P2777

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Type of Project: New IEEE Standard
PAR Request Date: 19-Jul-2017
PAR Approval Date: 28-Sep-2017
PAR Expiration Date: 31-Dec-2021
Status: PAR for a New IEEE Standard

1.1 Project Number: P2777
1.2 Type of Document: Standard
1.3 Life Cycle: Full Use

2.1 Title: Standard for Operation of Coal-Fired 300–600 MW Grade Boilers

3.1 Working Group: Electricity-generating Boilers WG (BOG/CAG/Boilers)
Contact Information for Working Group Chair
   Name: Chengwei Dai
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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: Philip Wennblom
   Email Address: wennblom@ieee.org
   Phone: 408-765-4437

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: 01/2019
4.3 Projected Completion Date for Submittal to RevCom
   Note: Usual minimum time between initial sponsor ballot and submission to Revcom is 6 months.: 10/2019

5.1 Approximate number of entities expected to be actively involved in the development of this project: 3
5.2 Scope: This standard establishes specifications for requirements and guidelines for coal-fired boilers and main auxiliary equipments, including start-up, operation, maintenance, shutdown, failure analysis and troubleshooting.

This standard is applicable to 300–600MW grade coal-fired natural/controlled circulation boilers, one-through boilers, and oil/gas-fired boilers. Boilers with a capacity of 700–1000MW may also be covered by this standard.

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: It is commonly accepted that the combustion of fossil fuels (coal, natural gas and oil) still remains as the major energy source to fulfil the increasing electricity consumption although other types of energy sources (e.g. nuclear and renewable energies) are available and have been widely used for generating electricity. Recently, the implementation of strict emission standards for thermal power plants has promoted the development and use of large-capacity utility boilers, with a capacity of more than 300MW. These boilers possess positive characteristics in terms of high thermal efficiency, convenient centralized control and cost-effective operation. However, the large-capacity boilers are comprised of complicated and bulky thermal power equipment with high temperature and high pressure. Missing and damaging any components of them can lead to serious consequences. As a result, it is necessary to establish standards for operation of coal-fired 300–600MW grade boilers to avoid the above problems and ensure stable and safe and economic operation of the economy.

5.6 Stakeholders for the Standard: This standard shall promote the improvement of the standardization of business processes for boiler operators and ensure that power plant boiler systems achieve satisfaction performance with acceptable costs. The main stakeholders expected to benefit from the proposed standard are power plant operators, boiler manufacturers, engineering contractors, research institutions, and/or the public.
Intellectual Property
6.1.a. Is the Sponsor aware of any copyright permissions needed for this project?: No
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: China
GB 10184 Performance test code for utility boiler;
GB 12145 Quality criterion of water and steam for generating unit and steam power equipment;
GB 26164.1 Safety Code of electric power industry- Part 1&65306;Thermal and machine

USA
ASME PTC4---2008 Fired Steam Generators Performance Test Codes;
ASME PTC4.3----1968 Air Heaters supplement to performance test code for steam generating units

and answer the following
Sponsor Organization: China SAC
Project/Standard Number: GB 10184
Project/Standard Date: 01-Jan-2015
Project/Standard Title: Performance test code for utility boiler

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

8.1 Additional Explanatory Notes: