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Nota di contenuto	Front Cover; Chemical and Process Plant Commissioning Handbook: A Practical Guide to Plant System and Equipment Installation and Commissioning; Copyright; Contents; Acknowledgment; Introduction; What is Commissioning?; Safety and Environmental Considerations; A Simplified Commissioning Logic; Intent and Use of the Handbook; The Commissioning Approach; Chapter 1 - Commissioning Phase One - Prepare; Appointing the Commissioning Manager; Commissioning Scope and Contracts; Contracts; Budget Estimation; Prioritized Asset Systemization; Support Design Develop an Initial Commissioning Plan or PhilosophyAppointment, Composition of the Commissioning Team, Roles, Responsibilities and Organization Chart; Documentation and Sign-Off Requirements, the Library and Electronic Filing; Devise Assignment Details, Site and Office Requirements, Consumables and Procure Commissioning Chemicals; Create Commissioning Documents and the System File; Control, Instrument, Electrical Commissioning Document Preparation;

Mechanical Commissioning Document Preparation; Develop Training Materials; Develop Standard Operating Procedures (SOPs) Develop Commissioning Schedule Devise Handover Procedure; Devise Commissioning Tagging System; Chapter 2 - Commissioning Phase Two - Implement; Factory Acceptance Testing; Check Construction and Quality of Build; Tracking Progress and System Status; Cleaning Procedures and Drying; Pre-Commissioning Procedures; Vessel Check Sheets; Instrument Loop, Electrical and Control System Testing; Commissioning Punchlisting; Handover from Construction to Commissioning; Introduction of Safe Chemicals; Pre-Commissioning HAZOP Studies or Pre-Start-Up Safety; Commissioning Leak Testing Commissioning and Initial Start-Up Plus Procedures Handover to Operations; Chapter 3 - Commissioning Phase Three - Close-Out; Close Out Reservations; Complete Commissioning Documentation; Complete Training and Update Documents to "As Commissioned"; Update Operating Procedures to "As Commissioned"; Assist Continued Operation, Troubleshooting and/or De-bottlenecking Projects; Close Down the Commissioning Team; Complete Close-Out Hazard Study; Chapter 4 - The Commissioning System File, a Full Catalogue of Blank Commissioning Documents; Commissioning System File; Commissioning System File System
 1 System P&IDs 2 Decontamination Procedure and Isolation Register; 3 System Cleaning Checklist and Procedures; 4 Hazard Study Actions; 5 Equipment Check Sheets, Off- and On-Site Checks; 6 System Punchlists; 7 Action Upon Alarm Sheet; 8 Handover Certificate Construction to Commissioning; 9 Project Documentation Check Sheet Prior to Introduction of Safe Chemicals; 10 Safe Chemical Commissioning Authorization and Pre-Commissioning Procedures; 11 Leak Test Check List and Procedure; 12 Instrument Check Sheet; 13 Motor Check Sheet; 14 Interlock Check Sheet; 15 Emergency Shut-Down Check Sheet
 16 DCS Sequence Test Procedure

Sommario/riassunto

The Chemical and Process Plant Commissioning Handbook, winner of the 2012 Basil Brennan Medal from the Institution of Chemical Engineers, is a guide to converting a newly constructed plant or equipment into a fully integrated and operational process unit. Good commissioning is based on a disciplined, systematic and proven methodology and approach that achieve results in the safest, most efficient, cost effective and timely manner. The book is supported by detailed, proven and effective commission templates, plus extensive commissioning scenarios that enable the reader to learn