ADDENDUM THREE
QUESTIONS and ANSWERS

Date: May 9, 2018

To: All Bidders

From: Nancy Storant/Dianna Gilliland, Buyers
             AS Materiel State Purchasing

RE: Addendum for Request for Proposal Number 5820 Z1
             to be opened May 31, 2018 at 2:00 p.m. Central Time

Questions and Answers

Following are the questions submitted and answers provided for the above mentioned Request for Proposal. The questions and answers are to be considered as part of the Request for Proposal. It is the Bidder's responsibility to check the State Purchasing Bureau website for all addenda or amendments.

Question Number	RFP Section Reference	RFP Page Number	Question	State Response
1.	V, D. Project Requirements – Introduction Paragraph	Page 33	During the Pre-Proposal Conference, I asked whether it's NETC's intent for the chosen vender to replace all device interface cabling, to include, network, serial and GPIO, NETC suggested to only replace what requires replacing. However, since this is a fixed cost response and project of this magnitude, it is incumbent on the vender to price device interface cabling as if replacing all current device interface cabling and cabling for the Master Control and Production systems and equipment. To accurately calculate the cabling required, we request NETC release all equipment rack elevation drawings, equipment room floor and existing cable trays with distances for all equipment outlined in the RFP.	The bidders who attended the Pre-Proposal Conference will be provided a link and credentials for accessing files pertinent to the response for this question. To receive this link, please e-mail your request to as.materielpurchasing@nebraska.gov and the link will be sent to you.
2.	Section 4.6.0	Page 41	We request NETC release a list of all Evertz modules to include model number, quantity and equipment rack location throughout NETC broadcast, transmission and Master Control and Production locations.	See response to Question #1.
3.	Section 5.0	Page 42	In order for vender to tailor a system to include NETC's Television and Radio Master Control, Production Studios and Remote Systems it is necessary to understand NETC's broadcast signal workflow. It's our request NETC release a sample broadcast signal workflow articulating what equipment, systems are part of the workflow.	See response to Question #1.See response to Question #1.
4.	5.9.0 Grass Valley Vision Mixers:	Page 42	Does the meaning on control for these devices extend to the creation and recalling of EMEM?	The EMEM recall should be part of the Control system.

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5.	5.10.0 Vizrt Treo Graphics System:	Page 42	Does the meaning of control for this system extend to the creation and recall of graphics scenes that contain data sourced from the control system? Is this device currently being controlled from a MOS gateway or other newsroom system interface?	The graphics scenes recall, and source data should be part of the Control system. No such control is currently being used.
6.	5.11.0 AVID Thunder Video Server System	Page 42	Does the meaning of control for this system extend to scheduling of recordings and resource conflict resolution/alerting for said scheduled recording? Is there an expectation that the video input/output for each channel be available inside the control GUI? Is there an expectation that the control system will manage the storage on the AVID system?	This system serves as the clip player for the Grass Valley switcher. Playback control is by switcher GPI. No scheduling is required. Video inputs and outputs controlled by the routing switcher should be available inside the control GUI. Inputs are often file based including alpha channel. Avid Storage will continue to be managed by Avid Interplay PAM, at this time; The system should manage file transfer from AVID
7.	5.12.0 Grass Valley Summit k2 Video Server System	Page 42	Does the meaning of control for this system extend to scheduling of recordings and resource conflict resolution/alerting for said scheduled recording? Is there an expectation that the video input/output for each channel be available inside the control GUI? Is there an expectation that the control system will manage the file transfer on/off the K2 storage? Is there an expectation that the control system initiate/manage K2 utilities to expose ingesting files to craft edit systems? Is there an expectation that the control system will manage the storage on the K2 servers? Do the K2 servers have the slow motion playback option and if so is it expected that the control system expose slow motion playback?	This is production equipment that will not need scheduling; some requirements may not be possible with this current device, but future devices should meet these requirements. Video inputs and outputs controlled by the routing switcher must be available inside the control GUI. File transfer on and off the K2 should be managed. The system should manage file transfer to and from AVID editing At a minimum the storage should be monitored for capacity and errors. The Summit is currently controlled by a K2 Dyno, which has slow motion; no control is necessary. Bidder should provide the best solution to meet the requirements of the RFP.
8.	5.13.0 EVS XT3	Page 42	Is there an expectation that the control system be able to initiate recording and playback of clips on the EVS? Is there an expectation that the control system be able to initiate transfers of	The system should initiate playback of clips, as well as clip transfers to other storage. EVS X-files is the current file management. EVS truck Manager is not installed. Refer to above answer.

