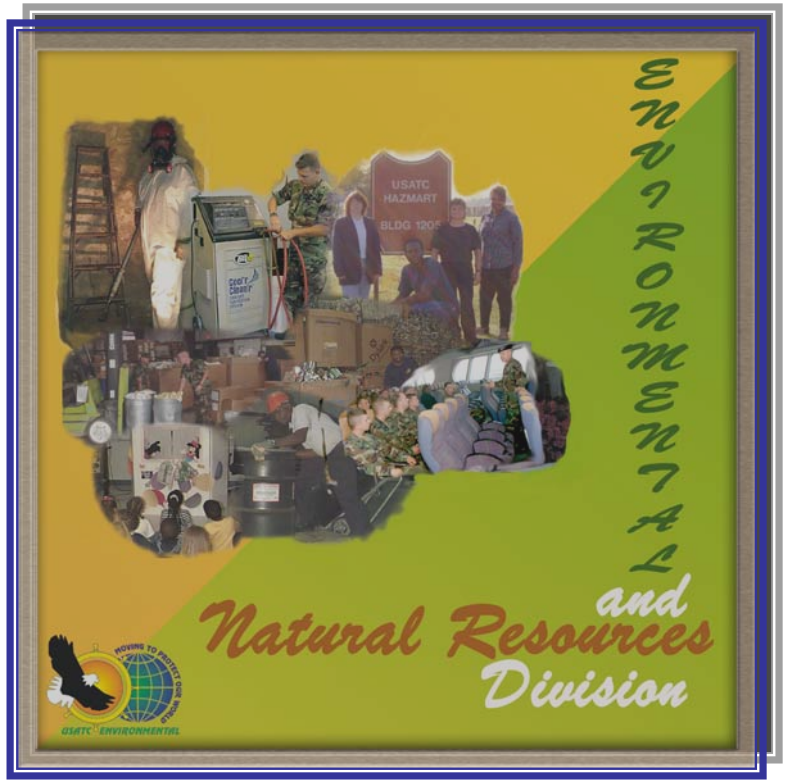
Environmental Management System



A Tool to Achieve Sustainability

DPW/ENRD Briefer:
Ms. Linda Rice

EMS AND INSTALLATION MANAGEMENT

Installation and Environmental Management are changing

IMA: Field Operating Agency (FOA) Of The Office Of The Assistant Chief of Staff For Installation Management (ACSIM)

IMA GOALS:

- Manage installations equitably, effectively and efficiently
- Enable the well-being of the Army's people
- Provide sound stewardship of resources (Environment)
- Deliver superior mission support to all organizations
- Develop and sustain an innovative, team-spirited, highly capable, service-oriented workforce

INSTALLATION MANAGEMENT TODAY

"SUPPORTING & ENABLING MISSION CDRs"

Mission Commanders

Garrison Commanders

IT'S WORKING!

- SMCs & MACOMs freed from installation management responsibilities to focus on training and warfighting missions
- Mission Commands entrust installations to IMA management/ stewardship of BASOPS resources
- Garrison commanders in charge of installations and caring for people who live, work & play there
- IMA "stay home" team – proven readiness and well-being component
- PPPs/PSPs facilitate deployments and accommodate mass mobilization densities

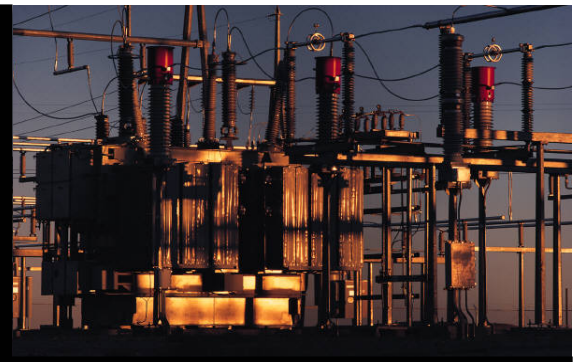
FORT EUSTIS TODAY

- Population: 34,805 people
- Land Mass: 8,228 acres
- Training Areas: 1,266 acres
- Ranges: 175 acres
- Airfield: 349 acres
- Paved Roads: 101 miles
- Rail: 23 miles
- Pier: 1,000 feet
- Troop Housing: 2,842 spaces
- Family Housing: 952 units

