

PRACTICAL

B I L E R

WATER TREATMENT
HANDBOOK



N. MANIVASAKAM

Practical Boiler Water Treatment

Mr. Sanjeev Pandey



Practical Boiler Water Treatment:

Practical Boiler Water Treatment Handbook Natarajan Manivasakam, 2011 PARTIAL CONTENTS PART I BOILER BASICS Chapter 1 Boiler An Introduction Chapter 2 Classification of Boilers Chapter 3 Common Terms and Explanation PART II BOILER WATER TROUBLES Chapter 4 Impurities in Water and Their Effects Chapter 5 Boiler Water Troubles A Prelude Chapter 6 Scale Formation Chapter 7 Silica Carryover Chapter 8 Scale Formation in Economizers Chapter 9 Super Heater and Turbine Deposits Chapter 10 Corrosion Basic Information Chapter 11 General Corrosion Overall Corrosion Acidic Corrosion Chapter 12 Dissolved Oxygen Corrosion Pitting Corrosion Chapter 13 Carbondioxide Corrosion Chapter 14 Corrosion caused by Unstable Salts Chapter 15 Corrosion caused by Other Substances Chapter 16 Corrosion caused by Chelants Chelant Corrosion Chapter 17 Caustic Embrittlement and Caustic Gouging Chapter 18 Hydrogen Embrittlement Chapter 19 Condensate Corrosion Chapter 20 Preboiler Corrosion Chapter 21 Economizer Corrosion Chapter 22 Super Heater and Turbine Corrosion Chapter 23 Foaming Priming Carryover PART III WATER QUALITY REQUIREMENTS AND TREATMENT PROGRAMS Chapter 24 Quality Requirements for Feed Water and Boiler Water Chapter 25 Objectives of Boiler Water Treatment Chapter 26 External Treatment and Internal Treatment Chapter 27 Water Treatment programs Guidelines PART IV EXTERNAL TREATMENT Chapter 28 External Treatment A Prelude Chapter 29 Coagulation Removal of Color Turbidity and Suspended Matter Chapter 30 Filtration Chapter 31 Softening by Chemical Method Lime Soda Softening Chapter 32 Ion Exchange Resins and Treatment Methods Chapter 33 Softening by Ion Exchange Method Chapter 34 Dealkalization Chapter 35 Demineralization Deionization Chapter 36 Mixed Bed Deionization Chapter 37 Reverse Osmosis Chapter 38 Evaporation Chapter 39 Silica Removal Chapter 40 Oil Removal Chapter 41 Condensate Treatment Condensate Polishing Chapter 42 Deaeration Mechanical Removal of Oxygen PART V INTERNAL TREATMENT Chapter 43 Internal Boiler Water Treatment A Prelude Chapter 44 Organic Polymers and Their Role as Scale Inhibitors Dispersants and Sludge Conditioners in Boiler Water Treatment Chapter 45 Internal Treatment Chemical Feeding Chapter 46 Prevention of Scale Formation Chapter 47 Sludge Conditioning Chapter 48 Prevention of Corrosion An Introduction Chapter 49 Prevention of Corrosion Due to Low pH Chapter 50 Prevention of Pitting Corrosion Using Oxygen Scavengers Chemical Removal of Oxygen Chapter 51 Prevention of Caustic Embrittlement and Caustic Gouging Chapter 52 Prevention of Chelant Corrosion Chapter 53 Prevention of Condensate Corrosion Chapter 54 Prevention of Pre Boiler Corrosion Chapter 55 Prevention of Economizer Corrosion Chapter 56 Prevention of Foaming Priming Carryover Chapter 57 Prevention of Silica Carryover Chapter 58 Boiler Blow Down PART VI BOILER WATER TREATMENT IMPORTANT CALCULATIONS Chapter 59 Basic Conversion Factors Chapter 60 Water Softening Calculations Chapter 61 Cycles of Concentration Blowdown Feed Water and Makeup Water Calculations Chapter 62 Determination of Dosage of Chemicals PART VII BOILER START UP CLEANING LAY UP AND MAINTENANCE Chapter 63 Boiler Startup Pre operational Cleaning Chapter 64 Descaling and Boiler Cleaning Chapter 65

