

15 September 2006

Gerald L Vaughn  
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Re: P1095 - Guide for the Installation of Vertical Generators and Generator/Motors for Hydroelectric Applications

Dear Gerald:

I am pleased to inform you that on 15 September 2006 the IEEE-SA Standards Board approved the above referenced project until 31 December 2010. A copy of the file can be found on our website at <http://standards.ieee.org/board/nes/projects/1095.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"

For your convenience, an Excel spreadsheet for your use has been posted on our website at <http://standards.ieee.org/guides/par/roster.xls>. Please forward this list to me via e-mail at [s.hampton@ieee.org](mailto:s.hampton@ieee.org) no later than 14 December 2006.

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 further questions, please contact me at +1 732 562 6003 or by email at [s.hampton@ieee.org](mailto:s.hampton@ieee.org).

Sincerely,

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<b>PAR Request Date:</b> 21 June 2006	
<b>PAR Approval Date:</b> 15 September 2006	
<b>PAR Signature Page on File:</b> No	
<b>Type of PAR:</b> Revision to IEEE Standard	
<b>Status:</b> Revision to an Existing IEEE Std 1095-1989	
<b>Root Project:</b>	
<b>1.1 Project No.:</b> <b>P1095</b>	
<b>1.2 Type of Document:</b> Guide	
<b>1.3 Life Cycle:</b> Full-Use	
<b>1.4 Is this document in ballot now?</b> No	
<b>2.1 Title</b> Guide for the Installation of Vertical Generators and Generator/Motors for Hydroelectric Applications	<b>Old Title</b> IEEE Guide for Installation of Vertical Generators and Generator/Motors for Hydroelectric Applications
<b>2.1 Amendment/Corrigenda Title</b>	
<b>3.1 Working Group Name</b>	<a href="#">Hydro Generator Installation Working Group</a>
<b>Working Group Chair</b>	<a href="#">Kunz, Lucas</a> Phone: +1 717 792 7683 Email: lucas.kunz@vs-hydro.com
<b>Working Group Vice Chair</b>	
<b>3.2 Sponsor</b>	<a href="#">IEEE Power Engineering Society Energy Development &amp; Power Generation (PE/ED&amp;PG)</a>
<b>Sponsor Chair</b>	<a href="#">Agee, Jay C.</a> Phone: 303-445-2309 Email: jagee@ieee.org
<b>Name of Standards Liaison Representative (if applicable)</b>	<a href="#">Vaughn, Gerald L.</a> Phone: 816-524-6681 Email: glvaughn@ieee.org
<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> August 2009	
<b>4.3 Projected Completion Date for Submittal to RevCom:</b> August 2010	
<b>5.1 Approximate number of people expected to work on this project:</b> 15	
<b>5.2 Scope:</b> The procedures for installation, described in this guide, apply to all types of synchronous generators and generator/motors rated 5 MVA and above to be coupled to hydraulic turbines or hydraulic pump/turbines having vertical shaft.	<b>Old Scope:</b> The procedures for installation, described in this Guide, apply to all types of synchronous generators and generator/motors rated 5000 kVA and above to be coupled to hydraulic turbines or hydraulic pump/turbines having vertical shafts. All references made in this Guide to "generators" apply equally to "generator/motors".
<b>5.3 Is the completion of this document contingent upon the completion of another document?</b> No	

**5.4 Purpose:** Large hydraulic turbine-driven generators are shipped as components and completely assembled and installed at the site. The installation, therefore, becomes a continuation of the manufacturing process, and many of the operations involved are those that are normally performed in the factory on smaller generators. Close tolerances must be maintained in the fit and alignment of the various parts. The use of proper installation procedures is essential to achieve satisfactory operation of the unit.

**Old Purpose:**

**5.5 Need for the Project:** The reason for this revision is to address significant technology changes impacting the installation of vertical generators and generator/motors for hydroelectric applications that have occurred since this guide was originally prepared. Guidelines contained in this document will be harmonized with current international practices. This guide will provide a standard method and language for use in the erection of vertical generators and generator/motors.

**5.6 Stakeholders for the Standard:** The stakeholders for this project are owners, erectors and suppliers of vertical generators and generator/motors for hydroelectric applications.

**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: 2006-06-21

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? Yes**

**If yes, please explain:**

The scope of the IEEE guide is broader and concentrates on the installation of the generator component.

**Sponsor Organization:** CEATI

**Project/Standard Number:** G1977

**Project/Standard Date:** 1998-01-01

**Project/Standard Title:** Guide for Erection Tolerances and Shaft System Alignment

**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:**

**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: