



Date 4/17/2026

**Addendum # 1 to Bid 002973  
MEIC AV SYSTEM UPGRADES**

LSU Health Sciences Center will reject any proposal which does not acknowledge this addendum. Acknowledge by including a signed copy of this addendum with your bid.

**More Bid Questions:**

Q. See attached updated scope of work and parts list.

Please acknowledge this Addendum by signing and returning it with your bid.

Mark Malter  
Purchasing

By \_\_\_\_\_ Name/Title \_\_\_\_\_  
(Signature) (Type or Print)

Firm's Name \_\_\_\_\_

The following language in the original Scope of Work document and Parts List covering the following rooms is superseded by this document and the Parts List Addendum attached:

- Simulation Room 1 (213)
- Simulation Control Room (214)
- Simulation Room 2 (215)
- Simulation Room 3 (216)

### **Simulation Room 1 (213)**

The existing equipment in each room, except where noted, must be removed and returned to LSUHNO for surplus. The successful bidder must also remove all associated wiring for that equipment back to the origin of the cabling.

### **Control**

The entire system must be controlled with a Crestron VC-4 control system running on an LSUHNO server (OFE) in the LSUHNO data center. The integrator will provide the required single room license to control rooms 213, 214, 215, and 216. The user interface with the control system for this room will be a Crestron TSW-770 touch panel on the wall near the door. The user interface design must be coordinated with and approved by LSUHNO. The system shall take advantage of all functionality offered by the Crestron control system including but not limited to:

- Display Power Control
- Volume Control
- Source Switching
- Video Routing
- Hide Picture on/off
- Mute Volume on/off
- Lighting control
- Crestron's X-Panel web-based control

This room contains two simulators (OFE), each with its own AIO PC (OFE) as described below. The control system will allow for video and audio from each of the two simulators to be routed to either or both displays and speakers as required.

### **Video**

Mounted behind each of the displays will be a Crestron DM-NVX-D30 Decoder. The integrator will mount the Sharp displays using the existing articulating mount (OFE).

The HDMI output of the DM-NVX-D30 will be connected to the HDMI input of the display.

There will be two AIO PCs (OFE) that are used as simulated patient monitors that are mounted on existing mounts (OFE). The integrator will mount one DM-NVX-E30 behind each of these PCs (OFE) and connect the HDMI output of the AIO PC (OFE) to the input of the DM-NVX-E30 and connect the DM-NVX-E30 to the LSUHNO network. The DM-NVX-360 designated for this system will be turned over to LSUHNO as a portable unit to be used as required.

The integrator will also provide, connect, and install an Axis M5525-E IP camera (OFE) as directed and approved by LSUHNO. LSUHNO will configure the camera for use with the simulation capture system.

### **Audio**

The integrator will install and connect to the LSUHNO network two Shure MXA902 microphone/loudspeaker units as directed and approved by LSUHNO. The audio processor for this room will be located in the network closet (G201).

### **NVX Networking**

The integrator will connect the NVX endpoints to a Cisco network switch (OFE) provided and configured by LSUHNO. The switch will be configured and managed by the LSUHNO Enterprise Network Group. Cabling for the DM-NVX endpoints from the network closet to this room will be provided and installed by LSUHNO.

## **Conclusion**

Included in the bid must be a one-year warranty on equipment and installation and a one-year contract for service and support. Once the integrator reaches substantial completion, the integrator must send a notice in writing to the LSUHNO Purchasing Department stating this and LSUHNO must accept this status. Acceptance will only come from the LSUHNO Purchasing Department in writing to the integrator. The one-year agreements must start from LSUHNO's acceptance of the project.

Upon acceptance of the project, the vendor will turn over all information related to the project including but not limited to all as-built drawings, uncompiled Crestron code, programs, equipment user IDs and passwords, manuals, remotes, cases, software, warranty information, IP addresses, and spare hardware as well as keys and any special tools included for the equipment. Also, updated code and one line drawings must be provided as changes are made throughout the one-year support period.

Once the installation is complete, a demo and installation review and any relevant training must be rendered to representatives chosen by LSUHNO.

All cables which run through ceiling spaces **must** be **plenum** rated. All cables connected to Crestron DM devices must be Crestron certified. All cables must include a minimum of a 10% service loop. No permanent wire ties must be used; only releasable wire ties, clips, etc. or hook and loop straps are allowed within the rack. LSUHNO is a Crestron A+ Partner and must receive pricing at or below the A+ Partner pricing.

## **Simulation Control Room (214)**

The existing equipment in each room, except where noted, must be removed and returned to LSUHNO for surplus. The successful bidder must also remove all associated wiring for that equipment back to the origin of the cabling.

