

## PROJECT BACKGROUND:

**PROCESS SYSTEM:** 400 GPM Sour Water Stripper Unit

**OPERATING CHALLENGE:** Heat exchanger fouling, high energy cost, hydrocarbon carryover to SRU

**OPERATING IMPACT:** \$500,000 per yr. in HX cleaning and energy costs, SRU consumption, etc

## TORSEP™ ADVANCED EMULSION SEPARATION SYSTEM:

**ENDUR PRIMARY STAGE:** Solids removal

**ENVISION SECONDARY STAGE:** High efficiency, emulsion capture, growth and separation

**OPTIMIZED OPERATING COSTS:** Efficient solids removal reduces overall element replacement costs



INLET



OUTLET

## RESULTS:

**HX FOULING:** Run life extension from 6 months to 60 months.

**OIL RECOVERED:** Diesel grade oil recovered.

**ELEMENT REPLACEMENT:** Average online life > 8 weeks for ENDUR solids removal.

**REDUCED OPERATING COSTS:** Reduced HX cleaning events and exposure.

**REFINERY OUTPUT:** Improved SWS reliability reduced the risks of refinery output reduction.

**PAYBACK PERIOD:** < 12 months.