

**FINAL REPORT**  
**FIBER OPTICS AND TELECOMMUNICATIONS STUDY COMMITTEE**

January 1994

**AUTHORIZATION AND APPOINTMENT**

The Fiber Optics and Telecommunications Study Committee was established by the Legislative Council to "[E]valuate activities involving the Iowa Communications Network (ICN) including its management and financing. Examine the future of the ICN, including both its management and governance, ongoing financing of Parts I and II, access to the network, uses of the network, design and implementation of Part III, and financing of Part III."

Members serving on the Study Committee included:

Co-chairperson Senator Patrick J. Deluhery  
Co-chairperson Representative Ron Corbett  
Senator Eugene Fraise  
Senator James Kersten  
Senator Derryl McLaren  
Senator William Palmer  
Representative Rick Dickinson  
Representative David Millage  
Representative Mary Neuhauser  
Representative Christopher Rants  
Mr. Myron Linn  
Ms. Diane Nagle  
Ms. Mary Quass

**ICN BACKGROUND**

**Authorization**

The statutory basis and authorization for the Iowa Communications Network (ICN) is in sections 18.132 through 18.138 of the Iowa Code. Sections 18.136 and 18.137, creating the state communications network and the state communications network fund, were enacted in 1989 as part of the Conference Committee Report for House File 774, the Education appropriations bill. Section 18.136 provides that moneys in the state communications network fund are appropriated to provide financing for "procurement, operation, and maintenance of a state communications network with sufficient capacity to serve the video, data, and voice requirements of state agencies and the educational telecommunications system." The Department of General Services is charged with the responsibility for the network system

design, the implementation of the component parts of the network, and all management, operations, control switching, diagnostics, and maintenance functions of Parts I and II of the network (except certain educational telecommunications applications under the authority of the Iowa Public Broadcasting Board and the scheduling and switching of educational materials carried by Parts II and III under the authority of the community colleges). Additionally, the Telecommunications Information Management Council, which was created by Governor Terry Branstad pursuant to Executive Order Number 33 signed on August 21, 1985, is to provide general oversight for the functions under the responsibility of the Department of General Services. Currently, section 18.137 provides an annual General Fund appropriation of \$5,000,000 to the network fund through the fiscal year ending June 30, 1996.

### Structure Under the Current Statute

The Iowa Communications Network (ICN) is divided into three parts. Part I of the system consists of the communications connections between the central switch located at Camp Dodge and the regional switching centers located at each of the 15 community colleges, the three regents institutions, Iowa Public Television, and the State Capitol complex. Part II of the system consists of the communications connections between the regional switching centers located at the community colleges and the secondary switching centers or access points located in each of the remaining counties. Part III of the system consists of the communications connections between the secondary switching centers or access points and each private or public agency permitted under the statute to have access to the network. Public agencies permitted access include state agencies, school corporations, and city, regional, and county libraries. Private agencies permitted access include accredited nonpublic schools and nonprofit institutions of higher education eligible for tuition grants.

Financing for the procurement and maintenance costs for Part III of the system is to be provided 80 percent from the state and 20 percent from a local school board which elects to become a part of the system. The basis for the state match is 80 percent of the cost of a single interactive audio and one-way video for the Part III connection. The match requirement may be met with funds already spent for their system, funds available in the school's budget, or funds received from other nonstate sources. Local school boards also may elect to provide 100 percent of financing for the Part III connection or to elect not to become a part of the system. Construction of Part III may proceed prior to completion of Parts I and II, however, no state matching funds are to be made available for Part III prior to such completion. At this time, no official request or proposal has been made by a local school district to provide 100 percent of the financing. A local school board may also elect not to become a part of the system. A local school board which makes such election must annually revisit this issue and again make such election.

