PO Box 530

Momence, IL. 60954 Tel: 815-472-2700 Toll Free: 877-489-2681 Fax: 815-472-2930

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## **Project Examples**

**Customer**: US Navy **Date**: 2011 to present

Site: Puget Sound Naval Shipyard

Engineer: US Navy Dry Dock Engineering Group Code 980

Application: Industrial bilge water and contaminated dry-dock water. Removal

of FOG, Cu, and Zn

**Project Value**: >\$5,000,000

**Overview**: We provided process and controls design and supplied a complete 200 gpm system including Oil Water Separator, Chem Feed Systems, Flash/Floc mixing, high profile Clarifier, Effluent Polishing, and IX System for residual Cu and Zn.

The entire system fits into a 22'x30' foot print in a two story configuration.

The influent has ~1000 mg/L Oil and Grease, ~15 ppm Cu and ~15 ppm Zn. The performance goal is to achieve ND on hydrocarbons and < 4 PPB on metals. The contract was for two systems with options for 2 more. After delivery, performance testing and acceptance of the first two the US Navy ordered the others.

**Customer**: Atkore Conduit (Tyco) **Date**: May 2011 to Oct 2011 **Site**: Philadelphia PA mfg facility

Engineer: MWH Philadelphia and Chicago offices

**Application**: Industrial oily wastewater with Zn and Cr from metal drawing,

galvanizing, and brightening. **Project Value**: >\$465,000

**Overview**: We provided a complete system including an Oil Water Separator, Chem Feed Systems, Flash/Floc mixing, Clarifier, Effluent polishing filter and

complete controls package. The entire system was installed in an existing facility with limited space. Our low profile clarifier was provided conservatively sized. We made several value added recommendations that saved cost up front and allowed them to double flow rate in the future.

**Customer**: Gulf Gateway Terminals **Date**: August 2012 to March 2013

**Site**: New Orleans East **Engineer**: WS Nelson

Application: Crude oil trans-loading facility. Taking oil from railcars to pipeline

to barge or tank.

**Project Value**: >\$650,000

**Overview**: We provided overall project design assistance as project manager for the owners, controls design and systems, and environmental systems. The

controls package incorporated pumps, flow monitoring, LACT data generation and flare gas treatment system. The controls package was central located in the Master Command Center with rekote local panels with HMI located strategically in 3 other locations around the plant and the dock. The environmental systems included collection sumps and Oil Water Separator system.





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Customer: ARAMCO (Saudi Arabian Oil Company)

**Date**: Mar 2011 to April 2013 **Site**: Yanbu Industrial City K.S.A.

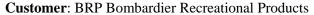
Engineer: KBR

Application: Oily water separator for high temperature and high

pressure cooling water application. **Project Value**: >\$1,300,000

**Overview**: We provided designs and fabricated equipment for a multi cell (6) 3800 gpm, 200F, 140 PSI Oil Water Separator with automatic

air scour cleaning system. The Oil Water Separator treats process cooling water for removal of free and dispersed hydrocarbons. The design incorporates tangential inlet and centrifugal force in combination with API 421 style coalescing plates made from stainless steel. The design is very efficient at oil removal and solids reduction.



**Date**: August 2013 **Site**: Spruce Pine NC

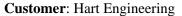
Engineer: Rivers Bend Engineering

Application: Plating and CCC wastewater with Cr

**Project Value**: >\$965,000

**Overview**: We provided a Cr treatment package including flow thru Cr reduction and flash/floc mix tanks, Clarifier, and Chemical feed systems to designs mutually determined between us and the Engineer.

This is the second system thru this engineer to this customer. The first system was ~7 years ago and designed for 75 gpm.



Date: July 2013

Site: TF Green Airport - RI

**Engineer**: Gresham Smith and Partners

**Application**: DAF system for removal of biologic floc from biologic wastewater process treating glycol based aircraft de-icing fluids. **Project Value**: >\$100,000 our portion, multi million total project.

**Overview**: We provide the DAF Dissolved Air Flotation system that is used to remove residual boil solids from bio wastewater that is treating de-icer fluids at an airport. Our design was customized to meet project specific requirements for oxygenation of effluent. We provide the local controls and instruments for the DAF system.