## **Control**

The entire system must be controlled with a Crestron VC-4 control system running on an LSUHNO server (OFE) in the LSUHNO data center. The integrator will provide the required single room license to control rooms 213, 214, 215, and 216. The user interface with the control system will be a Crestron TS-1070 touch panel on a table top as directed and approved by LSUHNO. This room will control all four rooms, although each room will have some limited control from its own touch panel. The user interface design must be coordinated with and approved by LSUHNO. The system shall take advantage of all functionality offered by the Crestron control system including but not limited to:

- Display Power Control
- Volume Control
- Source Switching
- Video Routing
- Hide Picture on/off
- Mute Volume on/off
- Lighting control
- Joining or separating the sections of room 213
- Crestron's X-Panel web-based control

## **Video**

Using the Chief mounts, the integrator will mount the three Sharp displays as directed and approved by LSUHNO. Behind each display will be a DM-NVX-D30 with its HDMI

output connected to its display and the DM-NVX-D30 will be connected to the LSUHNO network. There will be three simulation control PCs (OFE), each will be connected to one DM-NVX-E30 mounted as directed and approved by LSUHNO. A DM-NVX-360 will be mounted in the room as directed and approved by LSUHNO for a user provided laptop (OFE) or other device (OFE).

## **Audio**

All audio for rooms 213, 214, 215, and 216 will be routed by the Q-Sys Core8 Flex which will be located in the network closet, G201. Audio will be both Dante and AES67. The integrator will install on tables as directed and approved by LSUHNO two Q-Sys QIO-ML2x2 network audio expanders mounted under the tables at either side of the room. Connected two inputs of one of these devices will be connected to a Sennheiser gooseneck microphone on a Sennheiser base with a mute button (one microphone on each input). The other unit will have one Sennheiser gooseneck microphone on a Sennheiser base with a mute button on one input. These will be configured to communicate with rooms 213, 215, and 216 as required. On the outputs of these Q-Sys expanders, the corresponding number of JBL 104 monitor speakers will be attached, two to one device and one to the other. The integrator will also provide three sets of Sennheiser HD 200 PRO headphones that can be connected to the audio output jacks on the JBL speakers as required.

In the hallway outside of Sim Rooms 1 and 2, there are JBL Control 126W speakers (OFE) mounted near the observation windows, each with a Lowell 25LVC volume control units (OFE). Two analog outputs of the Core8 Flex will feed two Crestron AMP-X50MP amplifiers located in room G201. These will each feed one of the hallway speaker systems (OFE) at 70V.

## **NVX Networking**

The integrator will connect the NVX endpoints to a Cisco network switch (OFE) provided and configured by LSUHNO. The switch will be configured and managed by the

LSUHNO Enterprise Network Group. Cabling for the DM-NVX endpoints from the network closet to this room will be provided and installed by LSUHNO.

### **Conclusion**

Included in the bid must be a one-year warranty on equipment and installation and a one-year contract for service and support. Once the integrator reaches substantial completion, the integrator must send a notice in writing to the LSUHNO Purchasing Department stating this and LSUHNO must accept this status. Acceptance will only come from the LSUHNO Purchasing Department in writing to the integrator. The one-year agreements must start from LSUHNO's acceptance of the project.

Upon acceptance of the project, the vendor will turn over all information related to the project including but not limited to all as-built drawings, uncompiled Crestron code, programs, equipment user IDs and passwords, manuals, remotes, cases, software, warranty information, IP addresses, and spare hardware as well as keys and any special tools included for the equipment. Also, updated code and one line drawings must be provided as changes are made throughout the one-year support period.

Once the installation is complete, a demo and installation review and any relevant training must be rendered to representatives chosen by LSUHNO.

All cables which run through ceiling spaces **must** be **plenum** rated. All cables connected to Crestron DM devices must be Crestron certified. All cables must include a minimum of a 10% service loop. No permanent wire ties must be used; only releasable wire ties, clips, etc. or hook and loop straps are allowed within the rack. LSUHNO is a Crestron A+ Partner and must receive pricing at or below the A+ Partner pricing.

### **Simulation Room 2 (215)**

The existing equipment in each room, except where noted, must be removed and returned to LSUHNO for surplus. The successful bidder must also remove all associated wiring for that equipment back to the origin of the cabling.

## **Control**

The entire system must be controlled with a Crestron VC-4 control system running on an LSUHNO server (OFE) in the LSUHNO data center. The integrator will provide the required single room license to control rooms 213, 214, 215, and 216. The user interface with the control system for this room will be a Crestron TSW-770 touch panel on the wall near the door. The user interface design must be coordinated with and approved by LSUHNO. The system shall take advantage of all functionality offered by the Crestron control system including but not limited to:

- Display Power Control
- Volume Control
- Source Switching
- Hide Picture on/off
- Mute Volume on/off
- Lighting control
- Crestron's X-Panel web-based control

## **Video**

Mounted behind each of the displays will be a Crestron DM-NVX-D30 Decoder. The integrator will mount the Sharp displays using the existing articulating mount (OFE).

