AWARD/CONTRACT

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2. CONTRACT NO.	3. EFFECTIVE DATE	4. REQUISITI	CON/PROJECT NO.
NRC-10-94-145	APR 2 6 1994	ADM-94-145	
5. ISSUED BY Code:	(If other	STERED BY Code r than Item 5)	
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7. NAME AND ADDRESS OF CONTRACTO Techniarts Engineering 1649 Kalorama Road, N.W. Washington, D.C. 20009	[]	ERY FOB ORIGIN OTHER (See bel	Low)
Principal Investigator/Techni Contact: William Moore Telephone No: (202) 362-8526	N/A	JNT FOR PROMPT	PAYMENT
10.SUBMIT INVOICES (4 copies unl SHOWN IN ITEM: 6	ess otherwise spe	cified) TO THE	ADDRESS
11. SHIP TO/MARK FOR CODE U.S. Nuclear Regulatory Commi 11545 Rockville Pike Two White Flint North, 2nd Fl Rockville, Maryland 20852	ssion U.S. 1 Divis oor GOV/CO	NT WILL BE MADE Nuclear Regulat ion of Accounti OM Accounting S ngton, D.C. 20	cory Commission ing & Finance Sec.;MNBB-11104
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14. ACCOUNTING AND APPROPRIATION B&R No.: 440-19-614-004 AP BOC: 3190 OBLIGATED AMO	PN No.: X0200 FI	N No.: D2465-4	
NO. SERVICES NO. SERVICES The NRC hereby accepts the dated 1/1/94 and revised 3/ herein by reference and mad contract for the "Purchase Equipment in the TWFN Main	21/94, which are le a part of this and Installation	PRICE nical proposal incorporated firm-fixed-price of Audiovisual	s ce
	15G.TOTAL AMOUNT	OF CONTRACT	\$410,219.75
EXCEPTION TO STANDARD FORM SF26 FAR(48 CFR) 53.214(a)	(REV.4-85)	Presc	ribed by GSA
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	CONTRACTING OFFICER WILL COMPLETE	ITEM 17 OR 18 AS APPLICABLE											
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PART I - THE SCHEDULE

SECTION B - SUPPLIES OR SERVICES AND PRICES/COSTS

B.1 PROJECT TITLE

The title of this project is as follows:

Purchase and Install Audiovisual Equipment in the Auditorium and the Advisory Committee on Reactor Safeguards Hearing Room at the Two White Flint North facility.

[End of Clause]

BRIEF DESCRIPTION OF WORK (MAR 1987) B.2

The contractor shall provide all equipment, labor and materials necessary for the installation and acceptance of the audiovisual systems as described herein, for the U.S. Nuclear Regulatory Commission's (NRC) Auditorium and the Advisory Committee on Reactor Safeguards Hearing Room facilities located at the Two White Flint North Building, in North Bethesda, Maryland.

[End of Clause]

CONSIDERATION AND OBLIGATION -- FIRM FIXED PRICE (JUN 1988) B.3

The firm fixed price of this contract is \$410,219.75. Payment will be made in accordance with the following completion/delivery and acceptance schedule:

Audiovisual System for the ACRS Main Meeting/Hearing Room, ACRS Sub-Committee Room, and ACRS Caucus Room \$191,505.84 (including standard three year warranty on equipment, excluding the video projectors)

Audiovisual System for Auditorium (including standard three year warranty on equipment, excluding the video projectors)

\$218,713.91

SECTION C - DESCRIPTION/SPECIFICATIONS/WORK STATEMENT

C.1 STATEMENT OF WORK

C.1.1 BACKGROUND

The United States Nuclear Regulatory Commission (NRC) intends to consolidate its headquarters staff, into a second building located at the intersection of Rockville Pike and Marinelli Road in North Bethesda, Maryland. The NRC requires an integrated state-of-the-art audiovisual system designed for Two White Flint North (TWFN), as described under the Scope of Work. This requirement involves the second building only, TWFN.

C.1.2 GENERAL DESCRIPTION

The system block diagrams (Attachment 9) indicate the general layout of the various Items of equipment and their functional relationships. However, the layout of equipment, accessories, and conduit systems are illustrative unless specifically detailed and do not necessarily indicate every item required for a complete installation and are intended as a guide.

The Contractor shall refer to construction prints (Attachment 8) for locations and quantities of receptacle boxes.

The Contractor shall supply and install all conduit and wireways to the extent not included in the base building contract, as shown on the attached print, in order to provide a complete and operable system. The Contractor shall also adhere to all pertinent federal, state, county, and municipal codes.

C.1.3 SCOPE OF WORK

The Contractor shall provide all supplies, cables, materials, equipment whether specifically mentioned in this document or not, and installation, for a complete operating system (turn-key system) for the United States Nuclear Regulatory Commission's Advisory Committee on Reactor Safeguards (ACRS) Main Meeting/Hearing Room, ACRS Sub-Committee Room, Caucus Room; and the Auditorium at the TWFN Building.

The United States Nuclear Regulatory Commission requires the services of a company to provide an integrated audiovisual and turn-key system. No omission on the part of the United States Nuclear Regulatory Commission in the specifications will absolve the Contractor from providing a totally integrated system.

C.1.3.1 ACRS Main Meeting/Hearing Room

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Section C

C.1 (Continued)

The Contractor shall provide:

- a. A dense overhead distribution system for sound reinforcement for microphones from locations throughout Meeting Room. The following microphones are required in the main meeting/hearing room: 11 at the main table, 1 on each of the other 8 tables, and 1 on the podium. In addition, 6 inputs shall be distributed around the rear of the Meeting Room and one input on either side of the front wall. The minimum number of inputs is 30, including a wireless microphone input. The wireless microphones shall use an unique and non-interfering frequencies, which shall be coordinated through the NRC Project Officer. The microphones shall be used in conjunction with an automatic mixer which shall turn off microphones when not in use.
- b. Recording capabilities for all audio and video material and program (cassette) including audio and video output (tie-line) to Sub-committee room, Caucus Room, and the Court Reporter station.
- C. A high resolution CRT type video projector for the projection of computer and video material. The video projector shall be mounted on a Stewart ceiling mounted lift, which will be provided by the NRC. The video sources shall include NTSC/PAL/SECAM inputs from 1/2" VHS VCRs, broadband cable, off-air, cable television, a video "overhead", and any other NTSC (video) source. A computer and video "tie-line" between the ACRS Main Meeting/Hearing Room, Sub-Committee Room, and Caucus Room shall be provided. Both the ACRS Main Meeting/Hearing Room and Sub-Committee Room shall have the ability to send and receive computer and video information from room to room. However, the Caucus Room shall have receive-only ability for computer, audio, and video information from the ACRS Main Meeting/Hearing Room.
- d. Hearing Impaired Sound Reinforcement via InfraRed (IR) system in both the ACRS Meeting/Hearing Room and Sub-Committee Room.
- e. Playback of audio and video soundtracks via overhead speaker system.
- f. Playback of NTSC/PAL/SECAM videotapes through multi-standard 1/2" VCR.
- g. Distribution of microphone and line level output of sound reinforcement source to Press Distribution Panel via wall mounted distribution panels with 4 outputs of mic and line level: XLR-M for microphone input to recorder or press cameras and 1/4" jack for line level.

Section C

C.1 (Continued)

- h. Cut-off ability for the audio and video "tie-lines" with positive disconnects which shall also have lighted status indication of engaged or disengaged operation.
- i. A push-button "quorum call" system. A non-offensive chime shall sound throughout the back corridors when the "quorum call" button is pushed. The locations of "quorum call" push buttons shall be in, at, or around the operators desk in both the ACRS Main Meeting/Hearing Room and Sub-Committee Room. Equipment location shall be in the Audio Visual (A/V) Equipment closet behind the screen of the ACRS Main Meeting/Hearing Room. The speakers for the "quorum call" system shall be located in the back corridors on the same floor, utilizing approximately 6 overhead ceiling speakers.
- j. Remote control and operators station control of audio volume, projector lift, screen, projector and switcher inputs, all VCRs and TV tuners. The Contractor shall include contact closure relays to accommodate four separate lighting levels.
- 1. Sound Reinforcement System

In the ACRS Main Meeting/Hearing Room the NRC requires a sound reinforcement system which shall be easy to use and as free of the need for operator adjustment as possible. Around the Main Meeting Room central committee table shall be 11 flush-mounted XLR microphone inputs for 18" or better gooseneck microphones to get as close to the mouths of the members as possible. Slim-line microphones are required. These microphones shall be hardwired back to the mixer via an NRC furnished conduit.

Eight(8) other tables are around the room which will require wiring with the same flush-mount microphone connectors for connection to XLR input plates which shall be in accordance with the attached prints. These XLR input connections shall be well dispersed, on wall or column, in anticipation of a variety of configurations for use. Standard J-boxes will already exist in these locations. In addition, a podium (NRC furnished) shall require an XLR mic connection to be mounted in it with an XLR connection to a floor pocket in receptacle. The general layout is that there shall be 11 microphones mounted on the main table, and eight(8) satellite tables shall have a flush-mounted XLR input for a gooseneck microphone which shall have a detachable XLR connector. Six(6) of the satellite tables (NRC furnished) are located near the front side columns, on which XLR input plates, either dual or single XLRs shall be found. The two front satellite tables shall have access to XLR inputs surface mounted beneath the Main Table for quick connection when necessary. The podium microphone shall also have access to an XLR connector either mounted under the table, or in a floor pocket at

right-front-center of the podium. Two other microphone input plates shall be located on either side of the projection screen. A dual XLR input shall be mounted on the center column, two single XLR inputs on the back two columns, and a single XLR input plate in-line with the center column, on either side wall. The microphone input plates shall mount on standard J-boxes. The input plates shall be made of a heavy gauge brushed aluminum, and engraved, in uppercase lettering of 1/4" or larger, with the microphone input number.

The microphones shall feed an automatic mixer system, which shall be rack mounted in the A/V Equipment room behind the screen area. A separate channel for each of the 28 microphone inputs, plus 2 spare channels for wireless microphones, and two(2) Auxiliary line level inputs shall be provided. The automatic microphone mixing system shall be compatible with any microphone and not have a "hard" or audible gate.

The material from the microphone system shall feed to a dense distribution overhead speaker system. The idea is to provide clean and even sound pressure levels across the entire ACRS Meeting Room to improve articulation and intelligibility, eliminate any auditory "hot spots", and to maximize the gain before feedback structure. An equalizer, feedback eliminator, and an amplifier shall be provided to tune the room to minimize any acoustic anomalies. In addition, twenty-one speaker locations shall be provided for sound support in the concealed spline ceiling area, and an additional 7 speakers in an aesthetically pleasing backcan over the "flying" ceiling (refer to attached prints).

2. Press Distribution

The output of the microphone and program material shall be fed into signal processing devices (line leveller, compressor/limiter) and distributed through Distribution Amplifier (DAs) to a Press Distribution Panel. The sound shall be clean and free from any hum or interference. The panel shall be located on a rear center column of the Meeting Room. The panel shall be constructed of a heavy gauge brushed aluminum plate which shall have XLR (male) mic level outputs and 1/4" line level output jacks for the press to get direct feeds off the mixer output. Each input/output shall be clearly labelled with an identifying microphone number. Six(6) XLR mic level outputs and six(6) 1/4" line level outputs shall be located on this plate.

A dual-well cassette deck which shall be rack mounted shall have the ability to record the material from the microphone mixer system's feed to the Press Distribution Panel.

As part of the output system for the Court Reporter, and a sub-set

C.1 (Continued)

of the Press Distribution System, an output panel with both microphone and line level output on XLR male (mic) and 1/4" female (line) shall be located at the front left side wall. The output panel for the Court Reporter shall allow connection of either the microphone and/or line level output for the Court Reporter's recording instruments.

3. Program Playback

Program material from all video source material shall be routed through the overhead distribution system.

Each video playback device (Multi-standard 1/2", industrial S-VHS 1/2", and TV tuner) shall feed through an audio follows video switcher for the computer/video projector and output to the overhead sound system.

All of the audio and video equipment, and switching equipment shall be rack mounted in the A/V Equipment room behind the front wall of the ACRS Meeting Room. The video equipment and dual well cassette deck shall be located in a custom contractor furnished "flying" bridge equipment rack which shall be easily accessible to the Computer operator's station at the front right of the room.

4. Computer and Video Projection

A high resolution (15 - 90 kHz) CRT type computer/video projector shall be located on a ceiling mounted projector lift (NRC furnished) in the center of the "flying" ceiling at the front of the ACRS Main Meeting/Hearing Room.

The feeds to the projector shall come from the following: (1) a computer feed at the Operator's Control Station at the front right of the room, (2) a rackmounted multi-standard (NTSC/PAL/SECAM) 1/2" VHS VCR, (3) a rackmounted industrial 1/2" S-VHS VCR, (4) a rackmounted TV tuner, (5) a front-right wall-mounted NTSC stereo audio input panel, (6) a center column mounted NTSC stereo audio input panel, (7) a front-right wall-mounted RGBS computer input panel, and (8) a RGBS tie-line from the Sub-Committee Room. The input plates shall be constructed of heavy gauge brushed aluminum which shall be engraved. As mentioned before, the input plates shall be clearly labelled as coordinated with the NRC Project Officer of designee.

The TV tuner, the industrial 1/2" S-VHS, and the Aux video input for the video overhead shall have an in line monitor for preview at the operator's station. All equipment shall be rack mounted. The projector switcher shall have multiple outputs(3), capable of routing the signal to the Sub-Committee Room and the Caucus Room.

A positive disconnect device to disconnect the audio and video

feeds to the other rooms shall be present to isolate the Main Meeting/Hearing Room when security or sensitivity is necessary.

The input plates shall be mounted on a standard or quad size metal electrical J-boxes in accordance with the attached prints. Conduit shall enclose the video and computer feed cables from the input plate in the stage area to the A/V Equipment room where the switcher shall be located. A right-angle type BNC pass-thru connector shall be used on these input plates to reduce any cable strain, and shall be fully insulated from the plate. All cable runs to the A/V Equipment room and between the rooms, and the projector shall utilize a premium quality high resolution cable for low line attenuation and minimized cable reflections of the video signal. They shall also be of equal length in the runs, and clearly labelled on both ends with a Brady-type label. The contractor shall provide drawings identifying the cable runs and connections.

