

UNIT CLEARING & CHEMICAL CLEANING



Advantages

- Safe, zero HMIS
- Environmentally friendly
- Minimum turnaround time
- Online or offline cleaning
- Liquid fill, foam, vapor phase, chemical circulation, cascading, pig entrainment, steam blow, and Polymer Extraction Process (PEP™)
- Purpose-built equipment
- Engineered pre-operational and operational planning

USA DeBusk offers innovative and safe cleaning, clearing and decontamination services for refinery and petrochemical process applications. These procedures efficiently and effectively prepare vessels and equipment for inspection and maintenance while helping restore optimal operating capacity.

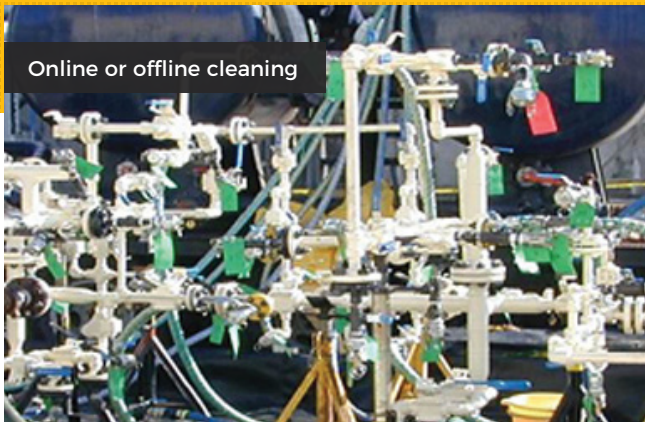
USA DeBusk services minimize cleaning time using formulations and purpose-built circulation and delivery equipment that is efficient, non-hazardous and safe for the environment.

APPLICATIONS

- Vacuum and atmospheric towers
- Crude and heavy oil units
- FCC and coker units
- Desalters
- Amine and sulfur recovery, visbreaker, platformer, hydrobon and fractionation units
- Caustic treaters and odor control
- Aboveground storage tanks
- Boilers and cooling water systems
- Exchangers and overhead condensers
- Piping and flare lines
- Small tanks and knockout drums
- Sat gas and sour water strippers
- Quench water systems
- Pre-op cleaning of new systems



Purpose-built equipment



SAFE, ENVIRONMENTALLY
FRIENDLY SOLUTIONS
THAT CLEAN AND CLEAR
UNITS WITH MINIMAL
TIME AND EXPENSE

OPTIMIZED APPROACH

USA DeBusk custom-engineers projects, analyzing equipment design, metallurgy, operating parameters, type and volume of fouling and other factors to prepare the most effective procedures. Pre-operational and operational planning includes drawings, flows, pressures and temperatures.

Non-hazardous chemical formulations are applied to remove scale and corrosion while alleviating hydrocarbons, LEL, hydrogen sulfide, benzene, pyrophoric iron sulfide, hazardous gases and many other materials.

Crews can employ a variety of techniques including:

- Liquid fill
- Foam
- Vapor phase
- Chemical circulation
- Cascading
- Pig entrainment
- Steam blow
- Polymer Extraction Process (PEP™)

To suit operational requirements, work can be completed online or offline. Multiple crews can be mobilized to work around-the-clock for projects that are large in scope or have tight deadlines. Vapor recovery and other related services can be integrated as needed, providing a single-source solution.

SAFE & EXPERIENCED

USA DeBusk supervisors have decades of experience in planning and executing successful unit cleaning and clearing projects. Crews are highly trained and managed by veteran supervisors.

USA DeBusk cleaning formulations are safe and environmentally friendly. They have HMIS ratings of zero and are non-toxic, neutral pH, biodegradable, low COD, VOC-free and nonflammable.