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BOILER WATER TREATMENT PRINCIPLES AND PRACTICE VOLUME 1 of Two Volumes by COLIN FRAYNE Vol I Boiler Basics and Steam Water Chemistry ISBN 0 8206 0371 6 This comprehensive reference is the most practical field guide ever written on steam and boiler water treatment In this two volume handbook Colin Frayne Cooling Water Treatment Principles and Practice also by Chemical Publishing analyzes the whole spectrum of boiler systems including those used in residential complexes commercial and institutional buildings and industrial facilities The breadth of the book covers All types of boilers plants from small cast iron units to large utility and nuclear power plants Boiler subsystems appurtenances and auxiliaries Boiler maintenance and troubleshooting fuel treatments combustion gas analysis pre treatment processes chemicals and operational management Historical and modern program design and control in accordance with international standards Introduction The Function of Boiler Water Treatment and Its Marketing Steam Generation Boiler Types and Applications Boiler Plant Subsystems Appurtenances and Auxiliaries Waterside and Steamside Problems The Basics Waterside and Steamside Problems Hot Water Heating and Low Pressure Steam Boiler Waterside and Steamside Problems Pre Boiler Section Specifics Waterside and Steamside Problems Boiler Section Specifics Waterside and Steamside Problems Post Boiler Section Specifics Pre Boiler and Post Boiler Treatment Processes Internal Treatment Programs Adjuncts and Conjunctional Treatments Control of Boiler Water Chemistry Operational Control of Waterside Surfaces Control of Fireside Conditions and Surfaces Appendix I Useful Data Appendix II Glossary Bibliography Index This book is Volume 1 of a 2 Volume set Other titles by author Colin Frayne Cooling Water Treatment Principles and Practice ISBN 978 0 8206 0370 4 Cooling Water Treatment Principles and Practices Charts and Notes For Field Use ISBN 978 0 8206 0003 1 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

U.S. Environmental Protection Agency Library System Book Catalog Holdings as of July 1973 United States. Environmental Protection Agency. Library Systems Branch,1974 *The Guide to Practical Property Management* John Philip Bachner,1991 Based on a series of individual guide books published by the Property Management Association of Washington D C this handy one volume reference will help the property manager facilities manager resident architect all others responsible for the day to day management of buildings building complexes in taking care of operation ongoing maintenance of those facilities Building types covered include multi family residential commercial industrial office parks Guidelines checklists for regularly scheduled maintenance procedures such as painting waterproofing roof repairs much more

Proceedings of the Marine Safety Council ,1986 *Boiler Water Treatment: Principles and Practice* Colin Frayne,2002-07-30 This is an instructional guide to boiler water equipment maintenance principles and practice Technology Industrial Water Technology for Hospital Engineers C. Eugene Miller,1978

