.

The calculation for the total amount due 5 months after the due date is shown below:

Tax	$100	
Penalty	5	
Interest	5	(5 months interest)
Total	$110	

Example (c) — Failure to File and Failure to Pay

a. Tax due is $100.

b. Return is filed 2 months and 10 days after the due date.

c. $0 paid.

The calculation for the total amount due 3 months after the due date is shown below:

Tax	$100	
Penalty	10	(10% for failure to file)
Interest	3	(3 months interest)
Total due in 3rd month	$113	

Example (d) — Audit on Timely Filed Return

a. $100 in additional tax found due.

b. Timely filed return.

c. Audit completed 8 months after the due date of the return.

d. Return showed $100 as the computed tax, which was paid with the return.

The calculation for the total amount due is shown below:

Computed tax after audit	$200	
Less tax paid with return	100	
Additional tax due	$100	
Penalty	5	(5% for audit deficiency)
Interest	8	(8 months interest)
Total due	$113	

Example (e) — Audit on Late Return Granted an Exception From Failure to File

a. Tax due is $100.

b. Return filed 3 months and 10 days after the due date.

c. $100 paid with the return.

d. Taxpayer is granted an exception from penalty for failure to file. (Return is then considered timely filed.)

e. Audit completed 8 months after the due date of the return. $100 additional tax found due.

f. Return showed $100 as the computed tax which was paid with the return.

The computation for the total amount due is shown below:

Computed tax after audit	$200	
Less tax paid with return	100	
Additional tax due	$100	
Penalty	5	(5% for audit deficiency. No penalty for failure to file.)
Interest	8	(8 months interest)
Total due	$113	

Example (f) — Audit on Late Filed Return No Pay Return

a. $100 claimed as tax on the return.

b. $100 in additional tax found due.

c. Return filed 3 months and 10 days after the due date.

d. Audit completed 8 months after the due date.

The computation for the total amount due is shown below:

Computed tax after audit	$200	
Penalty	20	(10% for failure to file)
Interest	16	(8 months interest)
Total due	$236	

701—10.7(421) Waiver of penalty—definitions. A penalty, if assessed, shall be waived by the department upon a showing of the circumstances stated below.

10.7(1) For purposes of these rules, the following definitions apply:

"Act of God" means an unusual and extraordinary manifestation of nature which could not reasonably be anticipated or foreseen and cannot be prevented by human care, skill, or foresight. There is a rebuttable presumption that an "act of God" that precedes the due date of the return or form by 30 days is not an act of God for purposes of an exception to penalty.

"Immediate family" includes the spouse, children, or parents of the taxpayer. There is a rebuttable presumption that relatives of the taxpayer beyond the relation of spouse, children, or parents of the taxpayer are not within the taxpayer's immediate family for purposes of the waiver exceptions.

"Sanctioned self-audit program" means an audit performed by the taxpayer with forms provided by the department as a result of contact by the department to the taxpayer prior to voluntary filing or payment of the tax. Filing voluntarily without contact by the department does not constitute a sanctioned self-audit.

"Serious, long-term illness or hospitalization" means an illness or hospitalization, documented by written evidence, which precedes the due date of the return or form by no later than 30 days and continues through the due date of the return or form and interferes with the timely filing of the return or form. There is a rebuttable presumption that an illness or hospitalization that precedes the due date of the return or form by more than 30 days is not an illness or hospitalization for purposes of an exception to penalty. The taxpayer will be provided an automatic extension of 30 days from the date the return or form is originally due or the termination of the serious, long-term illness or hospitalization whichever is later without incurring penalty. The taxpayer has the burden of proof on whether or not a serious, long-term illness or hospitalization has occurred.

"Substantial authority" means the weight of authorities for the tax treatment of an item is substantial in relation to the weight of authorities supporting contrary positions.

In determining whether there is substantial authority, only the following will be considered authority: applicable provisions of Iowa statutes; the Internal Revenue Code; Iowa administrative rules construing those statutes; court cases; administrative rulings; legal periodicals; department newsletters and tax return and deposit form instruction booklets; tax treaties and regulations; and legislative intent as reflected in committee reports.

Conclusions reached in treaties, legal opinions rendered by other tax professionals, descriptions of statutes prepared by legislative staff, legal counsel memoranda, and proposed rules and regulations are not authority.

There is substantial authority for the tax treatment of an item if there is substantial authority at the time the return containing the item is due to be filed or there was substantial authority on the last day of the taxable year to which the return relates.

The taxpayer must notify the department at the time the return, deposit form, or payment is originally due of the substantial authority the taxpayer is relying upon for not filing the return or deposit form or paying the tax due.

10.7(2) Reserved.

701—10.8(421) Penalty exceptions. Under certain circumstances the penalty for failure to timely file a return or deposit, failure to timely pay the tax shown due, or the tax required to be shown due with the filing of a return or a deposit form, or failure to pay following an audit by the department is waived.

When an exception is granted under subrule 10.9(1), the return or deposit form is considered timely filed for purposes of nonimposition of penalty only.

10.8(1) For failure to timely file a return or deposit form, the 10 percent penalty is waived upon a showing of the following exceptions:

a. At least 90 percent of the tax required to be shown due has been paid by the due date of the tax return or deposit form.

b. One late return allowed. A taxpayer required to file a return or deposit form quarterly, monthly, or semimonthly is allowed one untimely filed return or deposit form within a three-year period. The use by the taxpayer of any other penalty exception under this subrule will not count as a late return or deposit form for purposes of this subrule.

The exception for one late return in a three-year period is determined on the basis of the tax period for which the return or form is due and not the date on which the return is filed.

c. Death of a taxpayer, member of the immediate family of the taxpayer, or death of the person directly responsible for filing the return and paying the tax, when the death interferes with timely filing. There is a rebuttable presumption that a death which occurs more than 30 days before the original date the return or form is due does not interfere with timely filing.

d. The onset of serious, long-term illness or hospitalization of the taxpayer, a member of the taxpayer's immediate family, or the person directly responsible for filing the return and paying the tax.

e. Destruction of records by fire, flood, or act of God.

f. The taxpayer presents proof that the taxpayer at the due date of the return, deposit form, or payment relied upon applicable, documented, written advice made specifically to the taxpayer, the taxpayer's preparer, or to an association representative of the taxpayer from the department, state department of transportation, county treasurer, or federal Internal Revenue Service. The advice should be relevant to the agency offering the advice and not beyond the scope of the agency's area of expertise and knowledge. The advice must be current and not superseded by a court decision, ruling of a quasi-judicial body such as an administrative law judge, the director, or the state board of tax review, or by the adoption, amendment, or repeal of a rule or law.

g. Reliance upon the results of a previous audit was a direct cause for failure to file or pay where the previous audit expressly and clearly addressed the issue and the previous audit results have not been superseded by a court decision or by adoption, amendment, or repeal of a rule or law.

h. The taxpayer presents documented proof of substantial authority to rely upon a particular position or upon proof that all facts and circumstances are disclosed on a return or deposit form. Mathematical, computation, or transposition errors are not considered as facts and circumstances disclosed on a return or deposit form. These types of errors will not be considered as penalty exceptions.

i. The return, deposit form, or payment is timely, but erroneously, mailed with adequate postage to the Internal Revenue Service, another state agency, or a local government agency and the taxpayer provides proof of timely mailing with adequate postage. The taxpayer must provide competent evidence of the mailing as stated in Iowa Code section 622.105.

j. The tax has been paid by the wrong licensee and the payments were timely remitted to the department for one or more tax periods prior to notification by the department.

k. The failure to file was discovered through a sanctioned self-audit program conducted by the department.

l. Effective for estates with disclaimers filed on or after July 1, 2007, penalty will not be imposed for a late-filed Iowa inheritance tax return if the sole reason for the late-filed inheritance tax return is due to a beneficiary's decision to disclaim property or disclaim an interest in property from the estate. However, for the penalty to be waived, the Iowa inheritance tax return must be filed and all tax must be paid to the department within the later of nine months from the date of death or 60 days from the delivery or filing date of the disclaimer pursuant to Iowa Code section 633E.12.

10.8(2) For failure to timely pay the tax due on a return or deposit form, the 5 percent penalty is waived upon a showing of the following exceptions:

a. At least 90 percent of the tax required to be shown due has been paid by the due date of the tax return or deposit form.

b. The taxpayer voluntarily files an amended return and pays all tax shown to be due on the return prior to any contact by the department, except under a sanctioned self-audit program conducted by the department.

c. The taxpayer provides written notification to the department of a federal audit while it is in progress and voluntarily files an amended return which includes a copy of the federal document showing the final disposition or final federal adjustments within 60 days of the final disposition of the federal government's audit.

d. The taxpayer presents proof that the taxpayer relied upon applicable, documented, written advice specifically made to the taxpayer, to the taxpayer's preparer, or to an association representative of the taxpayer from the department, state department of transportation, county treasurer, or federal Internal Revenue Service, whichever is appropriate, that has not been superseded by a court decision, ruling by a quasi-judicial body, or the adoption, amendment, or repeal of a rule or law.

e. Reliance upon results in a previous audit was a direct cause for the failure to pay the tax required to be shown due where the previous audit expressly and clearly addressed the issue and the previous audit results have not been superseded by a court decision, or the adoption, amendment, or repeal of a rule or law.

f. The taxpayer presents documented proof of substantial authority to rely upon a particular position or upon proof that all facts and circumstances are disclosed on a return or deposit form. Mathematical, computation, or transposition errors are not considered as facts and circumstances disclosed on a return or deposit form. These types of errors will not be considered as penalty exceptions.

g. The return, deposit form, or payment is timely, but erroneously, mailed with adequate postage to the Internal Revenue Service, another state agency, or a local government agency and the taxpayer provides proof of timely mailing with adequate postage. The taxpayer must provide competent evidence of the mailing as stated in Iowa Code section 622.105.

h. The tax has been paid by the wrong licensee and the payments were timely remitted to the department for one or more tax periods prior to notification by the department.

i. Effective for estates with disclaimers filed on or after July 1, 2007, penalty will not be imposed for failure to pay Iowa inheritance tax if the sole reason for the failure to pay Iowa inheritance tax is due to a beneficiary's decision to disclaim property or disclaim an interest in property from the estate. However, for the penalty to be waived, the Iowa inheritance tax return must be filed and all tax must be paid to the department within the later of nine months from the date of death or 60 days from the filing date of the disclaimer pursuant to Iowa Code section 633E.12.

10.8(3) For a deficiency of tax due on a return or deposit form found during an audit, the 5 percent penalty is waived under the following exceptions:

a. At least 90 percent of the tax required to be shown due has been paid by the due date.

b. The taxpayer presents proof that the taxpayer relied upon applicable, documented, written advice specifically made to the taxpayer, to the taxpayer's preparer, or to an association representative of the taxpayer from the department, state department of transportation, county treasurer, or federal Internal Revenue Service, whichever is appropriate, that has not been superseded by a court decision, ruling by a quasi-judicial body, or the adoption, amendment, or repeal of a rule or law.

c. Reliance upon results in a previous audit was a direct cause for the failure to pay the tax shown due or required to be shown due where the previous audit expressly and clearly addressed the issue and the previous audit results have not been superseded by a court decision, or the adoption, amendment, or repeal of a rule or law.

d. The taxpayer presents documented proof of substantial authority to rely upon a particular position or upon proof that all facts and circumstances are disclosed on a return or deposit form. Mathematical, computation, or transposition errors are not considered as facts and circumstances disclosed on a return or deposit form. These types of errors will not be considered as penalty exceptions.

[**ARC 7761B**, IAB 5/6/09, effective 6/10/09]

701—10.9(421) Notice of penalty exception for one late return in a three-year period. The penalty exception for one late return in a three-year period will automatically be applied to a return or deposit form by the department if the taxpayer is eligible for the exception.

The exception for one late return in a three-year period is applied to the returns or deposit forms in the order they are processed and not in the order which the returns or deposit forms should have been filed.

701—10.10 to **10.19** Reserved.

RETAIL SALES
[Prior to 1/23/91, see 701—12.10(422,423) and 12.11(422, 423)]

701—10.20(422,423) Penalty and interest computation. Rescinded IAB 5/6/09, effective 6/10/09.

701—10.21(422,423) Request for waiver of penalty. Rescinded IAB 5/6/09, effective 6/10/09.

701—10.22 to **10.29** Reserved.

USE
[Prior to 1/23/91, see 701—30.10(423)]

701—10.30(423) Penalties for late filing of a monthly tax deposit or use tax returns. Rescinded IAB 5/6/09, effective 6/10/09.

701—10.31 to **10.39** Reserved.

INDIVIDUAL INCOME
[Prior to 1/23/91, see 44.1(422), 44.3(422), 44.7(422) and 44.8(422)]

701—10.40(422) General rule. Rescinded IAB 11/24/04, effective 12/29/04.

701—10.41(422) Computation for tax payments due on or after January 1, 1981, but before January 1, 1982. Rescinded IAB 11/24/04, effective 12/29/04.

701—10.42(422) Interest commencing on or after January 1, 1982. Rescinded IAB 11/24/04, effective 12/29/04.

701—10.43(422) Request for waiver of penalty. Rescinded IAB 11/24/04, effective 12/29/04.

701—10.44 to **10.49** Reserved.

WITHHOLDING
[Prior to 1/23/91, see 701—46.5(422)]

701—10.50(422) Penalty and interest. Rescinded IAB 11/24/04, effective 12/29/04.

701—10.51 to **10.55** Reserved.

CORPORATE
[Prior to 1/23/91, see subrule 701—52.5(3) and rule 701—52.10(422)]

701—10.56(422) and **10.57(422) Penalty and interest.** Rescinded IAB 11/24/04, effective 12/29/04.

701—10.58(422) Waiver of penalty and interest. Rescinded IAB 11/24/04, effective 12/29/04.

701—10.59 to **10.65** Reserved.

FINANCIAL INSTITUTIONS
[Prior to 1/23/91, see 701—58.6(422)]

701—10.66(422) Penalty and interest. Rescinded IAB 11/24/04, effective 12/29/04.

701—10.67 to **10.70** Reserved.

MOTOR FUEL
[Prior to 1/23/91, see 701—63.8(324) and 63.10(324)]

701—10.71(452A) Penalty and enforcement provisions.

10.71(1) *Illegal use of dyed fuel.* The illegal use of dyed fuel in the supply tank of a motor vehicle shall result in a civil penalty assessed against the owner or operator of the motor vehicle as follows:

a. A $500 penalty for the first violation.

b. A $1,000 penalty for a second violation within three years of the first violation.

c. A $2,000 penalty for third and subsequent violations within three years of the first violation.

10.71(2) *Illegal importation of untaxed fuel.* A person who illegally imports motor fuel or undyed special fuel without a valid importer's license or supplier's license shall be assessed a civil penalty as stated below. However, the owner or operator of the importing vehicle shall not be guilty of violating the illegal import provision if it is shown by the owner or operator that the owner or operator reasonably did not know or reasonably should not have known of the illegal importation.

a. For a first violation, the importing vehicle shall be detained and a penalty of $4,000 shall be paid before the vehicle will be released. The owner or operator of the importing vehicle or the owner of the fuel may be held liable for payment of the penalty.

b. For a second violation, the importing vehicle shall be detained and a penalty of $10,000 shall be paid before the vehicle will be released. The owner or operator of the importing vehicle or the owner of the fuel may be held liable to pay the penalty.

c. For third and subsequent violations, the importing vehicle and the fuel shall be seized and a penalty of $20,000 shall be paid before the vehicle will be released. The owner or operator of the importing vehicle or the owner of the fuel may be held liable to pay the penalty.

d. If the owner or operator of the importing vehicle or the owner of the fuel fails to pay the tax and penalty for a first or second offense, the importing vehicle and the fuel may be seized. The Iowa department of revenue, the Iowa department of transportation, or any peace officer, at the request of either department, may seize the vehicle and the fuel.

e. If the operator or owner of the importing vehicle or the owner of the fuel moves the vehicle or the fuel after the vehicle has been detained and a sticker has been placed on the vehicle stating that "this vehicle cannot be moved until the tax, penalty, and interest have been paid to the department of revenue," an additional penalty of $10,000 shall be assessed against the operator or owner of the importing vehicle or the owner of the fuel.

