

HYDROCARBON LOSS CONTROL

ENERGY SECTOR CASE STUDY



A North American joint venture engaged Trindent to design and implement a world-class hydrocarbon loss control program, focusing on one of their refineries in Ohio to improve in areas of meter measurements, tank gauging and Sediment and Water (S & W) sampling and testing.

44%

**REDUCTION IN
MASS LOSS**

\$30,300,000

**ANNUALIZED
SAVINGS**

127%

**REDUCTION IN
S&W LOSSES**

HOW WE MADE IT HAPPEN

Meter Measurements:

- Introduced meter prove witnessing program with witnessing guidelines to increase accuracy of third-party meter measurements
- Developed water draw witness program and standardized guidelines to introduce oversight over the calibration of provers

S&W Sampling & Testing:

- Introduced witnessing program and standardized guidelines to increase oversight over measurement of S&W leading to a savings of \$2,300,000
- Developed formal escalation procedure to identify cases where pipeline reported S&W was not reproducible

Management Systems and Tools:

- Installed radar variance dashboard to track improvement of tank radar deviation
- Introduced S&W variance reduction dashboard to quantify improvement in various KPIs
- Implemented 70 meter factor control charts to identify meter errors and reduce measurement losses by \$28,000,000

Tank Gauging:

- Designed a monthly program to identify faulty tank radars, provide more accurate monthly reading to eliminate noise in monthly inventory, and prioritize faulty radars requiring repair
- Improved material balance accuracy by more accurate tagging and inventory precision

"The Trindent team brought a wealth of knowledge as well as industry best practices to our facility. The team utilized a methodology that systematically aligned the key elements necessary for the success of the engagement, as well as maintaining a transparent communication process during the entire engagement."

– President