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**LTI Power Systems Rectifiers/Battery Chargers and UPS/Inverter**

**Brand Name Determination RFO Part 12**
**Justification and Approval Simplified Procedures**
**for**
**Certain Commercial Items**

LTI Power Systems Rectifiers/Battery Chargers and UPS/Inverter

Authority: RFO 12.102(a) - For acquisitions valued at or below the simplified acquisition threshold (SAT), document the decision that only one source is available and the basis for the decision.

Amount: Total contract value estimated to be [redacted]

[redacted]

**LTI Power Systems Rectifiers/Battery Chargers and UPS/Inverter**

**NAME BRAND DETERMINATION**

1. **CONTRACTING AGENCY:**
   Portland District, U.S. Army Corps of Engineers, Contracting Division, 333 SW First Avenue, OR 97204-3495.

2. **DESCRIPTION OF ACTION:**
   Approval is being requested for a Brand name firm fixed price contract, to purchase (2 each) LTI Power Systems brand, 250A Rectifiers/Battery Chargers and (1 each) 15kVA UPS (Uninterruptible Power Supply)/Inverter for Bonneville Lock and Dam.

3. **DESCRIPTION OF SUPPLIES/SERVICES OR NATURE OF CONSTRUCTION:**
   The LTI Power Systems Rectifiers/Battery Chargers and UPS/Inverter are required to replace failing equipment currently in use at Bonneville Lock and Dam.

| CLIN: | Description | QTY | [redacted] |
|---|---|---|---|
| 0001 | ProUPS Industrial 120VDC Rectifier, LTI Power Systems Model # LT3048HC | 2 each | |
| 0002 | Conformal Coating for LTI Power Systems 120VDC Rectifier | 2 each | |
| 0003 | ProUPS Industrial 15kVA UPS, LTI Power Systems Model # LT154848HD | 1 each | |
| 0004 | External Manual Bypass Switch for LTI Power Systems 15kVA UPS | 1 each | |
| 0005 | Conformal Coating for LTI Power Systems 15kVA UPS | 1 each | |

4. **AUTHORITY CITED:**

   RFO 12.102 - Document decisions to restrict competition, including the use of brand-name descriptions without allowing for "equal" products, as follows:

   (a) For acquisitions valued at or below the simplified acquisition threshold (SAT), document the decision that only one source is available and the basis for the decision.

5. **REASON FOR AUTHORITY CITED:**

   a. Background: Bonneville Lock & Dam requires replacement of existing faulty DC battery chargers and a critical AC uninterruptible power supply (UPS) to ensure continued operational integrity of critical control, protection, and auxiliary loads at Bonneville Lock and Dam. The equipment must provide reliable 125/120 VDC power to existing battery systems, and conditioned 480/277 VAC, 3-phase power to critical loads, while integrating with existing plant AC and DC distribution and fitting within the existing equipment rooms.

   b. **Justification:** The LTI Power Systems ProUPS rectifiers/battery chargers and UPS/inverter are being specified as brand name items because they provide a coordinated, integrated solution that is compatible with existing DC battery systems and AC distribution at Bonneville Lock and Dam, while fitting within strict physical and environmental constraints. While this acquisition will be set aside for small business, the brand-name specification is necessary to ensure compatibility with existing systems. Small business vendors will be solicited to provide the LTI Power Systems equipment through authorized distribution channels.

   **Electrical compatibility:** The requested rectifiers/battery chargers (125 VDC, 60-cell, 250 A output) and the UPS/inverter (120 VDC, 60-cell input; 480/277 VAC 3-phase output) match the plant's existing DC and AC design, avoiding re-engineering of battery systems, protective relays, and load panels.

   **Standardization and coordination:** The requested LTI ProUPS rectifiers/battery chargers and UPS/inverter are designed to operate in the same voltage and configuration

[redacted]

**Maintenance and reliability:** The requested conformal coating on printed circuit boards and the external manual bypass switch for the UPS/inverter are important for reliable operations and maintainability in a hydropower environment with possible moisture and corrosive exposure. Using equipment without equivalent protections and bypass features would increase the risk of premature failures and complicate maintenance.

[redacted]

- [redacted]

  [redacted]

- [redacted]

  [redacted]

[redacted]

[redacted]

Previous purchases for similar items:

- W66QKZ50509897, $92,044.98, SupplyCore, ProUPS Industrial 60kVA UPS, LTI Power Systems Model LT60H48D.
- W66QKZ40662601, $55,165.64, SupplyCore, ProUPS Industrial 30kVA UPS, LTI Power Systems Model LT60H12D.

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