

SECTION 16495

TRANSFER SWITCH

1. PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Automatic Transfer Switch.

1.2 REFERENCES

- A. NEMA ICS 1 - General Standards for Industrial Control and Systems.
- B. NEMA ICS 2 - Standards for Industrial Control Devices, Controllers, and Assemblies.
- C. NEMA ICS 6 - Enclosures for Industrial Controls and Systems.

1.3 SUBMITTALS

- A. Submit product data under provisions of Section 01300 – Submittals.
- B. Submit product data for transfer switches showing overall dimensions, electrical connections, electrical ratings, and environmental requirements.

1.4 OPERATION AND MAINTENANCE DATA

- A. Submit operation and maintenance data under provisions of Section 01700 – Contract Closeout.
- B. Include instructions for operating equipment under emergency conditions.
- C. Identify operating limits, which may result in hazardous or unsafe conditions.
- D. Document ratings of equipment and each major component.
- E. Include routing, preventive maintenance and lubrication schedule.
- F. List special tools, maintenance materials, and replacement parts.

2. PART 2 PRODUCTS

2.1 MANUFACTURERS

- A. By generator supplier, Cummins Power Generation (Onan).

2.2 AUTOMATIC TRANSFER SWITCH

- A. Description: NEMA ICS 2; automatic transfer switch, suitable for use for utility to generator operation. Transfer switch shall be rated for use as service entrance equipment.

- B. Automatic Transfer Switch shall be bid as in integral part of the generator.
- C. Transfer switch shall be capable of detecting and activating in the event of a phase loss.
- D. All 3-phase transfer switches shall have 3-color bar graph indicators for monitoring phase voltages and currents, frequencies.
- E. Transfer switch shall have LED indicators for switch status as well as test and override buttons allowing delays to be bypassed for rapid system checkout.

2.3 ENCLOSURE

- A. Enclosure: ICS 6; Type 3R or 4X.

2.4 ACCESSORIES

- A. Solid Neutral: Factory installed.

3. PART 3 EXECUTION

3.1 EXAMINATION

- A. Verify that surfaces are ready to receive Work.
- B. Verify field measurements are as shown on plans, or instructed by manufacturer.
- C. Verify that required utilities are available, in proper location, and ready for use.
- D. Beginning of installation means acceptance of existing conditions.

3.2 INSTALLATION

- A. Install in accordance with manufacturer's instructions.

END OF SECTION