The Department of General Services is given the responsibility for designing the network. The Department is also given the responsibility for all management, operations, control switching, diagnostics, and maintenance functions of Parts I and II, except that the

Iowa Public Broadcasting Board (IPBB) is granted sole authority over the educational applications of Part I, including management and operational control, programming, budget, personnel, scheduling, and program switching of the educational material delivered on the system. The community colleges are responsible for scheduling switching of such materials on Parts II and III, although the IPBB is given the authority to coordinate the educational applications of Parts II and III through its Narrowcast System Advisory Committee.

The Department of General Services is directed under the statute to develop the requests for proposals needed for the construction of the state communications network which may involve the purchase, lease-purchase, or lease of the various component parts which will be a part of the network. Prior to awarding a contract, the Department is to notify the Legislative Council and the Department of Management of the intent to award the contract and the cost associated with the contract. Currently, the state is in the process of developing a Request for Proposals (RFP) for providing the necessary connection and transmission equipment for selected Part III sites. It is anticipated that the RFP will be released sometime in 1994.

#### COMMITTEE PROCEEDINGS

The Study Committee was granted two meeting days to conduct its study, and held meetings on October 8 and November 5, 1993. An additional meeting day was requested by the Study Committee and authorized by the Legislative Council, but was not used. A number of individuals testified before the Study Committee, and a number of written statements were submitted to the Study Committee in response to several requests for information and statements circulated to interested persons at the direction of the Study Committee. A list of all materials submitted to the Study Committee is attached to this report. Copies of these materials are maintained on file with the Legislative Service Bureau.

#### MEETING -- OCTOBER 8, 1993

The first meeting of the Study Committee was held on Friday, October 8, 1993, in Senate Committee Room 22 of the Statehouse. Testimony received by the Study Committee centered primarily on educational issues and applications related to the Iowa Communications Network. Testimony was also received concerning the financial performance and needs of the ICN.

Mr. Ted Chapler, Chief Executive Officer of the ICN Management Group, indicated that the current \$5 million standing limited appropriation (scheduled to end after the fiscal year ending on June 30, 1996) is not adequate and that an additional \$3.5 to \$4 million will be requested during the 1994 Legislative Session.

Mr. Phil Dunshee, Governor's Office, presented testimony regarding current educational applications of the ICN, the scheduling policy related to courses offered on the ICN and the resolution of conflicts which arise, and the Request for Proposals related to Part III of the ICN. Mr. Dunshee also outlined the policy issues which he believes must be addressed, including Part I and II funding, management and governance of the ICN, Part III development issues, operational issues related to each individual site (scheduling policy, operational and equipment costs), expanding the definition of those authorized to use the network, and other related telecommunications industry issues.

Mr. Stan Slessor, Superintendent for the Independence School District; Dr. Pam Johnson, Star Schools Project Director; and Mr. Tim Hoffman, Superintendent for the Adel-DeSoto-Minburn School District, presented a panel discussion concerning the use of the ICN in K-12 education. Mr. Slessor enumerated several issues which he characterized as critical, and which must be faced at the state and local level, including affordable access; course, teacher, and student selection; criteria for class size; lines of responsibility; teacher incentives and certification; training; and policies and procedures related to discipline. Dr. Johnson discussed the Star Schools Project (federally funded project related to distance learning initiatives) and outlined its implementation and current status. Mr. Hoffman cautioned the Study Committee that the state must focus on Part II until it is working effectively, before expanding the network; technical problems must be dealt with; students must receive credit for instruction over the network; and certified teachers should not be required in the receiving classroom.

Dr. Richard Gross, Kirkwood Community College (representing the Iowa Association of Community College Trustees); Dr. George Straun, Director of the Computation Center at Iowa State University (representing the Board of Regents); and Dr. John Hartung, Iowa Association of Independent Colleges and Universities, formed a panel and discussed the respective positions and concerns held by each association. All three speakers indicated that the ICN can be an effective tool in providing educational opportunities.

