



Industrial Water Purification
(800) CAL-WATER

Cal Water

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Operating & Maintenance Manuals For Water Purification Systems

Pure Water is the main ingredient in many cosmetic and pharmaceutical products. If a formulator has good handle on their water purification system, half of the worker training and FDA compliance problems are solved.

The problem many formulators face is that even though one vendor may have sold and installed their water purification system, the components that make up the system come from a variety of manufacturers. Each manufacturer's O & M manual is specific to their particular piece of equipment. The various manuals are not linked to show how all the components operate together to make a complete water purification system.

Cal Water O & M Manuals cover every component in a water purification system, (regardless of vendor) from the backflow preventer, to the point of use.

Cal Water Engineers survey a water purification system of any manufacture, and produce an illustrated manual on precisely what each piece of equipment does, how it does it, and how to operate and maintain it. This is done through a process of reverse engineering, experience and Cal Water's constantly updated 50-year library of reference sources.

With the need for worker understanding and all the necessary rules, regulations and inspections associated with the formulation of consumer products in today's business world, a comprehensive water system operating manual can be a real money saver.

What a Comprehensive, Illustrated O & M Manual Can Do For You:

- Facilitate worker training and understanding of a water purification system
- Reduce system down time due to operator error
- Provide a step by step guide to troubleshooting
- Assist management in complying with
 - Installation Qualifications (IQ)
 - Operation Qualifications (OQ)
 - And
 - Performance Qualifications (PQ)

Engineering Consultation

As a part of the manual writing process, Cal Water also includes a separate "System Status Report" identifying existing and potential problem areas, a list of recommended upgrades of equipment or procedures, and ways to operate the system as efficiently and economically as possible.

Manual Contents

- As-Built 3-D illustration – and/or – System P & ID
- Processes taking place in plain English
- Identification of impurities, and the system's approach to remediation
- Actual on-site color photographs identifying each component
- Specifications and vendor source for each component
- Operating and Maintenance procedures for each component
- Spare Parts Lists
- Utility requirements
- Verification procedures
- General Operating and Maintenance procedures for the system
- Overall Preventive Maintenance Checklist and Scheduling
- Spare and replacement part lists
- Appendices – Information and Illustrations
 - Introduction to Water Purification
 - Available product literature
 - Water Purification Glossary, Conversion Charts
 - Additional information, as needed
 - Technical References Sources: Bibliography and Web Links

Hard Copy Work Products

- Three copies of the final manual in 3-ring binders
- Copy of the manual on CD-ROM in PDF format
- A laminated B, C or D size AutoCAD 3D Drawing of the system for posting on the water purification pad (An important part of worker training and documentation)



Cosmetic Products
Los Angeles, California

WATER PURIFICATION SYSTEM

OPERATING AND MAINTENANCE MANUAL

A product of:



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