

Tutorial Course on
Boiler Tube Failures - Causes and Remedial Measures

26th - 27th September 2017

**Conference Hall, CBIP
Malcha Marg, Chanakyapuri, New Delhi**



Organised by

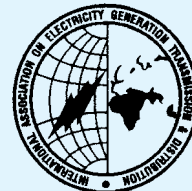


**Central Board of
Irrigation & Power**

in association with



**Society of Power
Engineers (India)**



**International Association on Electricity
Generation, Transmission and Distribution
(Afro-Asian Region)**

ABOUT CBIP

The Central Board of Irrigation & Power (CBIP) has been serving the nation with great distinction as a premier institution for dissemination of knowledge and exchange of professional experiences in the field of Power Generation, Transmission and Distribution of electricity, renewable energy besides various fields of Water Resources. The objective is achieved by the Board through various modes like organising conferences, Workshops, Imparting Training and preparation of Manuals etc.

CBIP has been Conducting long term training programs such as 52 weeks Post Graduate Diploma Course (PGDC) in Thermal and 26 weeks Post Graduate Diploma Course (PGDC) in Transmission & Distribution at its Centre of Excellence, Gurgoan. The CBIP Centre of Excellence, Gurgoan is recognised by Ministry of Power, Govt. of India as category-1 Training Institute.

Keeping in view the new initiatives of Govt. of India in renewable energy sector, CBIP is also conducting regular 4 weeks program on “Design Installation and Maintenance of Solar PV” and also conducting programs for TOT and TOA on behalf of SCGJ and PSSC.

With the above aim and to help the Indian Engineers and chemists to identify various boiler tube leakages and to understand the role of water chemistry in boiler tube failures including metallurgical analysis is organising Tutorial Course on Boiler Tube Failures - Causes and Remedial Measures, on 26-27 September 2017 in the CBIP Conference Hall, Malcha Marg, New Delhi.

PROGRAM OVERVIEW

Boiler tubes undergo abrupt failures by rupture or leakage. The problem is generally detected during operation rather than during hydro test or other inspection activities. This calls for immediate attention and can often require shutdown of the boiler leading to down time and loss of generation. It is essential to understand the various modes and mechanisms by which the boiler components such as tubes, headers, pipes and turbine blades failed. Having proper understanding of the damage mechanisms, the inspection activities and on-line monitoring tools as necessary are addressed in a more systematic manner.

Metallurgical root-cause investigation helps to narrow down the reasons of failure and provides inputs to make proper corrective action.

PROGRAM PROFILE

- Types of Boiler Tube Failure and their classification.
- Boiler water chemistry and Role of Water chemistry in boiler tube failure.
- Root Cause Failure (RCF) investigation and Metallurgical analysis.
- Case histories of tube failure of different regions and their analysis and remedial measures.
- Quantity and Qualitative analysis of deposit and chemical cleaning of boilers and condensers.
- Understanding and locating tube failure by operational parameters at running Condition.
- Job involvement for physically locating the tube failure at shut down condition.
- Control of boiler tube failures and its rectification.
- Study of different case studies in Thermal and Gas Power Plants.

METHODOLOGY

The program would be delivered through classroom sessions, case studies, and interactive group discussions.

PRESENTATIONS BY EXPERTS

The lead faculty for this program shall be Dr. Pradeep Jain, Former General Manager, NTPC-NETRA and Mr. R.S. Yadava, Former General Manager (OS), NTPC along with invited eminent experts from manufacturing organisations, power utilities, academic & consulting institutions shall be sharing their in-depth experiences with the participants.

WHO MAY ATTEND

Executives working in Operation, Maintenance, Design, Erection and Efficiency divisions of Boiler & Turbine and Generator and Chemist / Chemical Engineers.

DATE AND VENUE

The program will be held on 26-27 September, 2017 (Tuesday and Wednesday) in the Conference Hall, CBIP, Malcha Marg, Chanakyapuri, New Delhi-110021.

ABOUT FACULTY



Dr. Pradeep Jain, Former General Manager, NTPC-NETRA is M.Sc. (Chemistry), MBA, and Ph.D (Chemistry) and has about 35 years of experience in various capacities in the field of Corrosion and water chemistry. He has specialisation in the field of corrosion study in power plant equipments, post-operational chemical cleaning of high-pressure boilers & condensers, Deposit weight density measurement in water wall tubes, solvent selection for chemical cleaning of boilers & condensers and its implementation and supervised about 60 boilers and condensers in NTPC. Presently he is working as Director RA CHEMTECH Pvt. Ltd. , the company involved in the business of chemical cleaning of boilers, pressure parts and condensers etc.



Shri R.S. Yadava, Former General Manager (Operation Services), NTPC is Mechanical Engineering Graduate from R.I.T Jamshedpur, Ranchi, Chartered Engineer of Institution of Engineers (India) and Level-D Certified member of IPMA. He has 1 year experience of teaching in Kamala Nehru Institute of Science and Technology, Sultanpur and about 35 years of professional working experience in various thermal power stations of NTPC in various positions including 4 years in Renusagar Power Company Ltd.

Some more experts are expected to deliver lectures on the subject during Tutorial Course.

REGISTRATION FEES

The perspective participants, desirous of attending the Tutorial Course may register themselves by sending the details to CBIP along with necessary payments.

The registration fee for attending the Tutorial Course is given below:

- (i) Rs. 12,000/- per participant.
- (ii) Discounted Fees of Rs. 10,000/- per participant for members of CBIP

GST @ 18% shall be charged extra

GST No. 07AAAJC0237F1ZU

Registration fee shall cover the registration kit, and Tea/ coffee / lunch during the Tutorial Course. Participants will have to make their own arrangement for travel, boarding and lodging, etc. All payments should be made by cheque at par/Demand Draft drawn in favour of "Central Board of Irrigation and Power", payable at New Delhi or by transfer the amount to HDFC Bank, Address: 209-214, Kailash Building, 26, Kasturba Gandhi Marg, New Delhi 110001

Saving Bank Account No. : 00031110004411 Swift Code: HDFCINBBDEL
IFSC: HDFC 0000003 MICR Code: 110240001

CONTACT PERSON AT CBIP

Shri Mahesh Kumar, *Joint Advisor*
Central Board of Irrigation & Power
Malcha Marg, Chanakyapuri, New Delhi-110021
M : 9871997542 E-mail : mahesh@cbip.org

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**Boiler Tube Failures - Causes and
Remedial Measures**

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REGISTRATION FORM

(To be filled in block letters preferably)

Delegate _____

(Surname)

(First Name)

Designation _____

Name of Organisation _____

Mailing Address _____

City _____

State _____ PIN _____

Phone _____ Fax _____

E-mail _____

Dated _____

Signature _____

Registration Form, duly filled in, is to be mailed to the following address:

Shri V.K. Kanjlia

Secretary, Central Board of Irrigation and Power, Malcha Marg, Chanakyapuri, New Delhi 110 021, India

Tel : 91-11-26115984/26116567 Fax: 91-11-26116347

Email : mahesh@cbip.org M: 9871997542; Web-site: <http://www.cbip.org>

Note:

- Photocopies of the registration form can be used for additional requirements, if any.
- Spot registration facilities will also be available, provided the prior information is received.