President Michael Ferrari, Drake University, appeared before the Study Committee on behalf of the Technology Commission. The Technology Commission was established by the State Board of Education to develop a strategy for using technology in the education system. He indicated that the Technology Commission did not focus on the ICN, but noted that the Commission's final report does call for the "development of technology plans that stress the data networking capabilities of the ICN as a complement to the interactive video capabilities" within the overall strategy of developing and implementing educational technology.

Dr. Johnson appeared before the Study Committee for a second time and discussed the scheduling policy currently being used for classes offered on the ICN.

Ms. Angie King, President of the Iowa State Education Association, expressed concern that her association had not been asked to be a part of the planning process given that the ICN has been touted as a way to improve the educational system in Iowa. She noted, however, that the network provides an opportunity to improve the system if appropriate resources and

training are provided, proper policies are implemented, and an appropriate governance structure is created.

Mr. Wayne Beal, Associate Executive Director of the Iowa Association of School Boards, indicated his belief that, generally, school board members are excited about the prospects for the ICN to improve educational opportunities. He tempered that statement by noting that these members have many questions concerning the ICN, including questions about financing, staff training, and curriculum.

Mr. Slessor appeared again on behalf of the School Administrators of Iowa and reiterated his earlier remarks.

At the conclusion of the first meeting, Study Committee members indicated a need to explore several additional issues at the second meeting. Members were given one week to contact the Legislative Service Bureau concerning items of information in which they were interested and agenda items which should be considered. After receipt of this input, and in consultation with the Co-chairpersons, the Legislative Service Bureau disseminated four different requests for information to various persons intended to generate the information requested by the Study Committee members. Copies of those requests are attached to this report.

#### MEETING -- NOVEMBER 5, 1993

The second and final meeting of the Study Committee was held on November 5, 1993, in Senate Committee Room 22 of the Statehouse. The Study Committee received several additional presentations and then utilized the remainder of the time for Committee discussion.

Mr. Ron Enger, Director of Media at Loess Hills Area Education Agency in Council Bluffs (representing the Area Education Agencies), testified concerning the activities of the Area Education Agencies (AEAs) with respect to the ICN. He stated that activities in which the various AEAs are engaged include the offering of staff development programs, the scheduling of workshops to be offered in the near future as new sites are connected to the "backbone" of the ICN, the offering of K-12 instruction over the ICN, as well as plans for the offering of courses during the spring semester. He noted, however, that currently only two AEAs are actually connected to the ICN. He also presented a list of recommendations concerning development of use of the ICN to enhance educational programs.

Mr. Don Miller, General Manager of the Northwest Telephone Cooperative Association, commented that "full-time presence" or "continuous presence" (the use of multiple screens allowing instructor the ability to continuously view all classroom sites) is the most critical factor with respect to distance learning technology. He noted that while several technologies are capable of providing full-time presence, cost is a major factor. He indicated

that school board members and school administrators should be consulted prior to final design of Part III of the network.

Mr. Don Porter, Iowa Western Community College (representing the Iowa Association of Community College Trustees), discussed the funding needs of the community colleges with respect to the ICN.

Mr. Kirk Norris, Iowa Hospital Association, expressed IHA's support of the network and the desire of member hospitals to be allowed access to the network. He also indicated that federal funds are available for telemedicine applications, which would be pursued.

Mr. Phil Dunshee, representing the Governor's Office, reviewed the third draft of the RFP related to Part III of the network. He also outlined the information which he believes the proposals submitted in response to the RFP should contain, and indicated that this information would be important in future decisions made by the General Assembly.

The Study Committee had received copies of 15 responses to the requests for statements and information prior to the meeting, and was provided copies of another 17 responses and statements at the meeting. (A list of documents provided to the Study Committee, in addition to the requests for information and statements, is attached.) A variety of persons and entities responded to the requests for information, including local exchange telephone companies, regulated telephone companies, various associations, educational institutions representatives, and a telecommunications consultant. The responses raised many issues for the Study Committee's consideration, including the disposition of the network, authorized users, the effect of the ICN on local exchange telephone companies, the cost of implementing Part III of the Network and operational costs, and issues related to distance learning. After Study Committee discussion of issues related to governance, funding, authorized use, and disposition of the network, the Study Committee was unable to reach a consensus regarding any of these issues. Several members of the Study Committee expressed concern about the continued expansion of the network and the costs associated with that expansion.