FORT EUSTIS ANNUAL BUYING POWER

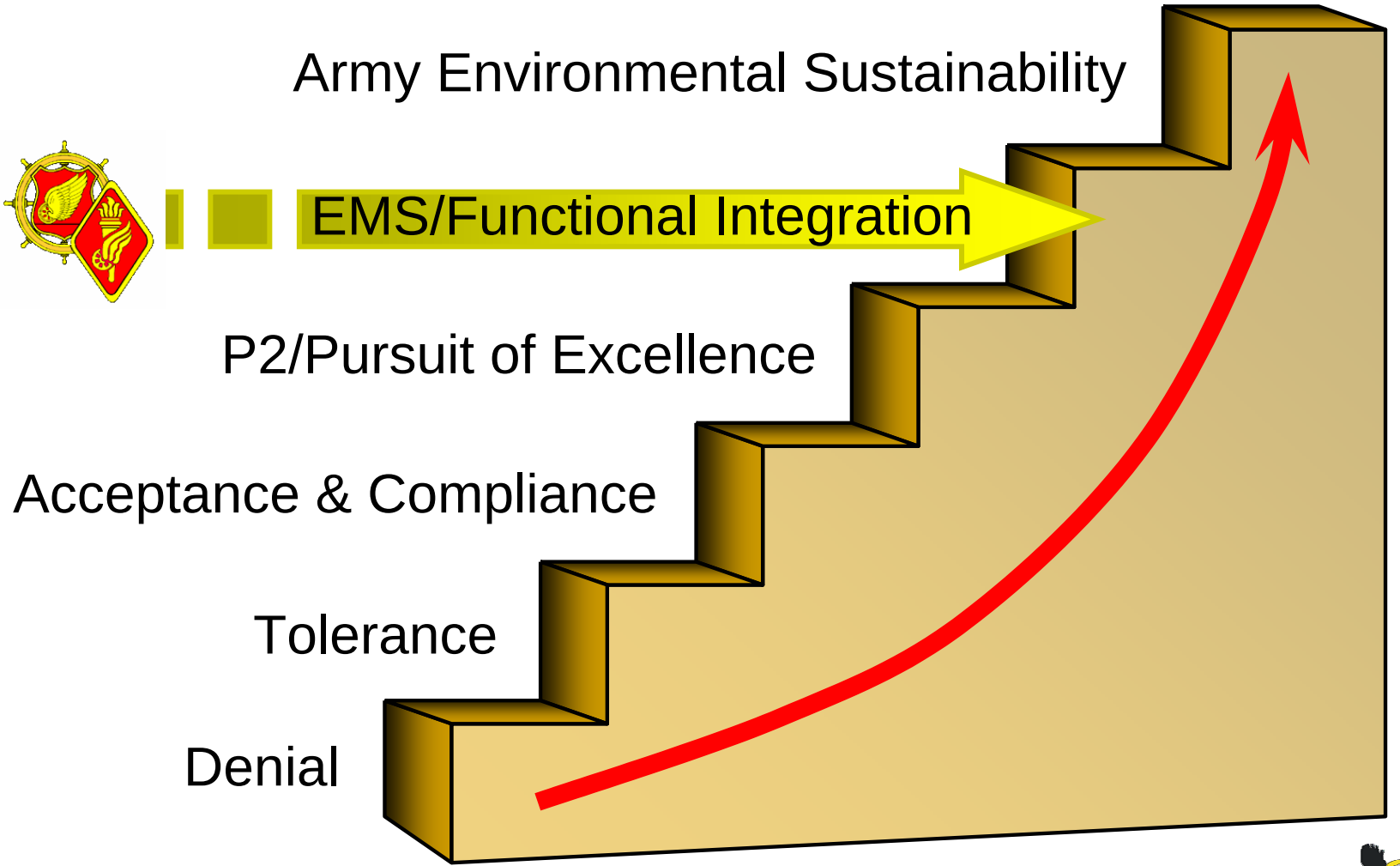
- Payroll: $497.6 M
- Major Military Construction: $144.0 M
- Utilities: $ 11.0 M
- Commissary Local Purchase: $ 26.0 M
- AAFES Local Purchases: $ 3.0 M
- NAF Local Procurement: $ 3.2 M