10.71(3) *Improper receipt of fuel credit or refund.* If a person files an incorrect refund claim, in addition to the amount of the excess claim, a penalty of 10 percent shall be added to the amount by which the amount claimed and refunded exceeds the amount actually due and shall be paid to the department. If a person knowingly files a fraudulent refund claim with the intent to evade the tax, the penalty shall be 75 percent in lieu of the 10 percent. The person shall also pay interest on the excess refunded at the rate per month specified in Iowa Code section 421.7, counting each fraction of a month as an entire month, computed from the date the refund was issued to the date the excess refund is repaid to the state.

10.71(4) *Illegal heating of fuel.* The deliberate heating of taxable motor fuel or special fuel by dealers prior to consumer sale is a simple misdemeanor.

10.71(5) *Prevention of inspection.* The Iowa department of revenue or the Iowa department of transportation may conduct inspections for coloration, markers, and shipping papers at any place where taxable fuel is or may be loaded into transport vehicles, produced, or stored. Any attempts by a person to prevent, stop, or delay an inspection of fuel or shipping papers by authorized personnel shall be subject to a civil penalty of not more than $2,000 per occurrence. Any law enforcement officer requested by

the Iowa department of revenue or Iowa department of transportation may physically inspect, examine, or otherwise search any tank, fuel supply tank of a vehicle, reservoir, or other container that can or may be used for the production, storage, or transportation of any type of fuel.

10.71(6) *Failure to conspicuously label a fuel pump.* A retailer who does not conspicuously label a pump or other delivery facility as required by the Internal Revenue Service, that dispenses dyed diesel fuel so as to notify customers that it contains dyed fuel, shall pay to the department of revenue a penalty of $100 per occurrence.

10.71(7) *False or fraudulent return.* Any person, including an officer of a corporation or a manager of a limited liability company, who is required to make, render, sign, or verify any report or return required by this chapter and who makes a false or fraudulent report, or who fails to file a report or return with the intent to evade the tax, shall be guilty of a fraudulent practice. Any person who aids, abets, or assists another person in making any false or fraudulent return or false statement in any return with the intent to evade payment of tax shall be guilty of a fraudulent practice.

This rule is intended to implement Iowa Code section 452A.74A as amended by 2009 Iowa Acts, Senate File 478, section 141.

[**ARC 8225B**, IAB 10/7/09, effective 11/11/09]

701—10.72(452A) Interest. Interest at the rate of three-fourths of one percent per month, based on the tax due, shall be assessed against the taxpayer for each month such tax remains unpaid prior to January 1, 1982. The interest shall accrue from the date the return was required to be filed. Interest shall not apply to penalty. Each fraction of a month shall be considered a full month for the computation of interest. See rule 701—10.2(421) for the statutory interest rate commencing on or after January 1, 1982.

Refunds on reports or returns filed on or after July 1, 1986, but before July 1, 1997, will accrue interest beginning on the first day of the third calendar month following the date of payment or the date the return was filed or due to be filed, whichever is later, at the rate in effect under Iowa Code section 421.7, counting each fraction of a month as an entire month. Refunds on reports or returns filed on or after July 1, 1997, will accrue interest beginning on the first day of the second calendar month following the date of payment or the date the return was filed or due to be filed, whichever is later. Claims for refund filed under Iowa Code sections 452A.17 and 452A.21 will accrue interest beginning with the first day of the second calendar month following the date the refund claim is received by the department. See rule 10.3(422,450,452A).

This rule is intended to implement Iowa Code section 452A.65 as amended by 1997 Iowa Acts, House File 266.

701—10.73 to **10.75** Reserved.

CIGARETTES AND TOBACCO

[Prior to 1/23/91, see 701—81.8(98), 81.9(98), and 81.15(98)]

701—10.76(453A) Penalties.

10.76(1) *Cigarettes.* The following is a list of offenses which subject the violator to a penalty:

1. The failure of a permit holder to maintain proper records;
2. The sale of taxable cigarettes without a permit;
3. The filing of a late, false or incomplete report with the intent to evade tax by a cigarette distributor, distributing agent or wholesaler;
4. Acting as a distributing agent without a valid permit; and
5. A violation of any provision of Iowa Code chapter 453A or these rules.

Penalties for these offenses are as follows:

- A $200 penalty for the first violation.
- A $500 penalty for a second violation within three years of the first violation.
- A $1,000 penalty for a third or subsequent violation within three years of the first violation.

Penalties for possession of unstamped cigarettes are as follows:

- A $200 penalty for the first violation if a person is in possession of more than 40 but not more than 400 unstamped cigarettes.
- A $500 penalty for the first violation if a person is in possession of more than 400 but not more than 2,000 unstamped cigarettes.
- A $1,000 penalty for the first violation if a person is in possession of more than 2,000 unstamped cigarettes for violations occurring prior to July 1, 2004. A $25 per pack penalty for the first violation if a person is in possession of more than 2,000 unstamped cigarettes for violations occurring on or after July 1, 2004.
- For a second violation within three years of the first violation, the penalty is $400 if a person is in possession of more than 40 but not more than 400 unstamped cigarettes; $1,000 if a person is in possession of more than 400 but not more than 2,000 unstamped cigarettes; and $2,000 if a person is in possession of more than 2,000 unstamped cigarettes for violations occurring prior to July 1, 2004. A $35 per pack penalty applies if a person is in possession of more than 2,000 unstamped cigarettes for violations occurring on or after July 1, 2004.
- For a third or subsequent violation within three years of the first violation, the penalty is $600 if a person is in possession of more than 40 but not more than 400 unstamped cigarettes; $1,500 if a person is in possession of more than 400 but not more than 2,000 unstamped cigarettes; and $3,000 if a person is in possession of more than 2,000 unstamped cigarettes for violations occurring prior to July 1, 2004. A $45 per pack penalty applies if a person is in possession of more than 2,000 unstamped cigarettes for violations occurring on or after July 1, 2004.

See rule 701—10.6(421) for penalties related to failure to timely file a return, failure to timely pay the tax due, audit deficiency, and willful failure to file a return with the intent to evade the tax. If, upon audit, it is determined that any person has failed to pay at least 90 percent of the tax imposed by Iowa Code chapter 453A, division I, which failure was not the result of a violation enumerated above, a penalty of 5 percent of the tax deficiency shall be imposed. This penalty is not subject to waiver for reasonable cause.

See rule 701—10.8(421) for statutory exceptions to penalty.

10.76(2) *Tobacco.*

See rule 701—10.6(421) for penalties related to failure to timely file a return, failure to timely pay the tax due, audit deficiency, and willful failure to file a return with the intent to evade the tax.

See rule 701—10.8(421) for statutory exceptions to penalty.

This rule is intended to implement Iowa Code sections 453A.28, 453A.31 and 453A.46 as amended by 2004 Iowa Acts, Senate File 2296.

701—10.77(453A) Interest.

10.77(1) *Cigarettes.* There shall be assessed interest at the rate established by rule 701—10.2(421) from the due date of the tax to the date of payment counting each fraction of a month as an entire month. For the purpose of computing the due date of any unpaid tax, a FIFO inventory method shall be used for cigarettes and stamps. See rule 701—10.6(421) for examples of penalty and interest.

10.77(2) *Tobacco.* The interest rate on delinquent tobacco tax is the rate established by rule 701—10.2(421) counting each fraction of a month as an entire month. If an assessment for taxes due is not allocated to any given month, the interest shall accrue from the date of assessment. See rule 701—10.6(421) for examples of penalty and interest.

This rule is intended to implement Iowa Code sections 453A.28 and 453A.46.

701—10.78(453A) Waiver of penalty or interest. Rescinded IAB 11/10/04, effective 12/15/04.

701—10.79(453A) Request for statutory exception to penalty. Any taxpayer who believes there is a good reason to object to any penalty imposed by the department for failure to timely file returns or pay the tax may submit a request for exception seeking that the penalty be waived. The request must be in

the form of a letter or affidavit and must contain all facts alleged by the taxpayer and a reason for why the taxpayer qualifies for the exceptions. See rule 701—10.8(421).

This rule is intended to implement Iowa Code sections 453A.31 and 453A.46.

701—10.80 to **10.84** Reserved.

INHERITANCE
[Prior to 1/23/91, see 701—subrules 86.2(14) to 86.2(20)]

701—10.85(422) Penalty—delinquent returns and payment. Rescinded IAB 5/6/09, effective 6/10/09.

701—10.86 to **10.89** Reserved.

IOWA ESTATE
[Prior to 1/23/91, see 701—subrules 87.3(9) to 87.3(12)]

701—10.90(451) Penalty—delinquent return and payment. Rescinded IAB 5/6/09, effective 6/10/09.

701—10.91 to **10.95** Reserved.

GENERATION SKIPPING
[Prior to 1/23/91, see 701—subrules 88.3(14) and 88.3(15)]

701—10.96(450A) Penalty—delinquent return and payment for deaths occurring before January 1, 1991. Rescinded IAB 5/6/09, effective 6/10/09.

701—10.97(422) Interest on tax due. Rescinded IAB 5/6/09, effective 6/10/09.

701—10.98 to **10.100** Reserved.

FIDUCIARY INCOME
[Prior to 1/23/91, see 701—89.6(422) and 89.7(422)]

701—10.101(422) Penalties. Rescinded IAB 5/6/09, effective 6/10/09.

701—10.102(422) Penalty. Rescinded IAB 5/6/09, effective 6/10/09.

701—10.103(422) Interest on unpaid tax. Rescinded IAB 5/6/09, effective 6/10/09.

701—10.104 to **10.109** Reserved.

HOTEL AND MOTEL
[Prior to 1/23/91, see 701—104.8(422A) and 104.9(422A)]

701—10.110(423A) Interest and penalty. Rescinded IAB 5/6/09, effective 6/10/09.

701—10.111(423A) Request for waiver of penalty. Rescinded IAB 5/6/09, effective 6/10/09.

701—10.112 to **10.114** Reserved.

ALL TAXES

701—10.115(421) Application of payments to penalty, interest, and then tax due for payments made on or after January 1, 1995, unless otherwise designated by the taxpayer. The department will not reapply prior payments made by the taxpayer to penalty or interest determined to be due after the date of

those prior payments. However, the department will apply payments to penalty and interest which were due at the time the payment was made.

Example (a) — Delinquent Return

a. Tax due is $1,000.

b. Return filed two months late.

c. $1,000 paid with the return.

d. The department bills the additional tax in the third month after the due date. The taxpayer pays the assessment in the third month.

The computation of additional tax is shown below:

Tax	$1,000.00	
Penalty	100.00	(10% failure to file penalty)
Interest	14.00	(2 months interest)
Total	$1,114.00	
Less payment	1,000.00	
Additional tax due	$ 114.00	
Interest	.80	(1 month interest)
Total due	$ 114.80	

Two years after the due date, the Internal Revenue Service conducts an audit and increases the taxpayer's taxable income. The department redetermines the taxpayer's liability 26 months after the due date as follows:

Tax as redetermined by the department	$1,100.00	
Less paid with return	1,000.00	
Additional tax	$ 100.00	
Penalty	10.00	(10% failure to file penalty)
Interest	18.20	(26 months interest)
Total due	$ 128.20	

Example (b) — Timely Filed No Remit

a. Tax due is $1,000.

b. Return timely filed.

c. $0 paid.

The calculation for the total amount due five months after the due date is shown below:

Tax	$1,000.00	
Penalty	50.00	(5% failure to pay penalty)
Interest	35.00	(5 months interest)
Total due	$1,085.00	

The department bills the additional tax in the fifth month after the due date and the taxpayer pays the additional amount in the eighth month after the due date. The payment is applied as follows:

Tax	$1,000.00	
Penalty	50.00	(5% failure to pay penalty)
Interest	56.00	(8 months interest)
Total due	$1,106.00	
Amount paid	$1,085.00	

Balance tax due $21.00 subject to interest until paid.

The balance due was not paid.

Three years after the due date the taxpayer forwards a copy of an Internal Revenue Service audit which increases the taxpayer's income to the department. The department recomputes the taxpayer's liability as follows:

Tax as redetermined by the department	$1,200.00	
Less paid per prior audit	979.00	
Balance due	$ 221.00	(includes the balance due of $21)
Penalty	10.00	(5% failure to pay penalty on $200, the $21.00 already bears penalty)
Interest	54.52	(36 months interest on $200 and 28 months interest on $21)
Total due	$ 285.52	

10.115(1) *Refunds.* In those instances where an audit reduced the amount of tax, penalty, and interest due over the amount paid, the department will reapply payments so that amount refunded is tax on which interest will accrue as set forth in the Iowa Code.

10.115(2) *Partial payments made after notices of assessments are issued.* Where partial payments are made after a notice of assessment is issued, the department will reapply payments to penalty, interest, and then to tax due until the entire assessed amount is paid. See *Ashland Oil Inc. v. Iowa Department of Revenue and Finance*, 452 N.W.2d 162 (Iowa 1990). If penalty, interest, and tax are due and owing for more than one tax period, any payment must be applied first to the penalty, then the interest, then the tax for the oldest tax period, then to the penalty, interest, and tax to the next oldest tax period, and so on until the payment is exhausted.

Where there are both agreed- and unagreed-to items as a result of an examination, the taxpayer and the department may agree to apply payments to the penalty, interest, and then to tax due on the agreed-to items of the examination when all of the penalty, interest, and tax on the agreed-to items are paid. In these instances, subsequent payments will not be applied to penalty and interest accrued on the agreed-to items of the examination.

This rule is intended to implement Iowa Code section 422.25(4).

[**ARC 7761B**, IAB 5/6/09, effective 6/10/09]

JEOPARDY ASSESSMENTS

701—10.116(422,453B) Jeopardy assessments. A jeopardy assessment may be made where a return has been filed and the director believes for any reason that assessment or collection of the tax will be jeopardized by delay, or where a taxpayer fails to file a return, whether or not formally called upon to file a return. In addition, all assessments made pursuant to Iowa Code chapter 453B are jeopardy assessments. The department is authorized to estimate the applicable tax base and the tax upon the basis of available information, add penalty and interest, and demand immediate payment.

A jeopardy assessment is due and payable when the notice of the assessment is served upon the taxpayer. Proceedings to enforce the payment of the assessment by seizure or sale of any property of the taxpayer may be instituted immediately.

This rule is intended to implement Iowa Code sections 422.30 and 453B.9.

701—10.117(422,453B) Procedure for posting bond. In the event a taxpayer seeks to post a bond in lieu of summary collection of a jeopardy assessment, pending final determination of the amount of tax legally due, an original and four copies of a separate written bond application conspicuously titled "Jeopardy Assessment Bond Request" must be filed with the clerk of the hearings section for the department. Thereafter, if the taxpayer and the department agree on an appropriate bond, the clerk of the hearings section for the department shall be notified and the bond shall be approved by the clerk of the hearings section for the department.

If the clerk of the hearings section for the department has not been notified that an agreement on the bond has been reached within ten days after the date upon which the bond request was filed, the clerk of the hearings section for the department shall transfer the file to the director who shall promptly schedule a hearing on the bond request with written notice to be given the taxpayer and the department at least ten days prior to the hearing.

This rule is intended to implement Iowa Code chapter 17A as amended by 1998 Iowa Acts, chapter 1202, and sections 422.30 and 453B.9.

701—10.118(422,453B) Time limits. Bond requests may be made anytime after a timely protest to the jeopardy assessment has been filed with the clerk of the hearings section for the department, except that any bond request whereby the taxpayer seeks to postpone a scheduled sale of assets seized by or on behalf of the department must be filed with the clerk of the hearings section for the department no later than ten days from the date on which notice of the sale was mailed to, or otherwise served upon, the taxpayer. Portions of an assessment which are undisputed must be paid in full at the time a bond request is filed.

This rule is intended to implement Iowa Code chapter 17A as amended by 1998 Iowa Acts, chapter 1202, and sections 422.30 and 453B.9.

701—10.119(422,453B) Amount of bond. In the event no agreement on the bond is reached, bonds must be posted in an amount to be determined by the director consistent with the following:

10.119(1) If property has been seized or a lien has been filed and the taxpayer seeks only to postpone the sale of property, pending final determination of the amount of tax legally due, the bond shall be in an amount equal to the expected depreciation loss, storage cost, insurance costs and any and all other costs associated with the distraint and storage of the property pending such final determination.

10.119(2) If property has been seized or a lien has been filed and the taxpayer seeks to prevent the sale of property and to have the property returned for the taxpayer's own use, pending final determination of the amount of tax legally due, the bond shall be in an amount equal to the sale price the department can reasonably expect to realize on any property seized plus all costs related to the distraint and storage of the property.

