

# IEEE Standard for Preferred Power Supply (PPS) for Nuclear Power Generating Stations (NPGS)

IEEE Power and Energy Society

Sponsored by the  
Nuclear Power Engineering Committee

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IEEE  
3 Park Avenue  
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IEEE Std 765™-2012  
(Revision of  
IEEE 765-2006)

23 January 2013



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**Nuclear Power Engineering Committee  
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Approved 5 December 2012

**IEEE-SA Standards Board**

Approved 28 October 2014

**American National Standards Institute**

**Abstract:** The design criteria of the preferred power supply (PPS) and its interfaces with the Class 1E power system, switchyard, transmission system, and alternate ac (AAC) source are described. This standard provides PPS requirements for nuclear power plants and guidance in the areas of AAC power source interfaces with PPS, physical independence of the PPS power and control circuits, and expanded PPS criteria for multi-unit stations.

**Keywords:** AAC, alternate ac source, Class 1E, IEEE 765, NPGS, nuclear power generating station, PPS, preferred power supply, switchyard, transmission system

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The Institute of Electrical and Electronics Engineers, Inc.  
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PDF: ISBN 978-0-7381-8122-6 STD98082  
Print: ISBN 978-0-7381-8123-3 STDPD98082

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