PRIVITIZATION INITIATIVES –
NEW STAKEHOLDERS IN THE ENVIRONMENT



- Residential Communities Initiative (RCI)
- Utilities Privatization
- Energy Savings Performance Contracts (ESPC)
- Whole Base Contracting
- Municipal Services
- Public-private Partnerships

EVOLUTION OF ENVIRONMENTAL MANAGEMENT



Adapted from ALCOA Presentation, "Our Story," Pentagon, March 2001

WHAT IS DIFFERENT ABOUT THIS APPROACH?

OLD

- Compliance Focus: Clean It Up!
- DPW-ENRD is Stakeholder
- Environmental Goals based on individual activity requirements w/o recognizing how they related to entire installation
- Environmental dollars pay for clean up and compliance

NEW

- EMS to Sustainable Installation: Integration of mission and environment
- Everyone is a Stakeholder (EMPOWERMENT)
- Environmental Goals linked to the overall sustainability of the installation
- Environmental Goals are set with the community
- Mission, BASOPs along w/environmental dollars pay for environmental components of activity's process

HOW WILL THIS APPROACH HELP ME?

- **Reduces regulatory burden**
  - VA DEQ provides more regulatory flexibility to activities with an EMS
- **Reduces O&M Costs – Possible targets**
  - Green building construction reduces energy usage costs
  - Water distribution system audits
    - Regular leak detection and repair to conserve water
  - Landscape plan by professional horticulturist
    - Selection of tree types and location to minimize potential for storm damage and other mission disruptions
- **Promotes Quality of Life**

EMS LEADS TO A SUSTAINABLE INSTALLATION

Characteristics:

- Optimizes military training
- Provides for well-being of soldiers and families
- Is life-cycle cost effective to operate
- Minimizes environmental impacts to air, water, and land
- Systematically decreases its dependence on:
  - Fossil fuels and non-biodegradable and toxic compounds

SUPPORTS IMA GOALS !

WHAT IS “SUSTAINABILITY”?

Sustainability is a ***philosophy*** **and** ***approach*** for meeting the needs of the present community without compromising the ability of future generations to meet their own needs.

ENVIRONMENTAL CHALLENGES AT FORT EUSTIS

- Water Quality and Use
- Energy Consumption
- Encroachment
- Loss of Habitat for Training
- Waste Generation
- Save Cultural Resources
- “Sick” Buildings
- Aging Infrastructure