5. Remote Control System

A comprehensive remote control system shall be provided for operation of all equipment, including lighting (refer to Section C.1.3.1(j)). The remote control system shall have the ability to raise and lower the projector lift, projector screen, computer/video projector and associated switcher, and operate overall room volume control, all VCRs, TV tuners, etc. The main remote control unit shall be located in the A/V Equipment Room on the rack.

The unit shall have both a wired control at the Operator's console and a wireless unit for use throughout the room. The layout of the remote control shall be user-friendly and provided to the NRC Project Officer for approval prior to the acceptance of the Audio Visual System.

C.1.3.2 ACRS Sub-Committee Room

The Contractor shall provide:

a. A dense overhead distribution system for sound reinforcement for microphones from locations throughout Sub-Committee Room. Three(3) low-profile microphones shall be used for the main table, one(1) microphone wall input plate at either side of the projection screen (NRC furnished) at the front, and one(1) microphone on the podium (NRC furnished). In addition, 2 inputs shall be at the rear of the Sub-Committee Room with provision for 1 wireless lavalier microphone. The minimum number of inputs is 8, including an input for the wireless lavalier microphone which shall be provided by the Contractor. The microphones shall be used in conjunction with an automatic mixer which shall turn off microphones when

not in use.

- b. Recording capabilities of all audio material and program (cassette) including output (tie-line) to the ACRS Main Meeting/Hearing Room and Court Reporter station.
- C. A high resolution CRT type video projector (15 90 KHZ) for the projection of computer and video material. The video projector shall be mounted on a Stewart ceiling mounted lift, which will be provided by the NRC. The video sources shall include NTSC/PAL/SECAM inputs from 1/2" VHS VCRs, broadband cable, off-air, cable television, a video "overhead", and any other NTSC (video) source. A computer and video "tie-line" between the ACRS Meeting Room/Hearing and Sub-Committee Room shall be provided. Both the ACRS Meeting/Hearing Room and Sub-Committee Room shall have the ability to send and receive computer and video information from room to room. The Caucus Room shall have receive-only ability from computer, audio and video information and from the ACRS Main Meeting/Hearing Room.
- d. Hearing Impaired Sound Reinforcement via InfraRed (IR) system.
- e. Playback of audio and video soundtracks via overhead speaker system.
- f. Playback of all NTSC/PAL/SECAM videotapes through multi-standard 1/2" VCR.
- g. Microphone and line level output of sound reinforcement source to Press Distribution Panel via wall mounted distribution panels with 4 outputs of mic and line level: XLR for microphone input to recorder or press cameras and 1/4" jack for line level. The microphone and line level output of sound reinforcement sources to court reporter output (front left) with one (1) output each of mic level on XLR-M (mic level) and 4" jack (line level).
- h. Cut-off ability for audio and video "tie-lines" with positive disconnects which shall have lighted status indication of engaged or disengaged operation.
- i. A push-button "quorum call" system. A non-offensive chime shall sound throughout the back corridors when "quorum call" button is pushed. The locations of "quorum call" push buttons shall be in, at, or around operators desk in both the ACRS Main Meeting/Hearing Room and Sub-Committee Room.
- j. Remote control and operators station control of audio volume, projector lift, screen, projector and switcher inputs, all

VCRs and TV tuners. The Contractor shall include for contact closure relays to accommodate four(4) separate lighting levels.

1. Sound Reinforcement System

In the ACRS Sub-Committee Room, the Contractor shall provide a sound reinforcement system which shall be easy to use and as free of the need for operator adjustment as possible. On the top of the Sub-Committee Room Conference table shall be 3 flush-mounted XLR microphone inputs for 3 vertically oriented cardioid dynamic tabletop microphones. {NOTE: The ACRS Sub-Committee Room is small, see attached prints for more detail}. These microphones serve to feed the overhead PA system and the distribution system for the Court Reporter and Press Distribution Panel. These microphone inputs shall be hardwired back to the mixer via an NRC furnished conduit. The Contractor shall provide in-line XLR connectors for removing microphones.

The XLR input connections shall be evenly dispersed, on a wall or column, in anticipation of a variety of configurations for use. The standard electrical J-boxes will already exist in these locations. In addition, an XLR mic connection to a wall input plate shall be provided for an NRC furnished podium. The Contractor shall provide a shock-mount XLR connector and gooseneck microphone on podium. The general layout is that there are 3 microphone inputs permanently mounted on the Conference table. A dual XLR input plate shall be located on the front right wall, on a column, to the side of the projection screen. Another mic input plate shall be on the other side of the screen to the left. In the rear, there shall be one XLR input on the right rear column and one XLR input plate on the back left wall. The microphone input plates shall be mounted on standard J-boxes. The input plates shall be made of a heavy gauge brushed aluminum, and engraved, as specified by the NRC, with the microphone input number.

The microphones shall feed an automatic mixer system, and shall be rack mounted in a furniture grade wood, which shall be coordinated with the NRC Project Officer of designee, A/V Equipment cabinet at the right rear of the room. A separate channel for each of the 8 microphone inputs, plus 1 spare channel for a wireless microphone, and 2 Auxiliary line level inputs shall be provided. The automatic microphone mixing system shall be compatible with any microphone and not have a "hard" or audible gate.

The material from the microphone system shall feed to a dense distribution overhead speaker system consisting of 14 speakers. The idea is to provide clean and even sound pressure levels across the entire ACRS Sub-Committee Room to improve articulation and intelligibility, eliminate any auditory "hot spots", and to

C.1 (Continued)

maximize the gain before feedback. An equalizer, feedback eliminator, and amplifier shall be provided to tune the room to minimize any acoustic anomalies. Fourteen speaker locations shall be provided for sound support in the concealed spline ceiling area.

2. Press Distribution

The output of the microphone and program material shall be fed into signal processing devices (line leveller, compressor/limiter) and distributed through DAs to a small Press Distribution Panel and located on a quad sized J-box. The sound shall be clean and level and free from any hum or interference. The panel shall be located on a rear center column of the Sub-Committee Room. The panel shall be constructed of a heavy gauge brushed aluminum plate which shall have XLR mic level output and 1/4" line level output jacks for the press to get direct feed off of the mixer output. Each of the two mic and line level outputs shall be clearly labelled. Two(2) XLR mic level outputs and two(2) 1/4" line level outputs shall be located on this plate.

A dual-well cassette deck shall have the ability to record the material from the microphone mixer system's feed to the Press Distribution Panel.

As part of the output system for the Court Reporter, and a sub-set of the Press Distribution System, an output panel with both microphone and line level output on XLR male (mic) and 1/4" female (line) shall be located at the front left side wall. The output panel for the Court Reporter shall allow connection of either the microphone and/or line level output for the Court Reporter's recording instruments.

3. Program Playback

Program material from all video source material shall be routed through the overhead distribution system.

The two video devices (Multi-standard 1/2" and TV tuner) shall feed through an "audio follows video" switcher for the computer/video projector and output to the overhead sound system.

All of the audio and video equipment and switching equipment shall be rack mounted in the furniture grade A/V Equipment cabinet at the back right corner wall of the ACRS Sub-Committee Room.

4. Computer and Video Projection

A high resolution (15 - 90 Khz) CRT type computer/video projector shall be located on a ceiling mounted projector lift (NRC furnished) in the center of the ceiling at the front of the ACRS

C.1 (Continued)

Sub-Committee Room and project onto the NRC furnished projection screen.

The feeds to the projector via the switcher shall come from the following: (1) a computer feed at the Operator's Control Station at the back right of the room and complete with the necessary computer interface, (2) a rackmounted multi-standard (NTSC/PAL/SECAM) 1/2" VHS VCR, (3) a rackmounted TV tuner, (4) a front-right room wall-mounted NTSC stereo audio input panel, (5) a front-right wall-mounted RGBS stereo audio computer input panel, (6) a rack space mounted NTSC with stereo audio input panel, and (7) an auxiliary RGBS tie-line from the ACRS Main Meeting/Hearing Room. Wall mounted input plates shall be constructed of heavy gauge brushed aluminum plate which shall be engraved. As mentioned before, these input plates shall be clearly labelled.

The video switcher used shall be of modular construction for configuring to the input types described above. The video switcher shall have multiple outputs (2), capable of routing the signal to the ACRS Main Meeting/Hearing Room Switcher and projector.

A positive disconnect device to disconnect the audio and video feeds to the ACRS Main Meeting Room shall be present to isolate the ACRS Sub-Committee Room from the ACRS Main Meeting/Hearing Room feed when security or sensitivity is necessary. The disconnect device shall cut the outgoing audio and video/computer signal to the ACRS Main Meeting/Hearing Room. The disconnect button shall be on a rackmounted plate and the button shall light when the disconnect is engaged.

The input video and computer plates and Press Distribution Panel shall be mounted on a standard or quad size metal electrical J-box in accordance with the attached prints. Conduit shall enclose the video and computer feed cables from the input plate in the front of the Sub-Committee room to the A/V Equipment Rack at the back of the room where the switcher shall be located. A right-angle type BNC pass-thru connector shall be used on these input plates to reduce any cable strain, and be fully insulated from the plate. All cable runs from the A/V Equipment Rack and between the rooms and projector shall utilize a premium quality high resolution cable for low line attenuation and minimized cable reflections of the video signal. They shall also be of equal length in the runs, and clearly labelled on both ends with a Brady-type label. The contractor shall provide drawings identifying cable runs and connections.

5. Remote Control System

A comprehensive remote control system shall be provided for operation of all equipment, including lighting (refer to Section

C.1 (Continued)

C.1.3.1(j)). The remote concrol system shall have the ability to raise and lower the projector lift, projection screen, and operate computer/video projector and associated switcher, overall room volume control, all VCRs, TV tuners, etc.

The unit shall have both a wired control at the operators console at the back of the ACRS Sub-Committee Room and a wireless unit for use throughout the room. The layout of the remote control shall be user-friendly and provided to the NRC Project Officer for approval prior to acceptance of the Audio Visual system.

C.1.3.3. ACRS Caucus Room

The Contractor shall provide:

- a A single overhead speaker with a volume control to allow ACRS members to monitor events in the ACRS Main Meeting/Hearing Room.
- b. A tie-line from the ACRS Main Meeting/Hearing Room via RGBS and Audio shall feed a 20" multi-sync computer/video monitor which shall also be connected to a 1/2" VCR. The cable system shall be connected to the VCR for viewing programming.
- c. Connection of a VGA computer (NRC furnished) to the 20" multi-sync computer/video monitor.

The Member's Caucus Room shall have a 20 inch color computer/video monitor, which shall be provided by the Contractor, for use as the primary computer monitor in the ACRS Caucus Room. The color multi-sync monitor shall have front panel push-button select between the computer and video inputs. The selections shall be clearly marked with lamacoid labels. A tie-line from the ACRS Main Meeting/Hearing Room shall be connected to the RGBS input #1 via BNC connectors. A VGA CPU (NRC furnished) shall be connected to the RGB 2 input via a custom 15p H-D (VGA) cable to the monitor's 25 pin RGB input. The vidro input shall be connected to a hi-fi VHS VCR with a jog/shuttle dial for frame- by-frame viewing. The audio shall utilize the built-in speakers of the multi- sync monitor. The TV tuner contained within the VCR shall provide for demodulation of NRC broadband cable.

A single speaker, to be located over head, shall be provided with the audio tie-line from the ACRS Main Meeting/Hearing Room. A wall mounted volume control and ON/OFF switch shall be provided which is easily accessible.

Member Quorum Call System

To call the ACRS members to Quorum, a small paging system which chimes and can be accessed from multiple locations shall be installed. The system shall support 6 speakers which shall be

C.1 (Continued)

evenly distributed throughout the floor. The output shall be low-level. The Quorum call system shall be located in the Audio rack behind the ACRS Main Meeting/Hearing room. The quorum call buttons shall be located at each of the Operators desks in the ACRS Main Meeting/Hearing Room and in the Sub-Committee room. A 60 watt mixer/amplifier with a paging module and chime module shall be located at the Operators desk in the ACRS Main Meeting/Hearing Room), as well as one additional line level RCA input module) shall be included this system.

C.1.3.4 Main Auditorium

The Contractor shall provide:

- a. An over head distribution system for sound reinforcement.
- B. Recording capabilities of all audio material and program (cassette).
- c. Three(3) video cameras for production, recording, and distribution throughout the broadband cable network of NRC White Flint I & II.
- d. Wiring, hook-up and interfacing of the following video sources: NTSC/PAL/SECAM inputs from 3/4" U-matic, 1/2" VHS VCRs, broadband cable, off- air, cable television, a video "overhead", laserdisk, interior video cameras and any other NTSC source. The computer and video sources shall be accessible from both the Auditorium and Control booth areas.
- e. Hearing Impaired Sound Reinforcement via InfraRed (IR).
- f. Playback of stereo or monaural soundtracks from audio tape sources via front-of-house 3 channel theater system through Left-Center-Right signal processor.
- g. Playback of stereo or monaural soundtracks from audio tape sources and FM radio via overhead distribution system for light background music.
- h. Microphone and line level output of sound reinforcement sources to Press Distribution Panel via wall mounted distribution panel: XLR for microphone input to recorder or press camera and 1/4" jack for line level.

1. Public Address System

In the Auditorium the Contractor shall provide a public address system which shall be easy to use and any free of the need for operator adjustment as possible. Arcon, the Auditorium shall be 18 microphone inputs, in accordance and the attached prints, in

anticipation of a variety of configurations for use. A pair of inputs shall be located at the back sides, a pair at each of the middle sides, two inputs at a center floor box, two inputs at the left side of the stage, and six inputs at the right side of the stage. The microphone inputs shall be on J-boxes which require a dual XLR mic input plate. The microphone input plates shall be made of a heavy gauge brushed aluminum, and engraved, in uppercase lettering of 1/4" or larger, with the microphone input number.

