

reference in the Reference Article. Also use the Reference Wizard's Check Reference feature to update the issue dates.

References not used in the text will automatically be deleted from this section of the project specification when you choose to reconcile references in the publish print process.

The publications listed below form a part of this specification to the extent referenced. The publications are referred to within the text by the basic designation only.

INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS (IEEE)

IEEE C37.42 (1996) High Voltage Expulsion Type Distribution Class Fuses, Cutouts, Fuse Disconnecting Switches and Fuse Links**

NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION (NEMA)

NEMA SG 2 (1993) Standard for High-Voltage Fuses

1.2 SUBMITTALS

NOTE: Review Submittal Description (SD) definitions in Section 01 33 00 SUBMITTAL PROCEDURES and edit the following list to reflect only the submittals required for the project. Submittals should be kept to the minimum required for adequate quality control.

A "G" following a submittal item indicates that the submittal requires Government approval. Some submittals are already marked with a "G". Only delete an existing "G" if the submittal item is not complex and can be reviewed through the Contractor's Quality Control system. Only add a "G" if the submittal is sufficiently important or complex in context of the project.

For submittals requiring Government approval on Army projects, a code of up to three characters within the submittal tags may be used following the "G" designation to indicate the approving authority. Codes for Army projects using the Resident Management System (RMS) are: "AE" for Architect-Engineer; "DO" for District Office (Engineering Division or other organization in the District Office); "AO" for Area Office; "RO" for Resident Office; and "PO" for Project Office. Codes following the "G" typically are not used for Navy, Air Force, and NASA projects.

Choose the first bracketed item for Navy, Air Force and NASA projects, or choose the second bracketed item for Army projects.

Government approval is required for submittals with a "G" designation; submittals not having a "G" designation are [for Contractor Quality Control approval.][for information only. When used, a designation following the "G" designation identifies the office that will review the submittal for the Government.] Submit the following in accordance with Section 01 33 00 SUBMITTAL PROCEDURES:

SD-03 Product Data

Equipment and Performance Data shall be submitted for distribution fuse cutouts in accordance with paragraph entitled, "General Requirements," of this section.

Manufacturer's catalog data shall be submitted for the following items:

Distribution Fuse Cutouts

SD-02 Shop Drawings

Fabrication Drawings shall be submitted for fuse cutouts in accordance with paragraph entitled, "General Requirements," of this section.

Installation drawings shall be submitted for Distribution Fuse Cutouts in accordance with the paragraph entitled, "Installation," of this section.

SD-08 Manufacturer's Instructions

Manufacturer's instructions shall be submitted for Fuse Cutouts including special provisions required to install equipment components and system packages. Special notices shall detail impedances, hazards and safety precautions.

1.3 GENERAL REQUIREMENTS

NOTE: If Section 26 00 00.00 20 BASIC ELECTRICAL MATERIALS AND METHODS is not included in the project specification, applicable requirements therefrom should be inserted and the following paragraph deleted.

Section 26 00 00.00 20 BASIC ELECTRICAL MATERIALS AND METHODS applies to work specified in this section.

Fabrication Drawings shall be submitted for fuse cutouts consisting of fabrication and assembly details to be performed in the factory.

Equipment and Performance Data shall be submitted for distribution fuse cutouts including life, test, system functional flows, safety features, and mechanical automated details.

PART 2 PRODUCTS

2.1 EQUIPMENT STANDARDS

Distribution fuse cutouts shall conform to the requirements of NEMA SG 2 and IEEE C37.42 and as specified.

2.2 FUSE CUTOUTS

Distribution fuse cutouts for application on distribution systems shall be the self-contained, enclosed, dropout type, or open type when required for higher voltage or interrupting rating. Loadbreak cutouts shall be installed only if specifically indicated.

The interrupting capacity shall be sufficient to break the maximum system fault current to which the cutout will be subjected. The minimum interrupting capacity shall be 16,000 amperes root mean square asymmetric.

Cutouts shall be either heavy-duty or extra-heavy-duty classification. Cutouts installed on three-phase, 13.2-kilovolt (kV) or 13.8-kV systems shall be rated at 15 kV. The installation of cutouts rated at 7.8 kV on these systems will not be allowed.

Fuse links shall have a continuous rating equal to approximately 150 percent of the full-load line current when used for transformer protection, and approximately 100 percent of the conductor rated capacity when used for circuit protection. The 15-kV cutout shall have a wet withstand, 10-second voltage rating of 37 kV, with a 95-kV basic impulse level (BIL). The continuous current rating shall be 100 amperes unless otherwise indicated. Fuse disconnects shall be rated not less than 100 amperes and shall have attachments to permit manual operation of the disconnect under load without external arcing.

Where indicated, lightning arresters and fuse cutouts shall be combined.

PART 3 EXECUTION

3.1 INSTALLATION

Distribution fuse cutouts shall be installed in accordance with the manufacturer's installation instructions.

-- End of Section --