#### COMMITTEE RECOMMENDATION

At the conclusion of the Study Committee's discussion, the following recommendation was approved:

The Study Committee recommends that a contract for an Iowa Communications Network Part III connection not be entered into prior to Legislative review and approval during the 1994 Regular Session.

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October 1, 1993

Mr. Ted R. Chapler, Chief Executive Officer  
ICN Management Group  
LOCAL

Dear Mr. Chapler:

On behalf of Temporary Co-chairpersons Senator Deluhery and Representative Corbett and the members of the Fiber Optics and Telecommunications Study Committee, thank you for agreeing to appear before the Study Committee at it's Friday, October 8, 1993 meeting. The meeting is scheduled to begin at 10:00 a.m. in Senate Committee Room 22.

In setting the agenda for the first meeting, the Co-chairpersons have decided to focus the attention of the Committee primarily on educational issues related to the network. Specifically, to the extent possible and applicable, the Committee is interested in receiving information concerning the following:

1. The number of students receiving instruction over the network at your facility or institution.
2. The types of students receiving instruction over the network at your facility or institution. (e.g. traditional vs. nontraditional)
3. The types of courses offered over the network at your facility or institution.
4. The number of courses offered over the network at your facility or institution.
5. The cost of providing instruction over the network.
6. Any scheduling problems which have occurred with regard to instruction provided over the network.

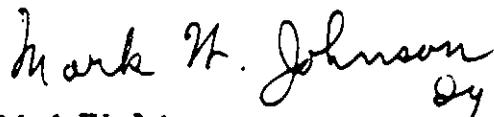
Given that these questions will not be applicable to all persons appearing before the Committee, discussion of other information or issues related to the use of the network for educational purposes is appropriate. The Committee is interested in your view of the broad overview of issues related to the network as discussed in the legislature over the past few

sessions. These issues relate to the appropriateness of using the network for interactive teaching and learning, the willingness of persons in education to adapt to new learning and teaching styles, and the receptivity of regional and national accreditation entities to innovations in this area. In addition to this broad overview of the issues, the Committee welcomes your specific recommendations on the implementation and use of the network as a statewide educational resource. Specific examples of the use of the network would also be of interest.

The Co-chairpersons strongly encourage each speaker to prepare a written statement for distribution to the Committee at the time of the presentation. If possible please provide at least 25 copies of the statement which will be enough for the Committee, staff, and the Service Bureau's permanent files. If the written statement is provided prior to the time of presentation, the Service Bureau will provide the necessary copies as our copying workload permits.

Again, thank you for your participation. I will contact during the early part of the week to confirm your place on the agenda and answer any of your questions. Of course, please feel free to contact me any time at (515) 281-3837.

Sincerely,

A handwritten signature in cursive script that reads "Mark W. Johnson" with a small flourish at the end.

Mark W. Johnson  
Legal Counsel

spkrs

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October 22, 1993

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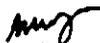
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## MEMORANDUM

**TO: PERSONS INTERESTED IN DELIBERATIONS OF THE FIBER OPTICS AND TELECOMMUNICATIONS STUDY COMMITTEE**

**FROM:**  Mark W. Johnson, Legal Counsel (515) 281-3837

**RE:** Information and Statement Request for 2nd Meeting of Study Committee

The second meeting of the Fiber Optics and Telecommunications Study Committee will be held on Friday, November 5, 1993 in Room 22 of the State Capitol Building. At the first meeting, the Committee directed its attention to educational issues related to the network. The Study Committee intends to discuss a variety of other issues concerning the network including funding and revenue options related to the construction and ongoing operation of Parts I, II, and III of the network; governance of the use and operation of the network; and operational issues related to authorized users, ownership of the network or the various parts of the network, and the future of the network.

