

A Practical Joint Approach to Boiler Tube Failure Prevention

Integrating the unsurpassed utility boiler inspection experience of UDC with the expertise of David N French Metallurgists, who wrote the book Metallurgical Failures in Fossil Fired Boilers together in a four day seminar.

We offer the most comprehensive technological approach for maintenance & operation of boiler systems. This conference will ultimately take you and your team to the cutting edge of today's technology in managing your systems.

Observances of Operational Factors Affecting Failures

Cycling the Boiler & Associated Failures

Failures: Abrasion Corrosion Fatigue Circumferential Cracking

Inspection Techniques for: Dissimilar Metal Weld (DMW) Cracking

Falling Slag

Ligament Cracking

Thermal Fatigue

Short Term Overheat

Stress Corrosion Cracking

Reduced Load Operation

Low Temperature Corrosion

Operational Upsets Relating to: Ash Erosion

Creep

High Temperature

Sootblower Erosion

Quench Cracking from Water Lances & Water Cannons

Quench Cracking from Water Cleaning

Techniques for Development of a good Water Chemistry Program

Strategy for Approaching Fuel & Burners: Ash & Coal Particle

Fireside Furnace Corrosion: Causes Methods of Prevention Acceptable Repairs

Boiler Cycle Chemistry

Acid Phosphate Corrosion

Caustic Corrosion/Gouging

Copper Deposition

Hydrogen Damage

Pitting

Scale and Water Side Contaminants

Identifying Deposit Constituents: Causes, Preventions, and Acceptable Repairs

Material, Fabrication, Installation Defects,

Failures due to Material or Fabrication Error, Graphitization, and Low Temperature Creep

Boiler Lay-up Procedures: WET lay-up & DRY lay-up

Boiler Fill Water Temperature Requirements

An open discussion forum addressing concerns or questions of the boiler specialist and the presentation of training certificates to all conference attendees concludes the conference.