Boiler Water Treatment Principles and Practice Colin Frayne,2013 Table of Contents About the Author Saturated steam temperatures at various boiler pressures Boiler Energy and Power Units Typical gross heating values of common fuels based on approximately 80% fuel to steam efficiency Typical energy consumption and output ratings for a fire tube boiler Steam tables suitable for pressure deaerators Calculating Blowdown Coefficients of thermal conductivity for some heat exchanger metals and boiler deposits Types of water or steam commonly employed in most HW heating and steam generating plants Commonly occurring minerals in natural MU water sources Specific waterside steamside problems affecting MPHw and HPHw boiler plants Salt concentration indicators Summary of waterside steamside problems affecting LPHw and LP steam heating boiler plants FW contamination from MU water FW contamination from returned condensate Problems associated with the final FW blend Deposition of boiler section waterside surfaces by alkaline earth metal salts other inorganic salts and organics Silica and silicate crystalline scales and deposits affecting boiler section waterside surfaces Iron oxide and other boiler section corrosion debris deposits Boiler section corrosion problems involving oxygen concentration cells and low pH Stress and high temperature related corrosion Steam purity quality and other operational problems Specification for grades of high quality water suitable for higher pressure WT boilers Practical considerations for a RW ion exchange softener Types of Internal Treatment Program Carbonate Cycle Requirement Calculations Phosphate Cycle Requirement Calculations A Guide to Tannin Residuals in BW Carbonate Cycle Program BW Carbonate Reserve Requirements by Pressure and Sulfate Concentration Carbonate Cycle Coagulation and Precipitation Program Recommended BW Control Limits for Non Highly Rated FT Boilers

Employing Hard or Partially Softened FW Phosphate Cycle Coagulation and Precipitation Program Recommended BW Control Limits for Non Highly Rated FT Boilers Employing Hard Partially Softened or Fully Softened FW Phosphate Cycle Coagulation and Precipitation Program Recommended BW Control Limits for Non Highly Rated WT Boilers Employing Hard Partially Softened or Fully Softened FW Chelant demand ppm product per 1ppm substrate EDTA Chelant or All Polymer All Organic Program Recommended BW Control Limits for Fired WT Boilers Employing Demineralized or Similar Quality FW Oxygen Solubility at Atmospheric Pressure Properties of Oxygen Scavengers Carbon Dioxide Evolution from FW Alkalinity Amine Requirement to Reach a Stable Condensate pH Amine Basicity Dissociation Constants Neutralizing Amine Summary Notes Some DR values for CO₂ NH₃ and neutralizing amines at various pressures Calculating Alkalinity Feed Rate Requirements ASME Consensus table 1 Suggested water chemistry limits Industrial watertube high duty primary fuel fired drum type Makeup water percentage Up to 100% of feedwater Conditions Includes superheater turbine drives or process restriction on steam purity ASME Consensus table 2 Suggested chemistry limits Industrial watertube high duty primary fuel fired drum type ASME Consensus table 3 Suggested chemistry limits Industrial firetube high duty primary fuel fired ASME Consensus table 4 Suggested water chemistry limits Industrial coil type watertube high duty primary fuel fired rapid steam generators ASME Consensus table 5 Suggested water chemistry limits Marine propulsion watertube oil fired drum type ASME Consensus table 6 Suggested water chemistry limits Electrode high voltage forced circulation jet type Notes

Current Waterworks Practice William Henry Maxwell, 1946 Journal of the Franklin Institute Franklin Institute (Philadelphia, Pa.), 1962 Vols 1 69 include more or less complete patent reports of the U S Patent Office for years 1825 59 Cf Index to v 1 120 of the Journal p 415 *The Engineer* , 1881 **Modern Power Station Practice: Chemistry and metallurgy** Great Britain. Central Electricity Generating Board, 1971 *Safety Maintenance* , 1962 **American Brewers' Review** , 1916

The Top Books of the Year Practical Boiler Water Treatment The year 2023 has witnessed a noteworthy surge in literary brilliance, with numerous captivating novels enthralling the hearts of readers worldwide. Lets delve into the realm of popular books, exploring the engaging narratives that have charmed audiences this year. The Must-Read : Colleen Hoover's "It Ends with Us" This poignant tale of love, loss, and resilience has gripped readers with its raw and emotional exploration of domestic abuse. Hoover skillfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can prevail. Practical Boiler Water Treatment : Taylor Jenkins Reid's "The Seven Husbands of Evelyn Hugo" This spellbinding historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reid's compelling storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Discover the Magic : Delia Owens' "Where the Crawdads Sing" This evocative coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens spins a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These bestselling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of captivating stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a masterful and suspenseful novel that will keep you wondering until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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