

A large green decorative shape on the left side of the slide, resembling a stylized 'C' or a bracket with a rounded top and bottom. It has a white cutout in the center.

Kenneth Rowe CAIS Demonstration

FIMS Conference

A thick, dark blue horizontal bar with rounded ends, positioned below the 'FIMS Conference' text.

Memphis, TN
June 4, 2009

What Is CAIS?

- Condition Assessment Information System
- Web-based software application that connects to an Oracle database
- Written using Java, JavaScript, HTML with Cascading Style Sheets, and Ajax

Who Is Responsible for CAIS?

- Our Technical Monitor is Gary Horn from OEEM / MA-50
- Ruth Ann Smith from EES is the Project Manager
- Both CAIS and FIMS are part of the EES Software Development and Engineering Group managed by Dennis McDermitt

CAIS Staff

- Bill Fox – Database Administrator
- Ruth Ann Smith – Quality Assurance and Documentation
- Ken Rowe – Application Development

What Does CAIS Do?

- Satisfies RPAM Order 430.1B
- Uses RS Means line items and assemblies which are updated annually
- Uses DOE and industry standard models

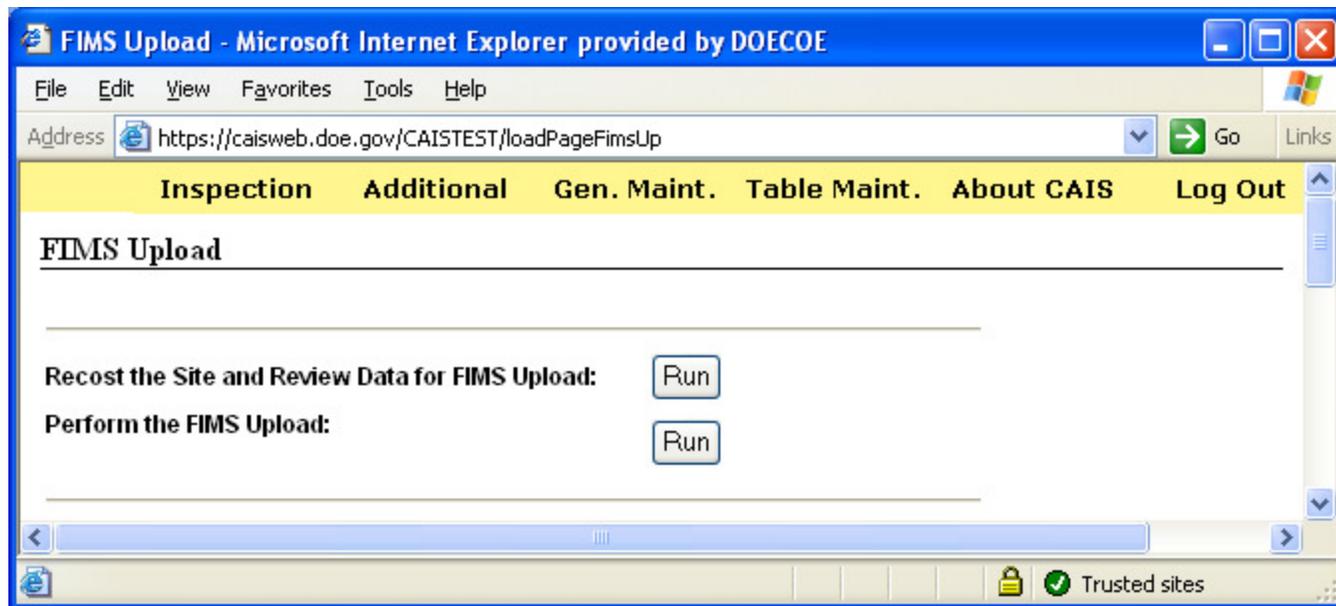
What Does CAIS Do? (cont'd)

CAIS Reports Deferred Maintenance to FIMS

- Total Deferred Maintenance dollar value
- Five worst systems in descending order
- Last Inspection Date
- Rehabilitation and Improvement Costs – for Office of Science

How Does CAIS Report DM to FIMS?

