

Pantex – Other Structures and Facilities (OSFs)

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Presented by:

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CAIS/FIMS Administrator, CAS Manager



- At Pantex, Facilities Information Management System (FIMS) identifies our OSFs at the highest level

FIMS - Property - OSF - Microsoft Internet Explorer provided by ITM [Version 6 SP1]

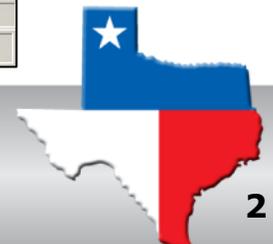
Address: <https://fims.doe.gov/newfims/common/controller.jsp?navtype=s&m=1&s=7&t=&extradata=propertyType=5>

Current Location: Pantex Site Ofc - Pantex Site Office - Pantex [Change](#)

<u>Property ID</u>	<u>Property Name</u>	<u>Owned/ Leased</u>	<u>Program Office</u>
18-002A	Leased Storage	DOE Leased	NNSA
PXAT 460	Site Prep, Grading, and Landscaping	DOE Owned	NNSA
PXAT 470-01	Misc Road, Walks, Paved Areas - MS	DOE Owned	NNSA
PXAT 470-02	Roads, Walks, Paved Areas - ME	DOE Owned	NNSA
PXAT 480	Fences and Barriers	DOE Owned	NNSA
PXAT 490	Other Improvements to Land	DOE Owned	NNSA
PXAT 501	Misc. Building Systems	DOE Owned	NNSA
PXAT 550-01	Other Structures - MS	DOE Owned	NNSA
PXAT 550-02	Other Structures - ME	DOE Owned	NNSA
PXAT 610	Voice/Data Communications	DOE Owned	NNSA
PXAT 615	Electrical Distribution	DOE Owned	NNSA
PXAT 620	Fire Alarm Systems	DOE Owned	NNSA
PXAT 625	Gas Distribution - Miscellaneous	DOE Owned	NNSA
PXAT 630	Irrigation Systems	DOE Owned	NNSA
PXAT 635	Railroad System	DOE Owned	NNSA
PXAT 640	Sewage System	DOE Owned	NNSA
PXAT 645	Steam System	DOE Owned	NNSA
PXAT 650	Water Systems	DOE Owned	NNSA

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FIMSWeb Version 1.12

*This is a partial list of Pantex's OSFs.



Several of our OSFs listed in FIMS must be broken down into more manageable Condition Assessment Survey (CAS) inspection units.

The screenshot shows the FIMS web application interface. The table below lists OSF units and their corresponding CAS inspection units:

Property ID	Property Name	Owned/ Leased	Program Office
18-002A	Leased Storage	DOE Leased	NNSA
PXAT 460	Site Prep, Grading, and Landscaping	DOE Owned	NNSA
PXAT 470-01	Misc Road, Walks, Paved Areas - MS		
PXAT 470-02	Roads, Walks, Paved Areas - ME		
PXAT 480	Fences and Barriers	DOE Owned	NNSA
PXAT 490	Other Improvements to Land	DOE Owned	NNSA
PXAT 501	Misc. Building Systems	DOE Owned	NNSA
PXAT 550-01	Other Structures - MS	DOE Owned	NNSA
PXAT 550-02	Other Structures - ME		
PXAT 610	Voice/Data Communications		
PXAT 615	Electrical Distribution	DOE Owned	NNSA
PXAT 620	Fire Alarm Systems	DOE Owned	NNSA
PXAT 625	Gas Distribution - Miscellaneous	DOE Owned	NNSA
PXAT 630	Irrigation Systems	DOE Owned	NNSA
PXAT 635	Railroad System		
PXAT 640	Sewage System		
PXAT 645	Steam System	DOE Owned	NNSA
PXAT 650	Water Systems	DOE Owned	NNSA

Arrows in the screenshot indicate the following mappings:

- PXAT 480 (Fences and Barriers) maps to PXAT 480 (Fences and Barriers)
- PXAT 615 (Electrical Distribution) maps to PXAT 615 (Electrical Distribution)
- PXAT 645 (Steam System) maps to PXAT 645 (Steam System)

It can be difficult to determine the appropriate starting and stopping points for OSFs!



