



Boiler Tube Failure Handbook

BOILER TUBE FAILURE HANDBOOK

| Appearance | Observation | Locations | Mechanism |
|---|---|--------------------------------------|--|
|  Bulging tube adjacent to field weld | Bulging - Deformation | Waterwall | Long-term Overheat |
|  Metal thinning on fireside | Deformation - Thinning | Superheater Waterwall | Smelt/Slag Attack |
|  External wastage beneath adherent slag deposit | Deformation - Thinning | Superheater Waterwall | Corrosion From Slag Attack |
|  External thinning, smooth areas | Deformation - Thinning | Reheater | Fireside Corrosion/Erosion |
|  Smooth surface | Deformation - Thinning | Reheater Superheater | Fly Ash Erosion |
|  General pitting | Holes, Pits, Gouges - Waterside (Firetube boiler) | Waterside of firetube boiler | Acid Attack |
|  ID pitting with corrosion tubercles | Holes, Pits, Gouges - Waterside | Reheater Superheater Waterwall | Oxygen Pitting |
|  sharply defined hole | Holes, Pits, Gouges - Waterside | Economizer | Corrosion Fatigue |
|  Severe corrosion on side of tube facing gas turbine/duct burners | Holes, Pits, Gouges - Waterside | Evaporator Section | Multiple Under-Deposit Corrosion Mechanisms Including Caustic Gouging, Phosphate Attack, and Hydrogen Damage |
|  Undercut corrosion, multi-color deposits (red, white, black). (This is a view of a tube ID following cleaning.) | Holes, Pits, Gouges - Waterside | Waterwall | Acid Phosphate Attack |
|  Thinning on inside of a U-bend or other change in | Holes, Pits, Gouges | Economizer | Flow Accelerated Corrosion |

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RC Schank



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Water Works Engineering, 1928 **Chemical Engineering Progress**, 2009 **The Engineer**, 1898 Chartered Mechanical Engineer, 1974 **Southern Power and Industry**, 1952 **National Car and Locomotive Builder**, 1888
National Car Locomotive Builder, 1888 Engineering, 1963 *The National Engineer*, 1978 Vols 34 contain official N A P E directory *Boiler Tube Failure Mechanisms* Atanu Saha, 2023-06-12 This book presents failure mechanisms of different boiler components and preventive measures It illustrates the basic steam flow and circuit design of steam boiler boiler design parameters boiler components materials and their behavior at different temperatures The book aims to identify the cause s of in service failure of secondary superheater tube platen superheater tube and furnace water wall tube and also presents the solutions to avoid the future failures This volume will be of interest to researchers and professionals working in the areas of energy power generation electric power plants thermodynamics industrial chemistry etc **Energy World**, 1983 **Metals Abstracts**, 1996 Information Required for Boiler Tube Failure Investigation National Association of Corrosion Engineers (Houston, Texas). Work Group T-7H-6b on Information Required for Boiler Tube Failure Investigation, 1990 **Expert System: Boiler Tube Failure Investigation** Soon Poh Lim, 1990 **Failure Investigation of Boiler Tubes: A Comprehensive Approach** Paresh Haribhakti, P.B. Joshi, Rajendra Kumar, 2018-01-01 Failures or forced shutdowns in power plants are often due to boilers and particularly failure of boiler tubes This comprehensive resource deals with the subject of failure investigation of boiler tubes from basic fundamentals to practical applications Coverage includes properties and selection of materials for boiler tubes from a metallurgical view point damage mechanisms responsible for failure of boiler tubes and characterization techniques employed for investigating failures of boiler tubes in thermal power plants and utility boilers of industrial commercial institutional ICI boilers A large number of case studies based on the actual failures from the field are described along with photographs and microstructures to allow for easy comprehension of the theory behind the failures This book is geared to practicing engineers and for studies in the major area of power plant engineering For non metallurgists a chapter has been devoted to the basics of material science metallurgy of steels heat treatment and structure property correlation A chapter on materials for boiler tubes covers composition and application of different grades of steels and high temperature alloys currently in use as boiler tubes and future materials to be used in supercritical ultra supercritical and advanced ultra supercritical thermal power plants A comprehensive discussion on different mechanisms of boiler tube failure is the heart of the book Additional chapters detailing the role of advanced material characterization techniques in failure investigation and the role of water chemistry in tube failures are key contributions to the book The authors have long standing experience in the field of metallurgy and materials technology failure investigation remaining life assessment RLA and fitness for service FFS for industrial plant and equipment including power plants They have conducted a large number of failure investigations of boiler tubes and have recommended effective

remedial measures in problem solving for power and utility boilers **Metallurgical Failures in Fossil Fired Boilers**
David French,1993-03-10 Due to a dramatic increase in the interest and understanding of boiler tube failure analysis this
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Boiler Tube Failure J. P. Dimmer,G. A. Lamping,O. Jonas,General Physics Corporation,Electric Power Research
Institute,1989 Metallurgical Failures in Fossil Fired Boilers David N. French,1990-01-01 Due to a dramatic increase in
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