

Nebraska Information Technology Commission

Project Proposal Form

**New or Additional State Funding Requests
for Information Technology Projects**

FY2007-2009 Biennium

Project Title	Public Media at the Capitol
Agency/Entity	47 / Educational Telecommunications Commission

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Notes about this form:

1. **USE.** The Nebraska Information Technology Commission (“NITC”) is required by statute to “make recommendations on technology investments to the Governor and the Legislature, including a prioritized list of projects, reviewed by the technical panel, for which new or additional funding is requested.” Neb. Rev. Stat. §86-516(8) In order to perform this review, the NITC and DAS Budget Division require agencies/entities to complete this form when requesting new or additional funding for technology projects.
2. **WHAT TECHNOLOGY BUDGET REQUESTS REQUIRE A PROJECT PROPOSAL FORM?** See the document entitled “Guidance on Information Technology Related Budget Requests” available at <http://www.nitc.state.ne.us/forms/>.
3. **DOWNLOADABLE FORM.** A Word version of this form is available at <http://www.nitc.state.ne.us/forms/>.
4. **SUBMITTING THE FORM.** Completed project proposal forms should be submitted as an e-mail attachment to rick.becker@nitc.ne.gov.
5. **DEADLINE.** Completed forms must be submitted by September 15, 2006 (the same date budget requests are required to be submitted to the DAS Budget Division).
6. **QUESTIONS.** Contact the Office of the CIO/NITC at (402) 471-7984 or rick.becker@nitc.ne.gov

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Section 1: General Information

Project Title	Public Media at the Capitol
Agency (or entity)	47 / Educational Telecommunications Commission

Contact Information for this Project:

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E-mail Address	phammar@netnebraska.org

Section 2: Executive Summary

Provide a one or two paragraph summary of the proposed project. This summary will be used in other externally distributed documents and should therefore clearly and succinctly describe the project and the information technology required.

“The salvation of the state is watchfulness in the citizen.” To serve Nebraskans by keeping pace with today’s rapidly evolving technology, NET proposes a communications technology redesign that will dramatically increase the public’s access to legislative floor debate, committee hearings, Judiciary proceedings, and communications from the Executive branch, bringing the multimedia technology of the Capitol to current standards. Radio and television technologies will be provided that will replace outmoded systems currently in place, which will guarantee many years of public broadcasting coverage and better access by the state’s commercial radio and television stations. Nebraska citizens will have simultaneous access to Internet streams from the floor of the senate, Capitol conference and hearing rooms, the Supreme Court, and the Governor’s office, and to a searchable on-line archive of all legislative proceedings. This project is being done in consultation with the State CIO, the Legislative Council, the Office of the Capitol Commission, and the State Judiciary branch. It has the support of the Legislative Council, the Office of the Capitol Commission and Supreme Court.

The proposed equipment upgrade would give the people of Nebraska and beyond greater access to both real-time and archival proceedings originating from all branches of state government. This investment will generate far more coverage of the deliberative workings of the state, available through multiple delivery methods, than ever before.

Section 3: Goals, Objectives, and Projected Outcomes (15 Points)

1. Describe the project, including:
 - Specific goals and objectives;
 - Expected beneficiaries of the project; and
 - Expected outcomes.

Overall Goal

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- To increase access for the citizens of Nebraska to the discussions, hearings, deliberations, voting, and overall civic process of the State of Nebraska. The “Digital Future Initiative” panel, co-chaired by former FCC Commissioner Reed Hundt and former Netscape founder and CEO, James Barksdale, identified the growing movement away for “push” delivery of content, such as broadcasting and cable, where content is delivered on schedule, to “pull” technology, where content is delivered to the consumer anytime, every where. This project will, in the first biennium, greatly expand the number of places content can be “pushed”. In the second biennium, the addition of a digital archive and retrieval system will provide the ability for the citizens of the state to “pull” content on demand.

STATE LEGISLATIVE BRANCH Goals

- Upgrade and expand technical facilities in support of television and radio broadcasts.
- Expand access to Legislative proceedings through streaming and serving of live and archival digital assets.

STATE EXECUTIVE BRANCH Goals

- Upgrade and expand broadcast audio and video capability.
- Create a technical infrastructure supporting live commercial news truck access to news conferences.
- Create and maintain a digital asset system in support of live streaming and serving of static content.

STATE JUDICIAL BRANCH Goals

- Upgrade and expand broadcast audio and video capability.
- Create a technical infrastructure supporting a broadcast pool feed of court proceedings.
- Create and maintain a digital asset system in support of live streaming and serving of static content.
- Develop the ability to create DVD recordings of court proceedings.

OFFICE OF THE CAPITOL COMMISSION Goals

- Facilitate the Goals of this proposal while maintaining the intent of the Capitol master plan.
- Create a broadcast infrastructure for the rotunda that both expedites television and radio production and protects the Capitol from adverse physical wear.
- Create a press pool feed access point in room 1224.

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- Expand and improve HVAC and environment for the NET capitol master control room.
- Create permanent connectivity for remote broadcast vehicles.
- Allow for the upgrading of the video image quality for the Falcon Nesting project.

Television Goals

- Increase the potential for live broadcasts of important state government proceedings by improving the quality of the broadcast signal and the simplicity by which it is provided to NET's networks.
- Equip those sites most likely to host high-profile events with broadcast quality audio and video equipment.
- Develop a system of delivery to the state's media that provides immediate, reliable access to these events either through NET's networks or on-site connections.
- Have the video and audio broadcast signals available in a form compatible for delivery on-line.

Audio and video feeds of Legislative floor debate and, periodically, of specific committee hearings are utilized by the state's news media in a variety of ways. Television provides live coverage of proceedings on NET-2. Television and Radio stations use excerpts of proceedings in their broadcasts by recording the feed from their cable provider. Newspapers use these feeds to monitor coverage in their newsrooms as well, sometimes recording the broadcast to assure quotes are accurate.

Under the current system cost and personnel limitations make it impossible for NET to record any of these broadcasts full time. As a result, the network is unable to respond to requests for video or audio copies of state government proceedings it broadcasts using the Capitol system.