The microphones shall feed an automatic mixer system, and shall be rack mounted in the booth. A separate channel for each of the 18 microphone inputs, plus 4 spare channels shall be provided, with one channel for a booth talk-back microphone which shall be provided by the Contractor. The automatic microphone mixing system shall be compatible with any microphone and not have a "hard" or audible gate.

A audio booth monitoring system shall be included to monitor the Auditorium Sound System as well as program material.

The material from the microphone system shall feed to a dense distribution overhead speaker system. The idea is to provide clean and even sound pressure levels across the entire Auditorium to improve articulation and intelligibility, eliminate any auditory "hot spots," and to maximize gain before feed back. An equalizer, feedback eliminator, and an amplifier shall be included to tune the room to minimize any acoustic anomalies. The speakers shall be wired so that every other speaker comes off a different channel of the amplifier to provide redundancy in case one amplifier channel is crippled.

2. Press Distribution

The output of the microphone and program material shall feed into signal processing devices (line leveller, compressor/limiter) and distributed through DAs to a small Press Distribution Panel. The panel shall be located at the rear center of the Auditorium, beneath the overhang of the booth. The panel shall be constructed of a heavy gauge brushed aluminum plate which shall have XLR mic level output and 1/4" line level output jacks for the press to get a direct feed off of the mixer output, and shall be clearly labelled. Twelve(12) XLR mic level outputs and twelve(12) 1/4" line level outputs shall be located on this plate.

A dual-well cassette deck shall have the ability to record the material from the microphone mixer system's feed to the Press Distribution Panel.

3. Program Playback

Program material from all video source material except PA shall be

C.1 (Continued)

routed through a left-center-right speaker system at the front of the Auditorium. Three(3) theater speakers, which will be provided by the Contractor, shall be located behind the front mesh and shall provide audio playback from video material. The speakers shall be located on custom stands in order to position the horn portion for best audio or sound reproduction. Two subwoofers, which shall be provided by the Contractor, shall be located to the left and right and sighted and positioned for best sound reproduction.

Each play back device (Multi-standard VCR, 1/2" S-VHS, 3/4" U-matic player, multi-laser disk, TV tuner, dual well cassette, etc.) shall feed through an "audio follows video" switcher. An audio output shall feed a small dual output pre-amp with FM stereo tuner, to a surround-sound processor for the main auditorium speakers and to the booth monitor system. The surround-sound processor shall steer the signal to the left-center-right and subchannels in the auditorium.

All of the equipment shall be rack mounted in the Control Booth.

4. Computer and Video Projection

A light-valve type computer/video projector (NRC furnished) shall be located in the rear projection room of the Auditorium. Due to the restrictions in space available, a first-surface mirror system, to be provided by the Contractor, shall reflect the projected output onto the rear projection screen (NRC furnished). This as an extremely short throw (less than 1.4: 1 ratio screen width to distance) as well as a slight oblique angle to position the picture on the screen past a building pillar. The rear screen mirror shall be of sufficient size to fully transfer the picture onto the 9 ft. x 12 ft. rear screen from edge to edge without distortion. The rear screen mirror assembly shall be permanently affixed to the building slab once correctly positioned. The mirror assembly shall consist of a heavy duty flat black anodized aluminum frame holding the first surface mirror which shall have the ability to be adjusted (XYZ/roll-pitch-yaw) to precisely align the projected image without distortion. The projector (NRC furnished) shall be located on a permanently mounted stand, which shall be provided by the Contractor, and attached to the building slab, free of wobbles or shifting. The feeds to the projector shall come from the booth equipment rack for NTSC, scan doubled video sources, and computer sources.

The feeds to the booth from the stage area (right side), center floor pocket, and left wall area shall be an NTSC feed with stereo audio and a RGBS. In addition, video feeds and returns from a video DA, shall be located in the Auditorium floor center pocket, at the side left back wall, and at the front right wall. These feeds shall be found on a customized input plate and clearly

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C.1 (Continued)

labelled. The input plates shall be constructed of heavy gauge brushed aluminum and engraved.

The input plates shall be mounted on a standard, quad, or larger, size metal electrical J-box in accordance with the attached prints. Conduit shall enclose the video and computer feed cables from the input plate in the stage area to the control booth. The right-angle type BNC pass-thru connectors shall be used on this input plate to reduce any cable strain, and be fully insulated from the plate. All cable runs to the A/V Equipment room and between the rooms and the projector shall utilize a premium quality high resolution cable for low line attenuation and minimized cable reflections of the video signal. They shall also be of equal length in the runs, and clearly labelled on both ends with a Brady-type label. The Contractor shall provide drawings identifying the cable runs and connectors.

The RGBS cables shall be run to a 6 x 1 RGBS switcher rackmounted in one of the equipment racks. Each input shall be clearly labelled as to source location with lamacoid type labels. A fourth input shall be looped out for a front-panel input and labelled. The fifth input shall be labelled for the scan doubled video feed to the projector.

The video from each device and feed location shall feed a matrix video switcher which shall be connected to the waveform monitor and vectorscope for confidence checking. The signal of each input device shall be called up on the waveform monitor and vectorscope to check signal without interference. Above the waveform monitor and vectorscope shall be a 9" rackmounted monitor to confirm the program selection and picture.

The audio-follow-video matrix switcher shall have the ability to route the audio and video signals from any input to any output. The matrix switcher shall be provided to eliminate a major patchbay system and to aid the operator in video routing. Each input location and video device shall be connected to a separate input of the matrix switcher. Each recordable device shall also be hooked to an output. A small rack mounted patchbay of audio and video inputs and outputs (3 in., 3 out) shall be provided to accommodate unexpected needs for audio and video recording and playback. A spare RGBS input shall also be incorporated in the auxiliary input faceplate.

The main program video output of the matrix switcher shall run into a full frame synchronizer/TBC. The main program video monitor shall come from the output jack for the program monitoring. The monitor shall loop back as an input to the matrix switcher. From the full frame synchronizer/TBC, the signal shall be routed both directly to the lightvalve projector and to a Faroudja LD-100 line doubler/signal processor which shall be

C.1 (Continued)

provided by the Contractor. From the line doubler, the signal shall enter the 6 x 1 RGBS switcher and cabled via high resolution cables to the lightvalve projector RGBS input.

An Rf encoder (audio and video to Rf) shall be attached to an output of the matrix switcher for broadband distribution output to the NRC broadband cable system. The Rf output channel will be provided by the NRC Project Officer at a later date.

5. Camera System

The Contractor shall provide two(2) remote controlled, CCU equipped, high resolution cameras on pan and tilt mounts which shall be located in the Auditorium for remote tapings and rebroadcast of events. These cameras shall be of "brandname or equal" and compatible with our existing Sony cameras for reasons of redundancy in case of need for spares. One of the cameras shall be located on a wall mount to the left-hand side of the Auditorium, while the second shall be located, ceiling mounted, at or near the center. The ceiling mounted camera shall be positioned in conjunction with the booth's possible use as a source for slide projection, that is, to avoid any potential interference of a projected image. The camera mounts shall be selected for aesthetics as well as function.

Each camera shall have an electronic zoom lens. The operator in the control booth shall be able to pan and tilt each camera, zoom and focus via rackmounted camera control in the booth. The pan and tilt devices shall have positive stops for braking to prevent "coasting." The pan and tilt devices shall have silent operation. The camera CCUs shall be rack mounted in the booth. A double or triple rack-mounted color monitor shall preview each camera, and a larger monitor shall show the camera "program" and shall be labelled with lamacoid type labels.

A third high resolution camera shall be provided for use on the Auditorium floor. This unit shall be provided with a high quality, heavy duty field type tripod, dual arms with wheel assembly, and a professional fluid head. The Auditorium floor camera output shall have the ability to be connected to any of the auxiliary video feeds. These auxiliary video feeds shall go to the switcher and shall have the ability to be mixed with the video mixer and matrix switcher. The system shall accommodate a three camera shoot.

The Contractor shall provide a blackburst DA which shall synchronize the video switcher and the camera CCUs.

A small video production mixer shall be located in the booth for switcher/fading between camera sources. The program output of the video switcher shall feed into an audio/video DA for

C.1 (Continued)

redistribution to the matrix switcher, the videotape recorders, the Auditorium video outputs, and rack patch panel.

6. Intercom System

The Contractor shall provide an intercom system. The intercom station outputs shall be located at each of the floor camera locations, the front podium side of the Auditorium, the rear of the Auditorium, the rear projection room, and the Master Unit in the Control Room. A minimum of 3 single muff operator headsets shall be provided in addition to a rackmount Master Station gooseneck and Control Booth operators unit with single muff headset. The intercom system shall enable any producer in the booth to instruct multiple floor operators and technicians.

C.1.3 INSTALLATION

- Within seven (7) days of contract execution, the NRC Project Officer will provide the Contractor with projected dates when the relevant areas will be available for the on-site installation.
- 2. All installation practices shall be done in accordance with the applicable standards, guidelines, recommendations, and requirements of the National Electric Code, and local authorities having jurisdiction. All installation practices should reflect the highest state-of-the-art standards, not the minimum acceptable installation practices.
- 3. All equipment shall be secure in its position; plumb and square. All equipment shall be fastened in place unless portability dictates otherwise. All equipment fastenings and supports shall support more than their loads.
- 4. Installation shall include the delivery, unloading, storing, setting in place, fastening to walls, floors, ceilings, counters, or other structures where required, interconnecting wiring of the system components, equipment alignment and adjustment, and all other work whether or not expressly required herein which is necessary to result in complete operational systems.
- 5. During the installation, and up to the date of final acceptance, the Contractor shall be under obligation to protect his finished and unfinished work against damage and loss. In the event of such damage or loss, the Contractor shall replace or repair such work at no cost to the NRC.
- 6. All cables, regardless of length, shall be marked with Brady-type labels at both ends. There shall be no unmarked cables any place in the system. Marking codes used on cables

shall correspond to codes shown on the drawings and/or run sheets. Cables shall be bundled together (electrical, audio, video, etc.) as practice and logic dictate.

- All inter-rack cabling shall be neatly strapped, dressed, and adequately supported.
- 8. Terminal blocks, boards, strips, or connectors, shall be furnished for all cables which interface with racks, cabinets, consoles or equipment modules.
- 9. Audio (microphone) XLR type.
- 10. Audio (loudspeaker level) 1/4" diameter tip/ring/sleeve type. Jack shall be insulated from panel.
- 11. Video BNC type. . . Receptacles shall be insulated from panel.

C.1.4 INSTALLATION/ACCEPTANCE SCHEDULE

Final installation of equipment balancing, adjusting and testing shall be provided within 75 calendar days from contract award.

C.1.5 TRAINING

The Contractor shall provide on-site instruction in the operation and maintenance of the systems.

The NRC may assign personnel to observe the contractor during installation in order to familiarize him/herself with the system, its installation, equipment, placement, wiring, and maintenance.

During Contractor system tests and adjustments, the NRC Project Officer or designee may observe.

The Contractor shall provide a minimum of two days training, in the operation and basic maintenance of all systems and equipment, for a minimum of 4 individuals to be designated by the NRC. This training shall commence after final acceptance of the Audio Visual systems.

C.1.6 WARRANTY/GUARANTEE

All equipment and the entire installation shall be unconditionally warranted for a minimum of one year from completion of installation and acceptance. All manufacturers warranties shall also apply.

The Contractor shall provide an additional optional one-year warranty on the installed systems.

During the one year warranty period, the Contractor shall conduct two (2) semi-annual visits to the site for a routine check-up and preventive maintenance on all equipment. Check and adjust all settings and outputs.

During the warranty period the Contractor shall, within 4 hours of notification, provide emergency service to restore operation of the system, replacing defective materials, and repairing or replacing faulty workmanship. Due to the time-critical nature of NRC meetings, staffing and member considerations regarding schedules, it is essential that the system be operational during NRC work hours (7:30 - 4:15). The Contractor must be able to guarantee that this 4 hour or better response time can be met.

The Contractor shall make temporary repairs and provide loaner equipment at no charge to the Government if defective materials cannot be permanently replaced or repaired during this 4 hour period. This shall not include failure caused by misuse or abuse, which will be determined by the NRC Project Officer or designee.

The Contractor shall respond within 24 hours for all non-emergency repairs. The determination of non-emergency vs. emergency repairs will be at the discretion of the NRC Project Officer or designee. The Contractor will be provided the priority level of the call at time of the repair call.

C.1.7 QUALITY ASSURANCE

The Contractor shall:

- be responsible for all manufactured components, installation, wiring, and testing,
- be responsible for ensuring that all work is performed under the contract,
- supply and install any incidental equipment needed in order to result in a complete and operable system even if not specified or shown on drawings without claim for additional payment,
- verify correctness of parts lists and equipment model numbers and conformance of each component with manufacturers specification,
- o obtain all permits necessary for the execution of the work, and shall comply with all applicable federal, state, county, and municipal codes,
- o supply only new equipment of the latest manufacture and

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Section C

C.1 (Continued)

operate it in the manner it was intended, and

- o maintain a complete set of system drawings and specifications on the worksite.
- C.1.8 SYSTEM ACCEPTANCE TESTS
- a. Contractor Certification

For the purpose of acceptance testing, equipment proposed for each site shall be considered one system; each delivered system shall undergo acceptance testing. Upon delivery of a system to the Government site, the Contractor shall certify, in writing that the system, including all devices and interfaces with the Government-owned equipment (if applicable) is installed and ready for acceptance testing, and that the system complies with the manufacturers's specification and with all technical requirements described under this Statement of Work. These certifications shall not lessen the Government's right to inspect and accept or reject delivered systems.

b. Acceptance Tests

System Acceptance tests shall consist of the following:

- An inventory of all equipment on site and in the system which will be compared with the equipment lists previously supplied and in the contract document.
- o Operation of all systems performed by the Contractor.
- Both subjective and objective tests of all systems as required, with pertinent test equipment supplied by the Contractor as necessary.
- O Confirmation of all simplified system manuals, equipment owner's manual and "as-built" drawings for system block diagram, equipment and wiring runs. Check for completeness and accuracy of all labelling and engraving. Check for correctness and completeness of operations labels and rack block diagrams attached to each relevant unit.
- Generation of a "punchlist" for any corrective adjustment, repair or replacement of defective equipment or parts.
- o Sign off on system when all requirements are met.

