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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.

Customer: BRP Bombardier Recreational Products
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.

Customer: Hart Engineering
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.