Currently the system of cameras available provides only low quality signals from important hearing rooms and the Governor's hearing room, and limited, low quality access to the Nebraska Supreme Court chambers. Providing a broadcast signal from the Capitol rotunda or the Warner Chamber requires laying temporary cables through the hallways.

Improving the quality of the broadcast signal, expanding the range of the broadcast feeds and the on-site accessibility to them would be a significant service to state government offices monitoring legislative debate and scheduled events and to the citizens of the state thanks to improved and expanded media coverage.

Radio Goals

- Create the opportunity for radio to increase its news coverage of events at the Capitol through access to quality audio feeds from several proceedings simultaneously.
- Improve ability of radio news reporters to file stories from the Capitol.

Radio news provides a wide variety of coverage of government proceedings at the Capitol. These include daily coverage of the Legislative session, public hearings on proposed legislation, news conferences in the rotunda, as well as the governor's office, and the attorney general's office. Radio also provides coverage of the State Supreme Court, and demonstrations that take place on the Capitol steps.

Radio provides this coverage by reporters on the scene, and through the audio and video feeds currently available. Frequently events take place at several locations at once. Under the current system this often

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means events go uncovered. Expanding the range of the broadcast feeds and the on-site accessibility to them would allow radio to provide listeners with more complete coverage of their state government.

Radio reporters file stories from the Capitol office which currently does not have an adequate voice-over booth. Having this piece of equipment would allow radio stations to maintain their high standard of audio recording.

2. Describe the measurement and assessment methods that will verify that the project outcomes have been achieved.

Verification of the project outcomes will be measured through the increased number of NET and news media broadcasts using footage from the content contribution points at the capitol, the number of uses of streaming and static content products, and the increased access to proceedings occurring in all branches of Nebraska State Government for Nebraskans.

Currently the proceedings of the legislative branch are fed from the main chamber and seven Legislative hearing rooms. Feeds from the East Chamber and the Governor's hearing room are also currently available. These ten current points of origination will be upgraded to digital.

The Supreme Court and Appellate Court will be added as two new points of origination.

The Rotunda and third floor bridges will be wired to accommodate NET remote cameras, microphones and lighting.

Four exterior cameras will be added. Two will cover the north steps offering both street POV and a reversal building POV; one camera will cover the west steps street POV; and one camera will cover the falcon nest box near the top of the tower.

Room 1224 will be converted into a Press Room. Six points of access will be available with audio and video routing capability.

The proposed Virage IT system allows for the encoding of ten simultaneous streams of audio and video, and real time transcription of five of those streams.

3. Describe the project's relationship to your agency comprehensive information technology plan.

This project is included in the NET Information Technology Plan for FY 2007-09. The project is also included in the Long-Term Plans beyond the FY 2007-09 Biennium.



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**This document is a copy of the agency IT Plan, available at:
<http://www.nitc.state.ne.us/itc/sg/agencyitplans.html>**

Section 4: Project Justification / Business Case (25 Points)

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4. Provide the project justification in terms of tangible benefits (i.e. economic return on investment) and/or intangible benefits (e.g. additional services for customers).

Currently broadcast coverage of any proceedings outside of the Legislative Branch requires a great deal of temporary technical hardware and labor resources. This project will allow for regular access to Executive and Judicial proceedings and upgrade the Legislative main body and committee proceedings to current digital broadcast standards.

Currently coverage of judicial proceedings requires a multiple day process of cable routing, testing, microphone and camera placement and operation.

This project provides robotic camera and automated microphone technology to allow broadcast and streaming content from both the Supreme Court and court of appeals.

For example, the NET and pool feed of the live coverage of the Nebraska Supreme Court and the impeachment trial of David Hergert required four NET maintenance engineers and four NET production services staff members working in conjunction with judicial and capitol staff to create the interconnection necessary for broadcast.

The Audio and Video hardware and infrastructure proposed will provide a permanent broadcast capability that would eliminate the need for temporary event-based installations.

5. Describe other solutions that were evaluated, including their strengths and weaknesses, and why they were rejected. Explain the implications of doing nothing and why this option is not acceptable.

The video, audio and IT technologies employed in this project represent a minimum of operational oversight not previously available in analog broadcast equipment as is currently used at the capitol.

These technologies increase exponentially the ease of access to state government content and represent an increase in capability and service over the existing systems.

At this time when a technology upgrade is required to meet digital broadcast standards, the added benefit of increased functionality within these mature technologies can be exploited to the benefit of all Nebraskans.

Doing nothing would base capitol proceedings in a dwindling broadcast technical environment that would be difficult to view. An audience familiar with and expectant of digital quality may not take advantage of access to capitol proceedings due to poor image quality.

Doing nothing would put any access to capitol proceedings in jeopardy due to increased equipment failure based on aging and obsolete hardware.

6. If the project is the result of a state or federal mandate, please specify the mandate being addressed. This project is linked to the digital conversion of TV as directed by the FCC. NET has converted production facilities to digital. The capitol TV facilities need digital conversion as outlined in this project. The Federal Communications Commission has directed the cessation of analog TV broadcasts by February 2009.

Section 5: Technical Impact (20 Points)

7. Describe how the project enhances, changes or replaces present technology systems, or implements a new technology system. Describe the technical elements of the project, including hardware, software, and communications requirements. Describe the strengths and weaknesses of the proposed solution.

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This project utilizes microphone automation, triggered camera selection, multi -point digital signal routing and manual local lockout capability.

The audio and video contribution system is a multipoint robotic camera and automated microphone mixer system that is connected with a digital routing switcher.

The switcher can be triggered from the automated microphone mixer to provide an image of the individual speaking, or manual shot selection can be achieved for a broadcast product with the production switcher. The need for executive session local lockout of audio and video sources is addressed.

Events from the rotunda will benefit from reduced labor costs for technical set-up and strike with the installation of camera, microphone, and lighting cable infrastructure with connectivity to the routing and production switchers.

