



What We Clean

- ✔ Chemical Cleaning
- ✔ Dry Ice Blasting
- ✔ Evaporators
- ✔ Exchangers
- ✔ Food Grade Process Equipment
- ✔ HVAC Equipment
- ✔ Machinery
- ✔ Paint Booths
- ✔ Pits / Ponds / Lagoons
- ✔ **Process Piping**
- ✔ Reactors
- ✔ Sewers / Drain Lines
- ✔ Silos
- ✔ Steam Turbines
- ✔ Tanks and Vessels

Case History

An oxygen line with down legs in Michigan required preoperative cleaning.

Although the line had very few bends, the need to clean its ten down legs made it impossible to “pig” it clean. After confirming the line had room for expansion and all the pipe hangers could be loosened, **EAGLE** chose to use Vapor Phasing as the cleaning method. Recirculation would have been difficult because the pipe ran 1350' in one direction with no lines available to return a solution or vapor.



After fabricating a steam and chemical injection spool piece for one end and a cold water quench pipe for the other, **EAGLE** put 300 pound steam to the line. Once the entire line was hot, the crew followed **EAGLE** procedure for new oxygen service line cleaning. The first stage was to degrease with caustic, soda ash, SMS, TSP and surfactant in the appropriate ratios. Stage two included an ammoniated citric at the proper pH and concentration. The final stage called for adjusting the pH with ammonia and then adding the proper amount of sodium nitrate to passivate. During each stage, the main line and down legs were cycled. All quench effluent was neutralized and disposed safely on site; and the ends of the pipe were capped until the line was put into service.



EAGLE SERVICES CORP provides industrial / environmental clean up services, 24 / 7 / 365, to process industries in the Midwest and planned clean up services from coast to coast.

The following are examples of services we provide and industries we serve.

Service Lines

- ✎ Bio Hazard Decontamination
- ✎ Centrifuging
- ✎ Chemical Cleaning
- ✎ Concrete Scarification
- ✎ Daylighting/Hydroexcavating
- ✎ Drum Management
- ✎ Dry Ice Blasting
- ✎ Filter Pressing
- ✎ Lab Packs
- ✎ Light Bulb Management
- ✎ Mold Abatement
- ✎ Pumping / Dewatering
- ✎ Runway Stripping
- ✎ Special Waste Hauling
- ✎ Spill Response
- ✎ Sewer Cleaning
- ✎ Vacuum Dry / Wet
- ✎ Video Inspection
- ✎ Waterblasting
- ✎ Water Cutting } 10,000 - 40,000 psi

Industries Served

- ✎ Agribusiness
- ✎ Automotive
- ✎ Chemical Processing
- ✎ Environmental / Response Contractors
- ✎ Food Processing
- ✎ Government
- ✎ Industrial Gas
- ✎ Manufacturing
- ✎ Municipalities
- ✎ Natural Gas
- ✎ Personal Care Products
- ✎ Petroleum Refineries
- ✎ Pharmaceuticals
- ✎ Pipe Lines
- ✎ Plastics Processing
- ✎ Power Generation
- ✎ Pulp and Paper
- ✎ Rail
- ✎ Resins
- ✎ Steel Mills / Metals
- ✎ Transportation
- ✎ Water Treatment