

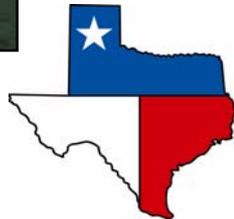
**CONDITION ASSESSMENT INFORMATION SYSTEM  
(CAIS) USERS GROUP MEETING  
November 2007**

**Site Presentation**

**Presented by:  
Steve Patterson,  
CAIS Administrator/CAS Section Manager**



# Pantex Plant



Pantex Plant, located 17 miles northeast of Amarillo, Texas, in Carson County, is charged with maintaining the safety, security and reliability of the nation's nuclear weapons stockpile. The facility is managed and operated by BWXT Pantex for the U.S. Department of Energy/National Nuclear Security Administration.

## ❑ Infrastructure

Pantex covers 16,000 acres (about 25 square miles). The DOE owns 10,000 acres and leases approximately 6,000 acres from Texas Tech University, used primarily as a safety and security buffer. About 2,000 acres are utilized for Plant operations. Pantex has about 700 buildings, including specialized facilities called Cells and Bays in which maintenance, modification, disassembly and assembly operations are conducted. The site's replacement value is about \$5.1 billion.



- Currently the Condition Assessment Survey (CAS) Group is tasked with the inspection and CAIS data entry for 626 buildings and 43 Other Structures and Facilities (OSF's)



## Building Facilities Categories

- ❑ **Production** - The production category represents 33 percent of the site's square footage with approximately 965,000 gross feet. The production category includes assembly/disassembly and applied technology buildings. The buildings in the production category vary from modern facilities designed to meet modern safety criteria, to World War II vintage structures.
- ❑ **Storage** - The storage category accounts for 24 percent, or approximately 695,000 gross feet of the site's square footage. The storage category represents buildings varying from portable waste storage buildings to weapons and nuclear material staging magazines.
- ❑ **Administrative** - The administrative category accounts for 30 percent, or approximately 870,000 gross square feet, of the site's square footage. This category includes office buildings, medical facilities, cafeterias and training facilities.
- ❑ **Support** - The support category consists of 13 percent, or approximately 370,000 gross square feet, of the site's total square footage. Connecting ramps and security facilities are included in this category.



## Status of Condition Assessments

- ❑ Overall things are going well! Two inspectors were off for extended medical leave at different times. Previous inspector cross-training helped keep us on schedule.

- ❑ **CAIS Database values as of 9/28/07**

41,036 = Total number of Inspection Units (IUs) being tracked in CAIS

\$302,553,554 = Outstanding deferred maintenance (DM)

\$418,494,613 = Non-DM amount

\$111,997,473 = Total DM that has been completed since 2003

\$721,048,167 = CAIS database value for assets being inspected

- ❑ **FY07 Inspections**

169 = Number of buildings inspected

1,131,261 = Square feet for these 169 buildings

14 = Number of OSFs inspected



## Status of Condition Assessments (cont'd)

### FY07 CAIS Data Entry

9,179 = New IUs entered

11,486 = Existing IUs updated

20,665 = Grand total of IUs edited

### FY07 Deferred Maintenance Reduction

\$14,882,135 = Total amount of DM reduction (buydown)

\$7,354,709 = Amount of DM reducing corrections (non-buydown) made to the database thanks to accurate inspection data being reported

\$22,368,844 = Total amount of DM reduced from CAIS this year thanks to DM buydown and corrections



## **FY07 CAS Group Highlights**

### **☐ DM Reduction**

- ✓ Reviewed Energy Savings Performance Contract (ESPC) data for 137 buildings resulting in \$2,295,276 DM reduction regarding interior lighting
- ✓ Reviewed 6,106 completed PassPort Work Orders (WOs) resulting in \$1,298,584 DM reduction (from 34 WO's)
- ✓ Reviewed 402 IUs improved by Site Force Work Painting (contractors) resulting in \$264,855 DM reduction
- ✓ Reviewed IUs improved by outside contract roofing repairs resulting in \$3,486,024 DM reduction
- ✓ CAS inspections verified improvements made to selected plant roads resulted in \$384,027 DM reduction



## FY07 CAS Group Highlights (cont'd)

### DM Reduction (cont'd)

- ✓ CAS inspections verified 70 DM IUs had been repaired/restored to “Good” or “Excellent” condition which resulted in \$1,421,583 DM reduction
- ✓ The D&D of facilities resulted in \$761,380 DM reduction (119 IUs )

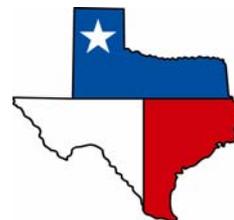
### Provide Supporting Information

- ✓ The CAS Group continues to furnish detailed CAIS reports to Facility Managers and other requesting customers such as DOE regarding the condition of CAIS assets. CAIS reports play a big part in aiding those Project Managers tasked to develop deferred maintenance projects
- ✓ Perform the Facilities Information Management System (FIMS) data upload from CAIS. Support the Ten-Year Site Plan (TYSP) update.

### Future Needs

- \* Ken Rowe to complete our “Top Fifteen” change requests!
- \* Continue to work towards more user friendly screens in CAIS web

**Special Note:** Very please with the support provided by the Energy Enterprise Solutions, LLC (EES) group



# Questions!

