LABORELEC
GDF SUEZ

TRAINING

MATERIALS TECHNOLOGY IN CONVENTIONAL POWER PLANTS

OBJECTIVE

To give an overview of the most common material problems that can occur in conventional power plants and the best ways to handle them.

TARGET GROUP

Anyone who comes into contact with boilers and steam turbines and wants to have a background on common material problems for these components.

DURATION

1 day

CONTENT OF THE TRAINING

- Introduction
- Integrity assessment and failure analysis: short explanations of damage mechanisms and case studies:
  - Short term overheating
  - Long term overheating (creep)
  - Thermal fatigue
  - Thermal shock
  - Welding defects
  - Hydrogen embrittlement
  - Fretting corrosion
  - High temperature corrosion
  - Fatigue corrosion
  - Stress corrosion cracking
  - Cavitation
  - Erosion
  - Erosion-corrosion
- Remaining life determination: application of Boiler Life Management
- Overview of available nondestructive and destructive testing

RESPONSIBLE

Nico Breuls and Evy De Bruycker

LANGUAGE

Presentation in English, training in English, French or Dutch

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