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28 February 2007

Anne-Marie Sahazizian
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Re: P1711 - Trial Use Standard for a Cryptographic Protocol for Cyber Security of Substation Serial Links

Dear Anne-Marie:

I am pleased to inform you that on 27 February 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/1711.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 no later than 28 May 2007.

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.

Sincerely,

Sherry Hampton
Administrator, Governance
Standards Activities
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PAR Request Date: 18 October 2006	
PAR Approval Date: 27 February 2007	
PAR Signature Page on File: Yes	
Type of PAR: New IEEE Standard	
Status: PAR for a New IEEE Standard	
Root Project:	
1.1 Project No.: 1711	
1.2 Type of Document: Standard	
1.3 Life Cycle: Trial-Use	
1.4 Is this document in ballot now? No	
2.1 Title Trial Use Standard for a Cryptographic Protocol for Cyber Security of Substation Serial Links	
3.1 Working Group Name	Trial Use Standard for a Cryptographic Protocol for Cyber Security of Substation Serial Links
Working Group Chair	Whitehead, David E Phone: 509-332-1890 Email: david_whitehead@selgs.com
Working Group Vice Chair	
3.2 Sponsor	IEEE Power Engineering Society Substations (PE/SUB)
Sponsor Chair	Nowell, Robert S Phone: 404 506 2735 Email: rsnowell@southernco.com
Name of Standards Liaison Representative (if applicable)	Sahazizian, Anne-Marie Phone: 416-345-6657 Email: AM.Sahazizian@HydroOne.com
3.3 Joint Sponsor	
4.1 Type of Ballot: Individual	
4.2 Expected Date of Submission for Initial Sponsor Ballot: December 2007	
4.3 Projected Completion Date for Submittal to RevCom: May 2008	
5.1 Approximate number of people expected to work on this project: 12	
5.2 Scope: This trial use standard defines the cryptographic protocol for cyber security of serial supervisory control and data acquisition (SCADA) links and engineering access points that implement the requirements of IEEE P1689.	
5.3 Is the completion of this document contingent upon the completion of another document? No	
5.4 Purpose: The purpose of this trial use standard is to provide part of a procurement specification that can be used by utilities to ensure that cyber security devices built by different solution providers are interoperable. Solution providers will use cryptographic protocols to build interoperable open system cyber security devices that protect existing asynchronous serial communications against cyber attack.	

5.5 Need for the Project: Presently, serial SCADA and engineering asccess ports are not secure. The American Gas Association has prepared a draft report AGA 12-2, which defines a robust cryptographic protocol that implements the requirements of IEEE P1689. Older versions of this protocol have been implemented in commercial cyber security devices, and these devices have undergone limited field testing with gas, electric and water utilities. The cryptographic protocol has also been analytically reviewed by Sandia National Laboratories (SNL), and SNL has suggested improvements in the protocol. This project will adapt the draft AGA 12-2 report and suggested improvements from SNL and lessons learned from utility field tests to satisfy the needs of the electric utility industry. The AGA 12-2 report is not copyrighted, and there is no objection from AGA/GTI to an IEEE adaptation. The standard is proposed to be a trial use, to be updated in two years or less, to provide the opportunity to gain more field experience with the cryptographic protocol.

5.6 Stakeholders for the Standard: The stakeholders are the engineers at electric utilities and consultants/system integrators who are seeking interoperable solutions for the existing unsecured serial links, and manufacturers who may design interoperable products addressing these cyber security gaps. Electric, gas, and water providers as well as SCADA and security equipment vendors and SCADA equipment users.

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? No **Presented Date:** 2007-01-08

If no, please explain: We will do that at our first official meeting as a working group in January 2007

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:

SCADA denotes Supervisory Control and Data Acquisition IEEE PAR P1689 Title: "Trial Use Standard for Cyber Security of Serial SCADA Links and IED Remote Access "

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: