

Stovepipes – the Enemy of Sustainability

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The Issue - Mission

David Quigg, Grays Harbor Paper: Our mission is to be economically viable.

“We are not Environmentalists”



DoD Mission

- Provide realistic training environments
- Field and use advanced military technology

Requirements to Meet Mission:

- Access to land, air, sea ranges that have many kinds of environments
- Ability to conduct live-fire training –
Live Fire is Fundamental to Training



***We must train as we fight;
because we fight as we train***



The Wake-Up Call: Ranges Are At Risk

Encroachment: Restrictions that inhibit accomplishment of our live training and testing as required

- Force Readiness is fundamentally linked to the quality and frequency of test and training
- The impact of encroachment is broad -- affecting our ability to execute realistic air, ground, and naval training across the nation, as well as beyond its borders.





Headed for Bankruptcy

- Endangered Species/Critical Habitat Issues
- Contamination Issues – Emerging Contaminants
- Frequency Spectrum
- Migratory Birds
- UXO/Munitions
- Ambient Light

Realization within the Department: We must be sustainable into the future and **“Business as usual will not work”**

First Stovepipe to fall: Operators vs Environmental



We Are In Good Company

- “Ford CEO elevated industry veteran Sue Cischke to senior vice president for sustainability, environment and safety engineering. “Green is good business”USA Today
- Chinese Army has asked our office for assistance:
 - New regulations promulgated in November 2006 require the Chinese military to conduct environmental impact assessments (EIAs).
 - Assistance required in the areas of green landscaping, topography changes, energy and waste management, traffic patterns/congestion, walking-friendly environment, green building materials—all concepts required to meet the minimum standard for green buildings.



The Next Stovepipes to Challenge

- 1986 DERP led to Four Pillars - Stovepipes
 - Cleanup
 - Compliance
 - Pollution Prevention
 - Conservation
- 2003 Legislation added “Readiness and Environmental Protection Initiative – conservation easement program
- Installations are working on sustainability models - but except for the Army it is still quite “ad hoc”



Obstacles to Felling Stovepipes

- Long term sustainability requires a “cradle to grave” systems approach
- Boundaries and borders don’t define how “systems” work

Examples:

- State officials car-pooling to a meeting – meet for first time
- Cross-Service, agency, state meeting on endangered species – many duplicate efforts discovered
- Contracting Rules don’t allow sustainable purchasing
- New Clean Air Act rules stop critical prescribed burning

Competition for resources is too fierce – we must work together to be sustainable – partnerships will be essential to success



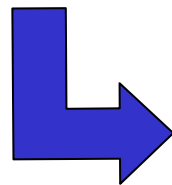
Examples of Cooperative Efforts where we've overcome Internal Stovepipes



“Braggdad”



- **Mock-up of Iraqi village for deployment training**
- **The trainers needed a third village immediately**
- **Traditional construction 2-3 years, \$250,000**
- **Used 50 excess shipping containers, 100 gallons paint**
- **Built in under 90 days for \$4,500**



MISSION READINESS



Fort Bragg Sustainable Forestry

- Removal of only trees necessary
- Mulch made with removed trees
- Mulch remains on-site, mixed with topsoil for re-use



25-Year Goal(s) Addressed:

Reducing landfill waste to zero by 2025

Mission Benefit: Improved training lands

Community Benefit: Mulch is available free of charge

Environmental Benefit: Stormwater management and erosion control protect surrounding wetlands.

Cost Benefit: Reusing the soil cuts down on hauling requirements and or the purchasing of new soil from an outside source.



Fort Lewis Whole Barracks Renewal Program

- LEED Certification for FY04
 - Porous paving
 - Waterless urinals
 - Rainwater harvesting
 - Low-flow plumbing fixtures
 - Green power
 - Construction waste recycling
 - Recycled content materials
 - Local and regional materials
 - Low VOC paints, sealants, carpets
- LEED Gold for FY 05, FY06
 - Condensing hot water heaters
 - Integrated lighting controls and day lighting
 - Rapidly renewable materials
 - Improved ventilation





Fort Lewis Whole Barracks Renewal Program (con't)

25-Year Goals Addressed:

- **All facilities adhere to the LEED Platinum standard by 2025.**
- **Reduce Fort Lewis potable waster consumption by 75% by 2025.**
- **Cycle all material use to achieve ZERO net waste by 2025.**
- **ZERO discharge of wastewaters to Puget Sound by 2025.**



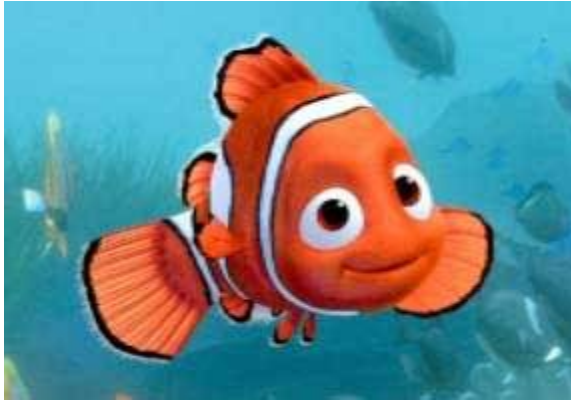
Fort Lewis Sustainable Acquisition and Procurement

- Barracks Furnishing Showcase
- Collect input from soldiers on style and type of furnishings
- Renewable construction
 - Fabrics made from 100% recycled polyester and wool
 - Furniture designed to be “renewed” rather than replaced
- Vendors required to display environmental information





Examples of Cooperative Efforts where we've overcome External Stovepipes



New and Emerging Military Market Opportunities (NEMO)

Description: Partners will establish a network of city, military installations, small manufacturing, agricultural, and industrial users who will identify links between generators and manufacturers to turn their waste streams into revenue streams.

Partners: Fort Bragg and Camp Lejeune, Sustainable Sandhills, NC Business Council for Sustainable Development, local chambers of commerce, local companies.



Market Example

- Fort Bragg is refurbishing mattresses through a local company rather than disposing of used mattresses and buying new:
- New barracks mattress costs \$120
- Mattress rewrapped & recovered for \$60
- FY06: 1,450 mattresses renovated: \$87K savings





Further Beyond Borders

- **Southeast Regional Partnership for Planning and Sustainability (SERPPAS)** – a partnership of DoD, five states, other federal agencies to find solutions of mutual benefit
- Synergistic results from coming together to identify issues and solutions has been amazing
- Five major projects underway in Southeastern US
 - Save the Longleaf Pine Ecosystem
 - Find ways to improve coastal planning
 - Improve Community Partnerships
 - Keep Gopher Tortoise from being listed
 - Protect Working Lands, Family Forests
- Academic Workshop to determine research needs for sustainability; look for ways to leverage \$



Lessons We Have Learned

- Understand the mission and keep it at the forefront – builds support
- Form the “Sustainability Team” – and make sure mission leads
- Budget and contracting rules are major issues for getting to sustainability
- Walk across the hall, the street, the border
- Be open to new ideas – they may just work
- Partner, Partner, Partner – both inside and outside your organization



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