10.119(3) If a taxpayer seeks to prevent the department from seizing property or placing a lien upon property, pending final determination of the amount of tax legally due, the bond shall be in an amount equal to the total amount of the department's assessment including interest to the date of the bond.

Bonds may not be required in excess of double the amount of the department's jeopardy assessment.

This rule is intended to implement Iowa Code chapter 17A as amended by 1998 Iowa Acts, chapter 1202, and sections 422.30 and 453B.9.

701—10.120(422,453B) Posting of bond. If the taxpayer fails to post the bond as agreed upon within 15 days from the date the bond is approved by the clerk of the hearings section for the department, no bond will be allowed and the director shall dismiss the bond request. If no agreement was reached and a bond order is issued by the director, the taxpayer has ten days to post the bond. If the bond is not posted within the ten-day period, the director shall dismiss the bond request.

This rule is intended to implement Iowa Code chapter 17A as amended by 1998 Iowa Acts, chapter 1202, and sections 422.30 and 453B.9.

701—10.121(422,453B) Order. The director's order shall be in writing and shall include findings of fact based solely on the evidence in the record and on matters officially noticed in the record and shall include

conclusions of law. The findings of fact and conclusions of law shall be separately stated. Findings of fact shall be prefaced by a concise and explicit statement of underlying facts supporting the findings. Each conclusion of law shall be supported by cited authority or by a reasoned opinion.

Orders will be issued within a reasonable time after termination of the hearing. Parties shall be promptly notified of each order by delivery to them of a copy of the order by personal service or by ordinary mail.

This rule is intended to implement Iowa Code chapter 17A as amended by 1998 Iowa Acts, chapter 1202, and sections 422.30 and 453B.9.

701—10.122(422,453B) Director's order. The director's order constitutes the final order of the department for purposes of judicial review. Parties shall be promptly notified of the director's order by delivery to them of a copy of the order by personal service or by ordinary mail.

This rule is intended to implement Iowa Code chapter 17A as amended by 1998 Iowa Acts, chapter 1202, and sections 422.30 and 453B.9.

701—10.123(422,453B) Type of bond. The bond shall be payable to the department for the use of the state of Iowa and shall be conditioned upon the full payment of the tax, penalty, interest, or fees that are found to be due which remain unpaid upon the resolution of the contested case proceedings up to the amount of the bond. Upon application of the taxpayer or the department, the director may, upon hearing, fix a greater or lesser amount to reflect changed circumstances, but only after ten days' prior notice is given to the department or the taxpayer as the case may be.

A personal bond, without a surety, is only permitted if the taxpayer posts with the clerk of the hearings section for the department, cash, a cashier's check, a certificate of deposit, or other marketable securities which are approved by the director with a readily ascertainable value which is equal in value to the total amount of the bond required. If a surety bond is posted, the surety on the bond may be either personal or corporate. The provisions of Iowa Code chapter 636 relating to personal and corporate sureties shall govern to the extent not inconsistent with the provisions of this subrule.

This rule is intended to implement Iowa Code chapter 17A as amended by 1998 Iowa Acts, chapter 1202, and sections 422.30 and 453B.9.

701—10.124(422,453B) Form of surety bond. The surety bond posted shall be in substantially the following form:

BEFORE THE IOWA STATE DEPARTMENT OF REVENUE
HOOVER STATE OFFICE BUILDING
DES MOINES, IOWA

IN THE MATTER OF	*	
	*	
(Taxpayer's Name, Address and	*	SURETY BOND
designate proceeding, e.g.,	*	
income, sales, etc.)	*	DOCKET NO.
	*	

KNOW ALL PERSONS BY THESE PRESENTS:

That we _____(taxpayer)_____ as principal, and _____(surety)_____, as surety, of the county of _____, and State of Iowa, are held and firmly bound unto the Iowa Department of Revenue for the use of the State of Iowa, in the sum of $ _____ dollars, lawful money of the United States, for the payment of which sum we jointly and severally bind ourselves, our heirs, devisees, successors and assigns firmly by these presents. The condition of the foregoing obligations are, that, whereas the above-named principal has protested an assessment of tax, penalty, interest,

or fees or any combination of them, made by the Iowa Department of Revenue, now if the principal _____ shall promptly pay the amount of the assessed tax, penalty, interest or fees found to be due upon the resolution of the contested case proceedings, then this bond shall be void, otherwise to remain in full force and effect.

Dated this _____ day of _____, _____.

_____
Principal

_____
Surety

_____
Surety
(corporate acknowledgment if surety is a corporation)

AFFIDAVIT OF PERSONAL SURETY

STATE OF IOWA)
COUNTY OF) ss

I hereby swear or affirm that I am a resident of Iowa and am worth beyond my debts the amount set opposite my signature below in the column entitled, "Worth Beyond Debts," and that I have property in the State of Iowa, liable to execution equal to the amount set opposite my signature in the column entitled "Property in Iowa Liable to Execution."

Signature	Worth Beyond Debts	Property in Iowa Liable to Execution
_____	$ _____	$ _____
Surety (type name)		
_____	$ _____	$ _____
Surety (type name)		

Subscribed and sworn to before me the undersigned Notary Public this _____ day of _____, _____.

_____
(Seal) Notary Public in and for the State of Iowa

701—10.125(422,453B) Duration of the bond. The bond shall remain in full force and effect until the conditions of the bond have been fulfilled or until the bond is otherwise exonerated as provided by law.

This rule is intended to implement Iowa Code sections 422.30 and 453B.9.

701—10.126(422,453B) Exoneration of the bond. Upon conclusion of the contested case administrative proceedings, the bond shall be exonerated by the director when any of the following events occur: upon full payment of the tax, penalty, interest, costs or fees found to be due; upon filing a bond for the purposes of judicial review which bond is sufficient to secure the unpaid tax penalty, interest, costs and fees; or if no additional tax, penalty, interest, costs or fees are found to be due that

have not been previously paid, upon entry of a final unappealable order which resolves the underlying protest.

This rule is intended to implement Iowa Code chapter 17A as amended by 1998 Iowa Acts, chapter 1202, and sections 422.30 and 453B.9.

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CHAPTER 71
ASSESSMENT PRACTICES AND EQUALIZATION
[Prior to 12/17/86, Revenue Department[730]]

701—71.1(405,427A,428,441,499B) Classification of real estate.

71.1(1) *Responsibility of assessors.* All real estate subject to assessment by city and county assessors shall be classified as provided in this rule. It shall be the responsibility of city and county assessors to determine the proper classification of real estate. There can be only one classification per property. An assessor shall not assign one classification to the land and a different classification to the building or separate classifications to the land or separate classifications to the building (dual classification). A building or structure on leased land is considered a separate property and may be classified differently than the land upon which it is located. The determination shall be based upon the best judgment of the assessor following the guidelines set forth in this rule and the status of the real estate as of January 1 of the year in which the assessment is made. The assessor shall classify and value property according to its present use and not according to its highest and best use. For example, property currently used as a golf course shall be assessed and valued by the assessor as a golf course even though its highest and best potential use may be an industrial park or commercial development. See subrule 71.1(8) for an exception to the general rule that property is to be classified according to its use. The classification shall be utilized on the abstract of assessment submitted to the department of revenue pursuant to Iowa Code section 441.45. See rule 71.8(428,441).

71.1(2) *Responsibility of boards of review, county auditors, and county treasurers.* Whenever local boards of review, county auditors, and county treasurers exercise assessment functions allowed or required by law, they shall classify property as provided in this rule and adhere to the requirements of this rule.

71.1(3) *Agricultural real estate.* Agricultural real estate shall include all tracts of land and the improvements and structures located on them which are in good faith used primarily for agricultural purposes except buildings which are primarily used or intended for human habitation as defined in subrule 71.1(4). Land and the nonresidential improvements and structures located on it shall be considered to be used primarily for agricultural purposes if its principal use is devoted to the raising and harvesting of crops or forest or fruit trees, the rearing, feeding, and management of livestock, or horticulture, all for intended profit.

Vineyards and any buildings located on a vineyard and used in connection with the vineyard shall be classified as agricultural real estate if the primary use of the land and buildings is an activity related to the production or sale of wine.

Agricultural real estate shall also include woodland, wasteland, and pastureland, but only if that land is held or operated in conjunction with agricultural real estate as defined in this subrule.

71.1(4) *Residential real estate.* Residential real estate shall include all lands and buildings which are primarily used or intended for human habitation, including those buildings located on agricultural land. Buildings used primarily or intended for human habitation shall include the dwelling as well as structures and improvements used primarily as a part of, or in conjunction with, the dwelling. This includes but is not limited to garages, whether attached or detached, tennis courts, swimming pools, guest cottages, and storage sheds for household goods. Residential real estate located on agricultural land shall include only buildings as defined in this subrule. Buildings for human habitation that are used as commercial ventures, including but not limited to hotels, motels, rest homes, and structures containing three or more separate living quarters shall not be considered residential real estate. However, regardless of the number of separate living quarters, multiple housing cooperatives organized under Iowa Code chapter 499A and land and buildings owned and operated by organizations that have received tax-exempt status under Section 501(c)(3) of the Internal Revenue Code, if the rental income from the property is not taxed as unrelated business income under Iowa Code section 422.33(1A), shall be considered residential real estate.

An apartment in a horizontal property regime (condominium) referred to in Iowa Code chapter 499B which is used or intended for use for human habitation shall be classified as residential real estate

regardless of who occupies the apartment. Existing structures shall not be converted to a horizontal property regime unless building code requirements have been met.

71.1(5) *Commercial real estate.* Commercial real estate shall include all lands and improvements and structures located thereon which are primarily used or intended as a place of business where goods, wares, services, or merchandise is stored or offered for sale at wholesale or retail. Commercial realty shall also include hotels, motels, rest homes, structures consisting of three or more separate living quarters and any other buildings for human habitation that are used as a commercial venture. Commercial real estate shall also include data processing equipment as defined in Iowa Code section 427A.1(1)*"j,"* except data processing equipment used in the manufacturing process. However, regardless of the number of separate living quarters or any commercial use of the property, single- and two-family dwellings, multiple housing cooperatives organized under Iowa Code chapter 499A, and land and buildings used primarily for human habitation and owned and operated by organizations that have received tax-exempt status under Section 501(c)(3) of the Internal Revenue Code, if the rental income from the property is not taxed as unrelated business income under Iowa Code section 422.33(1A), shall be classified as residential real estate.

An apartment in a horizontal property regime (condominium) referred to in Iowa Code chapter 499B which is used or intended for use as a commercial venture, other than leased for human habitation, shall be classified as commercial real estate. Existing structures shall not be converted to a horizontal property regime unless building code requirements have been met.

71.1(6) *Industrial real estate.*

a. Land and buildings.

(1) Industrial real estate includes land, buildings, structures, and improvements used primarily as a manufacturing establishment. A manufacturing establishment is a business entity in which the primary activity consists of adding to the value of personal property by any process of manufacturing, refining, purifying, the packing of meats, or the combination of different materials with the intent of selling the product for gain or profit. Industrial real estate includes land and buildings used for the storage of raw materials or finished products and which are an integral part of the manufacturing establishment, and also includes office space used as part of a manufacturing establishment.

(2) Whether property is used primarily as a manufacturing establishment and, therefore, assessed as industrial real estate depends upon the extent to which the property is used for the activities enumerated in subparagraph 71.1(6)*"a"*(1). Property in which the performance of these activities is only incidental to the property's primary use for another purpose is not a manufacturing establishment. For example, a grocery store in which bakery goods are prepared would be assessed as commercial real estate since the primary use of the grocery store premises is for the sale of goods not manufactured by the grocery and the industrial activity, i.e., baking, is only incidental to the store premises' primary use. However, property which is used primarily as a bakery would be assessed as industrial real estate even if baked goods are sold at retail on the premises since the bakery premises' primary use would be for an industrial activity to which the retail sale of baked goods is merely incidental. See *Lichty v. Board of Review of Waterloo,* 230 Iowa 750, 298 N.W. 654 (1941).

Similarly, a facility which has as its primary use the mixing and blending of products to manufacture feed would be assessed as industrial real estate even though a portion of the facility is used solely for the storage of grain, if the use for storage is merely incidental to the property's primary use as a manufacturing establishment. Conversely, a facility used primarily for the storage of grain would be assessed as commercial real estate even though a part of the facility is used to manufacture feed. In the latter situation, the industrial use of the property — the manufacture of feed — is merely incidental to the property's primary use for commercial purposes — the storage of grain.

(3) Property used primarily for the extraction of rock or mineral substances from the earth is not a manufacturing establishment if the only processing performed on the substance is to change its size by crushing or pulverizing. See *River Products Company v. Board of Review of Washington County,* 332 N.W.2d 116 (Iowa Ct. App. 1982).

b. Machinery.

(1) Machinery includes equipment and devices, both automated and nonautomated, which is used in manufacturing as defined in Iowa Code section 428.20. See *Deere Manufacturing Co. v. Beiner,* 247 Iowa 1264, 78 N.W.2d 527 (1956).

(2) Machinery owned or used by a manufacturer but not used within the manufacturing establishment is not assessed as industrial real estate. For example, "X" operates a factory which manufactures building materials for sale. In addition, "X" uses some of these building materials in construction contracts. The machinery which "X" would primarily use at the construction site would not be used in a manufacturing establishment and, therefore, would not be assessed as industrial real estate.

(3) Machinery used in manufacturing but not used in or by a manufacturing establishment is not assessed as industrial real estate. See *Associated General Contractors of Iowa v. State Tax Commission,* 255 Iowa 673, 123 N.W.2d 922 (1963).

(4) Where the primary function of a manufacturing establishment is to manufacture personal property that is consumed by the manufacturer rather than sold, the machinery used in the manufacturing establishment is not assessed as industrial real estate. See *Associated General Contractors of Iowa v. State Tax Commission,* 255 Iowa 673, 123 N.W.2d 922 (1963).

71.1(7) *Point-of-sale equipment.* As used in Iowa Code section 427A.1(1)*"j,"* the term "point-of-sale equipment" means input, output, and processing equipment used to consummate a sale and to record or process information pertaining to a sale transaction at the time the sale takes place and which is located at the counter, desk, or other specific point at which the transaction occurs. As used in this subrule, the term "sale" means the sale or rental of goods or services and includes both retail and wholesale transactions. Point-of-sale equipment does not include equipment used primarily for depositing or withdrawing funds from financial institution accounts.

71.1(8) *Housing development property.* A county board of supervisors may adopt an ordinance providing that property acquired and subdivided for development of housing be classified the same as it was prior to its acquisition until the property is sold or, depending on a county's population, for a specified number of years from the date of subdivision, whichever is shorter. The applicable time period is five years in counties with a population of less than 20,000 and three years in counties with a population of 20,000 or more. The property is to be classified as residential or commercial, whichever is applicable, in the assessment year following the year in which it is sold or the applicable time period has expired. For purposes of this subrule, "subdivided" means to divide a tract of land into three or more lots.

This rule is intended to implement Iowa Code sections 405.1, 427A.1, 428.4 and 441.22 and chapter 499B and Iowa Code Supplement section 441.21 as amended by 2002 Iowa Acts, House File 2584.

701—71.2(421,428,441) Assessment and valuation of real estate.

71.2(1) *Responsibility of assessor.* The valuation of real estate as established by city and county assessors shall be the actual value of the real estate as of January 1 of the year in which the assessment is made. New parcels of real estate created by the division of existing parcels of real estate shall be assessed separately as of January 1 of the year following the division of the existing parcel of real estate.

71.2(2) *Responsibility of other assessing officials.* Whenever local boards of review, county auditors, and county treasurers exercise assessment functions allowed or required by law, they shall follow the provisions of subrule 71.2(1) and rules 71.3(421,428,441) to 71.7(421,427A,428,441).

This rule is intended to implement Iowa Code sections 421.17, 428.4 and 441.21.

701—71.3(421,428,441) Valuation of agricultural real estate. Agricultural real estate shall be assessed at its actual value as defined in Iowa Code section 441.21 by giving exclusive consideration to its productivity and net earning capacity. In determining the actual value of agricultural real estate, city and county assessors shall use the "Iowa Real Property Appraisal Manual" and any other guidelines issued by the department of revenue pursuant to Iowa Code section 421.17(18).

In determining the productivity and net earning capacity of agricultural real estate, the assessor shall also use available data from Iowa State University, the Iowa crop and livestock reporting service, the

department of revenue, or other reliable sources. The assessor shall also consider the results of a modern soil survey, if completed.

The assessor shall determine the actual valuation of agricultural real estate within the assessing jurisdiction and spread such valuation throughout the jurisdiction so that each parcel of real estate is assessed at its actual value as defined in Iowa Code section 441.21.

