Division of Waste Management (DWM) –

Petroleum Storage Tank & Contamination Monitoring System (STCM)

Overview: An Oracle forms and ASP reports based application custom written by contractors for the Florida Department of Environmental Protection (DEP). This application is used to track the data critical for supporting the Florida Petroleum Cleanup Program. The application is managed within the Bureau of Petroleum Storage Systems (BPSS) in Tallahassee and used by four Petroleum Cleanup sections (Teams 1-4) and two contractors with on-sight DEP oversight (Team 5 – WRS, Inc. and Team 6 – Ecology & Environment, Inc.), and throughout the state by 14 contracted local programs (covering sites in 23 counties), with additional support from the six DEP District Offices.

This application also contains components used to support the Storage Tank Regulation Section, which is part of the Bureau of Petroleum Storage Systems in the Florida Department of Environmental Protection's (DEP) Division of Waste Management. In 1983, Florida was one of the first states in the union to pass legislation and adopt rules for underground and aboveground storage tank systems. Since then, over 28,000 facilities have reported discharges of petroleum products from storage tank systems. Florida relies on groundwater for about 92 percent of its drinking water needs, and has some of the most stringent rules in the country. All new and replacement storage tank systems must have secondary containment, and all remaining single-wall systems must replace their systems with secondary containment by 2010. The Department contracts with counties to perform annual compliance inspections (25,000/yr).

The STCM application was written to capture, store and report on all facets of these operations. The reports used to support the programs were written using ASP.

Description of Services: The **Application Architect** works closely with customers, business analysts, and team members to understand business requirements that drive the analysis and design of quality technical solutions. Provides design recommendations based on long-term IT organization strategy. Develops enterprise level application and custom integration solutions including major enhancements and interfaces, functions and features. Provides expertise regarding the integration of applications across the business. Determines specifications, then plans, designs, and develops complex and business critical software solutions, utilizing appropriate software engineering processes - either individually or in concert with project team. Will assist in support problems. Develops programming and development standards and procedures as well as programming architectures for code reuse. Has in-depth knowledge of state-of-the art programming languages and object-oriented approaches in designing, coding, testing and debugging programs. Understands and consistently applies the attributes and processes of current application development methodologies. Researches and maintains knowledge in emerging technologies and possible application to the business.

The **Manager Application Development** attends BPSS team meetings and provide technical input to information technology solutions. Provide project management support as requested for specific enhancement and implementation efforts. Provide business analyst support to any Information technologies applications used by the Bureau. Review current business process and work with the staff and the application teams to identify ways to integrate and improve existing applications, and to incorporate new Bureau's needs and requirements in technology solutions to increase productivity and accuracy. Work with the STCM team on enhancements to the tool which will facilitate modernization of that application to support the cleanup efforts.

The **Application Development Analyst** has specific assignments related but not limited to the Oracle DEP schema STCM, and to interface the Bureau oracle databases among themselves and with the other DEP databases and applications. Assignments include building Oracle forms, ASP reports, SQL scripts to move data and create database objects (tables, views, indexes, constraints, triggers, sequences, etc.), create ERD and SMD diagrams, modify database structures to implement required business rules, create and assist in the creation of scripts for migration package to move the Oracle application from ORADEV, to ORABETA, and ORAPROD.

Technology/Environment:

- Oracle Forms
- ASP
- Oracle 10g Database
- PL/SQL
- XML
- Ms-Access

Company Services Provided:

- Application Architect
- Manager Application Development
- Application Development Analyst