



**CIGRE Study Committee A1**

**PROPOSAL FOR THE CREATION OF A NEW WORKING GROUP (1)**

<b>WG* N° A1.33</b>	<b>Name of Convenor : Kevin Mayor (Switzerland)</b> <b>E-mail address:</b> kevin.mayor@power.alstom.com	
<b>Technical Issues # (2):</b> xxxxxxxx	<b>Strategic Directions # (3):</b> 2	
Title of the Group: <b>Guide for the Proper Storage and Cleanliness of Turbogenerators and their Components</b>		
<p><b>Scope, deliverables and proposed time schedule of the Group :</b></p> <p><b>Background :</b></p> <p>In the current economic climate there has been a greater tendency to put turbogenerators into storage for either short or long periods of time before assembly on site, or to 'mothball' it after assembly before commissioning. This raises the question of what is considered good industry practice for the storage conditions, environmental control, type and frequency of testing/monitoring and cleanliness procedures put in place during the various storage and assembly periods to ensure a successful preservation of the equipment. Various texts can be found on the subject but there is no recognised international standard or guideline available.</p> <p><b>Scope :</b></p> <p>In the current economic climate there has been a greater tendency to put turbogenerators into storage for either short or long periods of time before assembly on site, or to 'mothball' it after assembly before commissioning. This raises the question of what is considered good industry practice for the storage conditions, environmental control, type and frequency of testing/monitoring and cleanliness procedures put in place during the various storage and assembly periods to ensure a successful preservation of the equipment. Various texts can be found on the subject but there is no recognised international standard or guideline available.</p> <p><b>Deliverables :</b> Report to be published in Electra or Technical Brochure with summary in Electra</p> <p><b>Time Schedule :</b></p> <ul style="list-style-type: none"> <li>• TOR submitted for approval on July 21, 2011.</li> <li>• Draft questionnaire by 31 August 2011 for comments</li> <li>• Discussion at China Meeting Sept. 2011 – review/approval of questionnaire.</li> <li>• Issue Questionnaire for responses: 31 October 2011</li> <li>• Responses due: 29 February 2012</li> <li>• Draft report on questionnaire &amp; recommendations – 31 May 2012</li> <li>• CIGRE session in Paris August 2012: Decision on Report or Guide</li> <li>• Draft report / guide – 31 December 2012</li> <li>• Comments by members and experts - 31 March 2013</li> <li>• Approval of final document – SC-A1 meeting 2013</li> </ul>		

<ul style="list-style-type: none"> <li>Final document– 30 November 2013</li> </ul>
<b>Comments from Chairmen of SCs concerned</b> : None
<b>Approval by Technical Committee Chairman</b> :Klaus Fröhlich <b>Date</b> :14/10/2011

(1) Joint Working Group (JWG) - (2) See attached table 1 – (3) See attached table 2

**Table 1: Technical Issues of the TC project “Network of the Future” (cf. Electra 256 June 2011)**

<b>1</b>	Active Distribution Networks resulting in bidirectional flows within distribution level and to the upstream network.
<b>2</b>	The application of advanced metering and resulting massive need for exchange of information.
<b>3</b>	The growth in the application of HVDC and power electronics at all voltage levels and its impact on power quality, system control, and system security, and standardisation.
<b>4</b>	The need for the development and massive installation of energy storage systems, and the impact this can have on the power system development and operation.
<b>5</b>	New concepts for system operation and control to take account of active customer interactions and different generation types.
<b>6</b>	New concepts for protection to respond to the developing grid and different characteristics of generation.
<b>7</b>	New concepts in planning to take into account increasing environmental constraints, and new technology solutions for active and reactive power flow control.
<b>8</b>	New tools for system technical performance assessment, because of new Customer, Generator and Network characteristics.
<b>9</b>	Increase of right of way capacity and use of overhead, underground and subsea infrastructure, and its consequence on the technical performance and reliability of the network.
<b>10</b>	An increasing need for keeping Stakeholders aware of the technical and commercial consequences and keeping them engaged during the development of the network of the future.

**Table 2: Strategic directions of the TC (cf. Electra 249 April 2010)**

<b>1</b>	The electrical power system of the future
<b>2</b>	Making the best use of the existing system
<b>3</b>	Focus on the environment and sustainability
<b>4</b>	Interactive communication with the public and with political decision maker