The addition of remote broadcast truck connectivity at the exterior of the Capitol building and the development of room 1224 into a press feed room greatly reduces the labor required to provide pool feed and newsgathering access to broadcasters.

Digital interconnection to and from NET allows for the distribution of any of the points of origination into the extensive production, broadcast, satellite uplink, Distance Learning, and web-cast capability at NET.

The IT component of the project adds capability for up to ten simultaneous streams available on-line with searchable archived content from the executive, legislative and judicial branches.

The strength of this project is increased access to the proceedings of all branches of Nebraska State Government.

8. Address the following issues with respect to the proposed technology:
 - Describe the reliability, security and scalability (future needs for growth or adaptation) of the technology.

Robust broadcast and IT technologies are employed in this project.

The manufacturers of the hardware and software have positive track records and history with NET and the broadcast and IT industries. These are mature technologies with a history of service.

This project conforms to NET standards.

This project can scale up or down based on need of number of points of origin, number of simultaneous proceedings and bandwidth necessary to support a dynamic user base.

- Address conformity with applicable NITC technical standards and guidelines (available at <http://www.nitc.state.ne.us/standards/>) and generally accepted industry standards.

This project conforms to NET technical standards based in generally accepted industry standards as identified and accepted by The Society of Motion Picture and Television Engineers, The Public Broadcasting Service, The Society of Broadcast Engineers, The Audio Engineering Society.

- Address the compatibility with existing institutional and/or statewide infrastructure.

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This project is compatible with current NET production, contribution and distribution infrastructure.

Section 6: Preliminary Plan for Implementation (10 Points)

9. Describe the preliminary plans for implementing the project. Identify project sponsor(s) and examine stakeholder acceptance. Describe the project team, including their roles, responsibilities, and experience.

Project implementation begins with plan consensus and scheduling of building renovation and wire infrastructure installation.

Video and audio hardware design, integration, acquisition and installation will follow with IT and exterior access in the final stage of the project.

Input to this plan has originated from all branches of state government involved with capitol proceedings as represented by the following individuals.

Michael Beach, NET Chief Technology Officer
Phil Hammar, NET Production Services Manager
Percy Logan, NET Engineering Director of Production
Dennis Mathias, NET Engineering Senior Systems Engineer
William Kelly, NET News and Public Affairs Senior Producer
Martin Wells, NET Radio News Director
James Duchesneau, NET Radio Production Coordinator

Jayne Scofield, DOC Deputy Director
Dave Keele, DOC Infrastructure Support
Heath Hollenbeck, DOC Wide Area Network Support Lead

Richard Brown, Assistant Clerk of the Legislature
Janice Satra, Legal Counsel of the Legislature
Chuck Hubka, Coordinator of Legislative Services

Janet Bancroft, Supreme Court Public Information Officer
Bill Miller, Deputy State Court Administrator for IT

Robert C. Ripley, Capitol Administrator
Mark Tonjes, Capitol Manager

10. List the major milestones and/or deliverables and provide a timeline for completing each.

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Video and Audio System Implementation Phase 1

Summer 2007-

Final design and inter-agency plan consensus.

Identification of specific video and audio hardware.

Scheduling of building renovation and wire infrastructure installation.

September 2007- Purchase of hardware and renovation through DAS bid process.

Summer 2008- Renovation and wire infrastructure installation.

September 2008- Installation of Video and Audio Hardware.

November 2008- Operations and maintenance staff training

January 2009-

Phase 1 video and audio in service for NET connectivity and broadcasts.

Phase 1 assessment

FY '08-'09

IT Systems Implementation

Video and Audio System Implementation Phase 2

Summer 2008-

Final IT design and inter-agency plan consensus.

Identification of specific IT hardware and software.

September 2008-

Purchase of IT hardware and software through DAS bid process.

Purchase of Phase 2 video and audio hardware and renovation through DAS bid process.

Summer 2009- Phase 2 renovation and Phase 2 a/v and IT wire infrastructure installation.

September 2009-

Installation of Phase2 video and audio Hardware.

Installation of IT hardware and software.

November 2009-

Operations and maintenance staff training

January 2010-

Phase 1 and 2 video and audio in service for NET and news media connectivity and broadcasts.

IT systems in service.

Phase 2 and IT assessment

FY '09-'10

Video and Audio System Implementation Phase 3

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September 2009- Purchase of Phase 3 video and audio hardware and renovation through DAS bid process.

Summer 2010- Renovation and wire infrastructure installation.

September 2010- Installation of Video and Audio Hardware.

November 2010- Operations and maintenance staff training

January 2011-

Phase 3 video and audio in service for NET and news media connectivity and broadcasts.

Phase 3 assessment

FY '10-'11

Video and Audio System Implementation Phase 4

September 2010- Purchase of Phase 4 video and audio hardware and renovation through DAS bid process.

Summer 2011- Renovation and wire infrastructure installation.

September 2011- Installation of Video and Audio Hardware.

November 2011- Operations and maintenance staff training

January 2012-

Phase 4 video and audio in service for NET and news media connectivity and broadcasts.

Phase 4 assessment

Final Project assessment

11. Describe the training and staff development requirements.

The audio and video systems hardware is of broadcast operational conventions requiring a two day manufacturer's on-site training program. A competent broadcast control room technician will be successful in acquiring the skills necessary to operate the system.

The IT systems will require approximately 40 hours of operational on-line training. A multi-media production professional will be successful in acquiring the skills necessary to operate the system.

12. Describe the ongoing support requirements.

At the suggestion of staff from the Legislative Council and Office of the Capitol Commission, 1.00 FTE has been added to support the Capitol Control Room. Expansion of the number of video enabled rooms from one to nine in the first biennium will require additional operational support and general maintenance of the capitol Audio and Video hardware. This position would have access to engineering maintenance support from NET staff and building infrastructure support from DOC and the state government branch associated with the point of origination.

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Expansion of media encoding and streaming from one to as many as ten streams by the end of the second biennium, along with the support of media archiving for the Judiciary and Executive branch will require additional operational support for encoding and general maintenance of the IT hardware. This would be provided by a 1.00 FTE new position. This position would be an NET staff member with access to media encoding support from NET Production and IT support from NET IT staff.

