1. Record Nr. UNISA996202409503316

Titolo	2005 NASA/DoD Conference on Evolvable Hardware : (EH-2005) : proceedings : June 29-July 1, 2005, Washington, D.C
Pubbl/distr/stampa	[Place of publication not identified], : IEEE Computer Society, 2005
ISBN	1-5386-0078-1
Disciplina	621.39/8
Soggetti	Computer input-output equipment - Design and construction Computers - Circuits Evolutionary programming (Computer science) Genetic algorithms Electrical & Computer Engineering Engineering & Applied Sciences Electrical Engineering
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Bibliographic Level Mode of Issuance: Monograph

2. Record Nr. UNINA9910583366203321

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Titolo	Thermal power plant : pre-operational activities / / Dipak K. Sarkar
Pubbl/distr/stampa	Amsterdam : , : Elsevier, , [2017] 2017
ISBN	0-08-101226-8
Edizione	[First edition.]
Descrizione fisica	1 online resource (xxxiii, 440 pages) : illustrations (some color)
Collana	Gale eBooks
Disciplina	621.18
Soggetti	Steam power plants
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Includes index.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Front Cover; Thermal Power Plant: Pre-Operational Activities; Copyright; Dedication; Contents; Preface; Part 1: Preoperational Cleaning of Various Sub-Systems; Part 2: Activities that Make Critical Equipment Ready to Put Them in Service; Acknowledgments; List of Acronyms/Abbreviations; Chapter 1: General Description of Thermal Power Plants; 1.1. Introduction; 1.1.1. Nuclear Power Plant [1]; 1.1.1.1. Pressurized-water reactor (PWR); 1.1.1.2. Boiling-water reactor (BWR); 1.1.1.3. Gas-cooled reactor (GCR); 1.1.1.4. Heavy-water reactor (HWR); 1.1.1.5. Fast-breeder reactor (FBR) 1.1.2. Hydel Power Plant [1]1.1.3. Renewable Energy Power Plant [1]; 1.1.3.1. Solar energy; 1.1.3.2. Wind energy; 1.1.3.3. Geothermal energy; 1.1.3.4. Ocean thermal energy; 1.1.3.5. Ocean wave energy; 1.1.3.6. Ocean tidal energy; 1.1.3.7. Biomass; 1.1.3.8. Storage energy; 1.1.4. Integrated Gasification Combined Cycle (IGCC); 1.1.5. Magnetohydrodynamic (MHD) Generator; 1.1.6. Fuel Cell Power Plant; 1.1.7. Thermal Power Plant [1]; 1.2. Steam Power Plant [1]; 1.2.1. Steam Generator; 1.2.1.1. Fire-tube steam generator; 1.2.1.2. Water-tube steam generator 1.2.1.3. Natural circulation steam generator1.2.1.4. Forced-circulation steam generator; 1.2.1.5. Subcritical steam generator and supercritical steam generator; 1.2.1.6. Drum-type steam generator; 1.2.1.7. Once-through steam generator; 1.2.1.8. Stoker-fired steam generator; 1.2.1.9. Fluidized-bed steam generator; 1.2.1.10. Pulverized coal-fired steam generator; 1.2.2. Steam Turbine; 1.1.2.1. Impulse turbine (Fig.

1.26); 1.1.2.2. Reaction turbine (Fig. 1.27); 1.1.2.3. Axial turbine; 1.1.2.4. Radial turbine; 1.1.2.5. Single-stage turbine; 1.1.2.6. Multi-stage turbines
1.1.2.7. Single-shaft tandem compound turbine1.1.2.8. Multishaft cross-compound turbine; 1.1.2.9. Turbine with throttle governing; 1.1.2.10. Turbine with nozzle governing; 1.1.2.11. Turbine with bypass governing; 1.1.2.12. Condensing turbine; 1.1.2.13. Back-pressure turbine; 1.1.2.14. Stationary steam turbine with constant speed of rotation; 1.1.2.15. Stationary steam turbines with variable speed of rotation; 1.1.2.16. Nonstationary steam turbines with variable speed of rotation; 1.3. Gas Turbine Power Plant [1]; 1.4. Diesel-Generating Station [1]; Reference
Chapter 2: Quality Assurance and Quality Control (Applicable to Preoperational Activities)2.1. Introduction; 2.1.1. Quality Assurance; General precautionary measures; 2.1.2. Quality Control; 2.2. ISO 9000: 2015-Quality Management Systems-Fundamentals and Vocabulary; 2.2.1. Definitions; 2.3. ISO 9001:2015-Quality Management Systems-Requirements; 2.4. Procedure; Part 1: Preoperational Cleaning of Various Sub-Systems; Chapter 3: Alkali Flushing of Preboiler System; 3.1. Introduction; 3.2. Description of Preboiler System [3]; 3.3. Precautions; 3.4. Prerequisites; 3.4.1. Typical List of Apparatus
3.4.2. Typical List of Safety Gadgets

Sommario/riassunto

Thermal Power Plants: Pre-Operational Activities covers practical information that can be used as a handy reference by utility operators and professionals working in new and existing plants, including those that are undergoing refurbishments and those that have been shut for long periods of time. It is fully comprehensive, including chapters on flushing boiler systems, various methods of testing steam generators, and the drying out of generators. This book will be invaluable for anyone working on the startup, commissioning, and operation of thermal power plants. It is also a great companion book to Sarkar's Thermal Power Plant: Design and Operation . Sarkar has worked with thermal power plants for over 40 years, bringing his experience in design and operations to help new and experienced practicing engineers perform effective pre-operational activities. Consolidates all pre-operational aspects of thermal power plants Explains how to handle equipment safely and work efficiently Provides guidance for new and existing power plants to help reduce outage time and save on budgets