C.1.9 TIDY WORKSPACES AND EMPLOYEE RESPONSIBILITIES

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Section C

C.1 (Continued)

The Contractor shall leave all work spaces in a tidy state upon leaving for the day. All debris and refuse will be placed in the appropriate receptacle or bin or be removed from the site. The Contractor will be responsible for the actions of his employees on-site. The Contractor shall be responsible for repairing any damage caused to the work premises as a result of his actions.

C.1.10 COOPERATION WITH NRC EMPLOYEES AND OTHER CONTRACTORS

The Contractor shall cooperate with NRC employees and other Contractors, to the fullest extent, to the end that interferences and inefficiencies do not occur.

C.1.11 EQUIPMENT DELIVERY AND STORAGE

Costs of all shipping to the site and unusual storage requirements shall be borne by the Contractor. The Contractor shall be responsible to make appropriate arrangements and coordinations with the NRC Project Officer or designee at the site for proper acceptance, handling, protection, and storage of the equipment.

Section D

SECTION D - PACKAGING AND MARKING

D.1 PACKAGING AND MARKING (MAR 1987)

The Contractor shall package material for shipment to the NRC in such a manner that will ensure acceptance by common carrier and safe delivery at destination. Containers and closures shall comply with the Interstate Commerce Commission Regulations, Uniform Freight Classification Rules, or regulations of other carriers as applicable to the mode of transportation. On the front of the package, the Contractor shall clearly identify the contract number under which the product is being provided.

Section E

SECTION E - INSPECTION AND ACCEPTANCE

E.1 52.252-2 CLAUSES INCORPORATED BY REFERENCE (JUN 1988)

This contract incorporates one or more clauses by reference, with the same force and effect as if they were given in full text. Upon request, the Contracting Officer will make their full text available.

I. FEDERAL ACQUISITION REGULATION (48 CFR CHAPTER 1) CLAUSES

NUMBER TITLE

DATE

52.246-4 INSPECTION OF SERVICES FEB 1992 - FIXED-PRICE

[End of Clause]

E.2 PLACE OF INSPECTION AND ACCEPTANCE (MAR 1987)

Inspection and acceptance of the deliverable items to be furnished hereunder shall be made by the Project Officer at the destination.

SECTION F - DELIVERIES OR PERFORMANCE

F.1 52.252-2 CLAUSES INCORPORATED BY REFERENCE (JUN 1988)

This contract incorporates one or more clauses by reference, with the same force and effect as if they were given in full text. Upon request, the Contracting Officer will make their full text available.

I. FEDERAL ACQUISITION REGULATION (48 CFR CHAPTER 1) CLAUSES

NUMBER TITLE

DATE

52.212-13 STOP-WORK ORDER

AUG 1989

[End of Clause]

F.2 DURATION OF CONTRACT PERIOD (MAR 1987)

This contract shall commence on the effective date and will expire 75 days thereafter.

[End of Clause]

F.3 DELIVERABLES

- The Contractor shall submit to the NRC Project Officer within 15 days from contract award, custom designs pertaining to the system as described in Section C. These designs include but are not limited to the following:
 - a. Custom panels, plates, and labels: include terminology, engraving, finish and color.
 - All custom designed projection stands, tables, carts, bases, or racks.
 - c. Schematics of any custom circuitry.
 - d. Equipment modifications.
- One week prior to commencement of installation at the site, the Contractor shall submit to the NRC Project Officer, the following:
 - a. All system functional block drawings/diagrams, including audio, video and control block diagrams,
 - b. Run sheets or field wiring diagrams,

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Section F

F.3 (Continued)

- b. Run sheets or field wiring diagrams,
- c. Any patch panel assignment drawings,
- d. Internal rack or console wiring drawings, including internal cable coding numbers and/or letters,
- e. Equipment modification drawings,
- f. Final schematic drawings of any custom circuitry, including pin-outs and components,
- q. Front rack elevations,
- h. Equipment layouts, and
- i. Equipment controls labelling.

Two weeks prior to system delivery, the Contractor shall provide three(3) draft copies of all specified diagrams, schedules, and manuals for inspection and reference before demonstration and acceptance testing. The simplified USER's INSTRUCTIONS shall be used as a guide for equipment operation. The Contractor shall run through all tests of audio and video systems prior to applying for Acceptance Testing. The NRC Project Officer will approve/disapprove all diagrams, schedules, etc. prior to final acceptance (contract expiration).

The final copies of the diagrams, schedules, etc. to be provided to the NRC Project Officer prior to final acceptance, shall be in three(3) copies in a bound manual at a minimum size of 8 $1/2 \times 11$ inches of a standard grade paper except where originals dictate otherwise, and shall include the following: (NOTE: Xerographic facsimiles are acceptable provided they are legible.)

- 1. Manufacturer's equipment instruction book.
- "As-built" drawings for a system block diagram; equipment and wiring runs in each room
- 3. Systems operational manual (USER's SIMPLIFIED MANUAL)
- 4. Any other information necessary for the proper operation and maintenance of the entire system.
- All service manuals shall be provided for each piece of equipment, where available, in only one (1) copy, in a separate binder(s).

A system block diagram(s) shall be encased in plastic and secured to the relevant rack for quick reference by NRC personnel. All

F.3 (Continued)

operations controls shall be labelled with a lamacoid type label, and engraved.

SECTION G - CONTRACT ADMINISTRATION DATA

G.1 NRCAR 2052.215-72 PROJECT OFFICER AUTHORITY ALTERNATE 1 (JAN 1993)

(a) The contracting officer's authorized representative, hereinafter referred to as the project officer for this contract is:

Name: Roger Lindsay

Address: U.S. Nuclear Regulatory Commission Office of Administration Mail Stop P4-01 Washington, D.C. 20555

Telephone Number: (301) 504-1001

- (b) The project officer shall:
 - Monitor contractor performance and recommend to the contracting officer changes in requirements.
 - (2) Inspect and accept products/services provided under the contract.
 - (3) Review all contractor invoices/vouchers requesting payment for products/services provided under the contract and make recommendations for approval, disapproval, or suspension.
- (c) The project officer may not make changes to the express terms and conditions of this contract.

Section H

SECTION H - SPECIAL CONTRACT REQUIREMENTS

H.1 NRCAR 2052.204-71 SITE ACCESS BADGE REQUIREMENTS (JAN 1993)

During the life of this contract, the rights of ingress and egress for contractor personnel must be made available as required. In this regard, all contractor personnel whose duties under this contract require their presence on-site shall be clearly identifiable by a distinctive badge furnished by the Government. The Project Officer shall assist the contractor in obtaining the badges for the contractor personnel. It is the sole responsibility of the contractor to ensure that each employee has proper identification at all times. All prescribed identification must be immediately delivered to the Security Office for cancellation or disposition upon the termination of employment of any contractor personnel. Contractor personnel must have this identification in their possession during on-site performance under this contract. It is the contractor's duty to assure that contractor personnel enter only those work areas necessary for performance of contract work, and to assure the safeguarding of any Government records or data that contractor personnel may come into contact with.

[End of Clause]

H.2 NRCAR 2052.209-73 CONTRACTOR ORGANIZATIONAL CONFLICTS OF INTEREST (JAN 1993)

- (a) <u>Purpose</u>. The primary purpose of this clause is to aid in ensuring that the contractor:
 - Is not placed in a conflicting role because of current or planned interests (financial, contractual, organizational, or otherwise) which relate to the work under this contract; and
 - (2) Does not obtain an unfair competitive advantage over other parties by virtue of its performance of this contract.
- (b) <u>Scope</u>. The restrictions described apply to performance or participation by the contractor, as defined in 48 CFR 2009.570-2 in the activities covered by this clause.
- (c) Work for others.
 - Notwithstanding any other provision of this contract, during the term of this contract the contractor agrees to

H.2 (Continued)

forego entering into consulting or other contractual arrangements with any firm or organization, the result of which may give rise to a conflict of interest with respect to the work being performed under this contract. The contractor shall ensure that all employees under this contract abide by the provision of this clause. If the contractor has reason to believe with respect to itself or any employee that any proposed consultant or other contractual arrangement with any firm or organization may involve a potential conflict of interest, the contractor shall obtain the written approval of the contractual arrangement.

- (2) The contractor may not represent, assist, or otherwise support an NRC licensee or applicant undergoing an NRC audit, inspection, or review where the activities that are the subject of the audit, inspection or review are the same as or substantially similar to the services within the scope of this contract (or task order as appropriate), except where the NRC licensee or applicant requires the contractor's support to explain or defend the contractor's prior work for the utility or other entity which NRC questions.
- (3) When the contractor performs work for the NRC under this contract at any NRC licensee or applicant site, the contractor shall neither solicit nor perform work in the same or similar technical area for that licensee or applicant organization for a period commencing with the award of the task order or beginning of work on the site (if not a task order contract) and ending one year after completion of all work under the associated task order, or last time at the site (if not a task order contract).
- (4) When the contractor performs work for the NRC under this contract at any NRC licensee or applicant site,
 - (i) The contractor may not solicit work at that site for that licensee or applicant during the period of performance of the task order or the contract, as appropriate.
 - (ii) The contractor may not perform work at that site for that licensee or applicant during the period of performance of the task order or the contract, as appropriate, and for one year thereafter.
 - (iii) Notwithstanding the foregoing, the contracting officer may authorize the contractor to solicit or perform this type of work (except work in the same

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H.2 (Continued)

or similar technical area) if the contracting officer determines that the situation will not pose a potential for technical bias or unfair competitive advantage.

(d) Disclosure after award.

- The contractor warrants that to the best of its knowledge and belief, and except as otherwise set forth in this contract, it does not have any organizational conflicts of interest as defined in 48 CFR 2009.570-2.
- (2) The contractor agrees that, if after award, it discovers organizational conflicts of interest with respect to this contract, it shall make an immediate and full disclosure in writing to the contracting officer. This statement must include a description of the action which the contractor has taken or proposes to take to avoid or mitigate such conflicts. The NRC may, however, terminate the contract if termination is in the best interest of the government.
- (3) It is recognized that the scope of work of a task-order-type contract necessarily encompasses a broad spectrum of activities. Consequently, if this is a task-order-type contract, the contractor agrees that it will disclose all proposed new work involving NRC licensees or applicants which comes within the scope of work of the underlying contract. Further, if this contract involves work at a licensee or applicant site, the contractor agrees to exercise diligence to discover and disclose any new work at that licensee or applicant site. This disclosure must be made before the submission of a bid or proposal to the utility or other regulated entity and must be received by the NRC at least 15 days before the proposed award date in any event, unless a written justification demonstrating urgency and due diligence to discover and disclose is provided by the contractor and approved by the contracting officer. The disclosure must include the statement of work, the dollar value of the proposed contract, and any other documents that are needed to fully describe the proposed work for the regulated utility or other regulated entity. NRC may deny approval of the disclosed work only when the NRC has issued a task order which includes the technical area and, if site-specific, the site, or has plans to issue a task order which includes the technical area and, if site-specific, the site, or when the work violates paragraphs (c)(2), (c)(3) or (c)(4) of this section.
- (e) Access to and use of information.

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H.2 (Continued)

- (1) If in the performance of this contract, the contractor obtains access to information, such as NRC plans, policies, reports, studies, financial plans, internal data protected by the Privacy Act of 1974 (5 U.S.C. Section 552a (1988)), or the Freedom of Information Act (5 U.S.C. Section 552 (1986)), the contractor agrees not to:
 - (i) Use this information for any private purpose until the information has been released to the public;
 - (ii) Compete for work for the Commission based on the information for a period of six months after either the completion of this contract or the release of the information to the public, whichever is first;
 - (iii) Submit an unsolicited proposal to the Government based on the information until one year after the release of the information to the public; or
 - (iv) Release the information without prior written approval by the contracting officer unless the information has previously been released to the public by the NRC.
- (2) In addition, the contractor agrees that, to the extent it receives or is given access to proprietary data, data protected by the Privacy Act of 1974 (5 U.S.C. Section 552a (1988)), or the Freedom of Information Act (5 U.S.C. Section 552 (1986)), or other confidential or privileged technical, business, or financial information under this contract, the contractor shall treat the information in accordance with restrictions placed on use of the information.
- (3) Subject to patent and security provisions of this contract, the contractor shall have the right to use technical data it produces under this contract for private purposes provided that all requirements of this contract have been met.
- (f) <u>Subcontracts</u>. Except as provided in 48 CFR 2009.570-2, the contractor shall include this clause, including this paragraph, in subcontracts of any tier. The terms contract, contractor, and contracting officer, must be appropriately modified to preserve the Government's rights.
- (g) <u>Remedies</u>. For breach of any of the above restrictions, or for intentional nondisclosure or misrepresentation of any relevant interest required to be disclosed concerning this

H.2 (Continued)

contract or for such erroneous representations that necessarily imply bad faith, the Government may terminate the contract for default, disqualify the contractor from subsequent contractual efforts, and pursue other remedies permitted by law or this contract.

- (h) <u>Waiver</u>. A request for waiver under this clause must be directed in writing to the contracting officer in accordance with the procedures outlined in 48 CFR 2009.570-9.
- (i) Follow-on effort. The contractor shall be ineligible to participate in NRC contracts, subcontracts, or proposals therefor (solicited or unsolicited), which stem directly from the contractor's performance of work under this contract. Furthermore, unless so directed in writing by the contracting officer, the contractor may not perform any technical consulting or management support services work or evaluation activities under this contract on any of its products or services or the products or services of another firm if the contractor has been substantially involved in the development or marketing of the products or services.
 - (1) If the contractor, under this contract, prepares a complete or essentially complete statement of work or specifications, the contractor is not eligible to perform or participate in the initial contractual effort which is based on the statement of work or specifications. The contractor may not incorporate its products or services in the statement of work or specifications unless so directed in writing by the contracting officer, in which case the restrictions in this paragraph do not apply.
 - (2) Nothing in this paragraph precludes the contractor from offering or selling its standard commercial items to the Government.

[End of Clause]

H.3 NRCAR 2052.215-70 KEY PERSONNEL (JAN 1993)

(a) The following individuals are considered to be essential to the successful performance of the work hereunder:

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The contractor agrees that personnel may not be removed from

H.3 (Continued)

the contract work or replaced without compliance with paragraphs (b) and (c) of this section.