Manufacturer hardware and software support would complement the staff support.

Section 7: Risk Assessment (10 Points)

12. Describe possible barriers and risks related to the project and the relative importance of each.

Lack of understanding and misinterpretation of inter-agency needs and goals will create a less than optimal result.

The support of the migration to a digital broadcast production system that provides content to NET and Nebraska broadcasters is of primary importance.

13. Identify strategies which have been developed to minimize risks.

Regular milepost progress reports and trouble shooting meetings inclusive of all agencies during the implementation and construction phase of the project will minimize risks.

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Section 8: Financial Analysis and Budget (20 Points)

15. Financial Information

Financial and budget information can be provided in either of the following ways:

- (1) If the information is available in some other format, either cut and paste the information into this document or transmit the information with this form; or
- (2) Provide the information by completing the spreadsheet provided below.

Instructions: Double click on the Microsoft Excel icon below. An imbedded Excel spreadsheet will be launched. Input the appropriate financial information. Close the spreadsheet. The information you entered will automatically be saved with this document. If you want to review or revise the financial information, repeat the process just described.



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Financial information from the embedded spreadsheet appears at the end of this PDF version of the document.

16. Provide a detailed description of the budget items listed above. Include:

- An itemized list of hardware and software.



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This document is appears at the end of this file.

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Appellate Court

Quan	Type	Equipment	Manufacturer	Model	Unit cost	Item total
4	Audio	Microphone	Shure	xx	\$300.00	\$1,200.00
1	Audio	Preamplifier	Digigram	Ethersound	\$2,000.00	\$2,000.00
1	Audio	Transport	Digigram	Converter	\$1,500.00	\$1,500.00
1	Audio	Mixer	Lectrosomics	DM812	\$4,000.00	\$4,000.00
2	Video	Robotic Color	Video Camera	Sony BRC-H700 PTRZ	\$12,000.00	\$24,000.00
Total:						\$32,700.00

Building Infrastructure

Quan	Type	Equipment	Manufacturer	Model	Unit cost	Item total
5	Documentation	Adhesive Laminate Labels	Panduit	PLL-13-Y3	\$50.00	\$250.00
1	Misc	Misc Misc Misc			\$99,000.00	\$99,000.00
100000	Wire	Coaxial Cable	Clark	RG-6	\$1.00	\$100,000.00
500	Wire	BNC Connector	ADC	BNC-1	\$1.00	\$500.00
5	Wire	BNC Crimper	Clark	Crimp	\$50.00	\$250.00
Total:						\$200,000.00

Exterior Access

Quan	Type	Equipment	Manufacturer	Model	Unit cost	Item total
4	Audio	Preamplifier	Digigram	Ethersound	\$2,000.00	\$8,000.00
4	Audio	Transport	Digigram	Converter	\$1,500.00	\$6,000.00
4	Audio	Mixer	Lectrosomics	DM812	\$4,000.00	\$16,000.00
4	Video	Robotic Color	Video Camera	Sony BRC-H700 PTRZ	\$12,000.00	\$48,000.00

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4 Audio Mixer Lectrosonics DM812 \$4,000 \$16,000.00