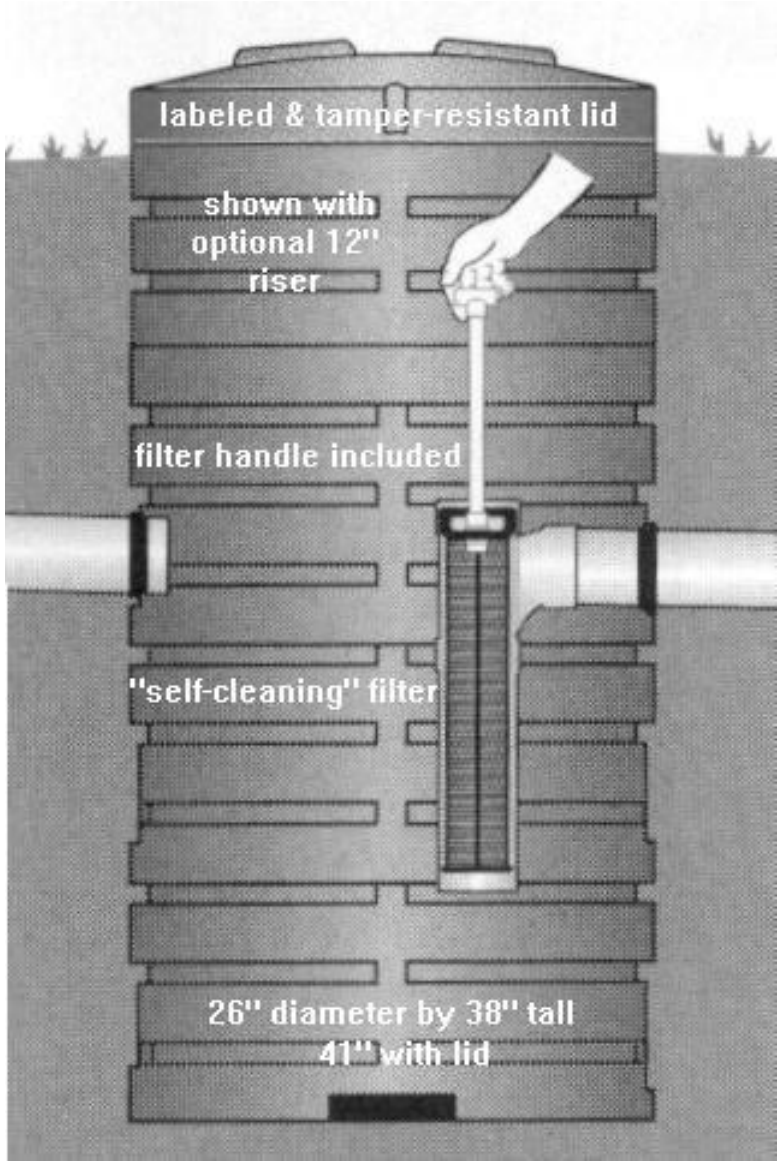


EMS At Work

Forscom Installations

Greywater Recycling

- **Fort Carson saves 100 million gallons of potable water**, by using greywater for their golf course.
- Can provide up to 70% of daily water needs of an individual residential home.
- Uses low-tech and cost-effective treatment systems, with natural bacteria and plants.