The Co-chairpersons have determined, as a result of the discussion at the last meeting, that the time available for formal presentations will be very limited. The Co-chairpersons and the members of the Study Committee are very interested in receiving any input which you may wish to provide prior to the time of the next meeting. In an effort to facilitate the Study Committee's deliberations, I am requesting on behalf of the Study Committee any written material, position paper, or statement which you or your organization may wish to provide to the Study Committee as it works toward adoption of its final recommendations which will be forwarded to the General Assembly. Further, I am requesting that any written material, position paper, or statement which you wish to provide to the Study Committee be delivered to me no later than Friday, October 29, 1993 so that this material can be delivered in a timely fashion to the members of the Study Committee.

Additionally, you are encouraged to attend the next meeting of the Study Committee for the purpose of responding to any questions which may arise during the Committee's discussion. The Co-chairpersons anticipate that the information received and the discussion conducted at the next meeting, in addition to the information received at the first meeting, will result in a number of draft recommendations. The Co-chairpersons have requested a third meeting at which any additional information requested by the Study Committee related to the draft recommendations will be provided prior to final Study Committee action on the recommendations.

On behalf of the Co-chairpersons and the members of the Study Committee, thank you for your consideration of this request. Please contact me if you have any questions related to this request or the proceedings of the Study Committee.

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October 25, 1993

## MEMORANDUM

**TO: TED CHAPLER, CHIEF EXECUTIVE OFFICER, ICN MANAGEMENT GROUP**

**FROM: Mark W. Johnson, Legal Counsel**

**RE: Additional Information requested by Members of the Fiber Optics and Telecommunications Study Committee**

The following items of information are being requested on behalf of Co-chairpersons Senator Deluhery and Representative Corbett and the Members of the Fiber Optics and Telecommunications Study Committee. Additionally, any other comments which you would like to provide to the Study Committee related to funding issues, governance issues, operations issues, or the future of the network would be appropriate. The next meeting of the Study Committee is scheduled for Friday, November 5, 1993. I will be sending an initial packet of information to the members of the Study Committee on Friday, October 29. I would like to send any of the information requested in this memorandum which is prepared as of that date with that mailing. I would then like to send the remaining information early in the following week prior to the meeting. Please contact me if you have any questions or concerns regarding this request. On behalf of the Co-chairpersons and the Members of the Fiber Optics and Telecommunications Study Committee, thank you for your time and effort with this request.

**ADDITIONAL INFORMATION REQUESTED BY THE  
MEMBERS OF THE FIBER OPTICS AND TELECOMMUNICATIONS  
STUDY COMMITTEE**

1. Additional information concerning responding to the information requested in requests 3, 4, 7, 9, 11, and 13 of the Comprehensive Status Report of the Iowa Communications Network dated June 15, 1993, which was originally prepared for the Legislative Fiscal Committee.
2. Can the Iowa Communications Network (ICN) become a part of another private entities network (e.g. TCI)? If so, how can that best be facilitated?
3. What is the possibility of entering into partnerships with the private sector for providing Part III of the network?
4. If such partnerships are entered into, would it be more advantageous for the ICN to lease lines from the private entities, or for the ICN to own the lines and lease to the private entities?
5. What, if any, are the antitrust implications of authorizing a consortium of private providers to construct Part III of the network?
6. What is the potential impact on the state's ability to borrow funding of the state is unable to make payment on bonds related to Parts I and II?
7. Will additional appropriations be requested during the 1994 session for Part I? Part II? Part III? If so, how much for each Part.
8. What is the projected amount of funding which will be needed for long-range upgrading of the network and maintaining the use of state-of-the-art technology?
9. How much existing fiber or wire is in place which would allow for Part III connections without additional cost to the state?
10. What potential exists for payment of costs related to the network through the transmission of state data over the network which will result in cost savings or cost shifting?