The HDMI output of the DM-NVX-D30 will be connected to the HDMI input of the display.

There will be an AIO PC (OFE) that is used as a simulated patient monitor and is mounted on an existing mount (OFE). The integrator will mount the DM-NVX-E30 behind the PC (OFE) and connect the HDMI output of the AIO PC (OFE) to the input of

the DM-NVX-E30 and connect the DM-NVX-E30 to the LSUHNO network. The DM-NVX-360 designated for this system will be turned over to LSUHNO as a portable unit to be used as required.

### **Audio**

The integrator will install and connect to the LSUHNO network a Shure MXA902 microphone/loudspeaker unit as directed and approved by LSUHNO. The audio processor for this room will be located in the Sim Control room (214) as described in that section.

### **NVX Networking**

The integrator will connect the NVX endpoints to a Cisco network switch (OFE) provided and configured by LSUHNO. The switch will be configured and managed by the LSUHNO Enterprise Network Group. Cabling for the DM-NVX endpoints from the network closet to this room will be provided and installed by LSUHNO.

### **Conclusion**

Included in the bid must be a one-year warranty on equipment and installation and a one-year contract for service and support. Once the integrator reaches substantial completion, the integrator must send a notice in writing to the LSUHNO Purchasing Department stating this and LSUHNO must accept this status. Acceptance will only come from the LSUHNO Purchasing Department in writing to the integrator. The one-year agreements must start from LSUHNO's acceptance of the project.

Upon acceptance of the project, the vendor will turn over all information related to the project including but not limited to all as-built drawings, uncompiled Crestron code, programs, equipment user IDs and passwords, manuals, remotes, cases, software,

warranty information, IP addresses, and spare hardware as well as keys and any special tools included for the equipment. Also, updated code and one line drawings must be provided as changes are made throughout the one-year support period.

Once the installation is complete, a demo and installation review and any relevant training must be rendered to representatives chosen by LSUHNO.

All cables which run through ceiling spaces **must** be **plenum** rated. All cables connected to Crestron DM devices must be Crestron certified. All cables must include a minimum of a 10% service loop. No permanent wire ties must be used; only releasable wire ties, clips, etc. or hook and loop straps are allowed within the rack. LSUHNO is a Crestron A+ Partner and must receive pricing at or below the A+ Partner pricing.

### **Simulation Room 3 (216)**

The existing equipment in each room, except where noted, must be removed and returned to LSUHNO for surplus. The successful bidder must also remove all associated wiring for that equipment back to the origin of the cabling.

### **Control**

The entire system must be controlled with a Crestron VC-4 control system running on an LSUHNO server (OFE) in the LSUHNO data center. The integrator will provide the required single room license to control rooms 213, 214, 215, and 216. The user interface with the control system for this room will be a Crestron TSW-770 touch panel on the wall near the door. The user interface design must be coordinated with and approved by LSUHNO. The system shall take advantage of all functionality offered by the Crestron control system including but not limited to:

- Display Power Control

- Volume Control
- Source Switching
- Hide Picture on/off
- Mute Volume on/off
- Lighting control
- Crestron's X-Panel web-based control

## **Video**

Mounted behind each of the displays will be a Crestron DM-NVX-D30 Decoder. The integrator will mount the Sharp displays using the existing articulating mount (OFE).

The HDMI output of the DM-NVX-D30 will be connected to the HDMI input of the display.

There will be a AIO PC (OFE) that is used as a simulated patient monitor and is mounted on an existing mount (OFE). The integrator will mount the DM-NVX-E30 behind the PC (OFE) and connect the HDMI output of the AIO PC (OFE) to the input of the DM-NVX-E30 and connect the DM-NVX-E30 to the LSUHNO network. The DM-NVX-360 designated for this system will be turned over to LSUHNO as a portable unit to be used as required.

## **Audio**

The integrator will install and connect to the LSUHNO network a Shure MXA902 microphone/loudspeaker unit as directed and approved by LSUHNO. The audio processor for this room will be located in the Sim Control room (214) as described in that section. There is currently no need to communicate between this room and the control room, 214, so the speaker on the Shure MXA902 will be used for program audio only.

## **NVX Networking**

The integrator will connect the NVX endpoints to a Cisco network switch (OFE) provided and configured by LSUHNO. The switch will be configured and managed by the LSUHNO Enterprise Network Group. Cabling for the DM-NVX endpoints from the network closet to this room will be provided and installed by LSUHNO.

