



PRODUCTION CHEMICAL GROUP



TANK CLEANING

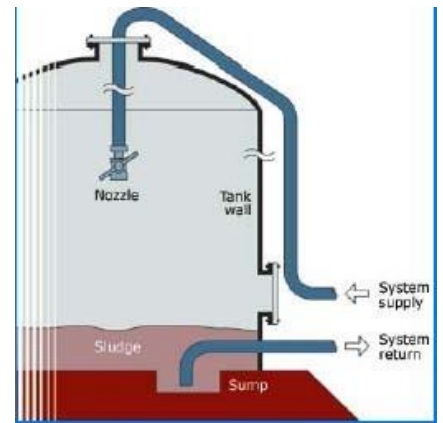
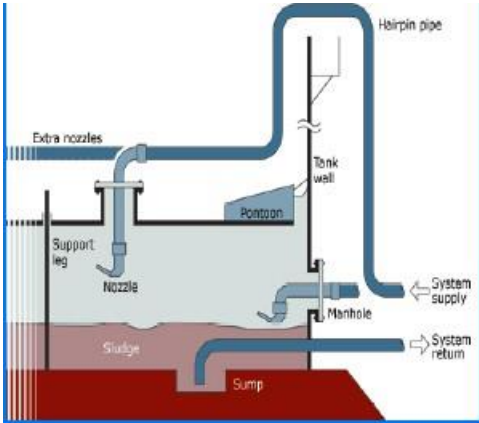
"We operate on a proven unique Crude Oil Sludge removal system, which is not only fast and safe but also profitable for our clients"

Sludge Removal System

SRS process is Chemical – Mechanical process to clean storage tank with **"No Man Entry"** to recover 90% - 95% hydrocarbons from the residue at the bottom of storage tanks. Using "Closed loop Method" in which the media used for cleaning the tank, runs in closed circuits that circulates Oil / Sludge, with addition of Chemicals through injection nozzles designed to fit floating roof legs. This greatly benefits the environment as no emissions escape to the atmosphere and no spill out of crude oil at the tank premises and in the tank farm - Operators never get in contact with media inside the tank and consequently, have less contact with toxic and flammable liquids makes it the safest tank cleaning system



Production Chemical Closed Loop Tank Cleaning System



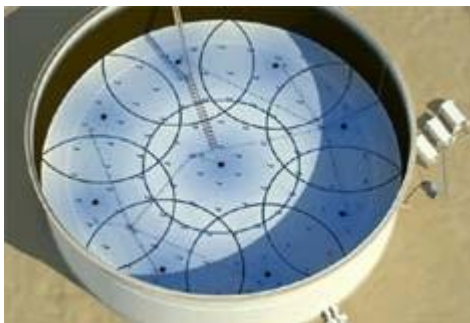
"We constantly develop new features in our system to ensure safer operation of our system and environment."



Installation of SRS



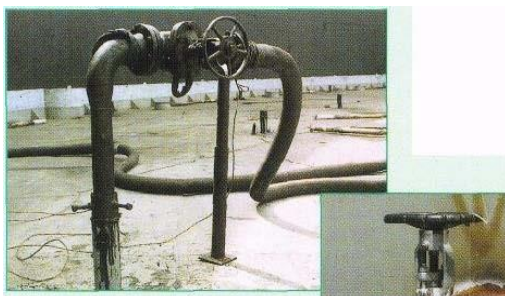
Red, Yellow and Green Illustrate Safety Zones



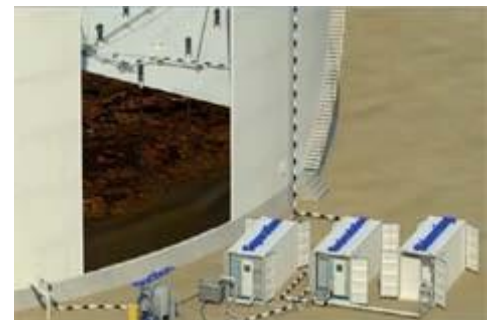
Precise nozzle for optimal cleaning results



Sludge Breakers and Dispersants



Injection System



Tank Cleaning in Process

The oil recovered is blended with other crude oil stock for export without any further treatment.

Advantages of PCG Sludge Removal System

The only known "Tank Cleaning System" in the world, which not only cleans tanks but also pays for its cost of treatment by recovering hydrocarbon from deadstock.

Save Time

- Up to 80% reduction of tank cleaning time (Compared to manual)
- In terms of speed, the process is unrivalled; we have removed in excess of 1500m³ of sludge in only 4 days, including setup and de-rigging time. Production Chemical SRS is more economical and especially applicable to larger volumes for example, approximately 8500m³ was removed in just one week, which was sent for export, making the process not just economic but profitable for the Terminal.
- Shorter overall tank down-time



Tank Bottom after application of PC SRS

Environmentally Friendly

- 95% recovery of hydrocarbons
- Minimal Waste disposal necessary
- Minimal Hydrocarbon emissions to atmosphere due to closed loop cleaning
- Lower consumption of water, electricity and air

Safe Cleaning

- Unique indexed washing pattern covers complete tank interior surface area.
- Re-circulation of cleaning media during de-sludging
- No personnel inside tank during process
- No health and safety risks to workers



Please review case studies at: www.productionchemical.com