

SECTION 16490  
FUSES

PART 1 - GENERAL

1.01 PROVISIONS INCLUDED

- A. The general provisions of the Contract, including General and Supplementary General Conditions, and Division 1 General Requirements, apply to work specified in this Section.
- B. Requirements of Section 16050, "Basic Electrical Materials and Methods," apply to this Section.

1.02 SUMMARY

- A. This Section specifies furnishing and field installation of fuses in accordance with these specifications and as indicated on the drawings. Fuses shall be furnished in quantities sufficient for a complete installation as indicated on the drawings and in these specifications.
- B. Related Work Specified in Other Sections:
  - 1. Disconnect switches, Section 16410.

1.03 REFERENCES

- A. National Fire Protection Association, NFPA 70, National Electrical Code.
- B. American National Standards Institute, ANSK C 97-1, Low Voltage Fuses 600 Volts or Less.
- C. Underwriters Laboratories:
  - 1. UL 198B, High Interrupting Capacity Class K Fuses.
  - 2. UL 997, Fused Power-Circuit Devices.

1.04 SUBMITTALS

- A. Product Data: Submit manufacturer's catalogue cuts for each type of fuse provided on this project; include descriptive data and time-current curves.

1.05 QUALITY ASSURANCE

- A. Manufacturer: Company specializing in manufacturing the products specified in this section with minimum three years documented experience.
- B. Installer: Company specializing in performing the work of this section with minimum three years experience.

## PART 2 - PRODUCTS

### 2.01 MANUFACTURERS

- A. Manufacturer: Furnish fuses manufactured by one of the following:
  - 1. Bussmann
  - 2. Gould-Shawmut
  - 3. Littelfuse.

### 2.02 PRODUCTS

- A. Fuse Characteristics: Non-renewable cartridge type, UL-listed, interrupting rating of 200,000 amperes RMS, Class as specified and voltage rating 600 volt AC or less, consistent with circuit voltage.
- B. Feeders Over 600 Amperes: Class L, dual-element, time delay current limiting.
- C. Feeders, Branch and Motor Circuits up to 600 Amperes: Class RK1 dual-element, time delay current limiting.
- D. Circuits for Potential and Control Transformers: Class RK1 fast acting.

## PART 3 - EXECUTION

### 3.01 INSTALLATION

- A. Install fuses in quantity and type as required for the fusible device.
- B. Install dual element time delay Class RK1 fuses for all motor circuits, power transformers primary and secondary protection, for overcurrent protection of the power panels, and in the switchboards.
- C. Size individual motor circuit fuses in accordance with the actual nameplate rating of motors.
- D. Prior to the final inspection at time of Substantial Completion, inspect fuses and replace fuses which fail or are found to be defective.

END OF SECTION 16490