Total: \$78,000.00

Governor's Hearing Room

Quan Type Equipment Manufacturer Model Unit cost Item total

2 Video Robotic Color Video Camera Sony BRC-H700 PTRZ \$12,000 \$24,000.00

2 Audio Microphone Shure xx \$300 \$600.00

1 Audio Preamplifier Digigram Ethersound \$2,000 \$2,000.00

1 Audio Transport Digigram Converter \$1,500 \$1,500.00

1 Audio Mixer Lectrosonics DM812 \$4,000 \$4,000.00

1 Lighting Max Light Package Unknown ? \$15,000 \$15,000.00

Total: \$47,100.00

Legislative Chamber

Quan Type Equipment Manufacturer Model Unit cost Item total

3 Video Robotic Color Video Camera Sony BRC-H700 PTRZ \$12,000 \$36,000.00

50 Audio Microphone Shure xx \$300 \$15,000.00

7 Audio Preamplifier Digigram Ethersound \$2,000 \$14,000.00

7 Audio Transport Digigram Converter \$1,500 \$10,500.00

7 Audio Mixer Lectrosonics DM1612 \$8,000 \$56,000.00

Total: \$131,500.00

Lower Level Master Control

Quan Type Equipment Manufacturer Model Unit cost Item total

1 Video 64 X 64 SD Routing Switcher Evertz Quartz \$90,000 \$90,000.00

2 Video 8 X 1 Production Switcher Evertz QMC-2MC \$50,000 \$100,000.00

2 Transport Fiber Multiplexers Evertz 7707VT-8 \$10,000 \$20,000.00

2 Transport Fiber Demultiplexer Evertz 7707VR-8 \$10,000 \$20,000.00

6 Video Camera Remote Control Units Sony RM-BR300 \$1,100 \$6,600.00

2 Video Video Disk Recorder Doremi DCT-VI \$25,000 \$50,000.00

6 Routing Routing Switcher Control Palen Evertz RSCP \$4,000 \$24,000.00

1 Video Multichannel Monitoring System Evertz MVP \$100,000 \$100,000.00

Total: \$410,600.00

NET IT

Quan Type Equipment Manufacturer Model Unit cost Item total

1 Arch Hardware Server Dell Poweredge 1950 \$5,710.00 \$5,710.00

1 Arch Hardware Fiber Switch Cisco Switch \$20,000.00 \$20,000.00

10 Enc Hardware Computer Dell Precision 690n \$2,210.50 \$22,105

10 Enc Hardware Key Frame Video Analysis Viewcast Osprey 100 \$250.00 \$2,500.00

10 Enc Hardware Video Encoding Viewcast Osprey 230 \$250.00 \$2,500.00

5 Enc Hardware Server Dell PowerEdge \$4,300.00 \$21,500.00

9 Software Video Logger Virage V0150-WIN \$11,000.00 \$99,000.00

5 Software SoftSound Audio Analysis Virage A0300-WIN \$11,000.00 \$55,000.00

1 Software VS Archive & VideoLogger Virage VSARCH-000 \$100,000.00 \$100,000.00

10 Software ControlCenter Virage C0100-NT \$1,000.00 \$10,000.00

15 Software Installation & Integration Days Virage PS-0100 \$2,000.00 \$30,000.00

Total: \$368,315

OCC Infrastructure

Quan Type Equipment Manufacturer Model Unit cost Item total

1 Renovation RM 1224 Press Room Capitol \$40,000.00 \$40,000.00

1 Renovation Control Room Renovation Capitol \$105,000.00 \$105,000.00

4 Video Custom Camera Mount Capitol \$2,500.00 \$10,000.00

1 Video External Horizontal Boring Capitol \$15,000.00 \$15,000.00

1 Wire Installation Capitol \$35,000.00 \$35,000.00

Total: \$205,000.00

RM 1003 Hearing Room

Quan Type Equipment Manufacturer Model Unit cost Item total

2 Video Robotic Color Video Camera Sony BRC-H700 PTRZ \$12,000 \$24,000.00

8 Audio Microphone Shure xx \$300 \$2,400.00

1 Audio Preamplifier Digigram Ethersound \$2,000 \$2,000.00

1 Audio Transport Digigram Converter \$1,500 \$1,500.00

1 Audio Mixer Lectrosonics DM812 \$4,000 \$4,000.00

1 Lighting Minimum Lighting Package Unknown ?? \$7,500 \$7,500.00

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Total: \$41,400.00

RM 1113 Hearing Room

Quan Type Equipment Manufacturer Model Unit cost Item total

2 Video Robotic Color Video Camera Sony BRC-H700 PTRZ \$12,000 \$24,000.00
 8 Audio Microphone Shure xx \$300 \$2,400.00
 1 Audio Preamplifier Digigram Ethersound \$2,000 \$2,000.00
 1 Audio Transport Digigram Converter \$1,500 \$1,500.00
 1 Audio Mixer Lectrosanics DM812 \$4,000 \$4,000.00
 1 Lighting Minimum Lighting Package Unknown ?? \$7,500 \$7,500.00

Total: \$41,400.00

RM 1224 Press Room

Quan Type Equipment Manufacturer Model Unit cost Item total

1 Video 4 Picture Monitors Marshall V-R44P-SDI \$2,000 \$2,000.00
 1 Video Multichannel Monitoring System Evertz MVP \$100,000 \$100,000.00
 6 Audio Monitor Wohler AV-1 \$4,000 \$24,000.00
 6 Routing Routing Switcher Control Pane Evertz RSCP \$4,000 \$24,000.00
 1 Video 4 Picture Monitors Marshall V-R44P-SDI \$2,000 \$2,000.00

Total: \$152,000.00

RM 1504.1 NET Radio

Quan Type Equipment Manufacturer Model Unit cost Item total

1 Video 4 Picture Monitors Marshall V-R44P-SDI \$2,000 \$2,000.00
 2 Routing Routing Switcher Control Palen Evertz RSCP \$4,000 \$8,000.00
 2 Audio Monitor Wohler AV-1 \$4,000 \$8,000.00

Total: \$18,000.00

RM 1507 Hearing Room

Quan Type Equipment Manufacturer Model Unit cost Item total

2 Video Robotic Color Video Camera Sony BRC-H700 PTRZ \$12,000 \$24,000.00
 8 Audio Microphone Shure xx \$300 \$2,400.00
 1 Audio Preamplifier Digigram Ethersound \$2,000 \$2,000.00
 1 Audio Transport Digigram Converter \$1,500 \$1,500.00
 1 Audio Mixer Lectrosanics DM812 \$4,000 \$4,000.00
 1 Lighting Max Light Package Unknown Max Lite \$15,000 \$15,000.00

Total: \$48,900.00

RM 1510 Hearing Room

Quan Type Equipment Manufacturer Model Unit cost Item total

2 Video Robotic Color Video Camera Sony BRC-H700 PTRZ \$12,000 \$24,000.00
 8 Audio Microphone Shure xx \$300 \$2,400.00
 1 Audio Preamplifier Digigram Ethersound \$2,000 \$2,000.00
 1 Audio Transport Digigram Converter \$1,500 \$1,500.00
 1 Audio Mixer Lectrosanics DM812 \$4,000 \$4,000.00
 1 Lighting Max Light Package Unknown ? \$15,000 \$15,000.00

Total: \$48,900.00

RM 1524 Hearing Room

Quan Type Equipment Manufacturer Model Unit cost Item total

2 Video Robotic Color Video Camera Sony BRC-H700 PTRZ \$12,000 \$24,000.00
 8 Audio Microphone Shure xx \$300 \$2,400.00
 1 Audio Preamplifier Digigram Ethersound \$2,000 \$2,000.00
 1 Audio Transport Digigram Converter \$1,500 \$1,500.00
 1 Audio Mixer Lectrosanics DM812 \$4,000 \$4,000.00
 1 Lighting Max Light Package Unknown ? \$15,000 \$15,000.00

Total: \$48,900.00

RM 1525 Hearing Room

Quan Type Equipment Manufacturer Model Unit cost Item total

2 Video Robotic Color Video Camera Sony BRC-H700 PTRZ \$12,000 \$24,000.00
 8 Audio Microphone Shure xx \$300 \$2,400.00
 1 Audio Preamplifier Digigram Ethersound \$2,000 \$2,000.00
 1 Audio Transport Digigram Converter \$1,500 \$1,500.00
 1 Audio Mixer Lectrosanics DM812 \$4,000 \$4,000.00
 1 Lighting Max Light Package Unknown ? \$15,000 \$15,000.00