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October 26, 1993

**MEMORANDUM**

**TO: DR. PAM JOHNSON, STAR SCHOOLS PROJECT DIRECTOR**

**FROM: <sup>mwj</sup> Mark W. Johnson, Legal Counsel**

**RE: Star Schools Information Request**

Enclosed please find a copy of the information request which was sent to those people on our mailing list for the Fiber Optics and Telecommunications Study Committee and other individuals identified from the list of registered lobbyists. Additionally, I have attached a copy of the Star Schools Information Request developed by Senator McLaren. I have been unable to determine why you have not received the original request which should have been sent to you last Friday. I apologize for any inconvenience this may have caused you. Please contact me if you have any questions or concerns regarding this request. Thanks for your time and effort.

## **Star Schools Information Request**

- **History and background of Star Schools program.**
- **Organizational chart and structure of program, including designation of the person and/or governing board that has oversight and responsibility for preparing and submitting grant applications and making spending decisions.**
- **Description of federal funding sources for the Star Schools program.**
- **Detailed accounting of how federal funds were spent in FY93, including equipment purchased for Part II sites, training programs conducted and all other support costs, stipends, etc.**
- **Detailed description of how the federal funds will be spent in FY94.**
- **Description of the methodology for the statewide allocation of training funds, including the amount of funding available to each school district for training during FY93 and FY94. In addition, please identify the regional and local Star Schools coordinators and any expenses incurred by these regional coordinators.**
- **Description, location, and cost of training programs conducted in FY93.**
- **Explanation of the FY93 and FY94 federal grant application processes including the federal guidelines and qualification criteria. Description of the Iowa applications for the federal funds including information and explanation as to why the funding of equipment is limited to Part II locations.**
- **Information describing future federal intentions regarding Star Schools funding, including potential funding available beyond FY94 and anticipated restrictions on funding such as the current requirement that the funds for equipment purchases be limited only to Part II sites.**

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October 29, 1993

## MEMORANDUM

**TO: TELECOMMUNICATIONS PROVIDERS**

**FROM: Mark W. Johnson, Legal Counsel (515) 281-3837**

**RE: Information Request from Fiber Optics and Telecommunications Study Committee**

The Fiber Optics and Telecommunications Study Committee is in the process of collecting information from all interested persons concerning the Study Committee's deliberations with regard to the Iowa Communications Network. Additionally, specific questions have been raised by the Study Committee more appropriately targeted to certain entities. This request is for information related to providers or potential providers of telecommunications services. Several members of the Study Committee have expressed an interest in obtaining information related to the relationship of the private sector to the network. **If possible, please respond on or before Tuesday, November 2, 1993.** Responses received by that time will be sent to Study Committee members on that day. Responses received after that time will be provided to the Study Committee members on November 5, 1993 at the Study Committee's second meeting. Any information or response which you can make to the following issues is greatly appreciated by the Study Committee. On behalf of the Study Committee, thank you for your time and consideration of this request. If you have any questions or concerns regarding this request, please contact me.

**ADDITIONAL INFORMATION REQUESTED BY THE  
MEMBERS OF THE FIBER OPTICS AND TELECOMMUNICATIONS  
STUDY COMMITTEE**

1. Is it feasible for Parts I and II of the Iowa Communications Network to be sold and become a part of an existing network developed by the private sector? If so, how can this best be facilitated by the state?
2. If a relationship or partnership were to develop for Part III (not necessarily exclusive) between your entity and the public sector, should the public sector consider owning the fiber or other appropriate technology and leasing use to the private sector? Leasing the use of capacity of fiber or other appropriate technology owned by the private sector? Why?
3. How much existing fiber, wire, or other capacity is there which could be used for Part III connections without additional construction cost to the state?
4. What is the potential impact to you of an expansion of the network to allow access to additional users? (e.g. hospitals, federal government, etc.) Does the type of use allowed for the additional users make a difference?