In order to determine a productivity value for agricultural buildings and structures, assessors must make an agricultural adjustment to the market value of these buildings and structures by developing an "agricultural factor" for the assessors' jurisdictions. The agricultural factor for each jurisdiction is the product of the ratio of the productivity and net earning capacity value per acre as determined under subrule 71.12(1) over the market value of agricultural land within the assessing jurisdiction. The resulting ratio is then applied to the actual value of the agricultural buildings and structures as determined under the Iowa Real Property Appraisal Manual prepared by the department. The agricultural factor must be applied uniformly to all agricultural buildings and structures in the assessing jurisdiction. As an example, if a building's actual value is $500,000 and the agricultural factor is 30 percent, the productivity value of that building is $150,000. See *H & R Partnership v. Davis County Board of Review,* 654 N.W.2d 521 (Iowa 2002). The 2007, 2008, and 2009 average of the market value of land will be used in determining the agricultural factor for assessment year 2011. A five-year market value average of land for years used to determine the productivity formula will be used to determine the agricultural factor for assessment year 2013 and subsequent assessment years.

Land classified as agricultural real estate includes the land beneath any dwelling and appurtenant structures located on that land and shall be valued by the assessor pursuant to rule 701—71.3(421,428,441). An assessor shall not value a part of the land as agricultural real estate and a part of the land as if it is residential real estate.

This rule is intended to implement Iowa Code sections 421.17, 428.4 and 441.21.

[**ARC 8542B**, IAB 2/24/10, effective 3/31/10]

701—71.4(421,428,441) Valuation of residential real estate. Residential real estate shall be assessed at its actual value as defined in Iowa Code section 441.21.

In determining the actual value of residential real estate, city and county assessors shall use the appraisal manual issued by the department of revenue pursuant to Iowa Code section 421.17(18) as well as a locally conducted assessment/sales ratio study, an analysis of sales of comparable properties, and any other relevant data available.

This rule is intended to implement Iowa Code sections 421.17, 428.4 and 441.21.

701—71.5(421,428,441) Valuation of commercial real estate. Commercial real estate shall be assessed at its actual value as defined in Iowa Code section 441.21. In determining the actual value of commercial real estate, city and county assessors shall use the appraisal manual issued by the department of revenue pursuant to Iowa Code section 421.17(18) as well as a locally conducted assessment/sales ratio study, an analysis of sales of comparable properties, and any other relevant data available.

71.5(1) *Property of long distance telephone companies.* The director of revenue shall assess the property of long distance telephone companies as defined in Iowa Code section 476.1D(10) which property is first assessed for taxation on or after January 1, 1996, in the same manner as commercial real estate.

71.5(2) *Low-income housing subject to Section 42 of the Internal Revenue Code.*

a. Productive and earning capacity. In assessing property that is rented or leased to low-income individuals and families as authorized by Section 42 of the Internal Revenue Code which limits the amount that the individual or family pays for the rental or lease of units in the property, the assessor shall use the productive and earning capacity from the actual rents received as a method of appraisal and shall take into account the extent to which that use and limitation reduces the market value of the property.

b. Direct capitalization method. The income approach to valuation shall be applied using the direct capitalization method. The assessor may use the discounted cash flow method as a test of the reasonableness of the results produced by the direct capitalization method. The direct capitalization

method of the income approach involves dividing the Net Operating Income (NOI) on a cash basis by an overall capitalization rate to derive an indication of the value of the property for the assessment year.

In applying the direct capitalization method, the assessor shall develop a normalized measure of annual NOI based on the productive and earning capacity of the development utilizing (1) the actual rent schedule applicable for each of the available units as of January 1 of the year of assessment indicating the actual rent to be paid by the resident plus any Section 8 rental assistance or other direct cash rental subsidy provided to the resident by federal, state or local rent subsidy programs as limited pursuant to Section 42 of the Internal Revenue Code, (2) a normal vacancy/collection allowance, (3) the prior year's actual and current year's projected annual operating expenses associated with the property, excluding noncash items such as depreciation and amortization, but including property taxes and those actual costs expected to be incurred and paid as required by Internal Revenue Code Section 42 regulations, provisions, and restrictions as applicable to the assessment year, and (4) an appropriate provision for replacement reserves.

If no separate line item is included for reserves for replacement in the historic income and expense data, then the maintenance and repair categories of the historic expense data must be itemized. For properties that have attained a normalized operating history, the NOI results of the prior three years (as represented in the statements variously named as the Income and Loss Statement, the Profit and Loss Statement, the Income Statement, the Actual to Budget Comparison Statement, Balance Sheet, or some name variation of these) may be used to provide the basis for determining the normalized NOI used for purposes of applying the direct capitalization method for the year of assessment, provided an appropriate replacement reserve is included in the NOI determination and provided any additional costs required as a result of Section 42 regulation or compliance changes for the assessment year are included as an operating expense in the NOI determination. In addition, the assessor may utilize the current year operating budget to develop a measure of NOI for the assessment year. The assessor, in developing the measure of annual NOI on a cash basis, shall not consider as income any potential rental income differential that could otherwise be received from the property if the rents were not limited pursuant to Section 42 of the Internal Revenue Code, any tax credit equity, any tax credit value, or other subsidized financing.

c. *Filing of reports.* It shall be the responsibility of the property owner to file income and expense data with the local assessor by March 1 of each year. The assessor may require the filing of additional information if deemed necessary.

d. *Capitalization rate.* The overall capitalization rate to be used in applying the direct capitalization method for a Section 42 property is developed through the band-of-investment technique. The capitalization rate will be calculated annually by the Iowa department of revenue and distributed to all Iowa assessors by March 1. The capitalization rate is a composite rate weighted by the proportions of total property investment represented by debt and equity. The capital structure weights equity at 80 percent and debt at 20 percent unless actual market capital structure can be verified to the assessor. The yield, or market rate of return, for equity is calculated using the capital asset pricing model (CAPM). The yield for debt is equivalent to the average yield on 25-year Treasury bonds referred to as the Treasury long-term average rate. An example of the band-of-investment technique to be utilized is as follows:

	% to Total	Yield	Composite
Equity	80%	11.05%	8.84%
Debt	20%	5.94%	1.19%
	100%		10.03%

e. Capital asset pricing model. The capital asset pricing model (CAPM) is utilized to develop the equity rate. The formula is:

	Re	=	B (Rm - Rf) + Rf
Where:	Re	=	return on equity
	B	=	beta
	Rm	=	return on the market
	Rf	=	risk-free rate of return
	Rm - Rf	=	market-risk premium

The beta is assumed to be 1 which indicates the risk level to be consistent with the market as a whole. The risk-free rate is calculated by finding the average of the three-month and six-month Treasury bill. The return on the market is calculated by taking the average of the return on the market for the Merrill Lynch Universe and Standard and Poor's 500 or by reference to other published secondary sources.

f. Properties under construction. For Section 42 properties under construction, the assessor may value the property by applying the percentage of completion to the replacement cost new (RCN) as calculated from the Iowa Real Property Appraisal Manual and adding the fair market value of the land. Alternatively, projected income and expense data may be utilized if available.

g. Negative or minimal NOI. If the Section 42 property shows a negative or minimal net operating income (NOI), the indicator of value as set forth in these rules shall not be utilized.

h. Eligibility withdrawn. The property owner shall notify the assessor when property is withdrawn from Section 42 eligibility under the Internal Revenue Code. The notification must be provided by March 1 of the assessment year or the owner is subject to a penalty of $500.

This rule is intended to implement Iowa Code sections 421.17, 428.4, 441.21 as amended by 2004 Iowa Acts, Senate File 2296, and 476.1D(10).

701—71.6(421,428,441) Valuation of industrial land and buildings. Industrial real estate shall be assessed at its actual value as defined in Iowa Code section 441.21.

In determining the actual value of industrial land and buildings, city and county assessors shall use the appraisal manual issued by the department of revenue pursuant to Iowa Code subsection 421.17(18), and any other relevant data available.

This rule is intended to implement Iowa Code sections 421.17, 428.4 and 441.21.

701—71.7(421,427A,428,441) Valuation of industrial machinery. Industrial machinery as referred to in Iowa Code section 427A.1(1)*"e"* shall include all machinery used in manufacturing establishments and shall be assessed as real estate even though such machinery might be assessed as personal property if not used in a manufacturing establishment.

In determining the actual value of industrial machinery assessed as real estate, the assessor shall give consideration to the "Industrial Machinery and Equipment Valuation Guide" issued by the department of revenue and any other relevant data available.

This rule is intended to implement Iowa Code sections 421.17, 427A.1, 428.4 and 441.21.

701—71.8(428,441) Abstract of assessment. Each city and county assessor shall submit annually to the director of revenue at the times specified in Iowa Code section 441.45 an abstract of assessment for the current year. The assessor shall use the form of abstract prescribed and furnished by the department of revenue, and shall enter on the abstract all information required by the department. However, the department may approve the use of a computer-prepared abstract if the data is essentially the same format as on the form prescribed by the department. The information entered on the abstract of assessment shall be reviewed and considered by the director of revenue in equalizing the valuations of classes of properties.

This rule is intended to implement Iowa Code sections 428.4 and 441.45.

701—71.9(428,441) Reconciliation report. The assessor's report of any revaluation required by Iowa Code section 428.4 shall be made on the reconciliation report prescribed and furnished by the department of revenue. The assessor shall enter on the report all information required by the department. The reconciliation report shall be a part of the abstract of assessment required by Iowa Code section 441.45 and shall be reviewed and considered by the director in equalizing valuations of classes of property.

This rule is intended to implement Iowa Code sections 428.4 and 441.45.

701—71.10(421) Assessment/sales ratio study.

71.10(1) *Basic data.* Basic data shall be that submitted to the department of revenue by county recorders and city and county assessors on forms prescribed and provided by the department, information furnished by parties to real estate transactions, and information obtained by field investigations made by the department of revenue.

71.10(2) *Responsibility of recorders and assessors.* County recorders and city and county assessors shall complete the prescribed forms as required by Iowa Code subsection 421.17(6) and rule 701—79.3(428A) in accordance with instructions issued by the department. Assessed values entered on the prescribed form shall be those established as of January 1 of the year in which the sale takes place.

71.10(3) *Normal sales.* All real estate transfers shall be considered by the department of revenue to be normal sales unless there exists definite information which would indicate the transfer was not an arms-length transaction or is of an excludable nature as provided in Iowa Code section 441.21.

This rule is intended to implement Iowa Code section 421.17.

701—71.11(441) Equalization of assessments by class of property. Commencing in 1977 and every two years thereafter, the director of revenue shall order the equalization of the levels of assessment of each class of property as provided in rule 71.12(441) by adding to or deducting from the valuation of each class of property, as reported to the department on the abstract of assessment and reconciliation report which is a part of the abstract, the percentage in each case as may be necessary to bring the level of assessment to its actual value as defined in Iowa Code section 441.21. Valuation adjustments shall be ordered if the director determines that the aggregate valuation of a class of property as reported on the abstract of assessment submitted by the assessor is at least 5 percent above or below the aggregate valuation for that class of property as determined by the director pursuant to rule 71.12(441). Equalization orders of the director shall be restricted to equalizing the aggregate valuations of entire classes of property among the several assessing jurisdictions. All classifications of real estate shall be applied uniformly throughout the state of Iowa.

Equalization percentage adjustments determined for residential realty located outside incorporated areas and not located on agricultural land shall apply to buildings located on agricultural land outside incorporated areas, which are primarily used or intended for human habitation, as defined in subrule 71.1(4).

Equalization percentage adjustments determined for residential realty located within incorporated cities and not located on agricultural land shall apply to buildings located on agricultural land within incorporated cities which are primarily used or intended for human habitation as defined in subrule 71.1(4).

This rule is intended to implement Iowa Code sections 441.21, 441.47, 441.48 and 441.49.

701—71.12(441) Determination of aggregate actual values.

71.12(1) *Agricultural real estate.*

a. *Use of income capitalization study.* The equalized valuation of agricultural realty shall be based upon its productivity and net earning capacity and shall be determined in accordance with the provisions of this subrule. Data used shall pertain to crops harvested during the five-year period ending with the calendar year in which assessments were last equalized. The equalized valuation of agricultural realty shall be determined for each county as follows:

(1) *Computation of county acres.* This information shall be obtained from "Iowa Agricultural Statistics" published by the Iowa Crop and Livestock Reporting Service.

Total acres in farms: Total acreage used for agricultural purposes.
Corn acres: Sum of corn acres harvested including silage, popcorn and acres planted for sorghum.
Oats and wheat acres: Sum of oats and wheat acres harvested.
Soybean acres: Soybean acres harvested.
Hay acres: All hay acres harvested.
Pasture acres: All pasture acres. Total pasture acres shall be determined by multiplying the total acres in farms reported in "Iowa Agricultural Statistics" by the percentage which total pasture land as reported in the most recent U.S. Census of Agriculture bears to the total acreage in farmland also as reported in the most recent U.S. Census of Agriculture. Determine the amount of tillable and nontillable pasture acres as follows:

1. From the most recent U.S. Census of Agriculture obtain the following:

Cropland used only for pasture and grazing	acres_____
Woodland pasture	acres_____
Pasture land and rangeland (other than cropland and woodland pasture)	acres_____
Total pasture land (total of above)	acres_____

2. Determine the percent that cropland used only for pasture is of the total pasture land _____ %

3. Apply this percentage to the 5-year average total acres of pasture as determined above to determine the pasture acres to be classified as tillable pasture. The remainder of the 5-year average shall be classified as nontillable pasture land.

Determine the 5-year average acres participating in applicable government programs. Obtain data from the U.S. Agricultural Stabilization and Conservation Service, including but not limited to acreage devoted to the Payment-In-Kind (PIK), diverted and deficiency programs.

"Other acres": The difference between the total acreage for land uses listed above and the total of all land in farms. Add the total of the corn, oats, soybeans, hay, tillable and nontillable pasture and diverted acres. Subtract this total from total acres in farms. The residual is classified as other acres.

(2) *Computation of county yields.* This information shall be obtained for each county from "Iowa Agricultural Statistics" published by the Iowa crop and livestock reporting service.
Corn yield (including silage, sorghum and popcorn): Number of bushels of corn harvested for grain per acre.
Oat yield (including wheat): Number of bushels of oats harvested per acre.
Soybean yield: Number of bushels per acre harvested.
Hay yield in tons: Number of tons per acre harvested as reported by the Iowa crop and livestock reporting service.

(3) *Computation of county gross income.*

Corn: One-half of the 5-year average production multiplied by the 5-year average price received for corn.

Silage, popcorn, and sorghums: One-half of the 5-year average number of acres devoted to the production of silage, popcorn, and sorghum, times the 5-year average production per acre for corn. The amount of production so determined shall be added to the 5-year average production for corn and included in the determination of the gross income for corn.

Soybeans: One-half of the 5-year average production multiplied by the 5-year average price received.

Oats: One-half of the 5-year average production of oats and wheat multiplied by the 5-year average price received.

Price adjustment: For corn, soybeans, and oats, the prices used shall be as provided by the Iowa crop and livestock reporting service and shall be adjusted to reflect any individual county price conditions.

Government programs: Gross income shall be one-half of the 5-year average amount of cash payments or equivalent (such as PIK bushels) including but not limited to diverted, deficiency and PIK programs as reported by the U.S. Agricultural Stabilization and Conservation Service.

Hay: Gross income shall be a cash rent amount determined by multiplying the 5-year average number of acres devoted to hay by the product obtained by multiplying one-fourth of the 5-year average hay yield by the 5-year average price received for hay.

Tillable pasture: Gross income shall be a cash rent amount determined by multiplying the 5-year average number of acres devoted to tillable pasture by the product obtained in "hay" above.

Nontillable pasture: Gross income shall be a cash rent amount determined by multiplying the 5-year average number of acres devoted to nontillable pasture by one-half the product obtained in "hay" above.

Other acres: Income shall be the product of the number of other acres times 17 percent of the net income per acre for all other land uses.

(4) *Computation of county production costs.* The following data and procedures shall be used to determine specific county production costs.

Basic average landlord production costs: Landlord production costs for corn, soybeans, oats, diverted acres, hay, tillable pasture, nontillable pasture, fertilizer costs, and facilities costs shall be obtained for each year from Iowa State University.

