



OUTOTEC® ACID PLANT SHUTDOWN PLANNING SERVICE

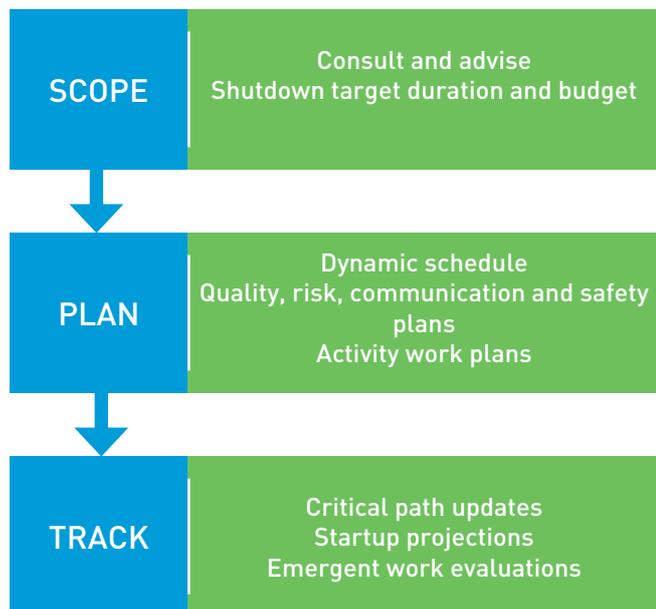
Improve safety, reduce downtime

During a Sulphuric Acid Plant Shutdown, a long list of work needs to be completed in limited space and as quickly as possible. Detailed planning can strain a team already busy with operating, maintaining and upgrading the plant. Planning is needed to react to unplanned events, stay on top of the work quality and make sure all the tasks that need to get done stay on track.

BENEFITS

- **Safety** – Avoid risks in a hazardous environment with proper planning
- **Less downtime** – Experienced team with a proven shutdown planning system
- **Effective** – Use resources wisely and combine key services under one supplier to minimize interferences

ACID PLANT SHUTDOWN PLANNING SERVICES



Scoping

The shutdown scope of work is developed from many sources:

- Maintenance or reliability plan
- Process monitoring
- Modernization program
- Recent inspections
- Outotec Plant Audit Service

Outotec's experienced team in acid plant technology and shutdowns will consult and advise on the initial scope of work.

Planning

Modern and practical techniques are brought together in the Outotec Shutdown Planning System

- Work breakdown structure
- Dynamic schedule
- Quality management plan
- Risk management plan
- Safety management plan
- Communication management plan
- Activity work plans

A detailed plan improves safety, shortens the shutdown and captures knowledge.

Tracking

Dynamic schedule tracking during the shutdown ensures:

- Critical path updates
- Independent progress assessment for important tasks
- Frequent startup projections
- Informed decisions regarding emergent work
- Logging, documenting and tracking of key tests, inspections and hold points for quality

Related Acid Plant Services:

Outotec® Edmeston SX Sulphuric Acid Steel

Outotec's Edmeston SX steel has excellent corrosion resistance in concentrated sulphuric acid. It is ideal for replacement of piping systems, distributors, coolers, towers, tanks and other sulphuric acid applications

Converter Catalyst Service

Remove, clean, screen and reload converter catalyst and inerts using mechanized screening and pneumatic reloading