

## Radiological Turnaround Work

Any facility processing propane, ethane, ethylene or propylene has the potential for NORM contamination due to the decay products of naturally occurring radon gas being deposited along inner surfaces of plant equipment. Radon primarily is associated with Radon, however, and derivative product (propylene, etc) will also have the NORM constituents. Likewise, even feed stocks having relatively small percentages of radon can have NORM issues down-stream due to the radon gas being concentrated along with the propane and related gases.

If not managed properly during plant outage work, this contamination can result in exposures to workers, the environment, and potential litigation for facilities. USA provides complete NORM management during gas processing and petrochemical plant turnarounds. These services include awareness training of TA contractors, screening and characterization of components, decontamination of NORM-impacted components (through chemical chelation, in-situ chemical circulation, and/or hydro-blasting), and waste management services.

USA had completed many turnaround support projects all along the Texas and Louisiana coastal region performing services such as hydroblasting, slurry-blasting, chemical chelation decontamination, radiation safety monitoring, process equipment surveying, and waste characterization and disposal.

