

GUIDE ON STATOR WATER CHEMISTRY MANAGEMENT

François Duffeau (France)
Denis Aspden (South Africa)
Gert Coetzee (South Africa)
Robert Svoboda (Switzerland)
Wolf-Dietrich Blecken (Germany)
Uwe Eickelbeck (Germany)
Robert E Fenton (USA)
David Wallis (United Kingdom)
Jan Stein (USA)

1 INTRODUCTION

In early generator technology, the heat losses were removed by gas cooling, either with air or with hydrogen. Water cooling was introduced in 1956 by AEI (UK) with a view to accommodate larger generator power outputs.

For stator water cooling, the stator bars are equipped with hollow strands/conductors or with cooling tubes embedded between the individual solid copper strands/conductors. Traditionally these cooling tubes were commonly made of copper. Other materials, such as stainless steel can also be used. In some cases field windings are also water-cooled, but due to the larger-sized cooling ducts the problems associated with copper corrosion (i.e., Water Chemistry management) are of lesser importance.

There are cooling systems for the water and gas coolants consisting of heat exchangers, circulating pumps for water, fans for gas, filters, and any connecting features. Cooling water for stator cooling is purified by ion exchange, and its dissolved oxygen concentration is designed for either to very low levels (usually less than 20 ppb, but sometimes up to 50 ppb) or to high levels (greater than 2 ppm), depending on the manufacturer.

Table 1 summarizes the number of water cooled generators and their respective water chemistries. In Russia and China there is an additional comparable amount of water cooled generators; they are mostly based on low-oxygen water chemistry.

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**United States. Environmental
Protection Agency**



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Guide on Stator Water Chemistry Management Conseil international des grands réseaux électriques. Comité d'études A1,2011 *Practical Guide to Thermal Power Station Chemistry* Soumitra Banerjee,2020-11-25 This book deals with the entire gamut of work which chemistry department of a power plant does The book covers water chemistry steam water cycle chemistry cooling water cycle chemistry condensate polishing stator water conditioning coal analysis water analysis procedures in great details It is for all kinds of intake water and all types of boilers like Drum Once through for subcritical and supercritical technologies in different operating conditions including layup It has also covered nuances of different cycle chemistry treatments like All Volatile Oxygenated One of the major reasons of generation loss in a thermal plant is because of boiler tube leakage There is illustration and elucidation on this which will definitely make people more aware of the importance of adherence to strict quality parameters required for the adopted technology prescribed by well researched organization like EPRI The other important coverage in this book is determination of quality of primary and secondary fuel which is very important to understand combustion in Boiler apart from its commercial implication The health analysis of Lubricants and hydraulic oil have also been adequately covered I am very much impressed with the detailing of each and every issue Though Soumitra refers the book as Practical Guide the reader will find complete theoretical background of suggested action and the rational of monitoring each parameter He has detailed out the process parameters sampling points sample frequency collection methods measurement techniques laboratory set up and record keeping very meticulously and there is adequate emphasis on trouble shooting too There is a nice blending of theory and practice in such a way that the reader at the end will not only learn what to do and how to do he will also know why to do I hope this book will be invaluable and a primer to every power plant chemist and the station management shall find it a bankable document to ensure best chemistry practices *Large Turbo-Generators* Isidor Kerszenbaum,Geoff Klempner,2016-09-15 This book presents a comprehensive ordered relationship between malfunctions and symptoms occurring in large turbogenerators With this book the operator and or engineer in a generating station could identify underlying causes of a developing component degradation or a failure quicker which could potentially save both time and money and reduce the trial and error troubleshooting process Large turbogenerators are the most important source of electricity They can be found in thousands of power stations in every country Forced outages failures and degradation of these very expensive machines have an enormous aggregate cost to society As such any tool that can ameliorate loss of production by shaving time from troubleshooting activities and avoiding unnecessary costs by detecting and promptly responding to component degradation represents a step forward **Dictionary of chemistry** Gerhard Wenske,1994 *EPA Publications Bibliography Quarterly Abstract Bulletin* United States. Environmental Protection Agency,1996-04 **EPA Publications Bibliography** ,1996 *Monthly Catalog of United States Government Publications* ,1999-07 **Power** ,2007 Report summaries United

States. Environmental Protection Agency, 1983 **Monthly Catalogue, United States Public Documents** ,1995
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