## **Conclusion**

Included in the bid must be a one-year warranty on equipment and installation and a one-year contract for service and support. Once the integrator reaches substantial completion, the integrator must send a notice in writing to the LSUHNO Purchasing Department stating this and LSUHNO must accept this status. Acceptance will only come from the LSUHNO Purchasing Department in writing to the integrator. The one-year agreements must start from LSUHNO's acceptance of the project.

Upon acceptance of the project, the vendor will turn over all information related to the project including but not limited to all as-built drawings, uncompiled Crestron code, programs, equipment user IDs and passwords, manuals, remotes, cases, software, warranty information, IP addresses, and spare hardware as well as keys and any special tools included for the equipment. Also, updated code and one line drawings must be provided as changes are made throughout the one-year support period.

Once the installation is complete, a demo and installation review and any relevant training must be rendered to representatives chosen by LSUHNO.

All cables which run through ceiling spaces **must** be **plenum** rated. All cables connected to Crestron DM devices must be Crestron certified. All cables must include a minimum of a 10% service loop. No permanent wire ties must be used; only releasable wire ties, clips, etc. or hook and loop straps are allowed within the rack. LSUHNO is a Crestron A+ Partner and must receive pricing at or below the A+ Partner pricing.

Parts for MEIC Second Floor Upgrade			
<b>MEIC 213, Sim Room 1</b>			
Part Number	Manufacturer	Description	Quantity
4P-B55EJ2U custom	Sharp	55" professional 4K monitor	2
DM-NVX-360	Crestron	Existing articulating wall mount (OFE)	2
DM-NVX-E30	Crestron	Network AV encoder/decoder, portable	2
DM-NVX-D30	Crestron	Network AV encoder	1
TSW-770-B-S	Crestron	Network AV decoder	2
TSS-1070-W-S	Crestron	7" Wall mount touch screen	1
MXA902	Shure	10" Room scheduling touch screen	1
M5525-E	Axis	Network microphone and loudspeaker	2
CEN-ODT-C-POE	Crestron	IP camera for sim capture (OFE)	1
SW-XIOC-EM	Crestron	Dual-Technology occupancy sensor	1
		XiO Cloud endpoint management license, annual	1
<b>MEIC 214, Sim Control</b>			
Part Number	Manufacturer	Description	Quantity
4P-B43EJ2U	Sharp	43" professional 4K monitor	3
TS325TU	Chief	Thininstall 25" extension arm wall mount	3
DM-NVX-E30	Crestron	Network AV encoder	3
DM-NVX-D30	Crestron	Network AV decoder	3
DM-NVX-360	Crestron	Network AV encoder/decoder	1
QIO-ML2x2	Q-Sys	Dante network audio expander	2
MEG 14-40	Sennheiser	Gooseneck microphone	3
MAT 133-S B 104	Sennheiser	Table top mic stand with mute button	3
HD 200 PRO	JBL	Powered monitor speaker pair	3
TS-1070-X-S	Sennheiser	Professional headphones	3
VC-4-ROOM	Crestron	Table top touch panel	1
	Crestron	Virtual control server license	1
<b>MEIC 215, Sim Room 2</b>			
Part Number	Manufacturer	Description	Quantity
4P-B55EJ2U custom	Sharp	55" professional 4K monitor	2
		Existing articulating wall mount (OFE)	2

DM-NVX-360	Crestron	Network AV encoder/decoder, portable	1
DM-NVX-D30	Crestron	Network AV decoder	2
TSW-770-B-S	Crestron	7" Wall mount touch screen	1
TSS-1070-W-S	Crestron	10" Room scheduling touch screen	1
MXA902	Shure	Network microphone and loudspeaker	1
CEN-ODT-C-POE	Crestron	Dual-Technology occupancy sensor	1
SW-XIOC-EM	Crestron	XiO Cloud endpoint management license, annual	1
<b>MEIC 216, Sim Room 3</b>			
<b>Part Number</b>	<b>Manufacturer</b>	<b>Description</b>	<b>Quantity</b>
4P-B55EJ2U	Sharp	55" professional 4K monitor	2
custom		Existing articulating wall mount (OFE)	2
DM-NVX-E30	Crestron	Network AV encoder	3
DM-NVX-360	Crestron	Network AV encoder/decoder, portable	1
DM-NVX-D30	Crestron	Network AV decoder	2
TSW-770-B-S	Crestron	7" Wall mount touch screen	1
TSS-1070-W-S	Crestron	10" Room scheduling touch screen	1
MXA902	Shure	Network microphone and loudspeaker	1
CEN-ODT-C-POE	Crestron	Dual-Technology occupancy sensor	1
SW-XIOC-EM	Crestron	XiO Cloud endpoint management license, annual	1
<b>MEIC G201</b>			
Core 8Flex	Q-Sys	Network audio processor	1
SLDAN-32-P	Q-Sys	Dante license for 32x32	1
AMP-X50MP	Crestron	MP Amplifier, 50 W	2