Fort Belvoir
Compliance-Focused EMS

E2S2 Symposium Session 10082
June 16, 2010
**Fort Belvoir Compliance-Focused EMS**

Presented at the NDIA Environment, Energy Security & Sustainability (E2S2) Symposium & Exhibition held 14-17 June 2010 in Denver, CO.
Our Mission

Provide equitable, effective, and efficient management of Fort Belvoir to support mission readiness and execution, enable the well-being of Soldiers, civilians, and family members, provide quality installation support and services to our customers, and, promote and enhance community well-being.

EXCELLENCE THROUGH SERVICE
Fort Belvoir Overview

• Headquarters to multiple Agencies

• Home to over 100 tenant and satellite organizations and facilities

• Fort Belvoir’s Mission - provide administrative and logistical support

• Number of employees approximately 22,000 (estimated 44,000 after BRAC)

• Approximately 8,600 acres

• Size, structure and decentralized nature of population cause significant challenges
ENRD Overview

• Environmental and Natural Resources Division within the Directorate of Public Works

• Responsible for protecting natural resources, maintaining environmental compliance and implementing Federal, State and local sustainability and environmental requirements and programs throughout the Fort Belvoir community

• Three Branches
  – Environmental Compliance
  – Natural Resources
  – Training

• Approximately 35 employees
EMS Background

• Formal EMS was implemented to conform with Army EMS implementation approach and comply with Executive Orders
• Primary focus to support the execution of the Belvoir Mission and ensure operational sustainability
• Developed formal processes for:
  – identifying environmental issues
  – managing and mitigating environmental risks
  – communicating key information throughout the Belvoir community
  – improving compliance
EMS Background

• Key consideration: State of VA Consent Order in September 2007 related to Clean Air Act recording and reporting violations

• CO included requirement to implement an environmental tracking software package

• Software requirement helped justify funding and procurement of an off-the-shelf product to support the Fort Belvoir EMS
Software approach: EMSOLUTION®

- Web-based EMS on Belvoir computer network: functions as installation’s ‘EMS Portal’
- Environmental compliance program information management and communication - policies, procedures, plans, standards, requirements, etc.
- Procedures and tools are aligned with the requirements of ISO 14001, Executive Orders and Army EMS guidance
- Compliance assurance: Management of compliance program information, including compliance requirements and tasks with compliance calendar
- EPAS process can be integrated
- Automation of NEPA project reviews and determinations
Technology Overview

- Resides on Army computer network
- Army Certificate Of Networthiness (CON)
- Microsoft SharePoint-based website
- ASP.NET web applications with Microsoft SQL database backend
- CAC/Windows AD authentication
- Content owners and viewers access with web browser
- Role-based application behavior and user groups
Implementation Approach

• Phased implementation of EMS platform and database modules – EMS, Compliance Tracker, NEPA, Incident

• Planning
  – Identify key needs from environmental program managers, including integration of existing EMS information and systems
  – Solicit input from tenant user representatives on design and functionality needs
  – Work with DOIM representatives to ensure access by base “customers” and tenant organizations
Implementation Approach

• Install and Customization
  – Work with DOIM to configure server environment and install modules
  – Belvoir-specific customization
  – Population with existing program information

• Training
  – Super-user application management training
  – Content management training for environmental program managers
  – Roll-out training to key tenant organizations
Implementation Approach

- **Customization Support**
  - Hands-on customization training for key content managers
  - Customize environmental program pages
  - Further develop tenant home pages
  - Add requirements and tasks to Tracker database

- **Optional Annual Support**
  - GIS integration
  - Develop additional features and capabilities
Demonstration
Demonstration

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Filter: My Tasks | Any program selection | Any Organizational Unit

Legend: Pending | Completed | Past Due | Could Not Complete

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- Perform weekly inspections of all Cold Solvents...

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EMSolution® Compliance Tracker

Fort Belvoir
Environmental and Natural Resources Division

My Tracker Home
Demonstration
Demonstration
Demonstration

**EMS Solution Compliance Tracker**

**Fort Belvoir Environmental and Natural Resources Division**

- **Tasks Assigned To Me**
  - Filter: Any Active | Any User | Any program selection | Any Organizational Unit
  - **ID** | **Created On** | **Task Description** | **Activity Type** | **Organizational Unit** | **Created By** | **Assigned To** | **Status** | **Due Date**
  - 2010-0006 | 28 MAY 10 14:14 | Perform a weekly inspections of all Cold Solvent Degreasers | Inspection | Environmental & Natural Resources Division | Hickey, Travis C. (travis.hickey) | Hickey, Travis C. | Active | Recurring

- **Organization Task Assignments (click to expand)**
- **Findings (click to expand)**
Project Timeline and Milestones

- Project kickoff: September 2008
- EMS Module implementation and training: Fall/Winter 2008
- Ongoing EMS implementation: 2009
- EMS conformance demonstration: December 2009
- 12 month delay waiting for CoN for ASP.NET modules
- Install of database modules: December 2009
- Implementation and customization of modules: first half of 2010
- Project completion target: July/August 2010
INSTALLATION MANAGEMENT COMMAND

“Sustain, Support and Defend”