**SECTION 26 52 00**

**EMERGENCY LIGHTING**

**PART 1 GENERAL**

1. WORK INCLUDED
   1. Emergency lighting units
   2. Emergency LED exit signs
   3. Emergency fluorescent lamp power supplies
2. REFERENCES
   1. NFPA 101 ‑ Code for Safety to Life from Fire in Buildings and Structures
   2. NEMA 5-WD1 ‑ General‑Purpose Wiring Devices
3. SUBMITTALS
   1. Submit product data under provisions of Section 01 33 00.
   2. Provide product data on emergency lighting units, exit signs, and emergency fluorescent lamp power supply units.
4. COMMISSIONING
   1. Commissioning of a system or systems specified in this section is part of the construction process.
   2. 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.
   3. Project Closeout is dependent on successful completion of all commissioning procedures, documentation, and issue closure.
   4. Refer to Section 01 77 00 - Contract Closeout, for substantial completion details.
   5. Refer to Section 01 91 00 - Commissioning, for detailed commissioning requirements.

**PART 2 PRODUCTS**

1. INCANDESCENT EMERGENCY LIGHTING UNITS
   1. Emergency Lighting Unit: Self-contained unit with rechargeable storage batteries, charger, and lamps.
   2. Battery: 6-volt nickel-cadmium type, with 1.5-hour capacity to supply the connected lamp load.
   3. 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.
   4. Lamps: 8-Watt minimum, sealed beam type PAR 36.
   5. Remote Lamps: Match lamps on unit.
   6. Unit Housing: Provide steel with bronze hammer tone finish.
   7. Indicators: Provide lamps to indicate AC ON and RECHARGING.
   8. Provide switch to transfer unit from normal supply to battery supply.
   9. Electrical Connection: Provide knockout for conduit connection.
2. SELF‑CONTAINED EMERGENCY POWER LED EXIT SIGNS
   1. 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.
   2. Battery: Provide a sealed lead acid or lead calcium cell requiring no maintenance or replacement for 10 years under normal conditions.

**PART 3 EXECUTION**

1. INSTALLATION
   1. Install units plumb and level.
   2. Aim directional lamp heads as directed.
   3. Control devices for legally required fixtures shall be fail-safe; failure of the control device shall cause the light to turn on.
2. FUNCTIONAL PERFORMANCE TESTING
   1. 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.
   2. Systems Readiness Checklists shall be completed and submitted for each piece of equipment included in this section.
   3. Perform the functional performance testing of Panelboards as part of the Emergency Generator System Functional Performance testing.
3. DEMONSTRATION AND TRAINING
   1. 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.
   2. Provide demonstration and training for all types of emergency lighting installed in this project.

END OF SECTION