

Decontamination Planning

Pre-Turnaround Planning Services Improve Efficiency, Reduce Costs



Advantages

- ▶ Nearly two decades of experience in Zyme-Flow® process decontamination
- ▶ Process safety-compliant planning
- ▶ Customized Zyme-Flow® procedures
- ▶ Operator training on decontamination procedures
- ▶ Enhances safety
- ▶ Reduces shutdown duration
- ▶ Decreases costs through chemical optimization
- ▶ Integrates with normal refinery procedures
- ▶ Improves communication between United Laboratories International, LLC, and refinery personnel

Zyme-Flow® Decontamination Planning is the fastest, most cost-effective solution for a wide variety of applications. United Laboratories International's highly qualified Zyme-Flow decontamination planners will integrate into your shutdown planning team to ensure decontamination is executed efficiently and to make sure your shutdown schedule remains on track. Our experienced planners will help ensure the safe execution of your shutdown by providing customized decontamination procedures, drawings and timelines necessary to ensure the decontamination portion of the shutdown is carried out as smoothly and efficiently as possible. This helps get the unit back on-time and on-budget.



United Laboratories International, LLC, long known for our superior on-site service support during equipment decontamination, also provides comprehensive decontamination planning. Our experienced Zyme-Flow planners provide chemical recommendations, job design, job management, technical training and application assistance. With our professional planning team we are able to meet all your decontamination planning needs. Whether it is a procedural outline for refinery personnel or unit illustrations, United Laboratories International, LLC has you covered.

Our on-staff CAD technicians work closely with our decontamination planners to provide user-friendly conveyances of your plant's P&ID's. The easy-to-read CAD illustrations are powerful tools that integrate into our Zyme-Flow procedures to ensure your operations personnel can easily track and understand the decontamination status.

United Laboratories International, LLC, also provides an all-inclusive procedural manual that includes your proposals, decontamination guidelines, product information and step-by-step procedures. ULI's customized planning booklets are excellent communications tools that enhance safety and job performance by providing a comprehensive one-stop decontamination reference.

United Laboratories International, LLC, is the source for all your decontamination needs.



EnvirAware™

Processes are specially designed to maximize cleaning performance without harm to the environment.



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Decontamination Planning from United Laboratories International, LLC, includes:

- Comprehensive interface with planners, operations, process engineering, and supervisors
- On-site walkdown of equipment and piping
- Integration of United Laboratories International, LLC, decontamination procedures into normal plant procedures
- Accurate calculation of waste volumes for disposal
- Pre-job identification of chemical injection points fully documented
- Pre-job blinding recommendations documented
- Preparation requirements – advice on temporary fittings, pipe work and hose connections
- Timeline of procedure documented – allows for better planning for maintenance
- AutoCAD illustration depicting actual detailed process – methodology, positive isolation, valve orientation and chemical flow paths



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