An Energy Efficiency Workshop & Exposition

Palm Springs, California

Fort Jackson
South Carolina

Tales from the Trenches

Agenda

- **Fort Jackson Overview**
- **Scope of Work**
- **Financial Summary**
- **Benefits**

Fort Jackson Overview

- **Largest and most active initial training center in the United States Army**
- **Provides training to almost 50% of the men and women that enter the service each year**
- **Encompasses more than 52,000 acres of land including:**
  - Over 50 ranges and field training sites
  - Over 1,000 buildings

Fort Jackson Overview

- **Instruction for an average of 35,000 soldiers in basic training and advanced individual training each year**
- **An additional 19,000 attend courses at the**
  - Soldier Support Institute
  - Chaplain Center and School
  - Drill Sergeant School

A City Within A City

- **Employs 3,900 civilians providing service to more than 100,000 personnel, retirees and family members**
  - 1,266 family housing units
  - Community activities center, swimming pools, bowling centers, gymnasiums, two championship golf courses, football and soccer fields , softball complex and a youth sports complex
  - Three elementary schools, two child development centers, one hospital, and a fire and ambulance service

FEMP Focus Newsletter

- **"Fort Jackson Super ESPC Project Breaks New Ground"** ***January/February 2002 Issue***
- **Largest delivery order to date under a DOE Regional Super ESPC**
- **First GHP project under regional rather than GHP-technology-specific Super ESPC**
- **"Innovative Financial Strategies Save $9 Million"**

Scope of Work

- **Ground Source Heat Pump Retrofit - Family Housing**
- **Ground Source Heat Pump Retrofit - Palmetto Lodge**
- **Ground Source Heat Pump Retrofit - Kennedy BOQ**

Scope of Work

- **De-Super Heaters (Domestic Hot Water)**
- **Lighting Upgrade**
- **Chiller Plant Upgrades - CEP#2**
- **Demand Limiting System - Family Housing & Palmetto Lodge**

Scope of Work

- **Maintenance**
  - Monitored by DukeSolutions
  - Continued with existing personnel
- **Monitoring & Verification (M&V)**

  Option A: Agreed upon baseline and savings, verified equipment performance

Financial Summary

Implementation Price	**$ 19,020,000**
Annual Energy Savings	**$ 1,367,658**
Annual M&O Savings	**$ 267,000**
Finance Term	**19 years**

Contract

Features	Benefits
Title conveys to Ft. Jackson at acceptance 19 month construction period savings used to reduce principal ($1 million) Annual debt service payments made in advance vs. arrears	Ft. Jackson is exempt from local property taxes, lowering overall cost to the post Ft. Jackson shortened contract term by three years and saved $9 million in interest charges

Program Benefits

- Improve existing building infrastructure
- Provide safer and healthier living and working conditions
- Reduce energy use and costs
- Reduce maintenance deficit and costs
- Help meet mandated energy and emissions reduction goals
- Guaranteed results

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Thank You