

Areas of Expertise

Steam-in-Place



Boulder, CO
North Andover, MA
South San Francisco, CA
San Diego, CA
North Wales, PA
Raleigh, NC



www.jmhyde.com

Steam-in-Place

JM Hyde Consulting has a knowledgeable staff experienced in multifaceted steam sterilization projects throughout the biopharmaceutical industry. We offer a range of services to support all aspects of your SIP endeavors. JM Hyde Consulting is particularly proud to offer services specifically concerning contamination root cause investigation and prevention, and general, overall sterility improvement.

STEAM-IN-PLACE (SIP) SERVICES INCLUDE:

- SIP Consultation
- SIP Design and Specification Review
- SIP System Configuration Evaluation and Analysis
- SIP Cycle Evaluation and Optimization
- SIP Sterilization Validation

SIP EXPERIENCE INCLUDES THE FOLLOWING:

- Clean Steam Generation / Distribution
- Media Prep
- Fermentation
- Buffer Prep
- Recovery
- Purification
- Final Fill / Finish
- Fixed Tanks
- Portable Tanks
- Autoclave Dry Goods Loads/ Liquid Loads / Air Filter Cycles
- Thermocouple (TC) & Biological Indicator (BI) Placement
- Temperature Distribution & Heat Penetration Evaluation
- Empty Vessel SIP (10L to > 10,000L)
- Full Vessel SIP (10L to > 10,000L)
- Inoculation Lines SIP
- Addition Lines / Assemblies SIP
- Harvest Lines SIP
- Sample Assemblies SIP
- Media Filter Assemblies SIP
- Air Filter Assemblies SIP
- Tangential Flow Filter Assemblies SIP
- Sterile Fill Assemblies SIP
- Lyophilizer SIP
- Stopper Washer / Sterilizer SIP

CUSTOMIZED SIP SERVICES INCLUDE:

- Contamination Root Cause Investigation / Prevention
- Sterility Improvement Recommendations
- SIP Standard Operating Procedure (SOP) Development
- SIP Systems Training

ADDITIONAL SERVICES INCLUDE:

- Pasteurization Temperature Distribution Evaluation
- Viral Inactivation Temperature Distribution Evaluation