(b) If one or more of the key personnel, for whatever reason, becomes, or is expected to become, unavailable for work under this contract for a continuous period exceeding 30 work days, or is expected to devote substantially less effort to the work than indicated in the proposal or initially anticipated, the contractor shall immediately notify the contracting officer and shall, subject to the concurrence of the contracting officer, promptly replace the personnel with personnel of at least substantially equal ability and qualifications.

(c) Each request for approval of substitutions must be in writing and contain a detailed explanation of the circumstances necessitating the proposed substitutions. The request must also contain a complete resume for the proposed substitute and other information requested or needed by the contracting officer to evaluate the proposed substitution. The contracting officer or his/her authorized representative shall evaluate the request and promptly notify the contractor of his or her approval or disapproval in writing.

(d) If the contracting officer determines that suitable and timely replacement of key personnel who have been reassigned, terminated, or have otherwise become unavailable for the contract work is not reasonably forthcoming, or that the resultant reduction of productive effort would be so substantial as to impair the successful completion of the contract or the service order, the contract may be terminated by the contracting officer for default or for the convenience of the Government, as appropriate. If the contracting officer finds the contractor at fault for the condition, the contract price or fixed fee may be equitably adjusted downward to compensate the Government for any resultant delay, loss, or damage.

[End of Clause]

H.4 DETERMINATION OF MINIMUM WAGES AND FRINGE BENEFITS (NOV 1989)

Each employee of the Contractor or any subcontractor performing services under this contract shall be paid at least the minimum allowable monetary wage and fringe benefits prescribed under the U.S. Department of Labor Wage Determination which is attached (See Section J for List of Attachments).

[End of Clause]

.NRC-10-94-145

H.5 GOVERNMENT FURNISHED EQUIPMENT/PROPERTY (JUN 1988)

- a. The NRC will provide the contractor with the following items under this contract:
 - One(1) Rear projection screen Two(2) Roll-down front projection screens Two(2) Stewart ceiling mounted lifts One(1) VGA computer One(1) General Electric Talaria computer/video projector Two(2) Podiums Two(2) 1" conduit in each room One(1) Video camera Speakers, grills, transformers, wiring and installation of ceiling speakers for the Auditorium and ACRS Hearing Rooms Speaker mounts on platforms Lutron System All Tables Modulator for Broadband Cable System
- (b) Only the equipment/property listed above in the quantities shown will be provided by the Government. This property is subject to the provisions of the Government Property clause under this contract. All other equipment/property required in performance of the contract shall be furnished by the Contractor.

[End of Clause]

H.6 INSURANCE

The requirement of Clause 52.228-5 - Insurance--Work on a Government Installation, is supplemented to provide that the general liability shall name "The United States of America" acting by and through the U.S. Nuclear Regulatory Commission as an additional insured with respect to operations performed under this contract.

The following reflects the Government's minimum amounts of insurance required for performance of work under this contract:

"\$500,000 per occurrence for bodily injury and \$500,000 per occurrence for property damage."

Section I

PART II - CONTRACT CLAUSES

SECTION I - CONTRACT CLAUSES

I.1 52.252-2 CLAUSES INCORPORATED BY REFERENCE (JUN 1988)

This contract incorporates one or more clauses by reference, with the same force and effect as if they were given in full text. Upon request, the Contracting Officer will make their full text available.

I. FEDERAL ACQUISITION REGULATION (48 CFR CHAPTER 1) CLAUSES

NUMBER	TITLE	DATE	
52 202-1	DEFINITIONS	SEP	1991
52.203-1	DEFINITIONS OFFICIALS NOT TO BENEFIT	APR	1984
52.203-3	GRATUITIES	APR	1984
52.203-5	COVENANT AGAINST CONTINGENT FEES	APR	1984
52.203-6	RESTRICTIONS ON SUBCONTRACTOR	JUL	1985
52.203-7	ANTI-KICKBACK PROCEDURES	OCT	1988
52.203-10	PRICE OR FEE ADJUSTMENT FOR ILLEGAL OR IMPROPER ACTIVITY	SEP	1990
52.203-12	LIMITATION ON PAYMENTS TO INFLUENCE CERTAIN FEDERAL TRANSACTIONS	JAN	1990
52.209-6		NOV	1992
52.215-1	EXAMINATION OF RECORDS BY COMPTROLLER GENERAL	FEB	1993
52 215-2	AUDIT - NEGOTIATION	FEB	1993
52.215-22	PRICE REDUCTION FOR DEFECTIVE	JAN	1991
52.215-24		DEC	1991
52.215-27	TERMINATION OF DEFINED BENEFIT PENSION PLANS	SEP	1989
52.215-33		JAN	1986
52.215-39	REVERSION OR ADJUSTMENT OF PLANS FOR POSTRETIREMENT BENEFITS OTHER THAN PENSIONS (PRB)	JUL	1991
	UTILIZATION OF SMALL BUSINESS CONCERNS AND SMALL DISADVANTAGED BUSINESS CONCERNS		
52.219-13	UTILIZATION OF WOMEN-OWNED SMALL BUSINESSES	AUG	1986

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Section I

I.1 (Continued)

NUMBER	TITLE	DATE	
	UTILIZATION OF LABOR SURPLUS AREA CONCERNS		
52.222-1		APR	1984
ED 000 0	CONTITOT INDOD	APR	1984
52.222-2		APR	
52.222-20	AFFIRMATIVE ACTION FOR SPECIAL		
	DISABLED AND VIETNAM		
52.222-36	ERA VETERANS AFFIRMATIVE ACTION FOR HANDICAPPED WORKERS	APR	1984
52.222-37	EMPLOYMENT REPORTS ON SPECIAL DISABLED VETERANS AND VETERANS OF THE VIETNAM ERA	JAN	1988
52.222-41	SERVICE CONTRACT ACT OF 1965, AS AMENDED	MAY	1989
	FAIR LABOR STANDARDS ACT AND SERVICE CONTRACT ACT PRICE ADJUSTMENT CLEAN AIR AND WATER DRUG-FREE WORKPLACE		
52.223-2	CLEAN AIR AND WATER	APR	1984
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52.225-11	RESTRICTIONS ON CERTAIN FOREIGN PURCHASES		
52.227-1	AUTHORIZATION AND CONSENT	APR	1984
52.227-2	NOTICE AND ASSISTANCE REGARDING PATENT AND COPYRIGHT INFRINGEMENT	APR	1984
52.228-5	INSURANCE - WORK ON A GOVERNMENT INSTALLATION	SEP	1989
52.229-3	FEDERAL, STATE, AND LOCAL TAXES	JAN	1991
52.229-5	FEDERAL, STATE, AND LOCAL TAXES TAXES - CONTRACTS PERFORMED	APR	1984
	IN U.S. POSSESSIONS OR PUERTO RICO		
52.232-1	PAYMENTS	APR	1984
52.232-8	DISCOUNTS FOR PROMPT PAYMENT	APR	1989
52.232-11			1984
52.232-17		JAN	1991
52.232-23	ASSIGNMENT OF CLAIMS	JAN	1986
		SEP	1992
52.232-28	ELECTRONIC FUNDS TRANSFER PAYMENT METHODS		
	DISPUTES Alternate I (DEC 1991)	DEC	1991
			1989
52.237-2		APR	1984
	AND VEGETATION		
	BANKRUPTCY		1991
	CHANGES - FIXED-PRICE Alternate I (APR 1984)		1987
52.244-5	COMPETITION IN SUBCONTRACTING	APR	1984

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Section I

I.1 (Continued)

NUMBER	TITLE	DATH	S	
52.245-1	PROPERTY RECORDS	APR	1984	
52.245-2	GOVERNMENT PROPERTY (FIXED-PRICE CONTRACTS) Alternate I (APR 1984)	DEC	1989	
52.246-25	LIMITATION OF LIABILITY - SERVICES	APR	1984	
52.249-2	TERMINATION FOR CONVENIENCE OF THE GOVERNMENT (FIXED-PRICE)	APR	1984	
52.249-8	DEFAULT (FIXED-PRICE SUPPLY AND SERVICE)	APR	1984	
52.253-1	COMPUTER GENERATED FORMS	JAN	1991	

[End of Clause]

1.2 52.203-9 REQUIREMENT FOR CERTIFICATE OF PROCUREMENT INTEGRITY--MODIFICATION (NOV 1990)

- (a) <u>Definitions</u>. The definitions set forth in FAR 3.104-4 are hereby incorporated in this clause.
- (b) The Contractor agrees that it will execute the certification set forth in paragraph (c) of this clause when requested by the Contracting Officer in connection with the execution of any modification of this contract.
- (c) <u>Certification</u>. As required in paragraph (b) of this clause, the officer or employee responsible for the modification proposal shall execute the following certification:

CERTIFICATE OF PROCUREMENT INTEGRITY--MODIFICATION (NOV 1990)

(1) I, [Name of certifier] am the officer or employee responsible for the preparation of this modification proposal and hereby certify that, to the best of my knowledge and belief, with the exception of any information described in this certification, I have no information concerning a violation or possible violation of subsection 27(a), (b), (d), or (f) of the Office of Federal Procurement Policy Act, as amended* (41 U.S.C. 423), (hereinafter referred to as "the Act"), as implemented in the FAR, occurring during the conduct of this procurement (contract and modification number).

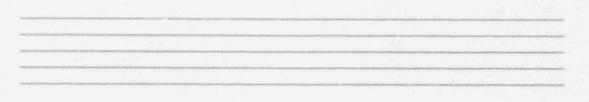
(2) As required by subsection 27(e)(1)(B) of the Act, I further certify that to the best of my knowledge and belief, each officer, employee, agent, representative, and consultant of [Name of Offeror] who has participated personally and substantially in the preparation

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I.2 (Continued)

or submission of this proposal has certified that he or she is familiar with, and will comply with, the requirements of subsection 27(a) of the Act, as implemented in the FAR, and will report immediately to me any information concerning a violation or possible violation of subsections 27(a), (b), (d), or (f) of the Act, as implemented in the FAR, pertaining to this procurement.

(3) Violations or possible violations: (Continue on plain bond paper if necessary and label Certificate of Procurement Integrity--Modification (Continuation Sheet), ENTER NONE IF NONE EXISTS)



[Signature of the officer or employee responsible for the modification proposal and date]

[Typed name of the officer or employee responsible for the modification proposal]

* Subsections 27(a), (b), and (d) are effective on December 1, 1990. Subsection 27(f) is effective on June 1, 1991.

THIS CERTIFICATION CONCERNS A MATTER WITHIN THE JURISDICTION OF AN AGENCY OF THE UNITED STATES AND THE MAKING OF A FALSE, FICTITIOUS, OR FRAUDULENT CERTIFICATION MAY RENDER THE MAKER SUBJECT TO PROSECUTION UNDER TITLE 18, UNITED STATES CODE, SECTION 1001.

(d) In making the certification in paragraph (2) of the certificate, the officer or employee of the competing Contractor responsible for the offer or bid, may rely upon a one-time certification from each individual required to submit a certification to the competing Contractor, supplemented by periodic training. These certifications shall be obtained at the earliest possible date after an individual required to certify begins employment or association with the contractor. If a contractor decides to rely on a certification executed prior to the suspension of section 27 (i.e., prior to December 1, 1989), the Contractor shall ensure that an individual who has so certified is notified that section 27 has been reinstated. These certifications shall be maintained by the

I.2 (Continued)

Contractor for a period of 6 years from the date a certifying employee's employment with the company ends or, for an agency, representative, or consultant, 6 years from the date such individual ceases to act on behalf of the contractor.

(e) The certification required by paragraph (c) of this clause is a material representation of fact upon which reliance will be placed in executing this modification.

[End of Clause]

1.3 52.222-42 STATEMENT OF EQUIVALENT RATES FOR FEDERAL HIRES (MAY 1989)

In compliance with the Service Contract Act of 1965, as amended, and the regulations of the Secretary of Labor (29 CFR Part 4), this clause identifies the classes of service employees expected to be employed under the contract and states the wages and fringe benefits payable to each if they were employed by the contracting agency subject to the provisions of 5 U.S.C. 5341 or 5332.

THIS STATEMENT IS FOR INFORMATION ONLY: IT IS NOT A WAGE DETERMINATION.

Employee class Monetary Benefits

Electronic Technician

GS-7 - GS-11

[End of Clause]

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PART III - LIST OF DOCUMENTS, EXHIBITS AND OTHER ATTACHMENTS

SECTION J - LIST OF ATTACEMENTS

J.1 ATTACHMENTS (MAR 1987)

Atta	chment Number	Title
	1	Billing Instructions
	2	NRC Contractor Organizational Conflicts of Interest
	3	Wage Determination
	4	List of Equipment

12/17/91

BILLING INSTRUCTIONS FOR FIXED PRICE CONTRACTS

General: The contractor shall prepare vouchers or invoices as prescribed herein. FAILURE TO SUBMIT VOUCHERS/INVOICES IN ACCORDANCE WITH THESE INSTRUCTIONS WILL RESULT IN REJECTION OF THE VOUCHER/INVOICES AS IMPROPER.

Form: Claims shall be submitted on the payee's letterhead. voucher/invoices, or on the Government's Standard Form 1034, "Public Voucher for Purchases and Services Other than Personal," and Standard Form 1035, "Public Voucher for Purchases Other than Personal- Continuation Sheet." These forms are available from the US Government Printing Office, 710 North Capitol Street, Washington, DC 20401.

Numper of Copies: An original and three copies shall be submitted. Failure to submit all the required copies will result in rejection of the voucher/invoice as improper.

Designated Agency Billing Office: Vouchers/invoices shall be submitted to the following address:

US Nuclear Regulatory Commission Division of Contracts and Property Management Contract Administration Branch, P-902 Washington, DC 20555

HAND-DELIVERY OF VOUCHERS/INVOICES IS DISCOURAGED AND WILL NOT EXPEDITE PROCESSING BY THE NRC. However, should you choose to deliver vouchers/ invoices by hand, including delivery by any express mail service or special delivery service which uses a courier or other person to deliver the vouchers/invoices in person to the NRC, such vouchers/invoices must be addressed to the above Designated Agency Billing Office and will only be accepted at the following location.

