

P1898

Submitter Email: luobing@csg.cn
Type of Project: New IEEE Standard
PAR Request Date: 30-Aug-2013
PAR Approval Date: 21-Oct-2013
PAR Expiration Date: 31-Dec-2017
Status: PAR for a New IEEE Standard

1.1 Project Number: P1898
1.2 Type of Document: Standard
1.3 Life Cycle: Full Use

2.1 Title: Standard for High Voltage Direct Current (HVDC) Composite Post Insulators

3.1 Working Group: Working group for establishing standard specifications of HVDC composite post insulators (BOG/CAG/wg-hvdc-cpi)

Contact Information for Working Group Chair

Name: Bing Luo
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Contact Information for Working Group Vice-Chair

None

3.2 Sponsoring Society and Committee: IEEE-SA Board of Governors/Corporate Advisory Group (BOG/CAG)

Contact Information for Sponsor Chair

Name: Dennis Brophy
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Contact Information for Standards Representative

None

4.1 Type of Ballot: Entity

4.2 Expected Date of submission of draft to the IEEE-SA for Initial Sponsor Ballot: 05/2015

4.3 Projected Completion Date for Submittal to RevCom: 10/2016

5.1 Approximate number of entities expected to be actively involved in the development of this project: 3

5.2 Scope: The standard describes the terms and definition, use condition, technical requirement, test methods of composite post insulators for HVDC power transmission systems up to and including 800kV, which have epoxy glass fiber solid core or porcelain core.

5.3 Is the completion of this standard dependent upon the completion of another standard: No

5.4 Purpose: This document will not include a purpose clause.

5.5 Need for the Project: The voltage level is raising with the development of DC transmission system. Now the DC transmission voltage has already reached 800kV which has brought higher requirement to select the external insulation for the high voltage equipment .

Up to now, there is no international standard which can be directly used for design and manufacture of the composite post insulators for HVDC power transmission systems up to and including 800kV, which are made of epoxy glass fiber solid core or porcelain core.

The application of IEEE standard Specification of HVDC composite post insulator plan to standardize the specification of HVDC composite post insulators. It provides technique references to design, produce, test and maintain the HVDC composite post insulators.

5.6 Stakeholders for the Standard: The Stakeholders for this standard are electrical primary system designers, power equipment engineers, insulator manufacturers, college researchers.

Intellectual Property

6.1.a. Is the Sponsor aware of any copyright permissions needed for this project?: Yes

If yes please explain: permission to utilize the Chinese National Standard as a starting point will be required.

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

7.1 Are there other standards or projects with a similar scope?: Yes

If Yes please explain: 800kV DC composite insulators technical specification

and answer the following

Sponsor Organization: Standardization administration of the PRC.

Project/Standard Number: to be published

Project/Standard Date: 31-Aug-2013

Project/Standard Title: 800kV DC composite insulators technical specification

7.2 Joint Development

Is it the intent to develop this document jointly with another organization?: No

8.1 Additional Explanatory Notes (Item Number and Explanation): A Chinese national standard "800kV DC composite insulators technical specification" shall be leveraged as a starting point for the working group towards the development of this draft standard. The standard of "800kV DC composite insulators technical specification" was drafted along with the 800kV Yun Nan to Guang Dong UHVDC transmission project. The standard was made according to the system design and insulator selection requirement and proved by the running of the UHVDC transmission system. This chinese standard draft for approval is already embodied by standardization administration of the People's Republic of China and will be published very soon.