Total: \$48,900.00

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RM 2102 Hearing Room

Quan	Type	Equipment	Manufacturer	Model	Unit	cost	Item	total
2	Video	Robotic Color Video Camera	Sony	BRC-H700 PTRZ	\$12,000	\$24,000.00		
8	Audio	Microphone	Shure	xx	\$300	\$2,400.00		
1	Audio	Preamplifier	Digigram	Ethersound	\$2,000	\$2,000.00		
1	Audio	Transport	Digigram	Converter	\$1,500	\$1,500.00		
1	Audio	Mixer	Lectrosanics	DM812	\$4,000	\$4,000.00		
1	Lighting	Minimum Lighting Package	Unknown	??	\$7,500	\$7,500.00		
Total: \$41,400.00								

Rotunda Public

Quan	Type	Equipment	Manufacturer	Model	Unit	cost	Item	total
3	Audio	Microphone	Shure	xx	\$300	\$900.00		
3	Audio	Preamplifier	Digigram	Ethersound	\$2,000	\$6,000.00		
3	Audio	Transport	Digigram	Converter	\$1,500	\$4,500.00		
1	Audio	Mixer	Lectrosanics	DM812	\$4,000	\$4,000.00		
Total: \$15,400.00								

Supreme Court

Quan	Type	Equipment	Manufacturer	Model	Unit	cost	Item	total
2	Video	Robotic Color Video Camera	Sony	BRC-H700 PTRZ	\$12,000	\$24,000.00		
8	Audio	Microphone	Shure	xx	\$300	\$2,400.00		
2	Audio	Preamplifier	Digigram	Ethersound	\$2,000	\$4,000.00		
2	Audio	Transport	Digigram	Converter	\$1,500	\$3,000.00		
2	Audio	Mixer	Lectrosanics	DM812	\$4,000	\$8,000.00		
Total: \$41,400.00								

Warner Chamber

Quan	Type	Equipment	Manufacturer	Model	Unit	cost	Item	total
3	Video	Robotic Color Video Camera	Sony	BRC-H700 PTRZ	\$12,000	\$36,000.00		
40	Audio	Microphone	Shure	xx	\$300	\$12,000.00		
6	Audio	Preamplifier	Digigram	Ethersound	\$2,000	\$12,000.00		
8	Audio	Transport	Digigram	Converter	\$1,500	\$12,000.00		
6	Audio	Mixer	Lectrosanics	DM1612	\$8,000	\$48,000.00		
Total: \$120,000.00								

Project Total: \$2,139,815

- If new FTE positions are included in the request, please provide a breakdown by position, including separate totals for salary and fringe benefits.

1.0 FTE new position for Capitol Master Control Room and origination point operation. \$30,000 salary and \$15,000 benefit estimate.

1.0 FTE new position for media encoding operation and IT archiving administration and maintenance. \$30,000 salary and \$15,000 benefit estimate.

- Provide any on-going operation and replacement costs not included above, including funding source if known.

\$95,655.00 Audio and Video hardware annual maintenance and support. This is based on a 7% of acquisition cost estimate.

\$47,520.00 Virage annual maintenance and support agreement.

\$30,000.00 Akamai annual bandwidth and outsourced archive costs.

\$5,000 IT Encoding hardware annual maintenance and support

- Provide a breakdown of all non-state funding sources and funds provided per source.

Project Proposal Form
FY2007-2009 Biennium

17. Please indicate where the funding requested for this project can be found in the agency budget request, including program numbers.

The project can be found in the document titled "FY 2008 & 2009 BIENNIAL BUDGET NARRATIVES." Within the section titled "New Capital Construction Projects" it is labeled as project "CC-3 Public Media at the Capitol."

It is also listed in "Report 5 – Capital Construction New Requests" as line item CC-3.

This can be found in the:

Capitol Construction Project Request – Building Level – 60
Agency 47 Educational Telecommunications Commission
Program 921 "TV at the Capitol"
Pages 21-30

Item	FY07-08	FY08-09	FY09-10	FY10-11
Judicial				
Appellate Court		\$ 32,700.00		
Supreme Court	\$ 41,400.00			
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Legislative				
Legislative Chamber	\$ 131,500.00			
Hearing Room 1510		\$ 48,900.00		
Hearing Room 1507		\$ 48,900.00		
Hearing Room 1524	\$ 48,900.00			
Hearing Room 1525	\$ 48,900.00			
Hearing Room 1003			\$ 41,400.00	
Hearing Room 1113			\$ 41,400.00	
Hearing Room 2102			\$ 41,400.00	
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Executive				
Governor's Hearing RM	\$ 47,100.00			
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OCC				
Press Room 1224		\$ 152,000.00		
Rotunda	\$ 15,400.00			
Warner Chamber				\$ 120,000.00
Exterior Access			\$ 78,000.00	
Wire Installation	\$ 35,000.00			
Custom Camera mount	\$ 10,000.00			
Exterior horizontal boring		\$ 15,000.00		
Control room renovation	\$ 105,000.00			
Room 1224 renovation		\$ 40,000.00		

NET				
Control Room	\$	410,600.00		
Bldg Wire Infrastructure	\$	200,000.00		
NET Radio RM 1504.1	\$	18,000.00		
IT software			\$294,000.00	
IT Encoding hardware			48,605.00	
IT Archive hardware			\$25,710.00	

	FY Totals	<u>\$ 1,111,800.00</u>	<u>\$ 337,500.00</u>	<u>\$ 202,200.00</u>	<u>\$ 488,315.00</u>
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Project Total	2,139,815.00
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06 CAPITOL AV PROJECT**LOCATION**

09/01/2006

Appellate Court

Quan	Type	Description	Manufacturer	Model	Unit cost	Item total
4	Audio	Microphone	Shure	xx	\$300	\$1,200
1	Audio	Preamplifier	Digigram	Ethersound	\$2,000	\$2,000
1	Audio	Transport	Digigram	Converter	\$1,500	\$1,500
1	Audio	Mixer	Lectrosonics	DM812	\$4,000	\$4,000
2	Video	Robotic Color Video Camera	Sony	BRC-H700 PTRZ	\$12,000	\$24,000
Total:						\$32,700