- Via an electronic interface with the touch of a button



FIMS to CAIS Automatic Update Program

- Oracle database triggers keep CAIS synchronized with FIMS
- FIMS updates CAIS when:
 - New Properties are created
 - Common field updates are made, including RPV
 - Properties are archived

CAIS Always Matches FIMS

FIMS Table	FIMS Field	CAIS Table	CAIS Field
FIMS_TBL_OSF	POSF_STRUCTURE_RPV	CAIS_SITE_ASSETS	AS_REPL_PLANT_VALUE
FIMS_TBL_BUILDING	PBLD_BUILDING_RPV	CAIS_SITE_ASSETS	AS_REPL_PLANT_VALUE
FIMS_TBL_BUILDING	PBLD_GROSS_SQFT	CAIS_SITE_ASSETS	AS_GROSS_SQFT
FIMS_TBL_BUILDING	PBLD_RPV_MODEL	CAIS_SITE_ASSETS	AS_MT_CODE
FIMS_TBL_BUILDING	PBLD_YEAR_BUILT	CAIS_SITE_ASSETS	AS_YEAR_BUILT
FIMS_TBL_PROPERTY	PROP_PROPERTY_ID	CAIS_SITE_ASSETS	AS_ID
FIMS_TBL_PROPERTY	PROP_NAME	CAIS_SITE_ASSETS	AS_NAME
FIMS_TBL_PROPERTY	PROP_PROGRAM	CAIS_SITE_ASSETS	AS_HQPO_PROGRAM_OFFICE
FIMS_TBL_PROPERTY	PROP_MISSION_ESSENTIAL	CAIS_SITE_ASSETS	AS_ESSENTIAL_PO_MSN_CODE
FIMS_TBL_PROPERTY	PROP_STATUS	CAIS_SITE_ASSETS	AS_CMST_STATUS_CODE
FIMS_TBL_PROPERTY	PROP_USAGE_CODE	CAIS_SITE_ASSETS	AS_UC_CODE

Sites Currently Using CAIS

EM	NE	FE	NNSA	Other
RL	INL	NETL	LANL	OCRWM
Paducah			LLNL	
Ports			NR	
WIPP			NTS	
SRS			Pantex	
			Y12	
			OST	
			CTF	

CAIS Inspection Unit Screen

IUDetail - 5002, 0000-0000, TELEPHONE CABLE SYSTEM | Tracking No: 2346 - Microsoft Internet Explorer provided by DOECOE

Address: http://localhost:8080/CAISTEST/loadPage

Assets | List | **Detail** | Defs | Adders | Cmtlv Adders | Baseline

IU Ret: [] [Delete] [New] [Next] [Reset] [Save] [Favorites] [Add to Favs.] [Copy] [Copy All] [Type Search]