> US Nuclear Regulatory Commission One White Flint North - Mail Room 11555 Rockville Pike Rockville, MD 20852

HAND-CARRIED SUBMISSIONS WILL NOT BE ACCEPTED AT OTHER THAN THE ABOVE ADDRESS

Note that the official receipt date for hand-delivered vouchers/invoices will be the date it is received by the official agency billing office in the Division of Contracts and Property Management.

Agency Payment Office: Payment will continue to be made by the office designated in the contract in Block 13 of the Standard Form 26 or Block 25 of the Standard Form 33, whichever is applicable.

Frequency: The contractor shall submit a voucher or invoice only after the NRC's final acceptance of services rendered or products delivered in performance of the contract unless otherwise specified in the contract.

Preparation and Itemization of the Voucher/Invoice: The voucher/invoice shail be prepared in ink or by typewriter (without strikeovers). Corrections or erasures must be initialed. To be considered a proper voucher/invoice, all of the following elements must be included:

- 1. Contract number
- 2. Sequential voucher/invoice number
- Date of voucher/invoice
- 4. Project Officer's name and mail stop as designated in the contract.
- 5. Payee's name and address. (Show the name of the contractor and its correct address. In addition, when an assignment of funds has been made by the contractor, or a different payee has been designated, include the name and address of the payee.) Indicate the name and telephone number of the individual responsible for answering questions which the NRC may have regarding the voucher/invoice.
- Description of articles or services, quantity, unit price, and total amount.
- 7. Weight and zone of shipment, if shipped by parcel post.
- Charges for freight or express shipments. Attached prepaid bill if shipped by freight or express.
- Instructions to consignee to notify the Contracting Officer of receipt of shipment.
- 10. For Indefinite Delivery contracts or contracts under which progress payments are authorized, the final voucher/invoice shall be marked "FINAL VOUCHER" or "FINAL INVOICE."

Currency: Billings may be expressed in the currency normally used by the contractor in maintaining his accounting records and payments will be made in that currency. However, the U.S. dollar equivalent for all vouchers/invoices paid under the contractor may not exceed the total US dollars authorized in the contract.

Supersession: These instructions supersede any previous billing instructions.

NUCLEAR REGULATORY COMMISSION ACQUISITION REGULATION

2009.570 NRC organizational conflicts of interest.

§2009.570-1 Scope of policy.

(a) It is the policy of NRC to avoid, eliminate, or neutralize contractor organizational conflicts of interest. The NRC achieves this objective by requiring all prospective contractors to submit information describing relationships, if any, with organizations or persons (including those regulated by the NRC) which may give rise to actual or potential conflicts of interest in the event of contract award.

(b) Contractor conflict of interest determinations cannot be made automatically or routinely. The application of sound judgment or virtually a case-by-case basis is necessary if the policy is to be applied to satisfy the overall public interest. It is not possible to prescribe in advance a specific method or set of criteria which would serve to identify and resolve all of the contractor conflict of interest situations which might arise. However, examples are provided in these regulations to guide application of this policy guidance. The ultimate test is as follows: Might the contractor, if awarded the contract, be placed in a position where its judgment may be biased, or where it may have an unfair competitive advantage?

(c) The conflict of interest rule contained in this subpart applies to contractors and offerors only. Individuals or firms who have other relationships with the NRC (e.g., parties to a licensing proceeding) are not covered by this regulation. This rule does not apply to the acquisition of consulting services through the personnel appointment process, NRC agreements with other Government agencies, international organizations, or state, local, or foreign Governments. Separate procedures for avoiding conflicts of interest will be employed in these agreements, as appropriate.

§2009.570-2 Definitions.

As used in §2009.570:

Affiliates means business concerns which are affiliates of each other when either directly or indirectly one concern or individual controls or has the power to control another, or when a third party controls or has the power to control both.

<u>Contract</u> means any contractual agreement or other arrangement with the NRC except as provided in §2009.570-1(c).

<u>Contractor</u> means any person, firm, unincorporated association, joint venture, co-sponsor, partnership, corporation, affiliates thereof, or their successors in interest, including their chief executives, directors, key personnel (identified in the contract), proposed consultants or subcontractors, which are a party to a contract with the NRC.

Evaluation activities means any effort involving the appraisal of a technology, process, product, or policy.

Offeror or prospective contractor means any person, firm, unincorporated association, joint venture, co-sponsor, partnership, corporation, or their affiliates or successors in interest, including their chief executives, directors, key personnel, proposed consultants, or subcontractors, submitting a bid or proposal, solicited or unsolicited, to the NRC to obtain a contract.

Organizational conflicts of interest means that a relationship exists whereby a contractor or prospective contractor has present or planned interests related to the work to be performed under an NRC contract which:

(1) May diminish its capacity to give impartial, technically sound, objective assistance and advice, or may otherwise result in a biased work product; or

(2) May result in its being given an unfair competitive advantage.

Potential conflict of interest means that a factual situation exists that suggests that an actual conflict of interest may arise from award of a proposed contract. The term <u>potential conflict of interest</u> is used to signify those situations that—

 Merit investigation before contract award to ascertain whether award would give rise to an actual conflict; or

(2) Must be reported to the contracting officer for investigation if they arise during contract performance.

<u>Research</u> means any scientific or technical work involving theoretical analysis, exploration, or experimentation.

<u>Subcontractor</u> means any subcontractor of any tier who performs work under a contract with the NRC except subcontracts for supplies and subcontracts in amounts not exceeding the small purchase threshold.

<u>Technical consulting and management support services</u> means internal assistance to a component of the NRC in the formulation or administration of its programs, projects, or policies which normally require that the contractor be given access to proprietary information or to information that has not been made available to the public. These services typically include assistance in the preparation of program plans, preliminary designs, specifications, or statements of work.

§2009.570-3 Criteria for recognizing contractor organizational conflicts of interest.

(a) General.

(1) Two questions will be asked in determining whether actual or potential organizational conflicts of interest exist:

(i) Are there conflicting roles which might bias an offeror's or contractor's judgment in relation to its work for the NRC? (ii) May the offeror or contractor be given an unfair competitive advantage based on the performance of the contract?

(2) NRC's ultimate determination that organizational conflicts of interest exist will be made in light of common sense and good business judgment based upon the relevant facts. While it is difficult to identify and to prescribe in advance a specific method for avoiding all of the various situations or relationships that might involve potential organizational conflicts of interest, NRC nersonnel will pay particular attention to proposed contractual requirements that call for the rendering of advice, consultation or evaluation activities, or similar activities that directly lay the groundwork for the NRC's decisions on regulatory activities, future procurements, and research programs. Any work performed at an applicant or licensee site will also be closely scrutinized by the NRC staff.

(b) <u>Situations or relationships</u>. The following situations or relationships may give rise to organizational conflicts of interest:

(1) The offeror or contractor shall disclose information, that may give rise to organizational conflicts of interest under the following circumstances. The information may include the scope of work or specification for the requirement, being performed, the period of performance, and the name and telephone number for a point of contact at the organization knowledgeable about the commercial contract.

(i) Where the offeror or contractor provides advice and recommendations to the NRC in the same technical area where it is also providing consulting assistance to any organization regulated by the NRC.

(ii) Where the offeror or contractor provides advice to the NRC on the same or similar matter on which it is also providing assistance to any organization regulated by the NRC.

(iii) Where the offeror or contractor evaluates its own products or services, or has been substantially involved in the development or marketing of the products or services of another entity.

(iv) Where the award of a contract would result in placing the offeror or contractor in a conflicting role in which its judgment may be biased in relation to its work for the NRC, or would result in an unfair competitive advantage for the offeror or contractor.

(v) Where the offeror or contractor solicits or performs work at an applicant or licensee site while performing work in the same technical area for the NRC at the same site.

(2) The contracting officer may request specific information from an offeror or contractor or may require special contract clauses such as provided in §2009.570-5(b) in the following circumstances: (i) Where the offeror or contractor prepares specifications that are to be used in competitive procurements of products or services covered by the specifications.

(ii) Where the offeror or contractor prepares plans for specific approaches or methodologies that are to be incorporated into competitive procurements using the approaches or methodologies.

(iii) Where the offeror or contractor is granted access to information not available to the public concerning NRC plans, policies, or programs that could form the basis for a later procurement action.

(iv) Where the offeror or contractor is granted access to proprietary information of its competitors.

(v) Where the award of a contract might result in placing the offeror or contractor in a conflicting role in which its judgment may be biased in relation to its work for the NRC or might result in an unfair competitive advantage for the offeror or contractor.

(c) <u>Policy application guidance</u>. The following examples are illustrative only and are not intended to identify and resolve all contractor organizational conflict of interest situations.

(1) (i) <u>Example</u>. The ABC Corp., in response to a Request For Proposal (RFP), proposes to undertake certain analyses of a reactor component as called for in the RFP. The ABC Corp. is one of several companies considered to be technically well qualified. In response to the inquiry in the RFP, the ABC Corp. advises that it is currently performing similar analyses for the reactor manufacturer.

(ii) <u>Guidance</u>. An NRC contract for that particular work normally would not be awarded to the ABC Corp. because the company would be placed in a position in which its judgment could be biased in relationship to its work for the NRC. Because there are other well-qualified companies available, there would be no reason for considering a waiver of the policy.

(2) (i) <u>Example</u>. The ABC Corp., in response to an RFP, proposes to perform certain analyses of a reactor component that is unique to one type of advanced reactor. As is the case with other technically qualified companies responding to the RFP, the ABC Corp. is performing various projects for several different utility clients. None of the ABC Corp. projects have any relationship to the work called for in the RFP. Based on the NRC evaluation, the ABC Corp. is considered to be the best qualified company to perform the work outlined in the RFP.

(ii) <u>Guidance</u>. An NRC contract normally could be awarded to the ABC Corp. because no conflict of interest exists which could motivate bias with respect to the work. An appropriate clause would be included in the contract to preclude the ABC Corp. from subsequently contracting for work with the private sector that could create a conflict during the performance of the NRC contract. For example, ABC Corp. would be precluded from the performance of similar work for the company developing the advanced reactor mentioned in the example.

(3) (i) <u>Example</u>. The ABC Corp., in response to a competitive RFP, submits a proposal to assist the NRC in revising NRC's guidance documents on the respiratory protection requirements of 10 CFR Part 20. ABC Corp. is the only firm determined to be technically acceptable. ABC Corp. has performed substantial work for regulated utilities in the past and is expected to continue similar efforts in the future. The work has and will cover the writing, implementation, and administration of compliance respiratory protection programs for nuclear power plants.

(ii) <u>Guidance</u>. This situation would place the firm in a role where its judgment could be biased in relationship to its work for the NRC. Because the nature of the required work is vitally important in terms of the NRC's responsibilities and no reasonable alternative exists, a waiver of the policy, in accordance with §2009.570-9 may be warranted. Any waiver must be fully documented in accordance with the waiver provisions of this policy with particular attention to the establishment of protective mechanisms to guard against bias.

(4) (i) <u>Example</u>. The ABC Corp. submits a proposal for a new system to evaluate a specific reactor component's performance for the purpose of developing standards that are important to the NRC program. The ABC Corp. has advised the NRC that it intends to sell the new system to industry once its practicability has been demonstrated. Other companies in this business are using older systems for evaluation of the specific reactor component.

(ii) <u>Guidance</u>. A contract could be awarded to the ABC Corp. if the contract stipulates that no information produced under the contract will be used in the contractor's private activities unless this information has been reported to the NRC. Data on how the reactor component performs, which is reported to the NRC by contractors, will normally be disseminated by the NRC to others to preclude an unfair competitive advantage. When the NRC furnishes information about the reactor component to the contractor for the performance of contracted work, the information may not be used in the contractor's private activities unless the information is generally available to others. Further, the contract will stipulate that the contractor will inform the NRC contracting officer of all situations in which the information, developed about the performance of the reactor component under the contract, is proposed to be used.

(5) (i) <u>Example</u>. The ABC Corp., in response to a RFP, proposes to assemble a map showing certain seismological features

of the Appalachian fold belt. In accordance with the representation in the RFP and §2009.570-3(b)(1)(i), ABC Corp. informs the NRC that it is presently doing seismological studies for several utilities in the eastern United States, but none of the sites are within the geographic area contemplated by the NRC study.

(ii) <u>Guidance</u>. The contracting officer would normally conclude that award of a contract would not place ABC Corp. in a conflicting role where its judgment might be biased. Section 2052.209-73(c) Work for Others, would preclude ABC Corp. from accepting work which could create a conflict of interest during the term of the NRC contract.

(6) (i) Example. AD Division of ABC Corp., in response to a RFP, submits a proposal to assist the NRC in the safety and environmental review of applications for licenses for the construction, operation, and decommissioning of fuel cycle facilities. ABC Corp. is divided into two separate and distinct divisions, AD and BC. The BC Division performs the same or similar services for industry. The BC Division is currently providing the same or similar services required under the NRC's contract for an applicant or licensee.

(ii) <u>Guidance</u>. An NRC contract for that particular work would not be awarded to the ABC Corp. The AD Division could be placed in a position to pass judgment on work performed by the BC Division, which could bias its work for NRC. Further, the Conflict of Interest provisions apply to ABC Corp. and not to separate or distinct divisions within the company. If no reasonable alternative exists, a waiver of the policy could be sought in accordance with §2009.570-9.

7(i) <u>EXAMPLE</u> The ABC Corp. completes an analysis for NRC of steam generator tube leaks at one of a utility's six sites. Three months later, ABC Corp. is asked by this utility to perform the same analysis at another of its sites.

(ii) <u>GUIDANCE</u> §2052.290-73(c)(3) would prohibit the contractor from beginning this work for the utility until one year after completion of the NRC work at the first site.

8(i) <u>EXAMPLE</u> ABC Corp. is assisting NRC in a major on-site analysis of a utility's redesign of the common areas between its twin reactors. The contract is for two years with an estimated value of \$5 million. Near the completion of the NRC work, ABC Corp. requests authority to solicit for a \$100K contract with the same utility to transport spent fuel to a disposal site. ABC Corp. is performing no other work for the utility.

