

VANDENBERG AIR FORCE BASE INDUSTRIAL WASTEWATER TREATMENT PLANT, DECONSTRUCTION, REFURBISHMENT AND OPERATIONS & MAINTENANCE SERVICES, VANDENBERG AFB, CALIFORNIA

SUMMARY: Design and build of a complete industrial wastewater treatment system (IWTP) at a remote location on Vandenberg Air Force Base (AFB). This newly refurbished facility is within Space Launch Complex (SLC) 6, designed and constructed to treat launch water from satellite launches and other industrial wastes generated throughout the installation. PSI's efforts included the complete performing deconstruction, refurbishment along with design and installation of the electrical and controls package including incorporating computer SCADA systems to provide operational control of the system on-site and remotely during launches. Construction and installation efforts included extensive electrical and grounding requirements to support USAF launching and tracking of ballistic missile and rocket systems.

ENGINEERING DESIGN & CONSTRUCTION SERVICES: PSI complete preliminary specifications and cost estimates (PSE) along with the formal design of the remote operating and control system. This task included the layout and conceptual control scheme to achieve the performance based statement of work criteria to; Improve treatment times, Ensure compliance with applicable permits and to ensure capacity is always available for "Launch Mission Critical Support".

The primary treatment facility is located at a remote location along the rugged southern expanse of Vandenberg AFB. PSI successfully integrated the extensive IWTP operations with remote operational capacity with extremely limited communication networks due to the sensitive nature of the critical launch equipment, which allows Vandenberg AFB Launch Operations complete flexibility to support real-time mission critical launch operations.

OPERATIONS & MAINTENANCE At Vandenberg AFB, PSI currently supports the management and treatment of all industrial wastewaters generated as a result of a variety of processing operations. PSI is an integrated member of the team managing the technical aspects to ensure that wastes are individually batch sampled, characterized as industrial or hazardous waste, and scheduled for pick-up by one of two tractor trailers. Once scheduled with all other pick-up requests (300-500 annually), wastewaters are eventually hauled approximately 40 miles, one way, in 4,000 gallon increments to the IWTP. Additionally, during the wet season storm waters commingle with retained waters awaiting sampling, analyses, and transportation, thus increasing the volume of contaminated wastewater requiring rapid movement and treatment.

PROJECT INFORMATION:

Project Type:

Construction, Operations and Maintenance

Contract Dollar Value: *Inception to date value over 3.5 Million. FY2010 value - \$350K*

Period of Performance: *Original program from 2005 -2009. 2010 task order through 31 December*

PSI's Role: *Prime Contractor under US Air Force Level contract through Tetra Tech, Inc.*



CLEINT INFORMATION:

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PSI has a commendable and consistent level of quality associated with all aspects of their work and employees. Tetra Tech has often leaned on PSI (and continues to do so) when the chips are down and the project requires on-site ingenuity to get the work done. Regardless of the project's technical requirements, PSI has always exceeded our expectations ... without fail!

John Hauenstein, Tetra Tech VAFB Program, January 2010