Tracking #: 2346 Insp. ID: CAIS ADMIN Discipline: BACKLOG OF MAINT AND REPAIR

Volume: D10 / Conveying Systems WBS: Conveying.Elevators.Escalators

Component: MECH.EQUIPMENT CONTROLS+PANELS / EACH

Type: Air control, air separator, 18" diameter, excludes strainer / 232120100420

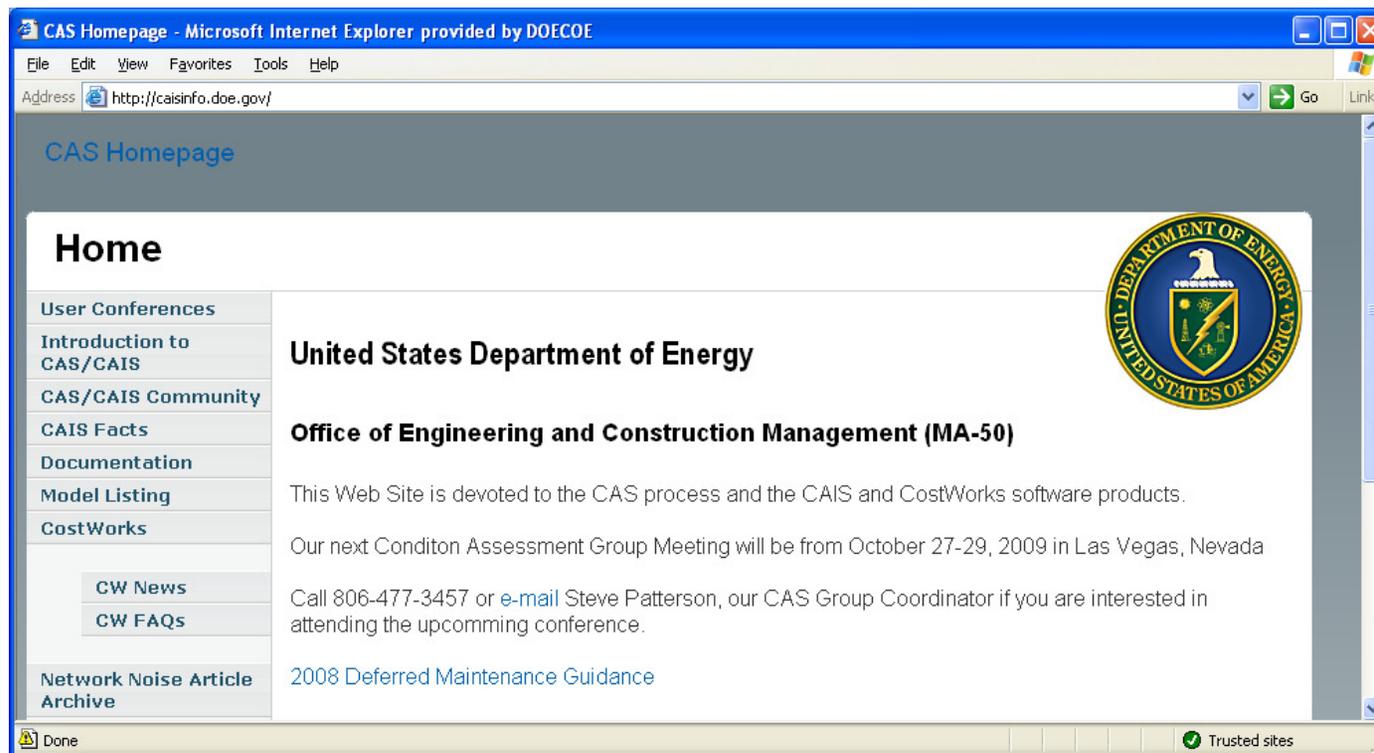
Desc: CARRIER #340000

Location: ANNEX	Loc 1: LOC ONE	Loc 2: 22
Loc 3: 33	Loc 4: 44	Loc 5: 55
Repl. Cst: \$46,817,572	Rpr. Cst: \$0	Complt. Cst: \$90,000
Oty: 888	Repl. Oty: 777	Base Cost: \$18,414,900
Official Cst: \$6,660	Est. Cst: \$6,000	Next Insp. Date: 07/18/2010
Yr Installed: 1492	Pre Repair Yrs: 40	Post Rpr Yrs: 50
Condition: EXCL <2%	Insp. Date: 08/22/2008	Creation Date: 04/24/2009 12:37:01
Urgency: REPAIR IMMEDIATELY	Last Remodeled: 12/17/1942	Last Updated: 04/27/2009 14:16:04
Site Defined: TEST	Optimum Year: 2050	
Completion Yr: 2010	Def. Maint.: No	RIC Flag: Yes
Project ID:	Last Updt By:	RIC Type: FIRE SAFETY
Service: STANDBY/SPARE	Locked Flag:	TST_NREL_ADMIN
Status: IDENTIFIED		Tracking/Work Order: 34567
Importance: MISSION ESSENTIAL		Repair Symptom: GRINDING
Access: PORTABLE LIGHT REQUIRED		Repair Task: REPLACE DAMAGED COMPONENTS
Equipment ID: 310999		Repair Cause: IMPROPER MAINTENANCE
Comment:		Repair Purpose: REPAIR

Local intranet

How Can I Learn More About CAIS?

- <http://caisinfo.doe.gov/>



Demonstration Questions/Discussion