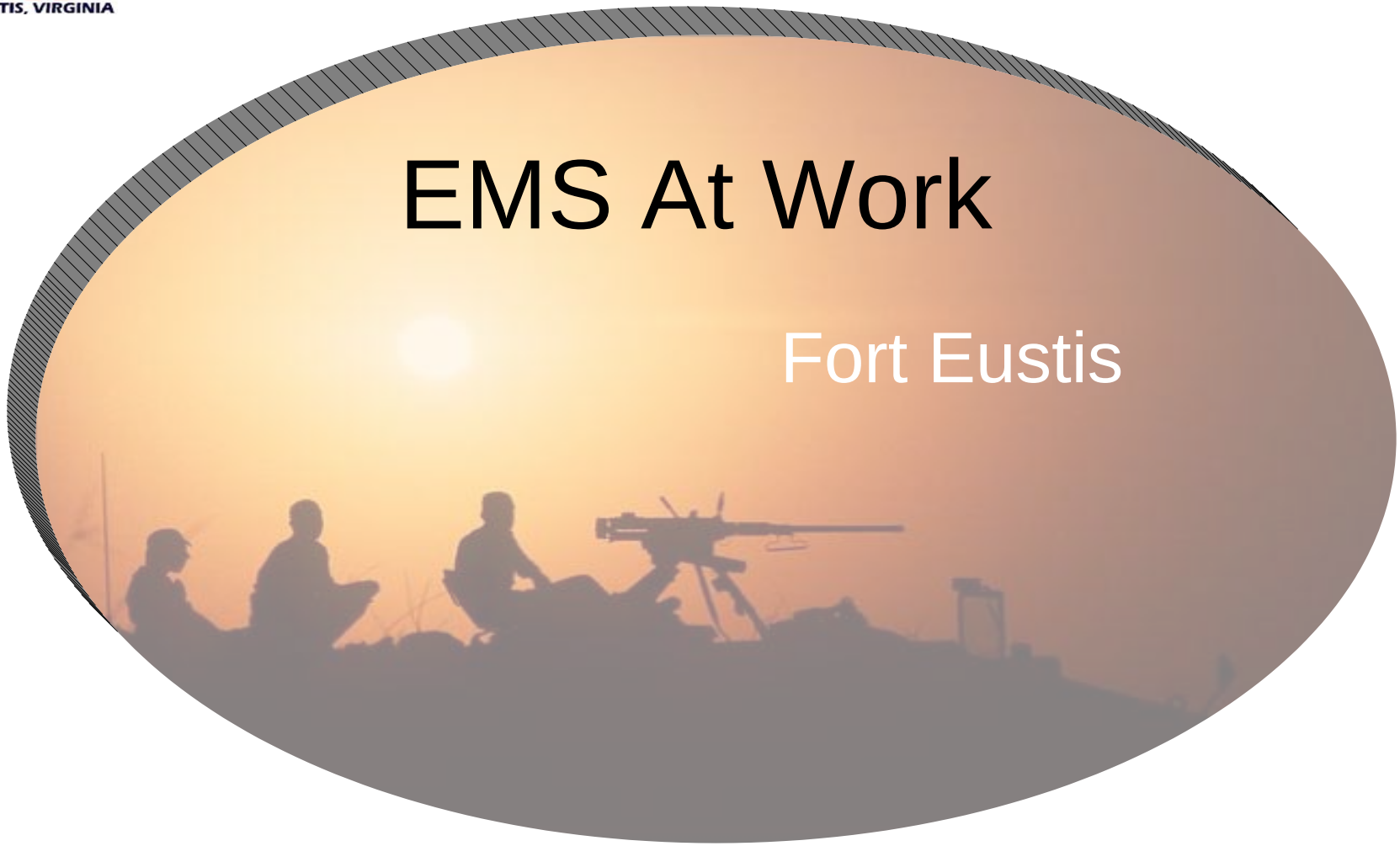


This unit examined a photovoltaic power station in a field and simulated field environment. This system, with some modifications, *can be used to provide the primary power* source for a Battalion sized Airborne Infantry Tactical Operation Center.

From Analysis of Deployable Applications of PV in Theater (ADAPT)
Steve Siegel, Dec 00

EMS At Work

Fort Eustis



EMS to SUSTAINABILITY WORKSHOPS FY 03-04

- Executive Level Overview (1.5 hrs) – 9 Dec 03
  - Participants: CG; GC Host; Commanders and Directors
- Installation Tour & Core Functional Area/Aspects Identification (1.5 days)
  - 21 & 22 Jan 04 (FE) Participants from Significant Installation and Tenant Activities: IPB Members, Mid-level Civilian Mgrs, Field Grade Military, CW3/4,E-8s/9s
- Identifying Significant Impacts (1 day) –
  - 26 Feb 04 (FE) Participants: Same as those attending Core Functional Areas session
- Goal Setting Workshop (1 day) –
  - 30 Mar 04 (FE) Participants: Same as those attending Significant Impacts session
  - GC assesses long and short term goals and makes recommendations; Technical review of goals by ENRD and prioritization by Command and EQCC
- Meetings of Cross Functional Teams (monthly) – Jun 04-outyears
  - 5-6 member teams will finalize and identify funding requirements associated with action plans
  - Provide quarterly status reports to EMS Coordinator and to EQCC