

MEMORANDUM FOR USPFO WY – P&C

FROM: NGWY-IMO

SUBJECT: Purchase Description for JFHQ Auditorium – Audio Visual Equipment Refresh

Background / Purpose: To restore full functionality to the JFHQ auditorium for ceremonies, presentations, and other WYARNG and WYANG use. The existing audio-visual head-end system is non-functional due to the failure of a critical, end-of-life component. The goal is to refresh the necessary equipment to ensure a fully functional and reliable auditorium AV system.

1.

- 2. Minimum Specifications:** The vendor shall provide equipment and services to meet the following minimum specifications. All new equipment should be from the Linux brand to ensure compatibility with existing, retained components wherever possible.

	BLD	TITLE	QTY
1.	JFRC	Audio Digital Signal Processor (DSP)	1
2.	JFRC	Control Processor	1
	JFRC	Touch Panel	1
	JFRC	Rack & Mounting Hardware	As required

- 3. Additional Description:** The new equipment must include the following salient description:

- Audio Digital Signal Processor (DSP):
 - a. Description: A modern, professional-grade audio DSP to replace the failed Symetrix Jupiter 8. The new DSP must integrate with the existing, retained amplification, loudspeakers, and Shure ULXD wireless microphone system. The platform will be confirmed at contracting.
 - b. Quantity: 1
- Control Processor:
 - c. Description: A new control processor to replace the existing 15-year-old unit. The new processor must be capable of controlling the new DSP and must align with current platform standards.
 - d. Quantity: 1
- Touch Panel:
 - e. Description: New touch panel hardware for system control, paired with a full UI redesign and rebuild on the new platform. The final size and mounting style will be confirmed at contracting.
 - f. Quantity: 1
- Rack & Mounting Hardware:
 - g. Description: All necessary rack and mounting hardware for the new DSP, control processor, and touch panel.
 - h. Quantity: As required

4. Installation and Programming Instructions:

- Site Assessment:
 - a. Conduct a final site assessment to confirm the compatibility of the new equipment with the existing retained systems (amplifiers, loudspeakers, cabling, Shure ULXD wireless microphones, display, and projection systems).
 - b. Identify any potential challenges or modifications required for the installation.
 - c. Ensure all work complies with local, state, and national safety and building codes.
- Safety Measures:
 - d. Implement safety protocols for all work, including the use of personal protective equipment (PPE).
- Remove Existing Unit:
 - e. Safely disconnect and remove the existing Symetrix Jupiter 8 DSP, control processor, and touch panel.
 - f. Properly dispose of the old components in accordance with environmental regulations.
- Install and Integrate Components:
 - g. Install the new DSP, control processor, and touch panel, including any necessary rack work, signal cabling adjustments, labeling, and terminations.
 - h. Integrate the new components with the retained amplification, loudspeakers, and wireless microphone systems.
- Programming and Configuration:
 - i. Perform a full system programming rebuild for both the DSP and control systems.
 - j. Redesign and implement a new user interface (UI) for the touch panel.
 - k. Tune the audio system, including signal flow and levels through the new DSP, to optimize performance in the auditorium.

5. Testing:

- a. Perform commissioning and signal flow verification to ensure all components are functioning correctly as an integrated system.
- b. Conduct a full system test to verify audio functionality, control responsiveness, and overall system stability.
- c. Perform a safety inspection of the new installation.

6. **Special Considerations:** The following existing equipment is to be retained and is not part of this replacement contract: Display and projection systems, amplifiers, loudspeakers, existing cabling infrastructure, and Shure ULXD wireless microphone hardware. The contractor is not responsible for providing electrical power, conduit, structural support, or network infrastructure and IT switches.

7. **Delivery:** The vendor shall coordinate the delivery and installation of all equipment and services with the technical point-of-contact at [REDACTED] or [REDACTED]. Project completion is desired as soon as possible. Delivery shall be made to the JFHQ Auditorium in Cheyenne, WY.

8. **Quality Assurance:** The vendor shall provide brand new items and professional installation services according to the highest industry standards.
9. **Inspection / Acceptance:** The technical point-of-contact will review the contractor's performance and the functionality of the installed system prior to the acceptance of a final invoice. A brief end-user training session at closeout is required.