Production cost adjustment. The production costs for corn, soybeans, oats, and hay are adjusted for each county by multiplying the difference between the 5-year state average yield per acre and the 5-year county average yield per acre by the 5-year average facilities costs. If a county's yield exceeds the state yield, production costs are increased by this amount. If a county's yield is less than the state yield, production costs are reduced by this amount.

Fertilizer cost adjustment. The adjustment for fertilizer costs is determined as follows: Multiply the difference between the 5-year state average corn yield per acre and the 5-year county average corn yield per acre by the fertilizer cost amount per bushel determined by Iowa State University. This amount is then multiplied times the 5-year county average corn acres determined above.

If a county's 5-year average corn yield is greater than the state 5-year average corn yield, this amount is allowed as an additional expense. If less than the state average, this amount is an expense reduction.

Liability insurance cost adjustment.

The 5-year average per acre cost of obtaining tort liability insurance shall be determined.

(5) *Computation of county net income.* From the total gross income, subtract the total expenses. Divide the resulting total by the total number of acres.

(6) *Computation of dwelling adjustment factor.* The amount determined in (5) above shall be reduced by 10.6 percent.

(7) *Computation of county tax adjustment.* Subtract the 5-year average per acre real estate taxes levied for land and structures including drainage and levee district taxes but excluding those levied against agricultural dwellings. Taxes shall be the tax levied for collection during the 5-year period as reported by county auditors, and reduced by the amount of the agricultural land tax credit.

(8) *Calculate county valuation per acre.* Divide the net income per acre ((7) above) for each county as determined above by the capitalization rate specified in Iowa Code section 441.21. The quotient shall be the actual per acre equalized valuation of agricultural land and structures for the current equalization year.

b. *Use of other relevant data.* The director may also consider other relevant data, including field investigations conducted by representatives of the department of revenue to determine the level of assessment of agricultural real estate.

c. Determination of value. The aggregate actual value of agricultural real estate in each county shall be determined by multiplying the equalized per acre value by the number of acres of agricultural real estate reported on the abstract of assessment for the current year, adjusted where necessary by the results of any field investigations conducted by the department of revenue and any other relevant data available.

71.12(2) *Residential real estate outside and within incorporated cities.*

a. Use of assessment/sales ratio study. Basic data shall be that set forth in rule 71.10(421) refined by eliminating any sales determined to be abnormal or by adjusting the sales to eliminate the effects of factors which resulted in the sales having been determined to be abnormal. The basic data used shall be the assessment/sales ratio study conducted for sales taking place during the calendar year immediately preceding the year in which the equalization order is issued. The director may also supplement the assessment/sales ratio study with appraisals made by department of revenue appraisal personnel for the year immediately preceding the year in which the equalization order is issued. The assessment/sales ratio study including relevant appraisals, if any, shall be used to determine the aggregate actual valuation of residential real estate in each assessing jurisdiction. The director of revenue may consider sales and appraisal data for prior years if it is determined the use of the sales and appraisal data for the year immediately preceding the year in which the equalization order is issued is insufficient to determine market value. If such sales and appraisal data for prior years is used, consideration shall be given for any subsequent changes in either assessed value or market value.

Assessors shall provide any known facts or circumstances regarding reported sales transactions and department appraisals which would indicate abnormal or unusual conditions or reporting discrepancies which would necessitate exclusion or adjustment of sales or appraisals from the determination of aggregate actual values. Assessors shall provide those facts within 45 days of receipt from the department of information concerning sales and appraisal data proposed for assessment/sales ratio and equalization purposes.

b. Use of other relevant data. The director may also consider other relevant data, including field investigations conducted by representatives of the department of revenue to determine the level of assessment of residential real estate.

c. Equalization appraisal selection procedures for residential real estate. Residential properties to be appraised by department of revenue personnel for use in supplementing the assessment/sales ratio study shall be selected for each jurisdiction in the following manner:

(1) The department appraiser assigned to the jurisdiction shall determine a systematic random sequence of numbers equal to the number of appraisals required and document the following steps.

1. The department appraiser assigned to the jurisdiction shall compute the interval number by dividing the total number of improved properties in the classification to be sampled by the number of appraisals to be performed.

EXAMPLE: In this example, ten appraisals are needed with a total of 1,397 improved residential units. Dividing 1,397 by 10, 139.7 is arrived at, which is rounded down to 139. This is the interval number.

2. The selection of the first sequence number shall be accomplished by having an available disinterested person randomly select a number from one through the interval number.

EXAMPLE: In this example a number from 1 to 139 is to be selected. The person randomly selected number 20.

3. The department appraiser shall develop a systematic sequence of numbers equal to the number of appraisals required. Starting with the randomly selected number previously picked by the disinterested person, add the interval number to this number and to each resulting number until a systematic sequence of numbers is obtained.

EXAMPLE: In this example ten appraisals are needed, so a sequence of ten numbers must be developed. Starting with number 20 and adding the interval number of 139 to it, each resulting number provides the following systematic sequence: 20, 159, 298, 437, 576, 715, 854, 993, 1,132, 1,271.

(2) Number of improved properties.

County jurisdictions—Put the name of each city or township having improved units in the classification to be sampled into a hat. Draw each one out of the hat and record its name in the order

of its draw. Likewise, record the respective number of improved units for each. Then consecutively number all the improved units and document the procedure.

EXAMPLE:

City or Township	Number of Improved Residential Units	Code Numbers
Franklin Twp.	57	1-57
Pleasant View	160	58-217
Jackson Twp.	56	218-273
Johnston	300	274-573
Polk Twp.	110	574-683
Washington Twp.	114	684-797
Maryville	306	798-1103
Camden Twp.	110	1104-1213
Salem	184	1214-1397
Total	1,397	

(3) Determine the location of the improved properties selected for appraisal and document the procedure.

EXAMPLE:

City or Township	Number of Improved Residential Units	Code Numbers	Sequence Number	Entry on Rolls
Franklin Twp.	57	1-57	20	20
Pleasant View	160	58-217	159	102
Jackson Twp.	56	218-273		
Johnston	300	274-573	298,437	25,164
Polk Twp.	110	574-683	576	3
Washington Twp.	114	684-797	715	32
Maryville	306	798-1103	854,993	57,196
Camden Twp.	110	1104-1213	1132	29
Salem	184	1214-1397	1271	58
Total	1,397			

1. The department appraiser shall locate the property to be appraised by finding the relationship between the sequence numbers and the code numbers and identify the property.

EXAMPLE: The first sequence number is 20. Since the improved residential properties in Franklin Township have been assigned code numbers 1 to 57, sequence number 20 is in that location.

To identify this property, examine the Franklin Township assessment roll book and stop at the twentieth improved residential entry.

Document the parcel number, owner's name, and legal description of this property.

2. The department appraiser shall appraise the property selected unless it is ineligible because of any of the following restrictions:

Current year sale
Partial assessment
Prior equalization appraisal
Tax-exempt
Value established by court action
Value is not more than $10,000
Building on leased land

3. The department appraiser shall determine a substitute property if the originally selected one is ineligible. In ascending order, select code numbers until an eligible property is found.

EXAMPLE: If code number 20 is ineligible, use code number 21 as a substitute. If code number 21 is ineligible, use code number 22, etc., until an eligible property is found.

If the procedure described in 71.12(2)*"c"*(3)"3" moves the substitute property to another city or township, select substitute code numbers in descending order until an eligible property is found.

If the procedure described in the previous paragraph moves the substitute property to a preceding city or township, go back to the procedure of 71.12(2)*"c"*(3)"3" even if it moves the substitute property to a subsequent city or township.

4. Select an alternate property for the originally selected property which also would be eligible. This is necessary because at the time of appraisal the property may be found to be ineligible due to one of the restrictions in 71.12(2)*"c"*(3)"2." Alternate properties are selected by using the same procedure described in 71.12(2)*"c"*(3)"3."

5. Follow procedures 71.12(2)*"c"*(3), items "1" to "4," for each of the other originally selected sequence numbers.

71.12(3) *Commercial real estate.*

a. Use of assessment/sales ratio study. Basic data shall be that set forth in rule 71.10(421), refined by eliminating any sales determined to be abnormal or by adjusting same to eliminate the effects of factors which resulted in the sales having been determined to be abnormal. The basic data used shall be the assessment/sales ratio study conducted for sales taking place during the calendar year immediately preceding the year in which the equalization order is issued. The director may also supplement the assessment/sales ratio study with appraisals made by department of revenue appraisal personnel for the year immediately preceding the year in which the equalization order is issued. The assessment/sales ratio study including relevant appraisals, if any, shall be used to determine the aggregate actual valuation of commercial real estate in each assessing jurisdiction. The director of revenue may consider sales and appraisal data for prior years if it is determined the use of sales and appraisal data for the year immediately preceding the year in which the equalization order is issued is insufficient to determine market value. If such sales and appraisal data for prior years is used, consideration shall be given for any subsequent changes in either assessed value or market value.

b. Use of other relevant data. The director may also consider other relevant data, including field investigations conducted by representatives of the department of revenue to determine the level of assessment of commercial real estate. The diverse nature of commercial real estate precludes the use of a countywide or citywide income capitalization study.

Assessors shall provide any known facts or circumstances regarding reported sales transactions and department appraisals which would indicate abnormal or unusual conditions or reporting discrepancies which would necessitate exclusion or adjustment of sales or appraisals from the determination of aggregate actual values. Assessors shall provide those facts within 45 days of receipt from the department of information concerning sales and appraisal data proposed for assessment/sales ratio and equalization purposes.

c. Equalization appraisal selection procedures for commercial real estate. Commercial properties to be appraised by department of revenue personnel for use in supplementing the assessment/sales ratio study shall be selected for each jurisdiction in the following manner:

(1) The department appraiser assigned to the jurisdiction shall determine a systematic random sequence of numbers equal to the number of appraisals required and document the following steps.

1. The department appraiser shall compute the interval number by dividing the total number of improved properties in the classification to be sampled by the number of appraisals to be performed.

EXAMPLE: In this example, ten appraisals are needed with a total of 397 improved commercial units. Dividing 397 by 10, 39.7 is arrived at, which is rounded down to 39. This is the interval number.

2. The selection of the first sequence number shall be accomplished by having an available disinterested person randomly select a number from one through the interval number.

EXAMPLE: In this example a number from 1 to 39 is to be selected. The person randomly selected number 2.

3. The department appraiser shall develop a systematic sequence of numbers equal to the number of appraisals required. Starting with the randomly selected number previously picked by the disinterested person, add the interval number to this number and to each resulting number until a systematic sequence of numbers is obtained.

EXAMPLE: In this example ten appraisals are needed, so a sequence of ten numbers must be developed. Starting with number 2 and adding the interval number of 39 to it, each resulting number provides the following systematic sequence: 2, 41, 80, 119, 158, 197, 236, 275, 314, 353.

(2) Number of improved properties.

1. City jurisdictions—Utilizing the assessment book or a computer printout which follows the same order as the assessment book, consecutively number all the improved units and document the procedure.

2. County jurisdictions—Put the name of each city or township having improved units in the classification to be sampled into a hat. Draw each one out of the hat and record its name in the order of its draw. Likewise, record the respective number of improved units for each. Then consecutively number all the improved units and document the procedure.

EXAMPLE:

City or Township	Number of Improved Commercial Units	Code Numbers
Franklin Twp.	4	1-4
Pleasant View	60	5-64
Jackson Twp.	9	65-73
Johnston	100	74-173
Polk Twp.	10	174-183
Washington Twp.	14	184-197
Maryville	106	198-303
Camden Twp.	10	304-313
Salem	84	314-397
Total	397	

(3) The department appraiser shall determine the location of the improved properties selected for appraisal and document the procedure.

EXAMPLE:

City or Township	Number of Improved Commercial Units	Code Numbers	Sequence Number	Entry on Rolls
Franklin Twp.	4	1-4	2	2
Pleasant View	60	5-64	41	37
Jackson Twp.	9	65-73		
Johnston	100	74-173	80,119,158	7,46,85
Polk Twp.	10	174-183		
Washington Twp.	14	184-197	197	14
Maryville	106	198-303	236,275	39,78
Camden Twp.	10	304-313		
Salem	84	314-397	314,353	1,40
Total	397			

1. The department appraiser shall locate the property to be appraised by finding the relationship between the sequence numbers and the code numbers and identify the property.

EXAMPLE: The first sequence number is 2. Since the improved commercial properties in Franklin Township have been assigned code numbers 1 to 4, sequence number 2 is in that location.

To identify this property, examine the Franklin Township assessment roll book and stop at the second improved commercial entry.

The department appraiser shall document the parcel number, owner's name, and legal description of this property.

2. The department appraiser shall appraise the property selected unless it is ineligible because of any of the following restrictions:

Vacant building

Current year sale

Partial assessment

Prior equalization appraisal

Tax-exempt

Only one portion of a total property unit (example—a parking lot of a grocery store)

Value established by court action

Value is not more than $5,000

Building on leased land

3. The department appraiser shall determine a substitute property if the originally selected one is ineligible. In ascending order, select code numbers until an eligible property is found.

EXAMPLE: If code number 2 is ineligible, use code number 3 as a substitute. If code number 3 is ineligible, use code number 4, etc., until an eligible property is found.

If the procedure described in 71.12(3)*"c"*(3)"3" moves the substitute property to a city or township, select substitute code numbers in descending order until an eligible property is found.

If the procedure described in the previous paragraph moves the substitute property to a preceding city or township, go back to the procedure of 71.12(3)*"c"*(3)"3" even if it moves the substitute property to a subsequent city or township.

4. Select an alternate property for the originally selected property which also would be eligible. This is necessary because at the time of appraisal the property may be found to be ineligible due to one of the restrictions in 71.12(3)*"c"*(3)"2." Alternate properties are selected by using the same procedure described in 71.12(3)*"c"*(3)"3."

5. Follow procedures 71.12(3)*"c"*(3), items "1" to "4," for each of the other originally selected sequence numbers.

71.12(4) *Industrial real estate.* It is not possible to determine the level of assessment of industrial real estate by using accepted equalization methods. The lack of sales data precludes the use of an assessment/sales ratio study, the diverse nature of industrial real estate precludes the use of a countywide or citywide income capitalization study, and the limited number of industrial properties precludes the use of sample appraisals. The level of assessment of industrial real estate can only be determined by the valuation of individual parcels of industrial real estate. Any attempt to equalize industrial valuations by using accepted equalization methods would create an arbitrary result. However, under the circumstances set forth in Iowa Code subsection 421.17(10), the director may correct any errors in such assessments which are brought to the director's attention.

71.12(5) *Personal property.* Rescinded IAB 10/25/95, effective 11/29/95.

71.12(6) *Centrally assessed property.* Property assessed by the director of revenue pursuant to Iowa Code chapters 428 and 433 to 438, inclusive, is equalized internally by the director in the making of the assessments. Further, the assessments are equalized with the aggregate valuations of other classes of property as a result of actions taken by the director of revenue pursuant to rule 71.11(441).

71.12(7) *Miscellaneous real estate.* Since it is not possible to use accepted equalization methods to determine the level of assessment of mineral rights and interstate railroad and toll bridges, these classes of property shall not be subject to equalization by the director of revenue. However, under the circumstances

set forth in Iowa Code section 421.17(10), the director may correct any errors in assessments which are brought to the director's attention.

This rule is intended to implement Iowa Code sections 441.21, 441.47, 441.48 and 441.49.

[**ARC 7726B**, IAB 4/22/09, effective 5/27/09]

701—71.13(441) Tentative equalization notices. Prior to the issuance of the final equalization order to each county auditor, a tentative equalization notice providing for proposed percentage adjustments to the aggregate valuations of classes of property as set forth in rule 701—71.12(441) shall be mailed to the county auditor whose valuations are proposed to be adjusted. The tentative equalization notice constitutes the ten days' notice required by Iowa Code section 441.48.

This rule is intended to implement Iowa Code sections 441.47 and 441.48.

701—71.14(441) Hearings before the director.

71.14(1) *Protests.* Written or oral protest against the proposed percentage adjustments as set forth in the tentative equalization notice issued by the director of revenue shall be made only on behalf of the affected assessing jurisdiction. The protests shall be made only by officials of the assessing jurisdiction, including, but not limited to, an assessing jurisdiction's city council or board of supervisors, assessor, or city or county attorney. An assessing jurisdiction may submit a written protest in lieu of making an oral presentation before the director, or may submit an oral protest supported by written documentation. Protests against the adjustments in valuation contained in the tentative equalization notices shall be limited to a statement of the error or errors complained of and shall include such facts as might lead to their correction. No other factors shall be considered by the director in reviewing the protests. Protests and hearings on tentative equalization notices before the director are excluded from the provisions of the Iowa Administrative Procedure Act governing contested case proceedings.

