



# Office of General Services

DESIGN & CONSTRUCTION GROUP  
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## ADDENDUM NO. 2 TO PROJECT NO. Q1841

### ELECTRICAL WORK PROVIDE CCTV / AUDIO MONITORING SYSTEM ADDITIONS AUBURN CORRECTIONAL FACILITY 135 STATE STREET AUBURN, NY

March 10, 2025

**NOTE:** This Addendum forms a part of the Contract Documents. Insert it in the Project Manual. Acknowledge receipt of this Addendum in the space provided on the Bid Form.

#### SPECIFICATIONS

1. SECTION 263354 UNINTERRUPTIBLE POWER SUPPLY SYSTEM: Discard the Section bound in the Project Manual and substitute the accompanying Section (pages 263354-1 thru 263354-7) noted "Revised March 10, 2025".

#### DRAWINGS

2. Drawing No. E-12-201:
  - a. KEYED NOTES, Change Note 1 to read:
    - "1. PROVIDE SINGLE NEMA L5-30R, 120V RCEPTACLE IN DOUBLE GANG BOX WITHIN EER. PROVIDE 120V, 30A CIRCUIT BREAKER IN EXISTING PANEL PP-3 FOR RECEPTACLE."
3. Drawing No. E-18-201:
  - a. KEYED NOTES, Change Note 1 to read:
    - "1. PROVIDE SINGLE NEMA L5-30R, 120V RCEPTACLE IN DOUBLE GANG BOX WITHIN EER. PROVIDE 120V, 30A CIRCUIT BREAKER IN EXISTING PANEL PP-3 FOR RECEPTACLE."
4. Drawing No. E-27-201:
  - a. KEYED NOTES, Change Note 1 to read:
    - "1. PROVIDE SINGLE NEMA L5-30R, 120V RCEPTACLE IN DOUBLE GANG BOX WITHIN EER. PROVIDE 120V, 30A CIRCUIT BREAKER IN EXISTING PANEL PP-3 FOR RECEPTACLE."

**END OF ADDENDUM**

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## SECTION 263354

### UNINTERRUPTIBLE POWER SUPPLY SYSTEM

#### PART 1 GENERAL

##### 1.01 RELATED WORK SPECIFIED ELSEWHERE

- A. Digital Video/Audio Recording and Virtual Matrix System: Section 282320.
- B. CCTV/Audio Monitoring Equipment: Section 282306.

##### 1.02 DEFINITIONS

- A. Manufacturers' Technical Advisor:
  - 1. An individual certified in writing by the company producing the system, meeting the following requirements:
    - a. Certified to be technically qualified in design, installation, and servicing of the required products.
    - b. Certified as successfully completed training on the required products from the company producing the system.
    - c. Certified as having experience in the installation of the required products.
    - d. Certified as being capable to act as Manufacturers' Technical Advisor on behalf of the company producing the system in the installation of the required products.
    - e. Personnel involved solely in sales do not qualify.

##### 1.03 DEFINITIONS

- A. The Uninterruptible Power Supplies (UPS) shall provide continuous high quality regulated sine wave power to the equipment located in CMC racks and EERs.
  - 1. A UPS shall provide full battery back up to the equipment in the CMC Racks and EERs for a minimum for 10 minutes at the fully rated load on the UPS.

##### 1.04 SUBMITTALS

- A. Waiver of Submittals: This "Waiver of Certain Submittal Requirements" in Section 013300 does not apply to this Section.
- B. Submittals Package: Submit the shop drawings, product data, and quality control submittals specified below at the same time as a package.
- C. Shop Drawings:
  - 1. Wiring and/or schematic diagram of the complete system as proposed to be installed (standard diagrams will not be accepted).
- D. Product Data:
  - 1. Catalog sheets, specifications and installation instructions including:
    - a. UPS description.

- b. UPS site planning and unpacking.
  - c. UPS installation.
  - d. Optional accessory installation.
  - e. UPS theory of operation.
  - f. Operating procedures.
  - g. System events.
  - h. UPS maintenance.
  - i. Performance and technical specifications.
  - j. Wiring requirements and recommendations.
2. Company's data indicating volt-amp rating with proof that the unit will meet the final system test.
  3. Name, address and telephone number of nearest fully equipped service organization.
- E. Quality Control Submittals:
1. Battery Purchase Data: Statement indicating proposed date for battery purchase and installation.
  2. Manufacturers' Technical Advisor Data: Include:
    - a. Name, business address and telephone number of Manufacturers' Technical Advisor secured for the required services.
    - b. Certified statement from the Manufacturers listing the qualifications of the Manufacturers' Technical Advisor.
    - c. Services and each product for which authorization is given by the Manufacturers, listed specifically for this project.
    - d. Load Calculations: Provide load calculations proving that the proposed UPS shall provide full power to the Digital Video/Audio Recording System for a minimum of 10 minutes at the full rated load on the UPS.
- F. Contract Closeout Submittals:
1. Test Report: System acceptance test report.
  2. Certificate: Affidavit, signed by the Manufacturers' Technical Advisor and notarized, certifying that the system meets the contract requirements and is operating properly.
  3. Battery Manufacture Certified Date: Upon battery purchase, submit certified data from the battery manufacturer indicating date batteries were manufactured.
  4. Operation and Maintenance Data: Deliver 2 copies, covering the installed products, to the Director's Representative.