Building Infrastructure

Quan	Type	Description	Manufacturer	Model	Unit cost	Item total
5	Documentation	Adhesive Laminate Labels	Panduit	PLL-13-Y3	\$50	\$250
1	Misc	Misc	Misc	Misc	\$99,000	\$99,000
100000	Wire	Coaxial Cable	Clark	RG-6	\$1	\$100,000
500	Wire	BNC Connector	ADC	BNC-1	\$1	\$500
5	Wire	BNC Crimper	Clark	Crimp	\$50	\$250
Total:						\$200,000

Exterior Access

Quan	Type	Description	Manufacturer	Model	Unit cost	Item total
4	Audio	Preamplifier	Digigram	Ethersound	\$2,000	\$8,000
4	Audio	Transport	Digigram	Converter	\$1,500	\$6,000
4	Audio	Mixer	Lectrosonics	DM812	\$4,000	\$16,000
4	Video	Robotic Color Video Camera	Sony	BRC-H700 PTRZ	\$12,000	\$48,000
Total:						\$78,000

Governor's Hearing Room

Quan	Type	Description	Manufacturer	Model	Unit cost	Item total
2	Audio	Microphone	Shure	xx	\$300	\$600
1	Audio	Preamplifier	Digigram	Ethersound	\$2,000	\$2,000
1	Audio	Transport	Digigram	Converter	\$1,500	\$1,500
1	Audio	Mixer	Lectrosonics	DM812	\$4,000	\$4,000
1	Lighting	Max Light Package	Unknown	Max Lite	\$15,000	\$15,000
2	Video	Robotic Color Video Camera	Sony	BRC-H700 PTRZ	\$12,000	\$24,000
Total:						\$47,100

Legislative Chamber

Quan	Type	Description	Manufacturer	Model	Unit cost	Item total
50	Audio	Microphone	Shure	xx	\$300	\$15,000
7	Audio	Preamplifier	Digigram	Ethersound	\$2,000	\$14,000
7	Audio	Transport	Digigram	Converter	\$1,500	\$10,500
7	Audio	Mixer	Lectrosonics	DM1612	\$8,000	\$56,000
3	Video	Robotic Color Video Camera	Sony	BRC-H700 PTRZ	\$12,000	\$36,000
Total:						\$131,500

Lower Level Master Control

Quan	Type	Description	Manufacturer	Model	Unit cost	Item total
6	Routing	Routing Switcher Control Pane	Evertz	RSCP	\$4,000	\$24,000
2	Transport	Fiber Multiplexers	Evertz	7707VT-8	\$10,000	\$20,000
2	Transport	Fiber Demultiplexer	Evertz	7707VR-8	\$10,000	\$20,000
2	Transport	8 CH Coarse Wave Division D	Evertz	7705CWDM-D8	\$0	\$0
2	Transport	8 CH Coarse Wave Division M	Evertz	7705CWDM-M8	\$0	\$0
1	Video	64 X 64 SD Routing Switcher	Evertz	Quartz	\$90,000	\$90,000
2	Video	8 X 1 Production Switcher	Evertz	QMC-2MC	\$50,000	\$100,000
6	Video	Camera Remote Control Units	Sony	RM-BR300	\$1,100	\$6,600
2	Video	Video Disk Recorder	Doremi	DCT-VI	\$25,000	\$50,000
1	Video	Multichannel Monitoring Syster	Evertz	MVP	\$100,000	\$100,000
Total:						\$410,600

NET IT

Quan	Type	Description	Manufacturer	Model	Unit cost	Item total
1	Arch Hardware	Server	Dell	Poweredge 1950	\$5,710	\$5,710
1	Arch Hardware	Fiber Switch	Cisco	Switch	\$20,000	\$20,000
10	Enc Hardware	Computer	Dell	Precision 690n	\$2,211	\$22,105
10	Enc Hardware	Key Frame Video Analysis	Viewcast	Osprey 100	\$250	\$2,500
10	Enc Hardware	Video Encoding	Viewcast	Osprey 230	\$250	\$2,500
5	Enc Hardware	Server	Dell	PowerEdge	\$4,300	\$21,500
9	Software	Video Logger	Virage	V0150-WIN	\$11,000	\$99,000
5	Software	SoftSound Audio Analysis	Virage	A0300-WIN	\$11,000	\$55,000
1	Software	VS Archive & VideoLogger	Virage	VSARCH-000	\$100,000	\$100,000
10	Software	ControlCenter	Virage	C0100-NT	\$1,000	\$10,000
15	Software	Installation & Integration Days	Virage	PS-0100	\$2,000	\$30,000
Total:						\$368,315

OCC Infrastructure

Quan	Type	Description	Manufacturer	Model	Unit cost	Item total
1	Renovation	Control Room	Capitol		\$105,000	\$105,000
1	Renovation	RM 1224 Press Room	Captiol		\$40,000	\$40,000
4	Video	Custom Camera Mount	Capitol		\$2,500	\$10,000
1	Video	External Horizontal Boring	Capitol		\$15,000	\$15,000
1	Wire	Installation	Capitol		\$35,000	\$35,000
Total:						\$205,000

RM 1003 Hearing Room

Quan	Type	Description	Manufacturer	Model	Unit cost	Item total
8	Audio	Microphone	Shure	xx	\$300	\$2,400
1	Audio	Preamplifier	Digigram	Ethersound	\$2,000	\$2,000
1	Audio	Transport	Digigram	Converter	\$1,500	\$1,500
1	Audio	Mixer	Lectrosonics	DM812	\$4,000	\$4,000
1	Lighting	Minimum Lighting Package	Unknown	Min Light	\$7,500	\$7,500
2	Video	Robotic Color Video Camera	Sony	BRC-H700 PTRZ	\$12,000	\$24,000
Total:						\$41,400

RM 1113 Hearing Room

Quan	Type	Description	Manufacturer	Model	Unit cost	Item total
8	Audio	Microphone	Shure	xx	\$300	\$2,400
1	Audio	Preamplifier	Digigram	Ethersound	\$2,000	\$2,000
1	Audio	Transport	Digigram	Converter	\$1,500	\$1,500
1	Audio	Mixer	Lectrosomics	DM812	\$4,000	\$4,000
1	Lighting	Minimum Lighting Package	Unknown	Min Light	\$7,500	\$7,500
2	Video	Robotic Color Video Camera	Sony	BRC-H700 PTRZ	\$12,000	\$24,000
Total:						\$41,400

