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To ford@pjm.com

cc baughman@mail.utexas.edu, stds-pes-scc@ieee.org,  
t.mcdermott@ieee.org, Matthew Ceglia/STDS/STAFF/US/IEEE,  
bcc

Subject Approval of Project - P1729

01 October 2007

Andrew Ford  
PJM Capacity Adequacy Planning Staff  
PJM Interconnection  
Valley Forge Corporate Center  
955 Jefferson Ave.  
Norristown, PA 19403  
ford@pjm.com

Re: P1729 - Recommended Practice for Electric Power Distribution System Analysis

Dear Andrew:

I am pleased to inform you that on 27 September 2007 the IEEE-SA Standards Board approved the above referenced project until 31 December 2011. A copy of the file can be found on our website at <http://standards.ieee.org/board/nes/projects/1729.pdf>.

Now that your project has been approved, please forward a roster of participants involved in the development of this project. This request is in accordance with the IEEE-SA Operations Manual, Clause 5.1.2i under Duties of the Sponsor which states:

"Submit annually to the IEEE Standards Department an electronic roster of individuals participating on standards projects"

Rosters can be submitted in any format to the NesCom Administrator ([nescom-admin@ieee.org](mailto:nescom-admin@ieee.org)). Please forward this list to the NesCom Administrator via e-mail at [nescom-admin@ieee.org](mailto:nescom-admin@ieee.org) no later than 26 December 2007.

Or, for your convenience, you can manage your standards development roster in myProject. Instructions are as follows:

- Go to myProject - <https://development.standards.ieee.org/my-site>
- Login using your IEEE Web Account username and password.
- Once logged into myProject, go to "Manage Committees"
- Drill down to the project by clicking the (+) on the left to expand each level. The actual project will be highlighted in yellow
- Click "Manage Committees" for that project. A list of individuals enrolled in the Committee/Project will appear. On this screen you can assign whether a person is a Participant, a

Non-Voting Member or a Voting Member of the project group. You may also view contact information for that individual.

Please visit our website, IEEE Standards Development Online (<http://standards.ieee.org/resources/development/index.html>), for tools, forms and training to assist you in the standards development process. Also, we strongly recommend that a copy of your draft be sent to this office for review prior to the final vote by the working group to allow for a quick review by editorial staff before sponsor balloting begins.

If you should have any questions, please contact the NesCom Administrator via e-mail at [nescom-admin@ieee.org](mailto:nescom-admin@ieee.org) or via telephone at +1 732 562 3806.

Sincerely,

NesCom Admin  
Standards Activities  
Email: [nescom-admin@ieee.org](mailto:nescom-admin@ieee.org)

<b>PAR Request Date:</b> 13 August 2007	
<b>PAR Approval Date:</b> 27 September 2007	
<b>PAR Signature Page on File:</b> Yes	
<b>Type of PAR:</b> New IEEE Standard	
<b>Status:</b> PAR for a New IEEE Standard	
<b>Root Project:</b>	
<b>1.1 Project No.:</b> 1729	
<b>1.2 Type of Document:</b> Recommended Practice	
<b>1.3 Life Cycle:</b> Full-Use	
<b>1.4 Is this document in ballot now?</b> No	
<b>2.1 Title</b> Recommended Practice for Electric Power Distribution System Analysis	
<b>3.1 Working Group Name</b>	<a href="#">Recommended Practices for Distribution System Analysis</a>
<b>Working Group Chair</b>	<a href="#">McDermott, Thomas E</a> Phone: 412-650-9719 Email: t.mcdermott@ieee.org
<b>Working Group Vice Chair</b>	
<b>3.2 Sponsor</b>	<a href="#">IEEE Power Engineering Society Power System Analysis, Computing, and Economics Committee (PE/PSACE)</a>
<b>Sponsor Chair</b>	<a href="#">Baughman, Martin</a> Phone: 512-345-8255 Email: baughman@mail.utexas.edu
<b>Name of Standards Liaison Representative (if applicable)</b>	<a href="#">Ford, Andrew</a> Phone: 610-666-8964 Email: ford@pjm.com
<b>3.3 Joint Sponsor</b>	
<b>4.1 Type of Ballot:</b> Individual	
<b>4.2 Expected Date of Submission for Initial Sponsor Ballot:</b> September 2009	
<b>4.3 Projected Completion Date for Submittal to RevCom:</b> September 2010	
<b>5.1 Approximate number of people expected to work on this project:</b> 15	
<b>5.2 Scope:</b> The scope of the standard includes steady-state, event-based, probabilistic, stochastic, and dynamic analysis of medium-voltage (up to 35 kV) electric utility power distribution systems. Industrial and commercial power distribution systems, harmonic analysis, and electromagnetic transient analysis are all excluded.	
<b>5.3 Is the completion of this document contingent upon the completion of another document?</b> No	
<b>5.4 Purpose:</b> Many commercial software products and academic research projects continue to use analysis methods appropriate for transmission systems, but not for distribution systems. Many research papers submitted for publication still address questions that have been well-settled by previous work. The purpose of this Recommended Practice is to focus research attention on areas where legitimate needs exist, and to identify methods that should not be used in software products.	

**5.5 Need for the Project:** Engineering software for distribution systems is evolving slowly. The need for new software functionality evolves more quickly, in areas such as DG modeling, reliability improvement, neutral-earth voltage, and others. With a better focus of research and development efforts, development of these essential features can be accelerated. As a result, electric power distribution utilities will be better able to design and operate their systems.

**5.6 Stakeholders for the Standard:** The stakeholders include electric power distribution utilities, commercial vendors of engineering analysis software for distribution systems, and academic researchers working in this area.

**6.1.a. Has the IEEE-SA policy on intellectual property been presented to those responsible for preparing/submitting this PAR prior to the PAR submittal to the IEEE-SA Standards Board? Yes Presented Date:** 2007-08-13

If no, please explain:

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

If yes, please explain:

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

If yes, please explain:

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

If yes, please explain:

**Sponsor Organization:**

**Project/Standard Number:**

**Project/Standard Date:** 0000-00-00

**Project/Standard Title:**

**7.2 Is there potential for this standard (in part or in whole) to be adopted by another national, regional, or international organization? ? Do not know at this time**

**Technical Committee Name and Number:**

**Contact person:**

**Contact person Phone Number:**

**Contact person Email Address:**

**7.3 Will this project result in any health, safety, security, or environmental guidance that affects or applies to human health or safety? No**

**7.4 Additional Explanatory Notes:**

The Recommended Practice will include: • Standard terms and definitions • Required model attributes, such as phase domain vs. symmetrical components, line and cable impedances, transformer winding connection types, tap changer and capacitor switching controls, load characteristics, etc. • Feeder-level modeling of distributed generation (DG) • Benchmark solutions based on the IEEE Radial Test Feeders, as developed and maintained by the Distribution System Analysis Subcommittee (DSASC) • Preferred and alternative algorithm or model selections, in areas where best practice can be clearly identified. • Relevant differences between distribution system design styles, e.g.: o 4-wire multigrounded neutral o 3-wire ungrounded o 3-wire high impedance grounded o 3-wire delta • Use of the Common Information Model (CIM) and MultiSpeak • Annotated bibliography

**8.1 Sponsor Information:**

Is the Scope of this project within the approved scope/definition of the Sponsor's Charter? Yes

If no, please explain: