Guideline

Preservation of Power Plants

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Second Edition 2009
To replace the 1st edition 1981

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Preface to first edition

The VGB Guideline “Preservation of Power Plants” is a summary of existing and revised literature on preservation methods according to the state-of-the-art.

The guideline consists of two parts. Part I deals with the water/steam-side preservation of power plants and power plant components, whereas Part II concentrates on the flue-gas side preservation of steam generators.

Operational experience and technical connections have been taken into consideration in the preparation of the guideline. No warranty can be given for completeness in every possible range of application. Liability for the correctness of the guideline is therefore excluded.

Users of this guideline are therefore asked to inform the VGB on experience gained with and proposals for improving this guideline so that the VGB, upon evaluation of the information provided, may supplement or change this guideline appropriately.

Members of the VGB Committee “Chemistry in Power Plants” and the VGB Committee “Steam Boilers and Steam Boiler Operation” were entrusted with the task of establishing this guideline.

Essen, January 1981

VGB TECHNISCHE VEREINIGUNG
DER GROSSKRAFTWERKSBETREIBER E.V.

The following gentlemen participated in the preparation of this guideline:

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In this respect, we would like to express our gratitude to all committee members for their efforts and helpful contributions.
Preface to second edition

Upon the initiative of power plant manufacturers and users the first edition was revised to adapt to the state-of-the-art. The update is intended on the one hand to adapt the guideline to new preservation methods and materials, and on the other hand to give recommendations for preservation methods for the period of time starting after manufacture until initial start-up. In addition, further relevant power plant components were included in the guideline.

This guideline was established to the best of our knowledge and belief, but does not pretend to completely cover all aspects or preservation. It is considered a practical guide and is not intended to replace the technical knowledge of its users.

No liability will be taken for the correctness of its contents, since especially plant-specific peculiarities have to be taken into account in each individual case.

Practical information was included in the detailed description of methods, planning and execution of preservation. Special emphasis was placed on the control and proof of the preservation measures and results.

The preservation methods shown shall not be understood to apply alternatively or additionally to any other method. The complete or extractive use of the preservation methods is left to the parties involved and shall be agreed between purchaser and supplier in each individual case.

All preservation measures should be covered by, controlled and documented in a quality management system.

Users of this guideline are therefore asked to inform the VGB on experience gained with and proposals for improving this guideline so that the VGB, upon evaluation of the information provided, may supplement or change this guideline appropriately.

We would also like to mention that the companies and associations having participated in the establishment of this guideline, especially the authors, are prepared to proffer advice regarding the planning and performance of the various process steps, but also in the case of divergent opinions and contract-related matters.
The following companies and associations participated in the establishment of this guideline:

Representatives of power plant users:

Eisert RWE Power AG, Essen  
Heß VGB-Geschäftsstelle, Essen  
Kröger VGB-Geschäftsstelle, Essen  
Küster VGB-Geschäftsstelle, Essen  
Paul Mark E Aktiengesellschaft, Hagen  
Symaneck E.ON Engineering GmbH, Gelsenkirchen  
Weiher VGB-Geschäftsstelle, Essen

Representatives of manufacturers, specialised firms and insurance companies:

Güneş Hitachi Power Europe GmbH, Duisburg  
Herberg Therm Service für Kraftwerke und Industrie GmbH, Seevetal  
Mikovics GEA Energietechnik GmbH  
Rodriguez Alstom Power Generation AG  
Rziha Siemens AG Power Generation, Erlangen  
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Strohhäcker Allianz Zentrum Technik  
Teutenberg Hitachi Power Europe GmbH, Duisburg

With this guideline the authors hope to have made a major contribution to the preservation of power plants.

Our thanks are due to all participants for their careful and thorough work which has gone into the making of this guideline during numerous committee meetings.

Essen, September 2009

VGB TECHNISCHE VEREINIGUNG  
DER GROSSKRAFTWERKSBETREIBER E.V.
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