

# PC37.42

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**Submitter Email:** [mstavnes@ieee.org](mailto:mstavnes@ieee.org)

**Type of Project:** Modify Existing Approved PAR

**PAR Request Date:** 01-Dec-2015

**PAR Approval Date:** 05-Feb-2016

**PAR Expiration Date:** 31-Dec-2016

**Status:** Modification to a Previously Approved PAR

**Root PAR:** PC37.42 **Approved on:** 29-Mar-2012

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**1.1 Project Number:** PC37.42

**1.2 Type of Document:** Standard

**1.3 Life Cycle:** Full Use

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**2.1 Title:** Standard Specifications for High-Voltage (>1000 V) Fuses and Accessories

**Changes in title:** ~~Standard Specifications for High-Voltage (>1000 V) Distribution and Power Class Fuses; Distribution Enclosed Single-Pole Air Switches and Accessories Used with These Devices~~

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**3.1 Working Group:** High Voltage Fuses -C37.42 (PE/SWG/HVF-WG\_C37.42)

**Contact Information for Working Group Chair**

**Name:** Mark Stavnes

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**Contact Information for Working Group Vice-Chair**

None

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**3.2 Sponsoring Society and Committee:** IEEE Power and Energy Society/Switchgear (PE/SWG)

**Contact Information for Sponsor Chair**

**Name:** Paul Sullivan

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**4.1 Type of Ballot:** Individual

**4.2 Expected Date of submission of draft to the IEEE-SA for Initial Sponsor Ballot:** 12/2015

**4.3 Projected Completion Date for Submittal to RevCom:** 05/2016

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**5.1 Approximate number of people expected to be actively involved in the development of this project:** 25

**5.2 Scope:** This standard establishes specifications for high-voltage (above 1000 V) fuses and accessories for use on ac electrical distribution systems. Devices with rated maximum voltages to 170 kV are covered. The devices to which this standard applies are as follows:

- Expulsion fuses (including fuse cutouts)
- Current-limiting fuses
- Items a) and b) used in fuse enclosure packages
- Fuse supports of the type intended for use with fuses and fuse disconnecting switches
- Disconnecting devices (fuse disconnecting switches, disconnecting switches, and disconnecting cutouts) created by the use of a removable fuse unit or switch blade in a fuse support
- Expulsion, current-limiting, and combination types of external capacitor fuses used with a capacitor unit, a group of units, or capacitor banks.
- Backup current-limiting fuses ("motor-starter fuses") used in conjunction with high-voltage motor starters

**Changes in scope:** This standard establishes specifications for high-voltage (above 1000 V) fuses; ~~distribution enclosed single-pole air switches, disconnecting cutouts, fuse disconnecting switches, and accessories for use on ac electrical distribution systems. Devices with rated maximum voltages to 170 kV are covered. The devices to which this standard applies are as follows: a) DistributionExpulsion and fuses power (including class fuse expulsion cutouts) type fuses b) Distribution and power class currentCurrent-limiting type fuses c) DistributionItems and power class fuse disconnecting switches d) Item a) through and item eb) used in fuse enclosure packages ed) Fuse supports of the type intended for use with distribution fuses and power fuse class disconnecting fuses, switches and e) Disconnecting devices (fuse disconnecting switches, f) disconnecting Fuses switches, and disconnecting cutouts g) Disconnecting devices created by the use of a removable fuse unit or switch blade in a distribution or power class fuse support hf) Distribution class enclosed single-pole air switches i) Distribution class and power class expulsionExpulsion,~~

h) Fuse links when used exclusively with expulsion fuses and fuse disconnecting switches  
i) Items a) through f) having integral load-break means  
j) Accessories including mounting brackets and switch stick (switch hooks)  
This standard may also be used for other devices that are similar to the devices listed in the scope.

current-limiting, and combination types of external capacitor fuses used with a capacitor unit, ~~groups a group~~ of units, or capacitor banks.  
jg) ~~Fuse Backup links current-limiting when fuses ("motor-starter fuses") used exclusively in conjunction with distribution high-voltage class motor and starters power h) class Fuse fuses, links and when distribution used class exclusively and with power expulsion class fuses and fuse disconnecting switches ki) Items a) through d) and f) through i) having integral load-break means j) Accessories including mounting brackets and switch stick (switch hooks) This standard may also be used for other devices that are similar to the devices listed in the scope.~~

**5.3 Is the completion of this standard dependent upon the completion of another standard:** No

**5.4 Purpose:** Standard specifications for the devices covered by this document are necessary to assure consistent development and application of these devices by manufacturers and users of these devices.

**5.5 Need for the Project:** This project will bring together the existing Fuse Specifications Standards IEEE Std C37.42, IEEE Std C37.43, IEEE Std C37.45, IEEE Std C37.46 and IEEE Std C37.47 into one combined standard. This is required to improve the alignment with the test requirement standard (C37.41) for the devices covered by these standards as users have found navigating through this multitude of standards very difficult. In addition, this will improve greatly the consistency with the associated IEC standards for these products (IEC 60282-1 and IEC 60282-2) which also are organized in this manner.

**5.6 Stakeholders for the Standard:** Power users and producers and associated manufacturers

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### Intellectual Property

**6.1.a. Is the Sponsor aware of any copyright permissions needed for this project?:** No

**6.1.b. Is the Sponsor aware of possible registration activity related to this project?:** No

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**7.1 Are there other standards or projects with a similar scope?:** No

### 7.2 Joint Development

**Is it the intent to develop this document jointly with another organization?:** No

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**8.1 Additional Explanatory Notes (Item Number and Explanation):** 2.1 and 5.2: The request for modification to the PAR is to update the document title and scope to match the document that has been prepared by the working group for ballot.