



**RECOMMENDED PROCEDURE FOR ALKALI BOIL OUT
OF 2 X 165
TPH AFBC BOILERS AT JSL, RAIGARH**

A) INTRODUCTION:

The alkali boil out of a boiler is carried out in order to clean the internal surfaces of the water-touched parts from oil, grease, rust, silica and other adhered impurities.

B) SCOPE:

The scope of cleaning during this operation includes a portion of feed line, entire evaporative system of boiler and economizer.

C) TECHNIQUE:

For carrying out the alkali boil out, 1000 ppm of Trisodium Phosphate and 500 ppm of Disodium Phosphate are used as cleaning agents. The alkali boil out is carried out in one stage at drum pressure of 40 Kg/cm².

D) PREPARATIONS:

1. Pre-boiler system should be flushed with alkali solution and 2 nos. BPP should be made ready for regular operation from control room.
2. All the drum internals including the secondary steam separators are erected in position as per drawings.
3. Boiler should be made ready in all respects for regular operation upto drum pressure of 40 Kg/cm². For carrying out alkali boil out, external combustor will be utilized for raising bed material temperature of 1st compartment. Further parameters will be raised by coal firing in 1st compartment.
4. HP/LP Dosing system should be made ready for dosing of chemicals during boil out activity.
5. Boiler drum level g/g should be commissioned with lighting arrangement.
6. Feed water and CBD sampling lines should be ready for taking samples.
7. Required chemicals should be checked for quality and quantity. Arrangements for mixing of chemicals with DM water at drum level should be made. Lab facilities should be ensured for testing of samples.

Bhel Boiler Manual

Swapan Basu

Bhel Boiler Manual:

Energy Audit Y. P. Abbi, 2012-01-01 The availability of fossil fuels required for power plants is reducing and their costs increasing rapidly. This gives rise to an increase in the cost of generation of electricity. But electricity regulators have to control the price of electricity so that consumers are not stressed with high costs. In addition, environmental considerations are forcing power plants to reduce CO₂ emissions. Under these circumstances, power plants are constantly under pressure to improve the efficiency of operating plants and to reduce fuel consumption. In order to progress in this direction, it is important that power plants regularly audit their energy use in terms of the operating plant heat rate and auxiliary power consumption. Energy Audit of Thermal Power Combined Cycle and Cogeneration Plants attempts to refresh the fundamentals of the science and engineering of thermal power plants and establishes its link with the real power plant performance data through case studies and further developing techno economics of the energy efficiency improvement measures. This book will rekindle interest in energy audits and analysis of the data for designing and implementation of energy conservation measures on a continuous basis.

Moody's International Manual, 1996 *Stop BHEL's Dangerous Truck with Siemens* P.

Ramamurti, 1978 **Industrial Economist**, 1977 **Managing Safety: Challenges Ahead (in 2 Volumes)** Pradeep Chaturvedi (ed.), 2005 *Plant Intelligent Automation and Digital Transformation* Swapan Basu, 2022-10-28 Plant Intelligent Automation and Digital Transformation Process and Factory Automation is an expansive four volume collection reviewing every major aspect of the intelligent automation and digital transformation of power process and manufacturing plants from the specific control and automation systems pertinent to various power process plants through manufacturing and factory automation systems. This volume introduces the foundations of automation control theory, networking practices and communication for power process and manufacturing plants considered as integrated digital systems. In addition, it discusses Distributed control System DCS for Closed loop controls system CLCS and PLC based systems for Open loop control systems OLCS and factory automation. This book provides in-depth guidance on functional and design details pertinent to each of the control types referenced above along with the installation and commissioning of control systems. Introduces the foundations of control systems networking and industrial data communications for power process and manufacturing plant automation. Reviews core functions, design details and optimized configurations of plant digital control systems. Addresses advanced process control for digital control systems inclusive of software implementations. Provides guidance for installation, commissioning of control systems in working plants.

Power Plant Engineering Dilip Vairagkar, 2019-05-07 Power Plant Engineering is meant for Mechanical Engineering students. All the modes of power generation i.e. from coal, gas along with jet propulsion, oil, nuclear, hydropower, wind, solar, biomass, tidal power, geothermal, OTEC, ocean thermal energy conversion, etc. have been studied in detail. International and Indian trends in transmission and distribution economics of power generation, protection of electrical controls add to the quality of the book. Effect of power plants on the environment has been dealt with.

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Frontline ,1996-07 **Lok Udyog** ,1983 *Report India. Department of Public Enterprises,1988* Environmental Control in Thermal Power Plants T.M. Aggarwal,2021-04-08 From wood and coal to predominantly oil and natural gas Thermal Power Plants use fuels for power generation Water is used for process cooling as well as for service drinking requirement Chemicals are used for conditioning of water corrosion control and sometimes for conditioning of fuel as well Lubricants are used for machinery These inputs generate waste products Human related wastes sewage etc are also generated along with the processed waste These pollutants wastes need to be treated before their disposal from the plants The treated effluents are required to meet the limits set by Central State Pollution Control Boards The regulations issued by these agencies specify the maximum allowable limits applicable to the pollutants discharge from the Power Plants This book is a serious effort that deals in detail with all the above issues and we are sure that scientists academicians researchers and professionals who are constantly facing these issues and are striving to move towards a zero emission regime will find this monograph a very useful reference tool on the topic Note T F does not sell or distribute the Hardback in India Pakistan Nepal Bhutan Bangladesh and Sri Lanka **Proceedings** R. Barry Dooley,1992 Publication ,1975 *Industrial Metallurgy* K. I. Vasu,1974 *Indian Trade Journal* ,2011-12-10 **Indian Journal of Power and River Valley Development** ,1983 The Proceedings of the ... International Conference on Fluidized-Bed Combustion ,1995 *Compendium of Thermal Power Stations in India* ,1997 **Parliamentary Debates** India. Parliament. Rajya Sabha,1995 **Proceedings of the 25th Intersociety Energy Conversion Engineering Conference: Renewable resource systems, stirling engines, and systems and cycles** Intersociety Energy Conversion Engineering Conference,1990

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