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			ingesting clips off the EVS system to other storage?	
			Is there an expectation that the control system expose the variable speed slow motion options of the EVS via the control systems interface?	The manual speed control from physical controller is existing method of adjusting variable speed. This should be accomplished through a remote interface.
			Is there an expectation that the control system will manage the storage on the EVS servers?	The control system should at a minimum monitor the storage for capacity and errors. Bidder should provide the best solution to meet the requirements of the RFP.
9.	5.24.0 Newtec Tricaster Model 460/8000	Page 43	Is there an expectation that the control system will expose the Tricasters per channel dynamic color correction controls?	The system should provide Color correction control
			Is there an expectation that the control system will expose the Tricasters real time audio mixing?	Yes
			Is there an expectation that the control system will in any way track the configurable dashboard layout currently loaded in the Tricaster?	Yes
			Is there an expectation that the control system will allow the DDR playlists in each Tricaster channel to be manipulated remotely without affecting the on air playout?	Yes
			Is there an expectation that the control system will expose the Tricasters currently available media on all attached storage?	Yes
			Is there an expectation that the control system will expose the Tricasters CG system for creation of pages using control system sourced information?	Yes
10.	General Request	N/ A	We request NETC release the presentation presented at the Pre-Proposal Conference	See response to Question #1.
11.	Attachment Two		How should optional hardware or hardware that increase the capability of the system be costed for the individual transmission sites? There are sections in the overall cost section, but not in the per-site sections.	. All optional hardware must be included in the Optional Cost section of the Cost Proposal. Please list all hardware and their related cost. In the RFP be sure to list the optional hardware in a section marked optional.
12.	Attachment Two		During the pre-proposal conference it was indicated that NET may choose to contract work directly rather than performing the work under the RFP. How should items which could potentially fall into this category be reflected in the cost proposal?	NETC requires the cost of all contract work provided by the bidder be included in the cost proposal, The bidder must note any part of the RFP that they are not providing with the expectations that NETC will provide.

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13.	V.B	26	The scope of work indicates the project will be complete within 3 years, but the cost proposal is based on 5 x 1 year contracts. How do we do the detailed per-year cost proposal with this as a clause?	Need clarification by Nancy! NET plans to complete the project specified in RFP in three years. Any of the additional years on the initial contract after the project completion would be support and maintenance only.
14.	V.D.6	33	Please clarify this requirement. Does it simply mean execute automation scripts based on either time or data coming from devices?	Both, A particular event could be scheduled to happen at a particular time and date, or in reaction to the change of status of a device or system.
15.	V.D.12	33	For this requirement do you simply want the types of systems to be specified or a listing of every make, model and variant which our system supports?	The types of systems specified should be adequate. Please provide types of systems. Please list as part of PRM#12 on Attachment One.
16.	V.D.24	34	Fully pointed devices are often impractical if all parameters are active. Is the intent of this requirement simply to identify all drivers which are not capable of being fully pointed?	Yes, the intent is to specify those drivers which are not fully pointed and would require additional development if the parameter is not active in the driver but available from the manufacturer. Please identify drivers. Please list as part of PRM#24 on Attachment One.
			Please clarify the definition of fully pointed in the context of this RFP.	A driver which has ALL parameters as designed by the manufacturer designed into it.
17.	V.E.11	35	Please clarify the meaning of media? LTO/Disk? MP3/AAC? Operating system?	Any required media (LTO, DAT, DVD, CD, USB, etc…) shall be compatible with many types of systems, platforms and operating systems. Refer to Section V.D.10
18.	V.F.1.3.0	35	Please indicate what NET is expecting with reference to how Ethernet communications will be established, administered, maintained, and operated?	When using ethernet protocols within the NMCS are the configurations, parameters and settings done within the NMCS itself or defined outside the NMCS by 3rd party software systems, are they then administered and operated within the NMCS or by 3rd party systems emulated within the NMCS. *A device uses http for interfacing to the device thru a web browser, if the NMCS can communicate directly to the device via the same http will it use an external browser, a browser built into the NMCS or a panel which emulates the browser and its capability or something else?
			Are you looking for the capabilities of the system with respect to how Ethernet based protocols are supported?	Yes
19.	V.F.2.16.0	39	For the Miteq/MCL U-9656-6-1K, do we need to support both Serial and SNMP?	No, for those devices which support multiple communications protocols, ethernet (IP) is preferred.
20.	V.F.6.9.0	45	Will the KACE enterprise systems inventory	No

