

The School District of palm Beach County

Project Name:

SDPBC Project No.:

SECTION 26 52 00 EMERGENCY LIGHTING

PART 1 GENERAL

1.1 WORK INCLUDED

- A. Emergency lighting units
- B. Emergency LED exit signs
- C. Emergency fluorescent lamp power supplies

1.2 REFERENCES

- A. NFPA 101 - Code for Safety to Life from Fire in Buildings and Structures
- B. NEMA 5-WD1 - General-Purpose Wiring Devices

1.3 SUBMITTALS

- A. Submit product data under provisions of Section 01 33 00.
- B. Provide product data on emergency lighting units, exit signs, and emergency fluorescent lamp power supply units.

1.4 COMMISSIONING

- A. Commissioning of a system or systems specified in this section is part of the construction process.
- B. Documentation and testing of these systems, as well as training of the Owner's operation and maintenance personnel, is required in cooperation with the Owner's Representative and the Commissioning Authority.
- C. Project Closeout is dependent on successful completion of all commissioning procedures, documentation, and issue closure.
- D. Refer to Section 01 77 00 - Contract Closeout, for substantial completion details.
- E. Refer to Section 01 91 00 - Commissioning, for detailed commissioning requirements.

PART 2 PRODUCTS

2.1 INCANDESCENT EMERGENCY LIGHTING UNITS

- A. Emergency Lighting Unit: Self-contained unit with rechargeable storage batteries, charger, and lamps.
- B. Battery: 6-volt nickel-cadmium type, with 1.5-hour capacity to supply the connected lamp load.
- C. Charger: Dual-rate charger, capable of maintaining the battery in a full-charge state during normal conditions and capable of recharging discharged battery to full charged within 12 hours.
- D. Lamps: 8-Watt minimum, sealed beam type PAR 36.
- E. Remote Lamps: Match lamps on unit.
- F. Unit Housing: Provide steel with bronze hammer tone finish.
- G. Indicators: Provide lamps to indicate AC ON and RECHARGING.
- H. Provide switch to transfer unit from normal supply to battery supply.
- I. Electrical Connection: Provide knockout for conduit connection.

2.2 SELF-CONTAINED EMERGENCY POWER LED EXIT SIGNS

- A. Type: Exit signs with integral battery-operated emergency power supply, including power failure relay, test switch, AC ON pilot light, battery, and fully automatic two-rate charger.
- B. Battery: Provide a sealed lead acid or lead calcium cell requiring no maintenance or replacement for 10 years under normal conditions.

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PART 3 EXECUTION

3.1 INSTALLATION

- A. Install units plumb and level.
- B. Aim directional lamp heads as directed.
- C. Control devices for legally required fixtures shall be fail-safe; failure of the control device shall cause the light to turn on.

3.2 FUNCTIONAL PERFORMANCE TESTING

- A. System Functional Performance Testing is part of the Commissioning Process.
 - 1. The Contractor shall perform the Functional Performance Testing and the Commissioning Authority shall witness and document the test.
 - 2. Refer to Section 01 91 00, Commissioning, for functional performance tests and commissioning requirements.
- B. Systems Readiness Checklists shall be completed and submitted for each piece of equipment included in this section.
- C. Perform the functional performance testing of Panelboards as part of the Emergency Generator System Functional Performance testing.

3.3 DEMONSTRATION AND TRAINING

- A. Training of the Owner's operation and maintenance personnel is required in cooperation with the Owner's Representative.
 - 1. Provide competent, factory authorized personnel to provide instruction to operation and maintenance personnel concerning the location, operation, and troubleshooting of the installed systems.
 - 2. Schedule the instruction in coordination with the Owner's Representative after submission and approval of formal training plans.
 - 3. Refer to Section 01 91 00, Commissioning, for further contractor training requirements.
- B. Provide demonstration and training for all types of emergency lighting installed in this project.

END OF SECTION