SECTION 26 33 23

BATTERY EQUIPMENT

PART 1 - GENERAL

1.1 SUMMARY

A. This section includes small emergency power supplies (generally under 10 kVA) with integral battery and inverter, suitable for supplying incandescent, fluorescent and HID lighting, small motors, unit equipment, and control systems.

1.2 REFERENCES


1.3 SUBMITTALS

A. Section 01 33 00 – Submittal Procedures

B. Product Data: Submit catalog and data sheets showing electrical characteristics and connection requirements. Including complete model number, options selected, unit ratings, dimensions, and finishes. Include performance data for batteries.

1.4 CLOSEOUT SUBMITTALS

A. Section 01 77 00 - Execution Requirements: Closeout procedures.

B. Operation and Maintenance Data: Submit battery maintenance and unit testing procedures.

1.5 QUALITY ASSURANCE

A. Perform work in accordance with NFPA 110A.

B. Maintain one copy of document on site.

1.6 QUALIFICATIONS

A. Manufacturer: Company specializing in manufacturing products specified in this section with minimum three years documented experience and with service facilities within 100 miles of project.
1.7  WARRANTY

A.  Section 01 77 00 – Execution Requirements: Product warranties and product bonds.

B.  Provide minimum two years manufacturer warranty for batteries.

1.8  EXTRA MATERIALS

A.  Section 01 77 00 – Execution Requirements: Spare parts and maintenance products.

PART 2 - PRODUCTS

2.1  EMERGENCY POWER SUPPLY

A.  Manufacturers:

1.  Big Beam Emergency System, Inc.
2.  Federal Signal Corp.
3.  Reliance Electric
4.  Myers Power Products
5.  Substitutions: May be submitted for consideration

B.  Product Description: NFPA 110A, Class 1.5 stored emergency power supply system designed for Level One (1) applications and consisting of rectifier/charger units, storage battery, and solid state inverter with mechanical or static transfer switch, in one or several enclosures. Unit suitable of operating HID lamps without extinguishing lamp on transfer.

C.  Efficiency: 90 percent minimum.

D.  Total Harmonic Distortion:  Less than 10 percent at full resistive load.

E.  Battery: sealed type battery.

F.  Charger: Dual rate, designed to maintain battery in full-charge condition during normal conditions.

G.  Accessories: Provide bypass switch, enclosure mounted status panel and provisions for remote battery alarm.

PART 3 - EXECUTION

3.1  INSTALLATION

A.  Install units plumb and level & in accordance with NEC.
3.2 FIELD QUALITY CONTROL
    A. Verify operation of each unit by simulating outage.

3.3 DEMONSTRATION AND TRAINING
    A. Demonstrate normal operation of unit and maintenance required to facilities personnel.

END OF SECTION