## 1.05 QUALITY ASSURANCE

- A. Equipment Qualifications For Products Other Than Those Specified:
1. At the time of submission provide written notice to the Director of the intent to propose an "or equal" for products other than those specified. Make the "or equal" submission in a timely manner to allow the Director sufficient time to review the proposed product, perform inspections and witness test demonstrations.
  2. If products other than those specified are proposed for use furnish the name, address, and telephone numbers of at least 5 comparable installations that can prove the proposed products have performed

satisfactorily for 3 years. Certify in writing that the owners of the 5 comparable installations will allow inspection of their installation by the Director's Representative and the Company Field Advisor.

- a. Make arrangements with the owners of 2 installations (selected by the Director) for inspection of the installations by the Director's Representative. Also obtain the services of the Company Field Advisor for the proposed products to be present. Notify the Director a minimum of 3 weeks prior to the availability of the installations for the inspection, and provide at least one alternative date for each inspection.
  - b. Only references from the actual owner or owner's representative (Security Supervisor, Maintenance Supervisor, etc.) will be accepted. References from dealers, system installers or others, who are not the actual owners of the proposed products, are not acceptable.
    - 1) Verify the accuracy of all references submitted prior to submission and certify in writing that the accuracy of the information has been confirmed.
3. The product manufacturer shall have test facilities available that can demonstrate that the proposed products meet the contract requirements.
- a. Make arrangements with the test facility for the Director's Representative to witness test demonstrations. Also obtain the services of the Company Field Advisor for the proposed product to be present at the test facility. Notify the Director a minimum of 3 weeks prior to the availability of the test facility, and provide at least one alternative date for the testing.
4. Provide written certification from the manufacturer that the proposed products are compatible for use with all other equipment proposed for use for this system and meet all contract requirements.
- B. Source Quality Control: The company producing the system shall have test facilities available which can demonstrate that the proposed system meet contract requirements.
- C. Manufacturers' Technical Advisor: Secure the services of a Manufacturers' Technical Advisor for a minimum of 40 working hours for the following:
1. Render advice regarding installation and final adjustment of the system.
  2. Verify that batteries are properly matched to units.
  3. Witness final system test and then certify with a sworn affidavit that the system is installed in accordance with the contract documents and is operating properly.
  4. Train facility personnel on the operation and maintenance of the system (minimum of two 1-hour sessions).
  5. Explain available service programs to facility supervisory personnel for their consideration.
- D. Service Availability: A fully equipped service organization capable of guaranteeing response time within 24 hours to service calls shall be available to service the completed Work.

## **1.06 DELIVERY, STORAGE AND HANDLING**

- A. Do not purchase batteries more than 60 days before completion date, just prior to final system test.
- B. Batteries shall not have been in an active state prior to purchase. Shelf life shall not exceed battery manufacturers recommendations.

#### **1.07 PROJECT CONDITIONS**

- A. The uninterruptible power supply shall meet all requirements at the following ambient temperatures (actual site conditions):
  - 1. Maximum ambient temperature: 85 degrees F.
  - 2. Minimum ambient temperature: 50 degrees F.

#### **1.08 MAINTENANCE**

- A. Spare Parts:
  - 1. 50 percent spare of each type fuse.

### **PART 2 PRODUCTS**

#### **2.01 UNINTERRUPTIBLE POWER SUPPLY**

- A. EER Rack UPSs: Eaton 9PX On-Line Uninterruptible Power System series unit, model 9PX3000RT, having:
  - 1. The size of the UPS shall be as required to provide a minimum of 3 KVA of fully rated load power to its associated DVARVMS equipment in the EERs.
  - 2. 120 VAC 60 Hz input voltage.
    - a. L5-30P plug in connection.
  - 3. 120 VAC 60 Hz output voltage.
    - a. Minimum of six (6) 5-20 receptacles, one (1) L5-30R receptacle.
  - 4. AC output branch protector.
  - 5. Sealed lead-acid, maintenance free batteries having:
    - a. Capacity to supply and maintain system at full rated load for 10 minutes (minimum).
    - b. Recharge time of 2 hours to 80 percent capacity.
  - 6. Utility failure alarm.
  - 7. UPS Maintenance Bypass switch, model EHBPL3000R-PDU1U.
  - 8. Bypass line voltage regulator.
  - 9. UL 1778 Listed.
  - 10. 2 rack unit version.
  - 11. Suitable for mounting in an EIA standard 19 inch rack (including necessary mounting hardware and accessories).
- B. CMC Rack UPSs: Eaton 9PX On-Line Uninterruptible Power System series unit, model 9PX6KP1, having:
  - 1. The size of the UPS shall be as required to provide a minimum of 6 KVA of fully rated load power to its associated DVARVMS equipment in the CMC.

