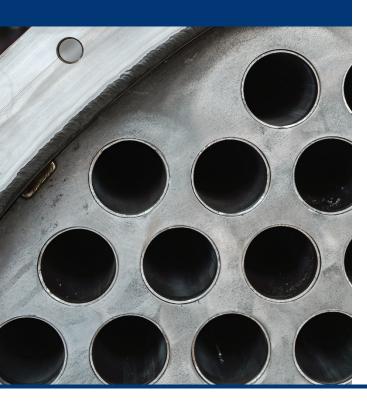


With over 400 years of combined reliable management experience, Eagle Services offers industrial cleaning, environmental cleaning, and industrial maintenance projects for customers in a wide variety of industries.



PREOPERATIVE CLEANING OF PROCESS PIPING

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

In many cases, cleaning a process pipe or drain can be paralleled to cleaning tubes in an exchanger, and 10,000 psi water can be used. But in some cases, waterblasting is not possible. This was the case with a 1350' line that was newly installed for oxygen use.

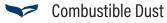
Although the line had very few bends, the need to clean its ten down legs made it impossible to "pig" it clean. After confirming the line had room for expansion and all the pipe hangers could be loosened, the cleaning method of choice was Vapor Phasing. Recirculation would have been difficult because 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 Services put 300 pound steam to the line. Once the entire line was hot, the crew followed Eagle Services' 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.

WHAT WE CLEAN:



Condensers

Drains and Troughs

Dryers

Evaporators

Heat Exchangers

Fans

Fin Fan Air Coolers

Food Grade Process Equipment

WAC Equipment

Industrial Ovens

Pumps & Other Machinery

Paint Booths

Pits, Ponds, & Lagoons

Process Piping

Rail Cars

Reactors

Sewers & Drain Lines

Silos

Tanks & Vessels

EXAMPLES OF SERVICES WE PROVIDE:

Biohazard Contamination

Chemical Cleaning

Concrete Scarification

SHydroexcavating

Dry Ice Blasting

Filter Pressing

Mold Abatement

Paint Prep

Pipeline Cleaning

Pumping / Dewatering

Runway Stripping

Sewer Cleaning

Special Waste Hauling

Spill Response

Sewer Cleaning

Vacuum Dry / Wet

Video Inspection

Waterblasting (10,000 - 40,000 psi)

Water Cutting (10,000 - 40,000 psi)

EXAMPLES OF INDUSTRIES WE SERVE:

Agribusiness

Automotive

Biodiesel Refineries

Chemical Processing

Environmental / Response Contractors

Ethanol Refineries

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 / Metal Processing

Transportation Terminals

Water Treatment

WE PROVIDE INDUSTRIAL AND ENVIRONMENTAL CLEAN UP SERVICES 24/7/365 TO PROCESS INDUSTRIES IN THE MIDWEST AND PLANNED CLEAN UP SERVICES FROM COAST TO COAST.



Contact us to learn more information about how our waterblasting and industrial cleaning services can help you maintain equipment and improve efficiency in your facility.

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