(ii) <u>GUIDANCE</u> The Contracting Officer, would allow the contractor to proceed with the solicitation because A) it is not in the same technical area as the NRC work and B) the potential for technical bias by the contractor because of financial ties to

the utility is slight due to the relative value of the two contracts.

9(i) <u>EXAMPLE</u> The ABC Corp. is constructing a turbine building and installing new turbines at a reactor site. The contract with the utility is for five years and has a total value of \$100 million. ABC Corp. has responded to an NRC Request For Proposal requiring the contractor to participate in a major team inspection unrelated to the turbine work at the same site. The estimated value of the contract is \$75K.

(ii) <u>GUIDANCE</u> An NRC contract would not normally be awarded to ABC Corp. since these factors create the potential for financial loyalty to the utility that may bias the technical judgment of the contractor.

(d) Other considerations.

(1) The fact that the NRC can identify and later avoid, eliminate, or neutralize any potential organizational conflicts arising from the performance of a contract is not relevant to a determination of the existence of conflicts prior to the award of a contract.

(2) It is not relevant that the contractor has the professional reputation of being able to resist temptations which arise from organizational conflicts of interest, or that a follow-on procurement is not involved, or that a contract is awarded on a competitive or a sole source basis.

§2009.570-4 Representation.

(a) The following procedures are designed to assist the NRC contracting officer in determining whether situations or relationships exist which may constitute organizational conflicts of interest with respect to a particular offeror or contractor. The procedures apply to small purchases meeting the criteria stated in the following paragraph (b) of this section.

(b) The organizational conflicts of interest representation provision at §2052.209-72 must be included in solicitations and unsolicited proposals, (including those for task orders and modifications for new work) for:

- (1) Evaluation services or activities;
- (2) Technical consulting and management support services;
- (3) Research; and

(4) Other contractual situations where special organizational conflicts of interest provisions are noted in the solicitation and would be included in the resulting contract. This representation requirement also applies to all modifications for additional effort under the contract except those issued under the "Changes" clause. Where, however, a statement of the type required by the organizational conflicts of interest representation provisions has previously been submitted with regard to the contract being modified, only an updating of the statement is required.

(c) The offeror may, because of actual or potential organizational conflicts of interest, propose to exclude specific kinds of work contained in a RFP unless the RFP specifically prohibits the exclusion. Any such proposed exclusion by an offeror will be considered by the NRC in the evaluation of proposals. If the NRC considers the proposed excluded work to be an essential or integral part of the required work and its exclusion would be to the detriment of the competitive posture of the other offerors, the NRC shall reject the proposal as unacceptable.

(d) The offeror's failure to execute the representation required by paragraph (b) of this section with respect to an invitation for bids is considered to be a minor informality. The offeror will be permitted to correct the omission.

§2009.570-5 Contract clauses.

(a) <u>General contract clause</u>. All contracts and small purchases of the types set forth in §2009.570-4(b) must include the clause entitled. "Contractor Organizational Conflicts of Interest," set forth in §2052.209-73.

(b) Other special contract clauses. If it is determined from the nature of the proposed contract that an organizational conflict of interest exists, the contracting officer may determine that the conflict can be avoided, or, after obtaining a waiver in accordance with §2009.570-9, neutralized through the use of an appropriate special contract clause. If appropriate, the offeror may negotiate the terms and conditions of these clauses, including the extent and time period of any restriction. These clauses include but are not limited to:

 Hardware exclusion clauses which prohibit the acceptance of production contracts following a related non-production contract previously performed by the contractor;

(2) Software exclusion clauses;

(3) Clauses which require the contractor (and certain of its key personnel) to avoid certain organizational conflicts of interest; and

(4) Clauses which provide for protection of confidential data and guard against its unauthorized use.

§2009.570-6 Evaluation, findings, and contract award.

The contracting officer shall evaluate all relevant facts submitted by an offeror and other relevant information. After evaluating this information against the criteria of §2009.570-3, the contracting officer shall make a finding of whether organizational conflicts of interest exist with respect to a particular offeror. If it has been determined that real or potential conflicts of interest exist, the contracting officer shall:

(a) Disqualify the offeror from award;

(b) Avoid or eliminate such conflicts by appropriate measures; or

(c) Award the contract under the waiver provision of §2009.570-9.

§2009.570-7 Conflicts identified after award.

If potential organizational conflicts of interest are identified after award with respect to a particular contractor, and the contracting officer determines that conflicts do exist and that it would not be in the best interest of the Government to terminate the contract, as provided in the clauses required by §2009.570-5, the contracting officer shall take every reasonable action to avoid, eliminate, or, after obtaining a waiver in accordance with §2009.570-9, neutralize the effects of the identified conflict.

§2009.570-8 Subcontracts.

The contracting officer shall require offerors and contractors to submit a representation statement from all subcontractors (other than a supply subcontractor) and consultants performing services in excess of \$10,000 in accordance with §2009.570-4(b). The contracting officer shall require the contractor to include contract clauses in accordance with §2009.570-5 in consultant agreements or subcontracts involving performance of work under a prime contract.

§2009.570-9 Waiver.

(a) The contracting officer determines the need to seek a waiver for specific contract awards, with the advice and concurrence of the program office director and legal counsel. Upon the recommendation of the Procurement Executive, and after consultation with legal counsel, the Executive Director for Operations may waive the policy in specific cases if he determines that it is in the best interest of the United States to do so.

(b) Waiver action is strictly limited to those situations in which:

(1) The work to be performed under contract is vital to the NRC program.

(2) The work cannot be satisfactorily performed except by a contractor whose interests give rise to a question of conflict of interest.

(3) Contractual and/or technical review and surveillance methods can be employed by the NRC to neutralize the conflict.

(c) For any waivers, the justification and approval documents must be placed in the NRC Public Document Room, 2120 L Street, NW. (Lower Level), Washington, DC.

§2009.570-10 Remedies.

In addition to other remedies permitted by law or contract for a breach of the restrictions in this subpart or for any intentional misrepresentation or intentional nondisclosure of any relevant interest required to be provided for this section, the NRC may debar the contractor from subsequent NRC contracts.

				Page 1 o	£7
DUR DIVISION		State: Dist	. of Col., Ma	ryland, Vir	ginia
E CONTRACT ACT	LOCALITY	CHARLES, FI PRINCE GEOI VA COUNTIES FALLS CHURC	REDERICK, MON RGE'S, ST MAR S: ALEXANDRIA CH, FAUQUIER,	TGOMERY XY'S A, ARLINGTON KING GEORG	, FAIRFAX
Division of Wage Determinations	Wage Det	termination No	o.: 86-1253 (Rev. 18) Da	te: 11/19/1993
Class of Service Employees		1	Fringe Benefi	t Payments	
	Wage	Health & Welfare	Vacation	Holiday	Other
	Wage Determinations	ARDS ADMINISTRATION DUR DIVISION D.C. 20210 DETERMINATIONS UNDER E CONTRACT ACT the Secretary of Labor Division of Wage Determinations Wage Determinations Wage Determinations	ARDS ADMINISTRATION DUR DIVISION D.C. 20210 DETERMINATIONS UNDER E CONTRACT ACT the Secretary of Labor Division of Wage Determinations Trvice Employees Minimum Hourly Wage Health &	ARDS ADMINISTRATION DUR DIVISION D.C. 20210 DETERMINATIONS UNDER E CONTRACT ACT the Secretary of Labor Division of Wage Determinations Trvice Employees Minimum Hourly Wage Health & Vacation	ARDS ADMINISTRATION DUR DIVISION D.C. 20210 DETERMINATIONS UNDER E CONTRACT ACT the Secretary of Labor Division of Wage Determinations Read Determinations Wage Determination No.: 86-1253 (Rev. 18) Da Minimum Hourly Wage Health & Vacation Holiday

FURNITURE MAINTENANCE AND REPAIR

÷

1.	Electrostatic Spray Painter	\$ 16.41
2.	Furniture Handler	\$ 12.13
3.	Furniture Refinisher	\$ 16.41
4.	Furniture Refinisher Helper	\$ 12.73
5.	Furniture Repairer, Minor	\$ 14.64
6.	Upholsterer	\$ 16.41

MACHINE TOOL OPERATION AND REPAIR OCCUPATIONS

Machine-tool	Operator	\$ 16.41
(Toolroom) Tool and Die	Maker	\$ 19.79

MATERIALS HANDLING AND PACKING OCCUPATIONS

1.	Fuel Distribution System Operator	\$	14.80
2.	Material Coordinator	Ş	14.64
	Material Expediter	\$	14.64
4.	Material Handling Laborer	. \$	10.01
5.	Forklift Operator	\$	10.41
6.	Shipping/Receiving Clerk	\$	11.78

U.S. DEPARTMENT OF LABOR EMPLOYMENT STANDARDS ADMINISTRATION				Page 2 o	f 7	
WAGE AND HOUR DIVISION WASHINGTON, D.C. 20210 REGISTER OF WAGE DETERMINATIONS UNDER THE SERVICE CONTRACT ACT By direction of the Secretary of Labor Our Mage Alan L. Moss Division of	1.00	State: Dist. of Col., Maryland, Virginia				
	LOCALITY	Area: Dist. of Col., MD COUNTIES: CALVERT				
Director Wage Determination:	Wage De	termination No	0.: 86-1253	(Rev. 18) Da	te: 11/19/1993	
Class of Service Employees	Minimum Hourly	F	ringe Benef	it Payments		
crass of Service Employees	Wage	Health & Welfare	Vacation	Holiday	Other	
7. Shipping Packer	\$ 9.27					
8. Stock Clerk	\$ 9.27					
9. Tools and Parts Attendant	\$ 12.73					
10. Warehouse Specialist	\$ 11.12					
ECHANICS AND MAINTENANCE AND REPAIR OC	CUPATIONS					
1. Aircraft Mechanic	\$ 17.26					
2. Aircraft Mechanic Helper	\$ 12.73					
3. Aircraft Servicer	\$ 14.64					
4. Aircraft Worker	\$ 15.53					
5. Appliance Mechanic	\$ 16.41					
6. Bicycle Repairer	\$ 13.69					
 Carpenter, Maintenance Carpet Layer 	\$ 16.41 \$ 16.41					
9. Electrician, Maintenance	\$ 17.26					
10. Electronics Technician,	\$ 13.01					
Maintenance 1	A 14 14					
Maintenance I 11. Electronics Technician, Maintenance II	\$ 15.41					
11. Electronics Technician,	\$ 15.41 \$ 19.56					
 Electronics Technician, Maintenance II Electronics Technician, 						

U.S. DEPARTMENT OF LABOR EMPLOYMENT STANDARDS ADMINISTRATION					Page 3 c	ef 7
WAGE AND HOUR DIVISION WASHINGTON, D.C. 20210 REGISTER OF WAGE DETERMINATIONS UNDER THE SERVICE CONTRACT ACT By direction of the Secretary of Labor		10.949	State: Dist.	of Col., M	aryland, Vir	ginia
		DCALITY	Area: Dist. of Col., MD COUNTIES: CALVERT CHARLES, FREDERICK, MONTGOMERY PRINCE GEORGE'S, ST MARY'S VA COUNTIES: ALEXANDRIA, ARLINGTON, FAIRFAX FALLS CHURCH, FAUQUIER, KING GEORGE, LOUDOUN PRINCE WILLIAM, STAFFORD			
Director Wage Determinations		Wage Det	ermination No	o.: 86-1253	(Rev. 18) Da	te: 11/19/1993
Class of Couries Employees		Minimum	F	Fringe Benef.	it Payments	
Class of Service Employees		lourly ∛age	Health & Welfare	Vacation	Holiday	Other
15. Fire Extinguisher Repairer	S	13.69				
16. Fuel Distribution System Mechanic		17.26				
17. General Maintenance Worker	\$	10.53				
18. Heating, Refrigeration and Air Conditioning Mechanic	\$	17.26				
19. Heavy Equipment Mechanic		17.26				
20. Instrument Mechanic		17.26				
21. Locksmith		16.41				
22. Machinery Maintenance Mechanic		17.26				
23. Machinist, Maintenance		17.26				
24. Maintenance Trades Helper		12.73				
25. Millwright 26. Office Appliance Repairer		17.26				
27. Painter, Aircraft		16.41				
28. Painter, Maintenance		16.41				
29. Pipefitter, Maintenance		17.26				
30. Plumber, Maintenance		16.41				
31. Pneudraulic Systems Mechanic		17.26				
32. Rigger	\$	17.26				
33. Scale Mechanic	\$:	15.53				
34. Sheet-metal Worker, Maintenance	Ş	17.26				
35. Small Engine Mechanic	\$ 1	15.53				

U.S. DEPARTMENT OF LABOR EMPLOYMENT STANDARDS ADMINISTRATION				Page 4 o	of 7
WAGE AND HOUR DIVISION WASHINGTON, D.C. 20210 REGISTER OF WAGE DETERMINATIONS UNDER THE SERVICE CONTRACT ACT By direction of the Secretary of Labor		State: Dist. of Col., Maryland, Virginia Area: Dist. of Col., MD COUNTIES: CALVERT CHARLES, FREDERICK, MONTGOMERY PRINCE GEORGE'S, ST MARY'S VA COUNTIES: ALEXANDRIA, ARLINGTON, FAIRFAX FALLS CHURCH, FAUQUIER, KING GEORGE, LOUDOUN PRINCE WILLIAM, STAFFORD			
	LOCALITY				
Alan L. Moss Division of Director Wage Determinations	Warte De	termination No	3 * 86-1253	(Roy 18) Da	to: 11/19/199
and a second sec	Minimum		Fringe Benef:		ice. 11/15/155
Class of Service Employees	Hourly	1	Tringe bener.	ic raymentes	
	Wage	Health & Welfare	Vacation	Holiday	Other
26. Welder, Combination,	\$ 17.26			I management of the second	
Maintenance					
37. Woodcraft Worker 38. Woodworker	\$ 17.26 \$ 14.80				
36, WOOdworker	Ş 14.00				
LANT AND SYSTEM OPERATION OCCUPATIONS					
1. Boiler Tender	\$ 17.26				
2. Sewage Plant Operator	\$ 16.41				
3. Stationary Engineer	\$ 17.26				
 Ventilation Equipment Tender Water Treatment Plant Operator 	\$ 12.73 \$ 16.41				
ISCELLANEOUS OCCUPATIONS					
1. Aircraft Quality Control Inspector	\$ 18.12				
Fringe benefits applicable to all clas engaged in contract performance:	ses of serv	vice employees 1/	2/	3/	

	MENT OF LABOR ARDS ADMINISTRATION		Page 5 of 7		
WAGE AND H WASHINGTON,	OUR DIVISION D.C. 20210		State: Dist. of Col., Maryland, Virginia		
REGISTER OF WAGE DETERMINATIONS UNDER THE SERVICE CONTRACT ACT By direction f the Secretary of Labor		Area: Dist. of Col., MD COUNTIES: CALVERT CHARLES, FREDERICK, MONTGOMERY PRINCE GEORGE'S, ST MARY'S VA COUNTIES: ALEXANDRIA, ARLINGTON, FAIRF FALLS CHURCH, FAUQUIER, KING GEORGE, LOUD PRINCE WILLIAM, STAFFORD			
Alan L. Moss	Division of				
Director	Wage Determinations	Wage Det	ermination No.: 86-1253 (Rev. 18) Date: 11/19/1993		
Class of Service Employees		Minimum Hourly	Fringe Benefit Payments		
		Wage	Health & Vacation Holiday Other Welfare		

1/ HEALTH & WELFARE: \$0.89 per hour or \$35.60 per week or \$154.26 per month.