## **FIBER OPTICS AND TELECOMMUNICATIONS INTERIM COMMITTEE**

### **DESCRIPTION OF MATERIALS PROVIDED FOR AND RECEIVED AT FIRST MEETING -- Friday October 8, 1993**

1. Meeting Agenda
2. Proposed Rules
3. Membership list
4. Committee charge
5. Background information provided by the Service Bureau
6. Phil Dunshee statement
7. Pam Johnson ICN folder with scheduling and Star schools material
8. Stan Slessor statement and class schedule
9. George Strawn statement
10. Richard Gross statement and Kirkwood brochure
11. John Hartung -- position paper for Iowa Association of Independent Colleges and Universities
12. Thomas Westbrook statement (appeared with John Hartung)
13. Michael Ferrari statement and Technology Commission draft report
14. Wayne Beal statement
15. Angie King statement

## **FIBER OPTICS AND TELECOMMUNICATIONS INTERIM COMMITTEE**

### **DESCRIPTION OF MATERIALS PROVIDED FOR AND RECEIVED AT SECOND MEETING -- Friday November 5, 1993**

#### **Materials Submitted as of Friday, October 29, 1993, in Response to Requests for Statements and Information (sent to Study Committee members Oct. 29):**

1. Iowa Telephone Association statement (response to October 22 memo)
2. Area Education Agencies of Iowa statement
3. Sully Telephone Association statement (response to October 22 memo)
4. US West statement (response to October 22 memo)
5. Minerva Valley Telephone Co. statement and article from Washington Journal  
(response to October 22 memo)
6. Wellman Coop Telephone Association statement (response to October 22 memo).
7. Donald Banwart (West Bend Community School Board of Directors) statement  
(response to October 22 memo)
8. Iowa Association of Community College Trustees statement (response to October  
22 memo -- see number 6 under "Materials submitted to Study Committee during  
November 5, 1993 meeting:")
9. Northwest Telephone Cooperative Association statement which accompanied video  
tape (response to October 22 memo)

#### **Materials Submitted as of Tuesday, November 2, 1993, in Response to Requests for Statements and Information (sent to Study Committee members Nov. 2):**

1. GTE statement (response to October 22 memo)
2. GTE statement (response to October 29 memo)
3. Iowa Hospital Association Legislative Position Paper
4. AT&T statement (response to October 22 memo)
5. Iowa Institute for Cooperatives statement (response to October 22 memo)

6. Star Schools Information (response to separate request)

**Materials included in November 5, 1993, meeting packet:**

1. Meeting Agenda
2. Draft 3 of Request for Proposals related to Part III of the Iowa Communications Network, cover memorandum concerning the RFP, and merged cost document form
3. Federal funding opportunities document provided by Phil Smith
4. Clinton Administration background concerning national information infrastructure provided by Phil Smith
5. Iowa Communications Network FY 94 Federal Funding Proposals document provided to General assembly in March 1993 by Phil Smith
6. MWR Telecom statement (response to October 29 memo)
7. Cedar Falls Utilities statement (response to October 29 memo)
8. Northwest Telephone Cooperative Association statement
9. Caspar & Associates statement (response to October 29 memo)
10. Jim Carlson statement (response to October 29 memo)
11. Clear Lake Telephone Company statement (response to October 29 memo)
12. October 20, 1993 Monthly Status Report provided to Legislative Fiscal Committee
13. Vista Telephone Company statement (response to October 29 memo)

**Materials submitted to Study Committee during November 5, 1993 meeting:**

1. Don Miller statement (remarks to Study Committee)
2. MFS Network Technologies statement (response to October 29 memo)
3. Ted Chapler memorandum (response to additional questions)
4. AT&T statement (response to October 29 memo)
5. U S West statement (response to October 29 memo)

6. Iowa Association of Community College Trustees statement (same as provided for 10-29 mailing, except includes update at end of document).

**Additional material submitted to the Study Committee:**

1. Fax from Mary Quass (absent from Nov. 5 meeting)
2. League of Iowa Municipalities legislative policy statement