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			act as the system of record for all devices which the NMCS should interact?	
21.	Exhibits B-N		For the transmitters, generators and HVAC systems can you indicate whether they have GPIO, Serial, ModBus or SNMP options. For example, the Harris Platinum transmitter has both a SNMP and GPIO option. Devices with SNMP are not that important in terms of count, but we'll need an accurate count of those that support ModBus or GPIO to ensure we have sufficient capacity.	*See response to Question #1.*
22.		5820 Z1	When pricing are we to include the equipment, and then after the fact NET can see if the University buy is cheaper?	If hardware is be used please note that and provide specifications for that hardware. If the hardware is supplied by the bidder they are required to itemize the cost on the Cost Proposal..
23.	D.2	5820 Z1 33	Is it expected that the control system will allow control of the transmitter sites by dialup connection for emergency backup control and are these landlines isolated from IP connection.	Yes, either control of the NMCS directly via dialup or a totally diverse backup system. Yes, they are separate lines.
24.	D.4	5820 Z1 33	Should the proposed system be capable of IPV6 in the future.	The ADC automation system is currently using IPV6 as part of the control system. At this time there is no other IPV6 in the plant or plans to migrate to it. the State does not know what the future technology will be, Bidder should provide the best solution to meet the requirements of the RFP.
25.	D.6	5820 Z1 33	Since timed events are required, for accuracy does NET have an NTP source and is it a stratum 0, and system wide is a stratum 1 sufficient or is PTP required.	NET has a redundant Master Clock GPS system with NTP and will be adding a PTP clock in the future.
26.	D.16	5820 Z1 33	The single sign-on requirement, is this connected to the active directory domain for the system, and does it need to be tied into the NET house domain.	Currently is not connected to active directory but it could be. It does not need to be tied to the house domain but we could create a forest trust relationship.
27.	D.21	5820 Z1 34	Can NET provide a copy of the security policy.	The State of Nebraska's security policy can be found at: www.cio.nebraska.gov/pmo/sec_policy.html The University of Nebraska's policies, practice and standards can be found at: https://its.unl.edu/policies-practies-standards/ The NETC security policy is in development
28.	D.27	5820 Z1 34	What type of security audit does the system have to withstand.	Currently Cisco ASA PIX Audit. Soon to be Cisco Firepower Next Gen Inspection.
29.		5820 Z1	Does NET require vendor to replace current passive PDUs with active PDUs to facilitate	Not at this time.. . Bidder should provide the best solution to

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			remote power booting.	meet the requirements of the RFP.
30.	F.1.128	5820 Z1 37	Does the environmental monitoring solution need to be standardized.	No, but the bidder should provide the best solution to meet the requirements of the RFP. .
31.	F.1.129	5820 Z1 37	Does NET have the I/P remote interface for the ATS switches/Cummins Gen set installed or does NET have the model numbers for the ATS switches.	No KUON- OTPCC-5569910 KHNE- OTPCC-400 KLNE- OTPCC-4965150 KMNE- Not available KPNE- OTPCC-5566849 KRNE- Not available KTNE- Not available KXNE- OTPCC-5002837 KYNE- Not available KCNE- Not available KUCV- OTPCB-5566957
32.	3.6.0	5820 Z1 40	Do the Lieberts mentioned have their I/P interface modules.	Yes
33.	3.12.0	5820 Z1 40	Do the remote sites have the HID access system or are they key entry and need a door sensor.	No, they do not have the HID access system. They are keyed and currently have a door sensor. The bidder should provide the best solution to meet the requirements of the RFP.
34.	3.13.0	5820 Z1 40	Do the remote sites have Vesda Fire detection systems or does a separate detector need to be interfaced with the HVAC monitor. And what are the current interconnections to the MaxView MNCS system.	No the remote site do not have a Vesda Fire detection system. Currently there are smoke detectors using GPI. The bidder should provide the best solution to meet the requirements of the RFP.
35.	4.1.0	5820 Z1 41	For the routers, does NET plan on the NMCS system replacing the central administration point for routing control, meaning that if you need to reconfigure the crosspoint names you would go to the NMCS system to do that, not the individual control systems.	Yes
36.		5820 Z1	With the equipment list being exhaustive, what items are current being monitored by the MaxView NMCS system?	*See response to Question #1.*

This addendum will become part of the proposal and should be acknowledged with the Request for Proposal.