71.14(2) *Conduct of hearing.* The director shall schedule each hearing so as to allow the same amount of time within which each assessing jurisdiction can make its presentation. During the hearing each assessing jurisdiction shall be afforded the opportunity to present evidence relevant to its protest. The director or the director's designated representative shall preside at the hearing which shall be held at the time and place designated by the director or such other time and place as may be mutually agreed upon by the director and the protesting assessing jurisdiction.

This rule is intended to implement Iowa Code section 441.48.

701—71.15(441) Final equalization order. After the tentative equalization notice has been issued and an opportunity for a hearing described in rule 71.14(441) has been afforded, the director shall issue a final equalization order by mail to the county auditor. The order shall specify any percentage adjustments in the aggregate valuations of any class of property to be made effective for the county as of January 1 of the year in which the order is issued. The final equalization order shall be issued on or before October 1 unless for good cause it cannot be issued until after October 1. The final equalization order shall be implemented by the county auditor.

An assessing jurisdiction may appeal a final equalization order to the state board of tax review. The protest must be filed or postmarked not later than ten days after the date the final equalization order is issued.

This rule is intended to implement Iowa Code sections 441.48 and 441.49.

701—71.16(441) Alternative method of implementing equalization orders.

71.16(1) *Application for permission to use an alternative method.* A request by an assessing jurisdiction for permission to use an alternative method of applying the final equalization order must be made in writing to the director of revenue within ten days from the date the county auditor receives the final equalization order. The written request shall include the following information:

a. Facts evidencing the need to use an alternative method of implementing the final equalization order. Such facts shall clearly show that the proposed method is essential to ensure compliance with the provisions of Iowa Code section 441.21.

b. The exact methods to be employed in implementing the requested alternative method for each class of property.

c. The specific method of notifying affected property owners of the valuation changes.

d. Evidence that the alternative method will result in an aggregate property class valuation adjustment equivalent to that prescribed in the director's final equalization order.

The director of revenue shall review each written request for an alternative method and shall notify the assessing jurisdiction of acceptance or rejection of the proposed method by October 15. The assessing jurisdiction shall immediately inform the county auditor of the director's decision. The county auditor shall include a description of any approved alternative method in the required newspaper publication of the final equalization order. In those instances where the approved alternative method includes individual property owner notification, the publication shall not be considered proper notice to the affected property owners.

71.16(2) *Implementation of alternative method.* If an alternative method is approved by the director of revenue, any individual notification of property owners shall be completed by the assessor by not later than October 25.

71.16(3) *Appeal by property owners.* If an alternative method is approved by the director of revenue, the special session of the local board of review to hear equalization protests shall be extended to November 30. In such instances, protests may be filed up to and including November 4.

This rule is intended to implement Iowa Code section 441.49.

701—71.17(441) Special session of boards of review.

71.17(1) *Grounds for protest.* The only ground for protesting to the local board of review reconvened in special session pursuant to Iowa Code section 441.49 is that the application of the director's final equalization order results in a value greater than that permitted under Iowa Code section 441.21.

71.17(2) *Authority of board of review.* When in special session to hear protests resulting from equalization adjustments, the local board of review shall only act upon protests for those properties for which valuations have been increased as a result of the application of the director of revenue's final equalization order.

The local board of review may adjust valuations of those properties it deems warranted, but under no circumstance shall the adjustment result in a value less than that which existed prior to the application of the director's equalization order. The local board of review shall not adjust the valuation of properties for which no protests have been filed.

71.17(3) *Report of board of review.* In the report to the director of revenue of action taken by the local board of review in special session, the board of review shall report the aggregate valuation adjustments by class of property as well as all other information required by the director of revenue to determine if such actions may have substantially altered the equalization order.

71.17(4) *Meetings of board of review.* If the final equalization order does not increase the valuation of any class of property, the board of review is not required to meet during the special session. If the final equalization order increases the valuation of one or more classes of property but no protests are filed by the times specified in Iowa Code section 441.49, the board of review is not required to meet during the special session.

This rule is intended to implement Iowa Code sections 421.17(10) and 441.49.

701—71.18(441) Judgment of assessors and local boards of review. Nothing stated in these rules should be construed as prohibiting the exercise of honest judgment, as provided by law, by the assessors and local boards of review in matters pertaining to valuing and assessing of individual properties within their respective jurisdictions.

This rule is intended to implement Iowa Code sections 441.17 and 441.35.

701—71.19(441) Conference boards.

71.19(1) *Establishment and abolition of office.*

a. As referred to in Iowa Code section 441.1, the term "federal census" includes any special census conducted by the Bureau of the Census of the U.S. Department of Commerce as well as the Bureau's decennial census.

b. Within 60 days of receiving the certified results of a federal census indicating the population of a city having its own assessor has fallen below 10,000, the city council of the city shall repeal the ordinance providing for its own assessor.

c. Whenever the office of city assessor is abolished, all moneys in the assessment expense fund and the special appraiser fund shall be transferred to the appropriate accounts in the county assessor's office, and all equipment and supplies shall be transferred to the county assessor's office. Employees of the city assessor's office may, at the discretion of the county assessor, become employees of the county assessor. However, any deputy assessor of the city may not be appointed a deputy county assessor unless certified as eligible for appointment pursuant to Iowa Code sections 441.5 and 441.10.

71.19(2) *Membership.*

a. *County conference boards.* A county conference board consists of the county board of supervisors, the mayor of each incorporated city in the county whose property is assessed by the county assessor, and one member of the board of directors of each high school district in the county, provided the member is a resident of the county. Members representing school districts serve one-year terms, and the board of directors each year must notify the clerk of the conference board of its representative on the conference board. A member of the board of directors of a school district may serve on the county conference board even though the member lives in a city having its own assessor (1978 O.A.G. 466).

b. *City conference boards.* A city conference board consists of the county board of supervisors, the city council, and the entire board of directors of each school district whose property is assessed by the city assessor.

71.19(3) *Voting.*

a. Votes on matters before a conference board shall be by units as provided in Iowa Code section 441.2. At least two members of each voting unit must be present in order for the unit to cast a vote (1960 O.A.G. 226). In the event the vote of the members of a voting unit ends in a tie, that unit shall not cast a vote on the particular matter before the conference board.

b. If a member of a conference board is absent from a meeting, the member's vote may not be cast by another person, except that a mayor pro tem as provided in Iowa Code section 372.14(3) may vote for the mayor when the mayor is absent from or unable to perform official duties.

This rule is intended to implement Iowa Code section 441.2.

701—71.20(441) Board of review.

71.20(1) *Membership.*

a. *Occupation of members.* One member of the county board of review must be actively engaged in farming as that member's primary occupation. However, it is not necessary for a board of review to have as a member one licensed real estate broker and one registered architect or person experienced in the building and construction field if the person cannot be located after a good faith effort to do so has been made by the conference board (1966 O.A.G. 416). In determining eligibility for membership on a board of review, a retired person is not considered to be employed in the occupation pursued prior to retirement, unless that person remains in reasonable contact with the former occupation, including some participation in matters associated with that occupation.

b. *Residency of members.* A person must be a resident of the assessor jurisdiction served to qualify for appointment as a member of the board of review. However, a member changing assessing jurisdiction residency after appointment to the board may continue to serve on the board until the member's current term of office expires.

c. *Term of office.* The term of office of members of boards of review shall be for six years and shall be staggered as provided in Iowa Code section 441.31. In the event of the death, resignation, or

removal from office of a member of a board of review, the conference board or city council shall appoint a successor to serve the unexpired term of the previous incumbent.

d. Membership on other boards. A member of a board of review shall not at the same time serve on either the conference board or the examining board, or be an employee of the assessor's office (1948 O.A.G. 120, 1960 O.A.G. 226).

e. Number of members. A conference board or city council may at any time change the composition of a board of review to either three or five members. To reduce membership from five members to three members, the conference board or city council shall not appoint successors to fill the next two vacancies which occur (1970 O.A.G. 342). To increase membership from three members to five members, the conference board or city council shall appoint two additional members whose initial terms shall expire at such times so that no two board members' terms expire at the end of the same year. Also, the conference board or city council may increase the membership of the board of review by an additional two members if it determines that a large number of protests warrant the emergency appointments. If the board of review has ten members, not more than four additional members may be appointed by the conference board. The terms of the emergency members will not exceed two years.

f. Removal from office. A member of a board of review may be removed from office by the conference board or city council but only after specific charges have been filed by the conference board or city council.

g. Appointment of members. Members of a county board of review shall be appointed by the county conference board. Members of a city board of review shall be appointed by the city conference board in cities with an assessor or by the city council in cities without an assessor. A city without an assessor can only have a board of review if the population of the city is 75,000 or more. A city with a population of more than 125,000 may appoint a city board of review or request the county conference board to appoint a ten-member county board of review.

71.20(2) *Sessions of boards of review.*

a. It is mandatory that a board of review convene on May 1 and adjourn no later than May 31 of each year. However, if either date falls on a Saturday, Sunday, or legal holiday, the board of review shall convene or adjourn on the following Monday.

b. Extended session. If a board of review determines it will be unable to complete its work by May 31, it may request that the director of revenue extend its session up to July 15. The request must be signed by a majority of the membership of the board of review and must contain the reasons the board of review cannot complete its work by May 31. During the extended session, a board of review may perform the same functions as during its regular session unless specifically limited by the director of revenue.

c. Special session. If a board of review is reconvened by the director of revenue pursuant to Iowa Code section 421.17, the board of review shall perform those functions specified in the order of the director of revenue and shall perform no other functions.

71.20(3) *Actions initiated by boards of review.*

a. Internal equalization of assessments. A board of review in reassessment years as provided in Iowa Code section 428.4 has the power to equalize individual assessments as established by the assessor, but cannot make percentage adjustments in the aggregate valuations of classes of property (1966 O.A.G. 416). In nonreassessment years, a board of review can adjust the valuation of an entire class of property by adjusting all assessment by a uniform percentage. Nothing contained in this rule shall restrict the director from exercising the responsibilities set forth in Iowa Code section 421.17.

b. Omitted assessments. A board of review may assess for taxation any property which was not assessed by the assessor, including property which the assessor determines erroneously is not subject to taxation by virtue of enjoying an exempt status (*Talley v. Brown,* 146 Iowa 360,125 N.W. 248 (1910)).

c. Notice to taxpayers. If the value of any property is increased by a board of review or a board of review assesses property not previously assessed by the assessor, the person to whom the property is assessed shall be notified by regular mail of the board's action. The notification shall state that the taxpayer may protest the action by filing a written protest with the board of review within five days of the date of the notice. After at least five days have passed since notifying the taxpayer, the board of review

shall meet to take final action on the matter, including the consideration of any protest filed. However, if the valuations of all properties within a class of property are raised or lowered by a uniform percentage in a nonreassessment year, notice to taxpayers need be provided only by newspaper publication as described in Iowa Code section 441.35.

71.20(4) *Appeals to boards of review.*

a. A board of review may act only upon written protests which have been filed with the board of review between April 16 and May 5, inclusive. In the event May 5 falls on a Saturday or Sunday, protests filed the following Monday shall be considered to have been timely filed. Protests postmarked by May 5 or the following Monday if May 5 falls on a Saturday or Sunday shall also be considered to have been timely filed. All protests must be in writing and signed by the taxpayer or the taxpayer's authorized agent. A written request for an oral hearing must be made at the time of filing the protest and may be made by checking the appropriate box on the form prescribed by the department of revenue. Protests may be filed for previous years if the taxpayer discovers that a mathematical or clerical error was made in the assessment, provided the taxes have not been fully paid or otherwise legally discharged. The protester may combine on one form assessment protests on parcels separately assessed if the same grounds are relied upon as the basis for protesting each separate assessment. If an oral hearing is requested on more than one of the protests, the person making the combined protests may request that the oral hearings be held consecutively. A board of review may allow protests to be filed in electronic format. Protests transmitted electronically are subject to the same deadlines as written protests.

b. Grounds for protest. Taxpayers may protest to a board of review on one or more of the grounds specified in Iowa Code section 441.37. The grounds for protest and procedures for considering protests are as follows:

(1) The assessment is not equitable when compared with those of similar properties in the same assessing district. If this ground is a basis for the protest, the protest must contain the legal descriptions and assessments of the comparable properties. The comparable properties selected by the taxpayer must be located within the same assessing district as the property for which the protest has been filed (*Maytag Co. v. Partridge,* 210 N.W.2d 584 (Iowa 1973)). In considering a protest based upon this ground, the board of review should examine carefully all information used to determine the assessment of the subject property and the comparable properties and determine that those properties are indeed comparable to the subject property. It is the responsibility of the taxpayer to establish that the other properties submitted are comparable to the subject property and that inequalities exist in the assessments (*Chicago & N. W. Ry. Co. v. Iowa State Tax Commission,* 257 Iowa 1359,137 N.W.2d 246(1965)).

(2) The property is assessed at more than its actual value as defined in Iowa Code section 441.21. If this ground is used, the taxpayer must state both the amount by which the property is overassessed and the amount considered to be the actual value of the property.

(3) The property is not assessable and should be exempt from taxation. If using this ground, taxpayers must state the reasons why it is felt the property is not assessable.

(4) There is an error in the assessment. An error in the assessment would most probably involve erroneous mathematical computations or errors in listing the property. The improper classification of property also constitutes an error in the assessment. If this ground is used, the taxpayer's protest must state the specific error alleged.

A board of review must determine:

1. If an error exists, and
2. How the error might be corrected.

(5) There is fraud in the assessment. If this ground of protest is used, the taxpayer's protest must state the specific fraud alleged, and the board of review must first determine if there is validity to the taxpayer's allegation. If it is determined there is fraud in the assessment, the board of review shall take action to correct the assessment and report the matter to the director of revenue.

(6) There has been a change of value of real estate since the last assessment. The board of review must determine that the value of the property as of January 1 of the current year has changed since January 1 of the previous reassessment year. This is the only ground upon which a protest pertaining to the valuation of a property can be filed in a year in which the assessor has not assessed or reassessed the

property pursuant to Iowa Code section 428.4. In a year subsequent to a year in which a property has been assessed or reassessed pursuant to Iowa Code section 428.4, a taxpayer cannot protest to the board of review based upon actions taken in the year in which the property was assessed or reassessed (*James Black Dry Goods Co. v. Board of Review for City of Waterloo,* 260 Iowa 1269,151 N.W.2d 534 (1967); *Commercial Merchants Nat'l Bank and Trust Co. v. Board of Review of Sioux City,* 229 Iowa 1081, 296 N.W. 203 (1941)).

c. Disposition of protests. After reaching a decision on a protest, the board of review shall give the taxpayer written notice of its decision. The notice shall contain the following information:

(1) The valuation and classification of the property as determined by the board of review.

(2) If the protest was based on the ground the property was not assessable, the notice shall state whether the exemption is allowed and the value at which the property would be assessed in the absence of the exemption.

(3) The specific reasons for the board's decision with respect to the protest.

(4) That the board of review's decision may be appealed to the district court within 20 days of the board's adjournment or May 31, whichever date is later. If the adjournment date is known, the date shall be stated on the notice. If the adjournment date is not known, the notice shall state the date will be no earlier than May 31. Notice of the appeal shall be served on the chairperson, presiding officer, or clerk of the board of review after the written notice of appeal has been filed with the clerk of district court.

This rule is intended to implement Iowa Code sections 441.31 to 441.37 and Iowa Code Supplement section 441.38 as amended by 2006 Iowa Acts, House File 2794.

701—71.21(421,17A) Property assessment appeal board.

71.21(1) *Establishment, membership, and location of the property assessment appeal board.*

a. A statewide property assessment appeal board is created for the purpose of establishing a consistent, fair, and equitable property assessment appeal process. The statewide property assessment appeal board is established within the department of revenue. The board's principal office shall be in the office of the department of revenue.

b. The property assessment appeal board shall consist of three members appointed by the governor and subject to confirmation by the senate. The members shall be appointed to staggered six-year terms beginning initially on January 1, 2007, and ending as provided in Iowa Code section 69.19. Members' subsequent terms shall begin and end as provided in Iowa Code section 69.19. The governor shall appoint from the members a chairperson, subject to confirmation by the senate, of the board to a two-year term. Vacancies on the board shall be filled for the unexpired portion of the term in the same manner as regular appointments are made.