2. 208 VAC, 1 phase, 60 Hz input voltage.
    - a. L6-30P plug in connection.
  3. 120/208 VAC, 1 phase, 60 Hz output voltage.
    - a. Minimum of six (6) 5-20R receptacles, (1) L6-30R, (1) L14-30R.
  4. AC load circuit breaker.
  5. Sealed lead-acid, maintenance free batteries having:
    - a. Capacity to supply and maintain system at full rated load for 10 minutes (minimum).
    - b. Recharge time of 2 hours to 80 percent capacity.
  6. Utility failure alarm.
  7. UPS Maintenance Bypass Switch, model MBP6K208.
  8. Bypass line voltage regulator.
  9. UL 1778 Listed.
  10. Suitable for mounting in an EIA standard 19 inch rack (including necessary mounting hardware and accessories).
- C. CMC UPS External Battery Modules (UPS-BAT): Eaton 9PX Suitable for 6 kVA UPS, model 9PXEBM180RT, having:
1. Sealed, Lead-acid; maintenance free.
  2. ABM technology; 3-stage charging for extended battery life.
  3. Hot-swappable internal batteries and External Battery modules (EBMs).
  4. Cold-start enabled.
  5. Suitable for mounting in an EIA standard 19 in rack (including necessary mounting hardware and accessories).

## 2.02 NAMEPLATES

- A. Nameplates provided by the electrical contractor: Precision engraved letters and numbers with uniform margins, character size minimum 3/16 inches high.
1. Phenolic: Two color laminated engraver's stock, 1/16 inch minimum thickness, machine engraved to expose inner core color (white).

## PART 3 EXECUTION

### 3.01 INSTALLATION

- A. General: Install uninterruptible power supply complete and ready for service.
1. Provide all power conductors and conduits between:
    - a. The panelboard and the UPS
    - b. The UPS and the rack.
- B. Nameplates:
1. Secure nameplate on front of CMC UPS unit, stating "UNINTERRUPTIBLE POWER SUPPLY".
  2. Secure nameplate on front of EER UPS unit, stating "UNINTERRUPTIBLE POWER SUPPLY".

### 3.02 FIELD QUALITY CONTROL

- A. Preliminary System Test:

1. Preparation: Have the Manufacturers' Technical Advisor adjust the completed system and then operate it long enough to assure that it is performing properly.
2. Run a preliminary test for the purpose of:
  - a. Determining whether the system is in a suitable condition to conduct an acceptance test.
  - b. Checking and adjusting equipment.
  - c. Training facility personnel.

### 3.03 UPS COMMISSIONING

- A. Factory start-up shall be provided on a 5x8 basis (7 x 24 optional). Start-up service shall be provided at no extra charge and shall include two visit to perform all procedures and tests specified within UPS Installation and Operation manual. UPS manufacturer shall also provide the following services:
  1. Pre-energize visit to inspect installation and provide guidance to installers as required.
  2. Post-start-up visit for alarm notification configuration, operator training, generator testing, etc.
- B. The following procedures and tests shall be performed by Manufacturers' Technical Advisor during the UPS startup:
  1. Visual Inspection:
    - a. Visually inspect all equipment for signs of damage or foreign materials.
    - b. Observe the type of ventilation, the cleanliness of the room, the use of proper signs, and any other safety related factors.
  2. Mechanical Inspection:
    - a. Check all the power connections for tightness.
    - b. Check all the control wiring terminations and plugs for tightness or proper seating.
  3. Electrical Pre-check:
    - a. Check the DC bus for a possible short circuit.
    - a. Check input and Bypass power for proper voltages and phase rotation.
    - b. Check all lamp test functions.
  4. Initial UPS Startup:
    - a. Verify that all the alarms are in a "go" condition.
    - b. Energize the UPS module and verify the proper DC, walkup, and AC phase on.
    - c. Check the DC link holding voltage, AC output voltages, and output waveforms.
    - d. Check the final DC link voltage and Inverter AC output. Adjust if required.
    - e. Check for the proper synchronization.
    - f. Check for the voltage difference between the Inverter output and the Bypass source.
    - g. On site full-load, step-load, and battery discharge tests using supplier furnished load bank.

5. **Operational Training:** Before leaving the site, the field service engineer shall familiarize responsible personnel with the operation of the UPS for a minimum of two 1-hour sessions. The UPS equipment shall be available for demonstration of the modes of operation.

### **3.04 WARRANTY**

- A. All components of the UPS system shall be covered by a standard one-year limited factory warranty and service protection package.
- B. One-year limited factory warranty shall include replacement coverage for the UPS parts for a period of 18 months from shipment or 12 months from start-up, whichever occurs sooner. Labor coverage is for 90 days after product startup.
- C. One-year service protection package shall include 7x24 on-site repair/ replacement labor for UPS parts and batteries; 7x24 technical support coverage; and 7x24 remote monitoring service (with monthly reports for UPS and battery performance). Standard response time shall be 8 hours from receipt of call.

**END OF SECTION**