

## SECTION 26 01 00

### COMMON WORK RESULTS FOR ELECTRICAL

#### PART 1 GENERAL

##### 1.01 REFERENCES

- A. In addition to references found in standard Division 1 electrical design and installation shall meet, as a minimum, the most recent applicable versions or regulatory requirements of the following:
1. Federal and state regulations.
  2. City and County of Denver regulations.
    - a) Denver Fire Prevention Bureau regulations.
  3. ICC (International Code Council).
  4. OSHA.
  5. ANSI/NFPA 70 (National Electric Code) as adopted by the AHJ.
  6. NEMA.
  7. IEEE.
  8. ANSI.
  9. ANSI/IEEE C2 – National Electrical Safety Code (NESEC).
  10. NFPA.
  11. NECA – Standard of Installation.

##### 1.02 OPERATION AND MAINTENANCE INFORMATION

- A. Include the following information, in addition to operation and maintenance information required by Division 1 standards and other Division 26 standards.
- B. Include a complete list of product data and shop drawings, acceptance tests, warranties, certificates, sub-contractor and supplier information (i.e. name, address, and phone no.).
- C. Include schematic diagrams and point-to-point wiring diagrams for the following systems.
1. Fire detection/alarm systems.
  2. Lighting/dimming control systems.
  3. Stage lighting systems.
  4. Motor control systems.
  5. Electrical systems control.
  6. Medium voltage equipment.
  7. Kitchen hood fire control panel.
  8. Clock systems.

#### PART 2 PRODUCTS

##### 2.01 EQUIPMENT

- A. Electrical equipment shall bear the U.L. label, or label / listing from other recognized testing agency, for the use intended.
- B. Furnish and install hazard caution floor tape marking required clearance areas around all electrical equipment.

## **PART 3 EXECUTION**

### **3.01 FIELD QUALITY CONTROL**

- A. The contractor shall hire an independent testing agent to conduct operating and acceptance tests on new electrical systems :
  - 1. Service entrance feeders, panelboard and distribution board feeders.
  - 2. Switchgear.
  - 3. Panelboards.
  - 4. Main grounding system including all grounding electrode conductors.
- B. The following systems shall be tested by a factory trained and certified technician for operating and acceptance testing:
  - 1. Engine generators and automatic transfer switches.
  - 2. Lighting control systems and dimming systems.
  - 3. Fire alarm and detection system.
  - 4. Area of rescue assistance two way communication system.
  - 5. Clock system.
- C. The testing agent shall prepare written reports of values of all test readings and procedures. Reports shall include all breaker settings and modifications to one-line and three-line drawings.
- D. The testing agent shall furnish all equipment, instruments and personnel required to conduct tests.
- E. Test will be defined in the individual section describing the equipment or system.

### **3.02 INSTALLATION**

- A. Permanent power shall not be turned on until all breaker settings are received and set, the correct CTs and PTs are installed, metering is installed correctly and wired correctly, grounding system is correctly installed, ground fault levels are properly set and all the above is verified by an independent testing agency, the A/E and the DPS.

### **3.03 CLEANING**

- A. Clean electrical equipment, such as switches, panelboards, luminaires, etc., of construction dirt, dust, paint smears, etc., and touch-up or repaint all scars, blemishes, rust spots, etc., to original state of finish.
- B. Vacuum interior of all switches, switchboards, panelboards, luminaires, junction boxes, outlet boxes, control panels, and other electrical enclosures.

### **3.04 DEMONSTRATION**

- A. Contractor shall provide training for DPS maintenance personnel for systems and equipment as required by the Division 26 Sections.
- B. The system manufacturer shall include factory training seminars for DPS maintenance personnel. Training seminars shall address operation, testing and maintenance of the system.
- C. System manufacturers shall provide certificates of training to attending DPS personnel.

**END OF SECTION 26 01 00**