Each member of the property assessment appeal board shall be qualified by virtue of at least two years' experience in the area of government, corporate, or private practice relating to property appraisal and property tax administration. One member of the board shall be a certified real estate appraiser or hold a professional appraisal designation, one member shall be an attorney practicing in the area of state and local taxation or property tax appraisals, and one member shall be a professional with experience in the field of accounting or finance and with experience in state and local taxation matters. No more than two members of the board may be from the same political party as that term is defined in Iowa Code section 43.2.

c. The property assessment appeal board shall organize by appointing a secretary who shall take the same oath of office as the members of the board. The board may employ additional personnel as it finds necessary. All personnel employed by the board shall be considered state employees and are subject to the merit system provisions of Iowa Code chapter 8A, subchapter IV.

71.21(2) *Powers and duties of the board.* The property assessment appeal board shall:

a. Review any final decision, finding, ruling, determination, or order of a local board of review relating to assessment protests, valuation, or application of an equalization order.

b. Affirm, reverse, or modify a final decision, finding, ruling, determination, or order of a local board of review.

c. Order the payment or refund of property taxes in a matter over which the board has jurisdiction.

d. Grant other relief or issue writs, orders, or directives that the board deems necessary or appropriate in the process of disposing of a matter over which the board has jurisdiction.

e. Subpoena documents and witnesses and administer oaths.

f. Adopt administrative rules pursuant to Iowa Code chapter 17A for the administration and implementation of its powers, including rules for practice and procedure for protests filed with the board, the manner in which hearings on appeals of assessments shall be conducted, filing fees to be imposed by the board, and for the determination of the correct assessment of property which is the subject of an appeal.

g. Adopt administrative rules pursuant to Iowa Code chapter 17A necessary for the preservation of order and the regulation of proceedings before the board, including forms or notice and the service thereof, which rules shall conform as nearly as possible to those in use in the courts of this state.

h. If an appeal to district court is taken from the action of the property assessment appeal board, notice of appeal shall be served as an original notice on the secretary of the board after the written notice of appeal has been filed with the clerk of district court.

71.21(3) *General counsel.* The property assessment appeal board shall employ a competent attorney to serve as its general counsel, and assistants to the general counsel as it finds necessary for the full and efficient discharge of its duties. The general counsel is the attorney for, and legal advisor of, the board. The general counsel or an assistant to the general counsel shall provide the necessary legal advice to the board in all matters and shall represent the board in all actions instituted in a court challenging the validity of a rule or order of the board. The general counsel shall devote full time to the duties of the office. During employment as general counsel to the board, the counsel shall not be a member of a political committee, contribute to a political campaign, participate in a political campaign, or be a candidate for partisan political office. The general counsel and assistants to the general counsel shall be considered state employees and are subject to the merit system provisions of Iowa Code chapter 8A, subchapter IV.

71.21(4) *Compensation.* The members of the property assessment appeal board shall receive compensation from the state commensurate with the salary of a district judge. The members of the board shall be considered state employees for purposes of salary and benefits and are subject to the merit system provisions of Iowa Code chapter 8A, subchapter IV. Members of the board and any employees of the board, when required to travel in the discharge of official duties, shall be paid their actual and necessary expenses incurred in the performance of their duties.

71.21(5) *Appeal board review committee.* Effective January 1, 2012, a property assessment appeal board review committee is established. Staffing assistance to the committee shall be provided by the department of revenue. The committee shall consist of six members of the general assembly, two appointed by the majority leader of the senate, one appointed by the minority leader of the senate, two appointed by the speaker of the house of representatives, and one appointed by the minority leader of the house of representatives; the director of revenue or the director's designee; a county assessor appointed by the Iowa state association of counties; and a city assessor appointed by the Iowa league of cities.

The property assessment appeal board review committee shall review the activities of the property assessment appeal board since its inception. The review committee may recommend the revision of any rules, regulations, directives, or forms relating to the activities of the property assessment appeal board.

The review committee shall report to the general assembly by January 15, 2013. The report shall include any recommended changes in laws relating to the property assessment appeal board, the reasons for the committee's recommendations, and any other information the committee deems advisable.

71.21(6) *Applicability and scope.* These subrules set forth herein govern the proceedings for all cases in which the property assessment appeal board (board) has jurisdiction to hear appeals from the action of a local board of review. For the purpose of these subrules, the following definitions shall apply:

"Appellant" means the party filing the notice of appeal with the secretary of the property assessment appeal board.

"Board" means the property assessment appeal board as created by chapter 150 of the Acts of the Eighty-first General Assembly and governed by Iowa Code chapter 17A and sections 421.1A and 441.37A.

"Department" means the Iowa department of revenue.

"Local board of review" means the board of review as defined by Iowa Code section 441.31.

"Party" means a property owner, an aggrieved taxpayer, an assessor, an appellant or an appellee in an appeals process before the board.

"Presiding officer" means the chairperson, member or members of the property assessment appeal board who preside over an appeal of proceedings before the property assessment appeal board.

"Secretary" means the secretary for the property assessment appeal board.

71.21(7) *Appeal and jurisdiction.* Notice of appeal confers jurisdiction for the board. The procedure for appeals and parameters for jurisdiction are as follows:

a. Jurisdiction is conferred upon the board by written notice of appeal given to the secretary. The written notice of appeal shall include a petition setting forth the basis of the appeal and the relief sought. The written notice of appeal shall be filed with the secretary within 20 days after the postmarked date of the disposition of the protest by the local board of review. Appeals postmarked within 20 days after the postmarked date of the disposition of the protest by the local board of review shall also be considered to have been timely filed. The appellant may appeal the action of the board of review relating to protests of assessment, valuation, or the application of an equalization order. A party may request to participate by telephone in any hearing before the board.

b. The notice of appeal must be proper in format and content as set forth in subrule 71.21(9), which governs the notice of appeal. Notice of appeal may be delivered in person, mailed by first-class mail, or delivered to an established courier service for immediate delivery to the secretary of the board. The mailing address for the board is Secretary of the Property Assessment Appeal Board, 401 SW 7th Street, Suite D, Des Moines, Iowa 50309-4634.

71.21(8) *Scope of review.* The board shall determine anew all questions arising before the local board of review which relate to the liability of the property to assessment or the amount thereof. The board will consider only those grounds set out in the protest to the local board of review. However, additional evidence may be introduced in the board proceedings relevant to the grounds set out in the protest. The board shall afford each party an opportunity to present briefs and oral arguments. There shall be no presumption as to the correctness of the valuation of the assessment appealed from.

71.21(9) *Form of appeal.* The written notice of appeal shall contain a caption in the following form:

THE PROPERTY ASSESSMENT APPEAL BOARD
401 SW 7th STREET, SUITE D
DES MOINES, IOWA 50309-4634

IN THE MATTER OF _____ (Appellant's name and address)	NOTICE OF APPEAL and PETITION DOCKET NO. _____ (Docket No. assigned by board)

The notice of appeal shall include:

a. The appellant's name and mailing address;

b. A copy of the petition to the local board of review;

c. Copies of all evidence submitted to the local board of review in support of the petition to the local board of review;

d. A copy of the postmarked envelope and a copy of the letter of disposition by the local board of review;

e. A short and plain statement of the claim showing that the appellant is entitled to relief;

f. The relief sought; and

g. The signature of the appealing party or the party's legal representative.

To have legal representation before the board, a party must file a valid and complete power of attorney form as provided by the board or in compliance with the power of attorney form provided by the board.

71.21(10) *Notice to local board of review.* The secretary shall mail a copy of the appellant's written notice of appeal and petition to the local board of review whose decision is being appealed. Notice to all affected taxing districts shall be deemed to have been given when written notice is provided to the local board of review.

71.21(11) *Certification by local board of review.* Within 14 days after notice of appeal is given, the local board of review shall certify to the board all records, documents, or reports, or disposition order or directive from which an appeal is taken, the complete property record card for the subject property, the protest hearing minutes of the local board of review kept pursuant to Iowa Code chapter 21, and all other pertinent information.

The local board of review shall submit to the board in writing the name, address, and telephone number of the attorney representing the local board of review before the board. The local board of review may make a written request for additional time to certify a copy of its record to the board.

71.21(12) *Docketing.* Appeals shall be assigned consecutive docket numbers. Records consisting of the case name and the corresponding docket number assigned to the case must be maintained by the secretary. The records of each case shall also include each action and each act done, with the proper dates as follows:

a. The title of the appeal including jurisdiction and parcel identification number;

b. Brief statement of the grounds for the appeal and the relief sought;

c. Postmarked date of the local board of review's letter of disposition;

d. The manner and date/time of service of notice of appeal;

e. Date of notice of hearing;

f. Date of hearing; and

g. The decision by the board, or other disposition of the case, and date thereof.

71.21(13) *Appearances.* A party may appear in person, by legal representative or through an attorney. In order to be considered the legal representative before the board, a valid power of attorney form as provided by the board or in compliance with the power of attorney form provided by the board must be properly completed and filed with the board. An attorney shall file an appearance. All orders, correspondence, or other documents shall be served on the designated individual.

71.21(14) *Filing of papers.* After the notice of appeal and petition have been filed, either in person , mailed by first-class mail, or delivered to an established courier service for immediate delivery, all motions, pleadings, briefs, and other papers to be filed shall be filed with the secretary at 401 SW 7th Street, Suite D, Des Moines, Iowa 50309-4634. Motions, pleadings, briefs, and other papers to be filed with the board shall be delivered in person, mailed by first-class mail, or delivered to an established courier service. Parties shall also send copies to all other parties of record, unless represented by counsel of record, and then to such counsel.

a. For most filings in a docket made with the board, only an original is required.

b. For exhibits and other documents to be introduced at hearing, an original plus two copies are required.

c. The board or presiding officer may request additional copies.

71.21(15) *Motions.* All motions shall be in writing, shall be filed with the secretary and shall contain the reasons and grounds supporting the motion. The board shall act upon such motions as justice may require. Motions based on matters which do not appear of record shall be supported by affidavit. Any party may file a written response to a motion no later than 10 days from the date the motion is filed, unless the time period is extended or shortened by the board or presiding officer.

71.21(16) *Authority of board to issue procedural orders.* The board may issue preliminary orders regarding procedural matters. The secretary shall mail copies of all procedural orders to the parties.

71.21(17) *Members participating.* An appeal may be reviewed and considered by less than a majority of the members of the board, and the chairperson of the board may assign members to consider appeals. Orders and decisions shall be signed by one member of the board and shall name participating members. Decisions shall affirm, modify, or reverse the decision, order, or directive from which an appeal was made. In order for the decision to be valid, a majority of the board must concur on the decision on appeal.

71.21(18) *Notice of hearing.* Unless otherwise designated by the board, the hearing shall be held in the hearing room of the board at 401 SW 7th Street, Suite D, Des Moines, Iowa. All hearings are open to the public. If a hearing is requested, the secretary shall mail a notice of hearing to the parties at least 30 days prior to the hearing. The notice of hearing shall contain the following information:

a. A statement of the date, time, and place of the hearing;

b. A statement of legal authority and jurisdiction under which the hearing is to be held;

c. A reference to the particular sections of the statutes and rules involved;

d. That the parties may appear and present oral arguments;

e. That the parties may submit evidence and briefs;

f. That the hearing will be electronically recorded by the board;

g. That a party may obtain a certified court reporter for the hearing at the party's own expense;

h. That audio visual aids and equipment are to be provided by the party intending to use them;

i. A statement that, upon submission of the appeal, the board will take the matter under advisement. A letter of disposition will be mailed to the parties; and

j. A compliance notice required by the Americans with Disabilities Act (ADA).

71.21(19) *Transcript of hearing.* All hearings shall be electronically recorded. Any party may provide a certified court reporter at the party's own expense. Any party may request a transcription of the hearing. The board reserves the right to impose a charge for copies and transcripts.

71.21(20) *Continuance.* Any hearing may be continued for "good cause." Requests for continuance prior to the hearing shall be in writing and promptly filed with the secretary of the board immediately upon "the cause" becoming known. An emergency oral continuance may be obtained from the board or presiding officer based on "good cause" and at the discretion of the board or presiding officer. In determining whether to grant a continuance, the board or presiding officer may consider:

a. Prior continuances;

b. The interests of all parties;

c. The likelihood of informal settlement;

d. The existence of an emergency;

e. Any objection;

f. Any applicable time requirements;

g. The existence of a conflict in the schedules of counsel, parties, or witnesses;

h. The timeliness of the request; and

i. Other relevant factors.

71.21(21) *Telephone proceedings.* The board, at its discretion and based on "good cause," may conduct a telephone conference in which all parties have an opportunity to participate. The board will determine the location of the parties and witnesses for telephone hearings. The convenience of the witnesses or parties, as well as the nature of the case, will be considered when the location is chosen.

71.21(22) *Disqualification of board member.* A board member or members must, on their own motion or on a motion from a party in the proceeding, withdraw from participating in an appeal if there are circumstances that warrant disqualification.

a. A board member or members shall withdraw from participation in the making of any proposed or final decision in an appeal before the board if that member is involved in one of the following circumstances:

(1) Has a personal bias or prejudice concerning a party or a representative of a party;

(2) Has personally investigated, prosecuted, or advocated in connection with the appeal, the specific controversy underlying that appeal, or another pending factually related matter, or a pending factually related controversy that may culminate in an appeal involving the same parties;

(3) Is subject to the authority, direction, or discretion of any person who has personally investigated, prosecuted, or advocated in connection with that matter, the specific controversy underlying the appeal, or a pending factually related matter or controversy involving the same parties;

(4) Has acted as counsel to any person who is a private party to that proceeding within the past two years;

(5) Has a personal financial interest in the outcome of the appeal or any other significant personal interest that could be substantially affected by the outcome of the appeal;

(6) Has a spouse or relative within the third degree of relationship who:

1. Is a party to the appeal, or an officer, director or trustee of a party;

2. Is a lawyer in the appeal;

3. Is known to have an interest that could be substantially affected by the outcome of the appeal; or

4. Is likely to be a material witness in the appeal; or

(7) Has any other legally sufficient cause to withdraw from participation in the decision making in that appeal.

b. Motion for disqualification. If a party asserts disqualification on any appropriate ground, including those listed in paragraph *"a,"* the party shall file a motion supported by an affidavit pursuant to Iowa Code section 17A.11. The motion must be filed as soon as practicable after the reason alleged in the motion becomes known to the party. If, during the course of the hearing, a party first becomes aware of evidence of bias or other grounds for disqualification, the party may move for disqualification, but must establish the grounds by the introduction of evidence into the record.

If a majority of the board determines that disqualification is appropriate, the board member shall withdraw. If a majority of the board determines that withdrawal is not required, the board shall enter an order to that effect. A party asserting disqualification may seek an interlocutory appeal and a stay as provided under 701—Chapter 7.

c. The term "personally investigated" means taking affirmative steps to interview witnesses directly or to obtain documents or other information directly. The term "personally investigated" does not include general direction and supervision of assigned investigators, unsolicited receipt of information which is relayed to assigned investigators, review of another person's investigative work product in the course of determining whether there is probable cause to initiate a proceeding, or exposure to factual information while performing other functions of the board, including fact gathering for purposes other than investigation of the matter which culminates in an appeal. Factual information relevant to the merits of an appeal received by a person who later serves as presiding officer or a member of the board shall be disclosed if required by Iowa Code section 17A.11 and this rule.

d. Withdrawal. In a situation where a presiding officer or any other board member knows of information which might reasonably be deemed to be a basis for disqualification and decides voluntary withdrawal is unnecessary, that person shall submit the relevant information for the record by affidavit and shall provide for the record a statement of the reasons for the determination that withdrawal is unnecessary.

71.21(23) *Consolidation and severance.* A majority of the board may determine, in its discretion, if consolidation or severance of issues or proceedings should be performed in order to efficiently resolve matters on appeal before the board.

a. *Consolidation.* The presiding officer may consolidate any or all matters at issue in two or more appeal proceedings where:

(1) The matters at issue involve common parties or common questions of fact or law;

(2) Consolidation would expedite and simplify consideration of the issues involved; and

(3) Consolidation would not adversely affect the rights of any of the parties to those proceedings.

b. *Severance.* The presiding officer may, for good cause shown, order any appeal proceedings or portions of the proceedings severed.

71.21(24) *Withdrawal.* An appellant may withdraw the appeal prior to the hearing. Such a withdrawal of an appeal must be in writing and signed by the appellant or the appellant's legal representative. Unless otherwise provided, withdrawal shall be with prejudice and the appellant shall not be able to refile the appeal. Within 20 days of the board granting a withdrawal of appeal, the appellant may make a motion to reopen the file and rescind the withdrawal based upon fraud, duress, undue influence, or mutual mistake.