2/ VACATION: 2 weeks paid vacation after i year of service with a contractor or successor; 3 weeks after 5 years; 4 weeks after 15 years. Length of service includes the whole span of continuous service with the present (successor) contractor, wherever employed, and with the predecessor contractor in the performance of similar work at the same Federal facility. (Reg. 4.173)

3/ HOLIDAYS: 10 paid holidays per year: New Year's Day, Martin Luther King Jr.'s Birthday, Washington's Birthday, Memorial Day, Independence Day, Labor Day, Columbus Day, Veterans' Day, Thanksgiving Day, and Christmas Day. (A contractor may substitute for any of the named holidays another day off with pay in accordance with a plan communicated to the employees involved.) NOTE: The contracting officer shall require that any class of service employee which is not listed herein and which is to be employed under the contract (i.e., the work to be performed is not performed by any classification listed in the wage determination), be classified by the contractor so as to provide a reasonable relationship (i.e., appropriate level of skill comparison) between such unlisted classifications and the classifications listed in the wage determination. Such conformed classes of employees shall be paid the monetary wages and furnished the fringe benefits as are determined. Such conforming procedures shall be initiated by the contractor prior to the performance of contract work by such unlisted class(es) of employees. A written report of 'na proposed conforming action, including information regarding the agreement or disagreement of the authorized representative of the employees involved or, where there is no authorized representative, the employees themselves, shall be submitted by the contractor to the contracting officer no later than 30 days after such unlisted class(es) of employees performs any contract work. The contracting officer shall review the proposed action and promptly submit a report of the action, together with the agencys' recommendation and all pertinent information including the position of the contractor and the employees, to the Wage and Hour Division, Employment Standards Administration, U.S. Department of Labor, for review. (See section 4.6 (b)(2) of Regulations 29 CFR 4)

UNIFORM ALLOWANCE: If employees are required to wear uniforms in the performance of this contract (either by the terms of the Government contract, by the employer, by the state or local law, etc.), the cost of furnishing such uniforms and maintaining (by laundering or dry cleaning) such uniforms is an expense that may not be borne by an employee where such cost reduces the hourly rate below that required by the wage determination. The Department of Labor will accept payment in accordance with the following standards as compliance:

The contractor or subcontractor is required to furnish all employees with an adequate number of uniforms without cost or to reimburse employees for the actual cost of the uniforms. In addition, where uniform cleaning and maintenance is made the responsibility of the employee, all contractors and subcontractors subject to this wage determination shall (in the absence of a bona fide collective bargaining agreement providing for a different amount, or the furnishing of contrary affirmative proof as to the actual cost), reimburse all employees for such cleaning and maintenance at a rate of \$3.80 a week (or 76 cents a day); and effective April 1, 1991, the note shall be \$4.25 per week (or \$.85 cents per day). However, in those instances where the uniforms furnished are made of "wash and wear" materials, may be routinely washed and dried with other personal garments,' and do not require any special treatment such as dry cleaning, daily washing, or commercial laundering in order to meet the cleanliness or appearance standards set by the terms of the Government contract, by the contractor, by law, or by the nature of the work, there is no requirement that employees be reimbursed for uniform maintenance costs.

NOTE: The duties of employees under job titles listed are those described in the Service Contract Act Directory of Occupations, Fourth Edition, January 1993, unless otherwise indicated. See also 29 CFR Part 4 Section 4.152.

TOTAL			
QUAN	PART #	MANUFACTURER	DESCRIPTION
(* 18) 1		AMX	Axcess Programming for all systems
1	AXCESS	AMX	Frame w/ cards for Mtg. Rm.
1	AXCESS	AMX	Frame w/ cards for Sub-Com Rm
2	AXP-SP+	AMX	Softwire Control
2	AXRE	AMX	RF Receiver
2	MX-120A	AMX	Slide Projector Remote
2	MX-40A	AMX	Slide Projector Remote
1	TX32	AMX	Wireless Control
1	TX64	AMX	Wireless Control
3	1070 Spectrum	ASTATIC	Tabletop Mic
. 2	DS-7E	ATLAS	Tabletop Mic Stand
10	MS-12C	ATLAS	Microphone Floor Stands
22	AT857GMLa	AUDIO-TECHNICA	Conference Table & Lectern Mic
. t	4YDM 1612 V1A2	AUTOPATCH	Video & Audio Routing Switcher
3	303	Aphex	Compeller/Exciter/Aural Expander
f.	MAVM	B-T	TV Channel Modulator
1	204-751	BUHL	Mirror Stand
: 1	PM-300	CARVER	Control Booth Amplifier
14	PSC-50	CARVER	Preamplifier
3	PT-1800	CARVER	Theatre System Amplifier
1	PT-2400	CARVER	Overhead System Amplifier
2	4371	ELMO	Lamps
2	A305	ELMO	Overhead Projector
9	PD-11LV	ETA	Power Strip
4	Macil MBC	EXTRON	Cable set for RGB 202
4	AGB 202 PLUS	EXTRON	Computer Interface (Metal Enc.)
4	AGBS 12	EXTRON	Cable set for RGB 202
1	SW6AR	EXTRON	6x1 RGBS Switcher
4	VGA-HR	EXTRON	Cable set for RGB 202
1	LD-100	FAROUDJA	Scan Doubler w/rack mt.
2	A16x9BMD-D24	FUJINON	Lens for PTZ mount cameras
A	A16x9BRM-28	FUJINON	Lens for tripod mount camera
1	ECK-926B	FUJINON	Remote control cable set for ECK-926
1	MM8AB	FURMAN	Steering Mixer
2	901	GE	Video Projector
2	SC-10	GE	System Controller
5	SC-10 OUT	GE	Output Module for SC-10
6	SC-10 RGBS IN	GE	RGBS Input Module for SC-10
9	SC-10 VID IN	GE	Video Input Module for SC-10
2	VZ-10	GE	Document Display Stand

NRC Main Equipment List

TOTAL		Bernaugen under seinen sein	
QUAN	PART #	MANUFACTURER	DESCRIPTION
3	3505	INLINE	RGBS Switcher Slide Projector
2	EktaIIIAMT	KODAK	Control Booth Monitor w/mount
2	81-1	KSI	
1	VNR-40-300	KSI	Equipment Rack w/ glass doors Video Distribution Amplifier
2	DA-6020	LAIRD	12x1 Video Switcher
1	RS-400	LAIRD	
1	RS-420	LAIRD	6x1 Video Switcher
- t	LBO-5860B	LEADER	Waveform Monitor
1	LVS-5805B	LEADER	Vectorscope
1	CP-1 PLUS	LEXICON	Surround Sound Processor
1.1.1		LIBERTY.	91"W x 70"H Front Surface Mirror
3	PMD-500	MARANTZ	Dual Cassette Deck
+	FS-10 w/TBC	MICROTIME	Time Base Corrector/Frame Sync
3	CUSTOM	MIDDLE ATLANTI	Rack Mount for AG-W1
3	CUSTOM	MIDDLE ATLANTI	Rack Mount for 3503
1	#341	MILLER	Tripod & Fluid Head System
. 1	#372	MILLER	Tripod Dolly
2	EXWSJF	NAVITAR	Brightlight Kit
2	GNZ-70125	NAVITAR	Zoom Lens
. · · •	V/M 2100	NAVITAR	Slide to Video Unit
1	AG-1740	PANASONIC	VHS Recorder/Player
2	AG-7350	PANASONIC	S-VHS Recorder/player
2	AG-M730	PANASONIC	Rack Mount for AG-7350
з	AG-W1	PANASONIC	VHS Universal Recorder/Player
1	BA-131	PANASONIC	Rack Mount for BTS-1360Y
1	BA-90A	PANASONIC	Dual Rack Mount for BT-S901Y
4	BT-S1360Y	PANASONIC	13" Color Monitor
2	8T-5901Y	PANASONIC	8" Color Monitor
1	WJ-MX-50	PANASONIC	Video Mixer
12		PHONIC EAR	Spare Batteries
50		PHONIC EAR	Spare Ear Cushions
. 2	AT 568	PHONIC EAR	Transmitting Antenna
2	PE 300C 12	PHONIC EAR	Storage/Recharging System
12	PE 300R-W	PHONIC EAR	FM Receiver
2	PE 550T	PHONIC EAR	FM Transmitter w/ AT 209A P.S.
	CLD-V2400	PIONEER	Laserdisk Player
	CUSTOM	RUSLANG	Console w/overbridge equipment rack
3	FBX-900	SABINE	Feedback Eliminator
	A2WS-BK	SHURE	Windscreen for SM-57
8		SHURE	Wireless Lavalier Mic System
1	ECD114/93	SHUKE	VAILCIOSS Lavaner Mile System

NRC Main Equipment List

TOTAL		ng disalagi di si	andra ana ini kao na fisina na ini na ini ana mandri ana mandri ana na ana ana na ana ana ana ana ana
QUAN	PART #	MANUFACTURER	DESCRIPTION
1	ECD24/Beta 87	SHURE	Wireless Handheld Mic System
5	FP-16A	SHURE	Distribution Amplifier w/rack mount
17	FP-410	SHURE	Automatic Mixer w/rack mount
1	M-267	SHURE	Auxiliary Mixer for backup
8	SM-57	SHURE	Unidirectional Dynamic Mic
2	SM-58	SHURE	Omnidirectional Dynamic Mic
2	CCU-M7	SONY	Camera Control Unit
2	CCZ-A25	SONY	Camera Cable
1	DXF-50	SONY	Viewfinder
1	GVM-2020	SONY	20" Color Monitor
. 2	MB-507	SONY	Rack Mount for 5" Monitors
3	PAK-537A	SONY	DXC537A Camera & CA537 Adapter
2	PVM-411	SONY	4" Monochrome Monitor
6	PVM-5041 Q	SONY	5" Color Monitor
1	RMM-507	SONY	Rack Mount for VPH-7020
3	ST-92-TV	SONY	TV Tuner
1	VCT-14	SONY	Tripod Adapter
1	VP-7020	SONY	U-Matic Player
4	5070-19-25	SOUNDOLIER	Equipment Rack
4	5070-19-FD	SOUNDOLIER	5000 Series Rear Door
2	5070-25-LRP	SOUNDOLIER	5000 Series Side Panels
4	BPS-19-25	SOUNDOLIER	5000 Series Bottom Panel
4	CS-HDPR	SOUNDOLIER	Rack Casters
24	SD7-165	SOUNDOLIER	Storage Drawers
3	SMB-D Series	SOUNDOLIER	Console
4	TPS-19-25	SOUNDOLIER	5000 Series Top Panel
6	1RGBSIN	TECHNIARTS	RGBS Input Plate
4	1 VIDIN	TECHNIARTS	Video Input Plate
21	1XLR	TECHNIARTS	Custom Mic Input Plate
1	2PDP	TECHNIARTS	Press Distribution Panel
14	2XLR	TECHNIARTS	Custom Mic Input Plate
. 11	6PDP	TECHNIARTS	Press Distribution Panel
2	CROP	TECHNIARTS	Court Reporter Output Plate
1	CUSTOM	TECHNIARTS	Rack mount A/V PATCH & RGBS Pane
1	CUSTOM	TECHNIARTS	Projection Stand for Light-Valve
3	RGBSVA	TECHNIARTS	Video & RGBS Input Plate
1	VC-00	TECHNIARTS	On/Off/Volume Plate
З	VIDRET	TECHNIARTS	Video Feed & Return Plate
1	GM-E	TELEX	Gooseneck Mic for SS-2p
4	IC-1/LS	TELEX	Belt Packs

QUAN	PART #	MANUFACTURER	DESODIATION
Million Internet	n of the second second second second second second		UESCHIF HON
4	PH-1	TELEX	Headsets
1	PS-1F	TELEX	Power Supply
1.1	SS-2P	TELEX	Rack Mounted Master Station
- 1 i	A903MK2	TOA	Power Amplifier/Mixer
1	1-01S	TOA	Paging Module
2	MB-25B	TOA	Rack Mount for P-912MK2
1	MB-25B	TCA	Rack Mount for A903MK2
2	P-912MK2	TOA	Power Amplifier
1	S-03S	TOA	Paging/Chime Module
1	U-01R	TOA	Line Input Module
2	V-6000	VICON	Pan & Tilt Unit
2	V6605LM	VICON	Fujinon Lens Mod for Vicon contro
1	V7070C	VICON	PTZ Control Unit
3	4650	WHITE	1/3 Octave Equalizer
			The contract contracting of

NOTES:

- 1. All loudspeakers in job are being supplied and installed by NRC with the exception of the booth monitors.
- 2. Equipment list shows only major equipment items. Additional miscellanous supplies and interfaces will be provided to supply a properly functioning system.