STATEMENT OF WORK
US Space Force
Rectifier/inverter system for Buckley DISA node facility
Current as of 10 August 2026

1. SCOPE:

The government requires the full replacement of the rectifier/inverter system located in building 730, room 132. Power rectification is the process of converting an alternating current (AC) waveform into a direct current (DC) waveform, which is essential for powering electronic devices that require a stable, single-polarity power supply. This system hosts power feeds from commercial power, generator power and uninterruptable power supplies (batteries) to ensure steady reliable power for the DoW long haul communications.

2. REQUIREMENT:

• The contractor shall replace the current rectifier/inverter/power distribution system, battery strings, battery spill containment pan, battery disconnects, A/C power circuits, and all necessary hardware/wiring.

• Upon project completion, the vendor shall demonstrate how the new system is operational and provide a training overview of all the components of the new system. The contractor shall turn over operator's manuals for all components of the system.

• The contractor shall remove/dispose of all existing equipment, racks, cable trays, hardware, wiring, and construction debris.

• The contractor shall include any work needed to be subcontracted into the bid amount. Any subcontracted work is the responsibility of the contractor to schedule, manage, and fund work related to this statement of work.

• The contractor shall complete all work related to this project without interruption of power to equipment within the facility. If the power needs to be shut down, the contractor shall identify what circuits will be down and for the duration of the interruption.

SPECIFICATIONS:

The replacement rectifier must meet 2,400 to 2,800 amp load range. The current amp load of the existing system is 2,800 amps (200amps x 14 units). The contractor shall install batteries equivalent or better than the existing batteries (C&D Technologies MS Endur II). The quantity of existing batteries are 6 strings with 24 jars per string. Each string shall include battery disconnects equivalent or better than the existing units (Peco II, -48v 1800 amp). Battery disconnects can be wall mounted or top mounted but must be stated in the proposed solution. The system must feed new power distribution to the D/C breaker panel to include load A,B,C,D from commercial power,

battery power and generator power sources. The power distribution must meet or exceed the existing unit (Lorain Power System Model 1231v1) Power must feed into the A,B,C,D,E and F sectors of the DC breaker panel. The inverter system must accommodate the existing DC breaker panels and A/C circuits within the node facility.

The contractor shall relocate the power distribution and inverter bay into room 133 adjacent to the current rectifier bay, this will free up floor space in room 132. The contractor shall position all the new equipment in a manner that will optimize cooling and vent away from the battery strings.

3. DELIVERY:

The vendor shall implement and complete project within 180 days. This period will start after equipment is received on site. The vendor shall provide a timeline of when all the equipment will ship to the site, they will be required to schedule the installation of the equipment in advance. Any loss of power must be coordinated with site personnel in advance. The contractor shall provide an implementation plan and anticipated project timeline.