71.21(25) *Prehearing conference.* An informal conference of parties may be ordered at the discretion of the board or presiding officer or at the request of any party for any appropriate purpose. Any agreement reached at the conference shall be made a part of the record in the manner directed by the board or presiding officer.

71.21(26) *Hearing procedures.* A party to the appeal may request a hearing, or the appeal may proceed without a hearing. The local board of review may be present and participate at such hearing.

a. Authority of presiding officer. The presiding officer presides at the hearing and may rule on motions, require briefs, issue a decision, and issue such orders and rulings as will ensure the orderly conduct of the proceedings.

b. Representation. Parties to the appeal have the right to participate or to be represented in all hearings. Any party may be represented by an attorney or another person authorized by law. To have legal representation before the board, a party must complete a power of attorney form as provided by the board or in compliance with the power of attorney form provided by the board.

c. Participation in hearing. The parties to the appeal have the right to introduce evidence relevant to the grounds set out in the protest to the local board of review. Subject to terms and conditions prescribed by the presiding officer, parties have the right to introduce evidence on issues of material fact, cross-examine witnesses present at the hearing as necessary for a full and true disclosure of the facts, present evidence in rebuttal, and submit briefs and engage in oral argument.

d. Decorum. The presiding officer shall maintain the decorum of the hearing and may refuse to admit or may expel anyone whose conduct is disorderly.

e. Conduct of the hearing. The presiding officer shall conduct the hearing in the following manner:

(1) The presiding officer shall give an opening statement briefly describing the nature of the proceedings;

(2) The parties shall be given an opportunity to present opening statements;

(3) The parties shall present their cases in the sequence determined by the presiding officer;

(4) Each witness shall be sworn or affirmed by the presiding officer and shall be subject to examination and cross-examination. The presiding officer may limit questioning in a manner consistent with law; and

(5) When all parties and witnesses have been heard, parties may be given the opportunity to present final arguments.

71.21(27) *Discovery*

a. Discovery procedure. Discovery procedures applicable in civil actions are available to parties in cases before the board. Unless lengthened or shortened by these rules, the board or presiding officer, time periods for compliance with discovery shall be as provided in the Iowa Rules of Civil Procedure.

b. Discovery motions. Prior to filing any motion related to discovery, parties shall make a good-faith effort to resolve discovery disputes without the involvement of the board or presiding officer. Any motion related to discovery shall allege that the moving party has made a good-faith attempt to resolve the discovery issues involved with the opposing party. Opposing parties shall be given the opportunity to respond within 10 days of the filing of the motion unless the time is shortened by order of the board or presiding officer. The board or presiding officer may rule on the basis of the written motion and any response or may have a hearing or other proceedings on the motion.

c. Admissibility of evidence. Evidence obtained in discovery may be used in the case proceeding if that evidence would otherwise be admissible in that proceeding.

71.21(28) *Subpoenas*

a. Issuance of Subpoena for Witness.

(1) An agency subpoena shall be issued to a party on request. The request shall be in writing and include the name, address, and telephone number of the requesting party. In absence of good cause for permitting later action, a request for subpoena must be received at least 10 days before the scheduled hearing.

(2) Except to the extent otherwise provided by law, parties are responsible for service of their own subpoenas and payment of witness fees and mileage expenses.

b. Issuance of Subpoena for Production of Documents.

(1) An agency subpoena shall be issued to a party on request. The request shall be in writing and include the name, address, and telephone number of the requesting party. In absence of good cause for permitting later action, a request for subpoena must be received at least 20 days before the scheduled hearing.

(2) Except to the extent otherwise provided by law, parties are responsible for service of their own subpoenas.

c. Motion to quash or modify. Upon motion, the board or presiding officer may quash or modify a subpoena for any lawful reason.

71.21(29) *Evidence.*

a. Admissibility. The presiding officer shall rule on admissibility of evidence and may take official notice of facts in accordance with all applicable requirements of law.

b. Stipulations. Stipulation of facts by the parties is encouraged. The presiding officer may make a decision based on stipulated facts.

c. Scope of admissible evidence. Evidence in the proceeding shall be confined to the issues contained in the notice from the board prior to the hearing, unless the parties waive their right to such notice or the presiding officer determines that good cause justifies expansion of the issues. Admissible evidence is that which, in the opinion of the board, is determined to be material, relevant, or necessary for the making of a just decision. Irrelevant, immaterial or unduly repetitious evidence may be excluded. A finding shall be based upon the kind of evidence on which reasonably prudent persons are accustomed to rely for the conduct of their serious affairs, and may be based upon such evidence even if it would be inadmissible in a jury trial. Hearsay evidence is admissible. The rules of privilege apply in all proceedings before the board.

d. Exhibits and briefs. The party seeking admission of an exhibit must provide an opposing party with an opportunity to examine the exhibit prior to the ruling on its admissibility. Copies of documents to be used as evidence shall be provided to the opposing party at least 10 days prior to the hearing, unless the time period is extended or shortened by the board or presiding officer. All exhibits and briefs admitted into evidence shall be appropriately marked and be made part of the record. The appellant shall mark exhibits with consecutive numbers. The appellee shall mark exhibits with consecutive letters.

e. Objections. Any party may object to specific evidence or may request limits on the scope of examination or cross-examination. Such an objection shall be accompanied by a brief statement of the grounds upon which the objection is based. The objection, the ruling on the objection, and the reasons for the ruling shall be noted in the record. The presiding officer may rule on the objection at the time it is made or may reserve a ruling until the written decision.

f. Offers of proof. Whenever evidence is ruled inadmissible, the party offering that evidence may submit an offer of proof on the record. The party making the offer of proof for excluded oral testimony shall briefly summarize the testimony or, with permission of the presiding officer, present the testimony. If the excluded evidence consists of a document or exhibit, it shall be marked as part of an offer of proof and inserted in the record.

71.21(30) *Settlements.* Parties to a case may propose to settle all or some of the issues in the case at any time prior to the issuance of a final decision. The board or presiding officer will not approve settlements unless the settlement is reasonable in light of the whole record, consistent with law, and in the public interest. Board adoption of a settlement constitutes the final decision of the board on issues addressed in the settlement.

71.21(31) *Appeals records.* The record of the appeal is maintained at the office of the board. Unless the record is held confidential, parties and members of the public may examine the record and obtain copies of documents.

71.21(32) *Motion to reopen records.* The board or presiding officer, on the board's or presiding officer's own motion or on the motion of a party, may reopen the record for the reception of further evidence. A motion to reopen the record may be made anytime prior to the issuance of a final decision.

71.21(33) *Rehearaing and reconsideration.*

a. Application for rehearing or reconsideration. Any party to a case may file an application for rehearing or reconsideration of the final decision. The application for rehearing or reconsideration shall be filed within 20 days after the final decision in the case is issued.

b. Contents of application. Applications for rehearing or reconsideration shall specify the findings of fact and conclusions of law claimed to be erroneous, with a brief statement of the alleged grounds of error. Any application for rehearing or reconsideration asserting that evidence has arisen since the final order was issued as a ground for rehearing or reconsideration shall present the evidence by affidavit that

includes an explanation of the competence of the person to sponsor the evidence and a brief description of the evidence sought to be included.

c. *Notice to other parties.* A copy of the application shall be timely mailed by the applicant to all parties of record not joining therein. If the application does not contain a certificate of service, the board shall serve copies on all parties.

d. *Requirements for objections to applications for rehearing or reconsideration.* An answer or objection to an application for rehearing or reconsideration must be filed within 14 days of the date the application was filed with the board, unless otherwise ordered by the board.

e. *Disposition.* Any application for a rehearing shall be deemed denied unless the board grants the application within 20 days after its filing.

71.21(34) *Dismissal.* If a party fails to appear or participate in an appeal hearing after proper service of notice, the presiding officer may dismiss the appeal unless a continuance is granted for good cause. If an appeal is dismissed for failure to appear, the board shall have no jurisdiction to consider any subsequent appeal on the appellant's protest.

71.21(35) *Waivers.*

a. In response to a request, or on its own motion, the board may grant a waiver from a rule adopted by the board, in whole or in part, as applied to a specific set of circumstances, if the board finds, based on clear and convincing evidence, that:

(1) The application of the rule would pose an undue hardship on the person for whom the waiver is requested;

(2) The waiver would not prejudice the substantial rights of any person;

(3) The provisions of the rule subject to a petition for waiver are not specifically mandated by statute or another provision of law; and

(4) Substantially equal protection of public health, safety, and welfare will be afforded by means other than that prescribed in the rule for which the waiver is requested.

b. Persons requesting a waiver may submit their request in writing. The waiver request must state the relevant facts and reasons the requester believes will justify the waiver, if the reasons have not already been provided to the board in another pleading.

c. Grants or denials of waiver requests shall contain a statement of the facts and reasons upon which the decision is based. The board may condition the grant of the waiver on such reasonable conditions as appropriate to achieve the objectives of the particular rule in question. The board may at any time cancel a waiver upon appropriate notice and opportunity for hearing.

71.21(36) *Appeals of board decisions.* A party may seek judicial review of a decision rendered by the board by filing a written notice of appeal with the clerk of the district court within 20 days after the letter of disposition of the appeal by the board is mailed to the appellant.

71.21(37) *Time requirements.* Time shall be computed as provided in Iowa Code section 4.1(34).

71.21(38) *Judgment of the board.* Nothing stated in this rule should be construed as prohibiting the exercise of honest judgment, as provided by law, by the board in matters pertaining to valuation and assessment of individual properties.

This rule is intended to implement Iowa Code sections 421.1, 421.1A, 421.2, 441.37A, 441.38 and 441.49 and chapter 17A.

701—71.22(428,441) Assessors.

71.22(1) *Conflict of interest.* An assessor shall not act as a private appraiser, or as a real estate broker or option agent in the jurisdiction in which serving as assessor (1976 O.A.G. 744).

71.22(2) *Listing of property.*

a. Forms. Assessors may design and use their own forms in lieu of those prescribed by the department of revenue provided that the forms contain all information contained on the prescribed form, are not substantially different from the prescribed form, and are approved by the director of revenue.

b. Assessment rolls. Assessment rolls must be prepared in duplicate for each property in a reassessment year as defined in Iowa Code section 428.4. However, the copy of the roll does not have to

be issued to a taxpayer unless there is a change in the assessment or the taxpayer requests the issuance of the duplicate copy.

c. Whenever a date specified in Iowa Code chapter 441 falls on a Saturday, Sunday, or legal holiday, the action required to be completed on or before that date shall be considered to have been timely completed if performed on or before the following day which is not a Saturday, Sunday, or holiday.

d. Buildings erected or improvements made by a person other than the owner of the land on which they are located are to be assessed to the owner of the buildings or improvements. Unpaid taxes are a lien on the buildings or improvements and not a lien on the land on which they are located.

71.22(3) *Notice of protest.* If a protest or appeal is filed with the board of review, property assessment appeal board, or district court against the assessment of property valued at $5 million or more, the assessor shall provide notice to the school district in which the property is located within ten days of the filing of the protest or the appeal, as applicable.

This rule is intended to implement Iowa Code chapter 428 and Iowa Code chapter 441 as amended by 2006 Iowa Acts, House File 2797.

701—71.23 and **71.24** Reserved.

701—71.25(441,443) Omitted assessments.

71.25(1) *Property subject to omitted assessment.*

a. Land and buildings. An omitted assessment can be made only if land or buildings were not listed and assessed by the assessor. The failure to list and assess an entire building is an omission for which an omitted assessment can be made even if the land upon which the building is located has been listed and assessed. See *Okland v. Bilyeu,* 359 N.W.2d 412 (Iowa 1984). However, the failure to consider the value added as a result of an improvement made does not constitute an omission for which an omitted assessment can be made if the building or land to which the improvement was made has been listed and assessed.

b. Previously exempt property. Property which has been erroneously determined to be exempt from taxation may be restored to taxation by the making of an omitted assessment. See *Talley v. Brown,* 146 Iowa 360, 125 N.W. 243 (1910). An omitted assessment is also made to restore to taxation previously exempt property which ceases to be eligible for an exemption.

71.25(2) *Officials authorized to make an omitted assessment.*

a. Local board of review. A local board of review may make an omitted assessment of property during its regular session only if the property was not listed and assessed as of January 1 of the current assessment year. For example, during its regular session which begins May 1, 1986, a local board of review may make an omitted assessment only of property that was not assessed by the assessor as of January 1, 1986. During that session, the board of review could not make an omitted assessment for an assessment year prior to 1986.

b. County auditor and local assessor. The county auditor and local assessor may make an omitted assessment. However, no omitted assessment can be made by the county auditor or local assessor if taxes based on the assessment year in question have been paid or otherwise legally discharged. For example, if a tract of land was listed and assessed and taxes levied against that assessment have been paid or legally discharged, no omitted assessment can be made of a building located upon that tract of land even though the building was not listed and assessed at the time the land was listed and assessed. See *Okland v. Bilyeu,* 359 N.W.2d 412, 417 (Iowa 1984).

c. County treasurer. The county treasurer may make an omitted assessment within two years from the date the tax list which should have contained the assessment should have been delivered to the county treasurer. For example, for the 1999 assessment year, the tax list is to be delivered to the county treasurer on or before June 30, 2000. Thus, the county treasurer may make an omitted assessment for the 1999 assessment year at any time on or before June 30, 2002. The county treasurer may make an omitted assessment of a building even if taxes levied against the land upon which the building is located have been paid or legally discharged. See *Okland v. Bilyeu,* 359 N.W.2d 412, 417 (Iowa 1984). The county

treasurer may not make an omitted assessment if the omitted property is no longer owned by the person who owned the property on January 1 of the year the original assessment should have been made.

d. Director of revenue. The director of revenue may make an omitted assessment of any property assessable by the director at any time within two years from the date the assessment should have been made.

This rule is intended to implement Iowa Code chapter 440 and sections 443.6 through 443.15 as amended by 1999 Iowa Acts, chapter 174.

701—71.26(441) Assessor compliance. The assessor shall determine the value of real property in accordance with rules adopted by the department of revenue and in accordance with forms and guidelines contained in the Iowa Real Property Appraisal Manual prepared by the department. The assessor may use an alternative manual to value property if it is a unique type of property not covered in the manual prepared by the department.

If the department finds that an assessor is not in compliance with the rules of the department relating to valuation of property or has disregarded the forms and guidelines contained in the real property appraisal manual, the department shall notify the assessor and each member of the conference board for that assessing jurisdiction. The notice shall be mailed by restricted certified mail and shall specify the areas of noncompliance and the steps necessary to achieve compliance. The notice shall also inform the assessor and conference board that if compliance is not achieved, a penalty may be imposed.

The conference board shall respond to the department within 30 days of receipt of the notice of noncompliance. The conference board may respond to the notice by asserting that the assessor is in compliance with the rules, guidelines, and forms of the department or by informing the department that the conference board intends to submit a plan of action to achieve compliance. If the conference board responds to the notification by asserting that the assessor is in compliance, a hearing before the director of revenue shall be held on the matter within 60 days of receipt of the notice of noncompliance. If it is agreed that the assessor is not in compliance, the conference board shall submit a plan of action within 60 days of receipt of the notice of noncompliance.

The plan shall contain a time frame under which compliance shall be achieved, which shall be no later than January 1 of the following assessment year. The plan of action shall contain the signature of the assessor and of the chairperson of the conference board. The department shall review the plan to determine whether the plan is sufficient to achieve compliance. Within 30 days of receipt of the plan, the department shall notify the assessor and the chairperson of the conference board that it has accepted the plan or that it is necessary to submit an amended plan of action.

By January 1 of the assessment year following the calendar year in which the plan was submitted to the department, the conference board shall submit a report to the department verifying that the plan of action was followed and compliance has been achieved. The department may conduct a field inspection to ensure that the assessor is in compliance. By January 31, the department shall notify the assessor and the conference board, by restricted certified mail, either that compliance has been achieved or that the assessor remains in noncompliance. If the department determines that the assessor remains in noncompliance, the department shall take steps to withhold up to 5 percent of the reimbursement payment authorized in Iowa Code section 425.1 until the director of revenue determines that the assessor is in compliance.

If the conference board disputes the determination of the department, the chairperson of the conference board may appeal the determination to the state board of tax review.

This rule is intended to implement Iowa Code Supplement section 441.21.

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