SECTION 26 2550

GENERATOR DOCKING STATION

PART 1 - GENERAL

1.1 SECTION INCLUDES

A. Generator docking station.

1.2 RELATED SECTIONS

A. Generators: Section 26 3213.

1.3 REFERENCES

A. UL 1008: Transfer Switch Equipment.

1.4 SUBMITTALS

A. Product data: For generator docking station indicated. Include electrical ratings, operating characteristics, manufacturers' technical data on features and functions, enclosures, and furnished accessories.

B. Shop drawings: For generator docking station indicated, submit the following:

1. Ratings, dimensioned plans, elevations, and sections; weights; loads; required clearances; mounting arrangements; components; conductor entry, gutter space; and location of each field connection.
2. Wiring diagrams differentiating between manufacturer-installed and field-installed wiring, and including power and control wiring.

C. Field quality-control test reports.

D. Operation and maintenance data: For generator docking station and associated components, include in operation and maintenance manuals. In addition to items specified in Division 01, include the following:

1. Features and operating instructions.
2. Troubleshooting procedures.

E. Warranty: Certificate of special warranty.

1.5 QUALITY ASSURANCE

A. Electrical components, devices, and accessories: Listed and labeled as defined in NFPA 70, by a qualified testing agency, and marked for intended location and application.

B. UL (Underwriters Laboratories, Inc.) Standards, UL 1008.

C. Comply with NFPA 70, National Electrical Code (NEC).

1.6 WARRANTY

A. Special warranty: Manufacturer's standard form in which manufacturer agrees to repair or replace components of the generator docking station that fail in materials or workmanship within specified warranty period:

1. Warranty period: Two years from date of substantial completion.

PART 2 - PRODUCTS

2.1 GENERATOR DOCKING STATION

A. Manufacturers: Subject to compliance with requirements, provide products by the following:

1. ESL Power Systems, Model "TripleSwitch"
2. TRYSTAR, Model DPDS-5 (basis-of-design)

2.2 GENERAL REQUIREMENTS

A. Enclosure: Pad or wall mounted cabinet, front accessible, NEMA 250 Type 3R.

1. Front door: Hinged, gasketed, with pad-lockable latch.

B. Phase, neutral, and ground buses:

1. Material: Silver-plated, hard-drawn copper.
2. Equipment ground bus: Bonded to box.
3. Ground bus: 50 percent of phase size.
4. Neutral bus: Neutral bus rated 100 percent of phase bus.
5. Round edges on bus.

C. Temporary generator connections:

1. Camlocks: Color coded according to system voltage, with protective flip lids.

a. A phase: Brown
b. B phase: Orange
c. C phase: Yellow
d. N neutral: White
e. G ground: Green

2. Termination lugs for cable connections.

D. Voltage and phase: Indicated on drawings.

E. Amperage: Indicated on drawings.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine elements and surfaces to receive generator docking station for compliance with installation tolerances and other conditions affecting performance of the work.

B. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 INSTALLATION

A. Install anchor bolts to elevations required for proper attachment to generator docking station.

B. Temporary lifting provisions: Remove temporary lifting eyes, channels, and brackets and temporary blocking of moving parts from enclosures and components.

3.3 FIELD QUALITY CONTROL

A. Tests and inspections to include the following:

1. Perform each visual and mechanical inspection and electrical test stated in NETA Acceptance Testing Specification. Certify compliance with test parameters.
2. Correct malfunctioning units on-site, where possible, and retest to demonstrate compliance; otherwise, replace with new units and retest.

B. Generator docking station will be considered defective if they do not pass tests and inspections.

C. Prepare test and inspection reports, including a certified report that identifies generator docking station. Include notation of deficiencies detected, remedial action taken, and observations after remedial action.

D. Manufacturer's field start-up: Engage a factory-authorized service representative to inspect, test, and adjust components, assemblies, and equipment installations, including connections prior to turn-over to Owner.

END OF SECTION