### **CASE STUDY**



# Petrochemical Facility -Feedstock

South Korea / 2016

#### Problem

A petrochemical facility in South Korea needs to protect their facility from condensate feedstock loaded with black powder contamination. The contamination was coming from the refinery and tank farm upstream.

#### Solution

Install and operate a magnetic separator system on the inlet feed stream to remove black powder from product flowing at ~70,000 bopd. For maximum holding capacity, the magnetic separator system is oversized for this application.

#### Result

Collection of up to 200 lbs/day of black powder was expected; however, during the 1st 48 hour period, over 50 lbs of black powder contamination was captured. If that data is extrapolated over 1 year, over 9,600 lbs (4.8 ton) of contamination would have been captured.



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