RM 1224 Press Room

Quan	Type	Description	Manufacturer	Model	Unit cost	Item total
6	Audio	Monitor	Wohler	AV-1	\$4,000	\$24,000
6	Routing	Routing Switcher Control Pane	Evertz	RSCP	\$4,000	\$24,000
2	Video	4 Picture Monitors	Marshall	V-R44P-SDI	\$2,000	\$4,000
1	Video	Multichannel Monitoring System	Evertz	MVP	\$100,000	\$100,000
Total:						\$152,000

RM 1504.1 NET Radio

Quan	Type	Description	Manufacturer	Model	Unit cost	Item total
2	Audio	Monitor	Wohler	AV-1	\$4,000	\$8,000
2	Routing	Routing Switcher Control Pane	Evertz	RSCP	\$4,000	\$8,000
1	Video	4 Picture Monitors	Marshall	V-R44P-SDI	\$2,000	\$2,000
Total:						\$18,000

RM 1507 Hearing Room

Quan	Type	Description	Manufacturer	Model	Unit cost	Item total
8	Audio	Microphone	Shure	xx	\$300	\$2,400
1	Audio	Preamplifier	Digigram	Ethersound	\$2,000	\$2,000
1	Audio	Transport	Digigram	Converter	\$1,500	\$1,500
1	Audio	Mixer	Lectrosomics	DM812	\$4,000	\$4,000
1	Lighting	Max Light Package	Unknown	Max Lite	\$15,000	\$15,000
2	Video	Robotic Color Video Camera	Sony	BRC-H700 PTRZ	\$12,000	\$24,000
Total:						\$48,900

RM 1510 Hearing Room

Quan	Type	Description	Manufacturer	Model	Unit cost	Item total
8	Audio	Microphone	Shure	xx	\$300	\$2,400
1	Audio	Preamplifier	Digigram	Ethersound	\$2,000	\$2,000
1	Audio	Transport	Digigram	Converter	\$1,500	\$1,500
1	Audio	Mixer	Lectrosomics	DM812	\$4,000	\$4,000
1	Lighting	Max Light Package	Unknown	Max Lite	\$15,000	\$15,000
2	Video	Robotic Color Video Camera	Sony	BRC-H700 PTRZ	\$12,000	\$24,000
Total:						\$48,900

RM 1524 Hearing Room

Quan	Type	Description	Manufacturer	Model	Unit cost	Item total
8	Audio	Microphone	Shure	xx	\$300	\$2,400
1	Audio	Preamplifier	Digigram	Ethersound	\$2,000	\$2,000
1	Audio	Transport	Digigram	Converter	\$1,500	\$1,500
1	Audio	Mixer	Lectrosomics	DM812	\$4,000	\$4,000
1	Lighting	Max Light Package	Unknown	Max Lite	\$15,000	\$15,000
2	Video	Robotic Color Video Camera	Sony	BRC-H700 PTRZ	\$12,000	\$24,000
Total:						\$48,900

RM 1525 Hearing Room

Quan	Type	Description	Manufacturer	Model	Unit cost	Item total
8	Audio	Microphone	Shure	xx	\$300	\$2,400
1	Audio	Preamplifier	Digigram	Ethersound	\$2,000	\$2,000
1	Audio	Transport	Digigram	Converter	\$1,500	\$1,500
1	Audio	Mixer	Lectrosonics	DM812	\$4,000	\$4,000
1	Lighting	Max Light Package	Unknown	Max Lite	\$15,000	\$15,000
2	Video	Robotic Color Video Camera	Sony	BRC-H700 PTRZ	\$12,000	\$24,000
Total:						\$48,900

RM 2102 Hearing Room

Quan	Type	Description	Manufacturer	Model	Unit cost	Item total
8	Audio	Microphone	Shure	xx	\$300	\$2,400
1	Audio	Preamplifier	Digigram	Ethersound	\$2,000	\$2,000
1	Audio	Transport	Digigram	Converter	\$1,500	\$1,500
1	Audio	Mixer	Lectrosonics	DM812	\$4,000	\$4,000
1	Lighting	Minimum Lighting Package	Unknown	Min Light	\$7,500	\$7,500
2	Video	Robotic Color Video Camera	Sony	BRC-H700 PTRZ	\$12,000	\$24,000
Total:						\$41,400

Rotunda Public

Quan	Type	Description	Manufacturer	Model	Unit cost	Item total
3	Audio	Microphone	Shure	xx	\$300	\$900
3	Audio	Preamplifier	Digigram	Ethersound	\$2,000	\$6,000
3	Audio	Transport	Digigram	Converter	\$1,500	\$4,500
1	Audio	Mixer	Lectrosonics	DM812	\$4,000	\$4,000
Total:						\$15,400

Supreme Court

Quan	Type	Description	Manufacturer	Model	Unit cost	Item total
8	Audio	Microphone	Shure	xx	\$300	\$2,400
2	Audio	Preamplifier	Digigram	Ethersound	\$2,000	\$4,000
2	Audio	Transport	Digigram	Converter	\$1,500	\$3,000
2	Audio	Mixer	Lectrosonics	DM812	\$4,000	\$8,000
2	Video	Robotic Color Video Camera	Sony	BRC-H700 PTRZ	\$12,000	\$24,000
Total:						\$41,400

Warner Chamber

Quan	Type	Description	Manufacturer	Model	Unit cost	Item total
40	Audio	Microphone	Shure	xx	\$300	\$12,000
6	Audio	Preamplifier	Digigram	Ethersound	\$2,000	\$12,000
8	Audio	Transport	Digigram	Converter	\$1,500	\$12,000
6	Audio	Mixer	Lectrosonics	DM1612	\$8,000	\$48,000
3	Video	Robotic Color Video Camera	Sony	BRC-H700 PTRZ	\$12,000	\$36,000
Total:						\$120,000

Project Total: \$2,139,815