MISSION SUPPORT AND TEST SERVICES, LLC

UNDER PRIME CONTRACT DE-NA0003624 WITH THE UNITED STATES OF AMERICA ACTING THROUGH
THE UNITED STATES DEPARTMENT OF ENERGY
POST OFFICE BOX 98521
LAS VEGAS, NV 89193-8521

REQUEST FOR PROPOSAL

DATE OF AMENDMENT: July 28, 2025 **NUMBER: AJ-0013363**

IMPORTANT: PROPOSALS WILL BE RECEIVED UNTIL AUGUST 6, 2025, 4:00 PM LOCAL TIME. PROPOSALS ARE TO BE PROVIDED AS DETAILED IN THE REQUEST FOR PROPOSAL.

INQUIRIES SHOULD BE DIRECTED TO: AMY JUSTICE, MISSION SUPPORT AND TEST SERVICES, LLC, NORTH LAS VEGAS, NEVADA, TELEPHONE NUMBER (651) 303-9182, EMAIL; JUSTICAL@NV.DOE.GOV. IF SUCH INQUIRIES ARE OF A COMPLEX NATURE OR SCOPE, THEY SHOULD BE IN WRITING.

AMENDMENT NO. 002

SUBJECT REQUEST FOR PROPOSAL NO. AJ-0013363, DATED: JULY 7, 2025 FOR THE PROVISION OF 480V, 150 KVA UNINTERRUPTIBLE POWER SUPPLY AND TECHNICAL SERVICES IS HEREBY AMENDED AS FOLLOWS:

1. This Amendment 002 serves to provide responses to questions received in support of this request as further detailed below:

- **Question 1:** Are breakers in the MBP required to be 100% duty rates and any special trip unit requirement?

  MSTS Response to Question 1: *Assuming MBP refers to the maintenance bypass cabinet – there is no preference for 100% breakers. However, the rating of the individual components within the UPS assembly shall be selected by the equipment supplier to meet the performance criteria (so they don't limit the output of the UPS). Refer to Note 6 on drawing 01889-E-6234.*

- **Question 2:** Please confirm the battery run time chart show 126 kVA for one minute and 58 kVA for 59 minutes DS-480-UPS-805?

  MSTS Response to Question 2: *Please refer to the load profile on the data sheet DS-480-UPS-805, rev. 1. The 126.17kVA is designed to account for the inrush during starting of a compressor motor, while after the next duration up to 60 minutes the load is expected to be constant at 57.92kVA.*

- **Question 3:** Data sheet calls for MBP to be internal; The internal MBP cannot support power quality meters, is an external MBP acceptable? DS-480-UPS-805?

  MSTS Response to Question 3: *External Maintenance bypass is acceptable and preferred. However, the connecting cables/termination between the UPS and the MPB must be supplied with the package.*

- **Question 4:** Confirm only one power quality meter. Should the sensing be on the UPS input or UPS output. Ethernet communication on the meter will be provided DS-480-UPS-805?

  MSTS Response to Question 4: *The power quality is required only for the output power to the load. Please note the power quality performance requirements listed in the specification 17-0-106 section A paragraph 2.2, page 8. Supplier must guarantee these requirements and provide the supporting documentation to demonstrate the performance (test reports, conformance certificates, calculations, etc.).*

- **Question 5:** Remote battery disconnect requires lockable hasp? Hasp is not addressed in the specification.

  MSTS Response to Question 5: *All disconnects are required to be lockable in the open position.*

- **Question 6:** The drawings only call for one 150 kVA UPS one of the specifications mentions 4 different UPS assume this bid is for one 150kVA UPS only 17-0-106 section 1.1.2 show 4 different UPS requirements.

  MSTS Response to Question 6: *The specification is common for all the UPSs on the project. However, the scope of this procurement package is only the 150kVA unit (the others are already procured as part other packages).*

- **Question 7a:** Are installation or connection drawings required for this project ? if so do they require a PE stamp and is any state acceptable?

  MSTS Response to Question 7a: *Shop drawings for the UPS, by-pass cabinet, battery cabinet including controls, termination and anchoring details are required. No PE stamping is required for these drawings. Refer to drawing 01889-E-6234 for the boundaries of the "Equipment Subcontractor Package". Integration of this equipment into the plant design is outside of the scope of this supply (installation drawings and cable connections to the external power supply and load, including the connection to the external battery bank will be done by others).*

- **Question 7b:** The size of P-480-UPS -805 and P-480-FDISC-905 are not specified is the projected cable length known? DS-480-UPS-805 requirement for drawings was not specifically detailed but have been requested after purchase on other orders

  MSTS Response to Question 7b: *Cable to the load and the downstream distribution equipment is excluded from the scope of supply for this package. However, the equipment within this package's scope of supply shall include the necessary provisions (terminations, lugs, etc.) to interface with the following cable sizes for the power cables shown on ref dwg 01889-E-6234. Note that all cables shall be designed enter from the top or side for free standing equipment (as bottom entry is not an option).*
  - *P-480-UPS-805: 3/C_#350+G_MC*
  - *P-480-FDISC-905: 3/C_#350+G_MC*
  - *P-486-DISC-805-1 & -2: 1/C_#500 (estimated length 110ft). Supplier may recommend alternat size to meet the performance criteria.*
  - *P-486-BAT-805-1 & -2: 1/C_#500*

- **Question 8:** Drawing 01889-E-6234 shows battery monitoring is that part of this project. Attachment 6.5 01889-E-6234 PBPI

  MSTS Response to Question 8: *Battery monitor is required to be provided. Refer to drawing 01889-E-6234 for the boundaries of the "Equipment Subcontractor Package".*

- **Question 9:** Is battery ground fault detection a required alarm point for this installation (for the UPS or the Battery system) ? 17-0-106 section 2.9.6 also the UPS does not have a ground fault alarm. Please confirm if ground fault relay is required.

  MSTS Response to Question 9: *Ground fault detection is required for the ungrounded portion of the system, on the battery side. The output contact that alarms in case of a fault will be wired to the plant control system by others.*

When submitting your proposal, please acknowledge receipt of this amendment by indicating on the Offeror's Proposal Letter the number of amendments.