Three examples of our breaking down OSF's into manageable Inspection Units are: PXAT 480 (Fences and Barriers), PXAT 615 (Electrical Distribution), and PXAT 645 (Steam Generation/Steam Distribution)

File Edit View Insert Format Tools Data Window Help											
A1 = PXAT ID											
	A	B	C	D	E	F	G	H	I	J	K
1	PXAT ID	FIMS/CAIS Asset ID #	OSF Description	Sq. Ft.	Impt	Rotation	Time it takes to inspect	Preferred Month to Inspect	Discipline		
12	480.1	PXAT 480	Denial gates and pop-up barriers		MDNC	2	3 mos		Mech		
13	480.2	PXAT 480	Fencing								
14	480.3	PXAT 480	Berms								
15	550-01.1	PXAT 550-01	Tanks Other Structures		MDNC	3	3 mos		Mech		
16	550-01.2	PXAT 550-01	Soil Vapor Extraction System		MDNC	3	"		Mech		
17	550-01.3	PXAT 550-01	Groundwater Monitoring Wells		MDNC	3	"		Mech		
18	550-02.1	PXAT 550-02	i.e., 15-024, 25, 28, 30, 31	25,949	MDNC	1	1 mo		Struc/Mech /Elec		
19	610.1	PXAT 610	Communications: Phone lines		MDNC	1	3 mos		Elec		
20	610.2	PXAT 610	PA System		MDNC	1	"		Elec		
21	610.3	PXAT 610	Special Security Systems		MDNC	1	"		Elec		
22	610.4	PXAT 610	Outdoor Warning System		MDNC	1	"		Elec		
23	610.5	PXAT 610	Network Lines		MDNC	1	"		Elec		
24	610.6	PXAT 610	RAMS		MDNC	1	"		Elec		
25	610.7	PXAT 610	Alternate Alarm Monitoring System (AAMS)		MDNC	2	"	May-July	Elec		
26	610.8	PXAT 610	ARGUS		MDNC	2	"	May-July	Elec		
27	610.9	PXAT 610	Energy Management System		MDNC	2	"	May-July	Elec		
28	610.10	PXAT 610	Static Potential Monitoring System								
29	610.11	PXAT 610	Air Monitoring Stations (Rad and Non-Rad)		MDNC	2	"	May-July	Elec		
30	615.1	PXAT 615	Electrical Distribution		MDNC	2	2 mos	Aug-Sept.	Elec		
31	615.2	PXAT 615	High mast lights		MDNC	3	"	May-July	Elec		
32	615.3	PXAT 615	Security lights		MDNC	3	"	May-July	Elec		
33	615.4	PXAT 615	Street lights		MDNC	3	"	May-July	Elec		
34	620.1	PXAT 620	Fire Alarm System		MDNC	1	1 mo		Elec		

*This is a snap shot of our Master Building and OSF spreadsheet



We use the CAIS location field 5 for our OSF PXAT ID number

Microsoft Excel - CAS Master Building List.xls

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A27 = 610.9

	A	B	C	D	E	F	G	H	I
1	PXAT ID	FIMS/CAIS Asset ID #	OSF Description	Sq. Ft.	Impt	Rotation	Time it takes to inspect	Preferred Month to Inspect	Discipline
36	630.1	PXAT 630	Irrigation						Mech
37	635.1	PXAT 635	Railroad Tracks						Struc
38	640.1	PXAT 640	Sewage System		MDNC	3	2 mos		Mech/Elec
39	645.1	PXAT 645	Steam Generation/Steam Distribution		MDNC	1	1 mo		Mech/Elec
40	645.2	PXAT 645	Condensate Return		MDNC	1	"		Mech/Elec
41	650.1	PXAT 650	ME - Water System & the HPFL		MDNC	2	2 mos		Mech/Elec
42									
43		40	Total number of OSF Inspection Units						
44									

Note: An arrow points from the 'OSF Description' cell for PXAT 645 (row 39) to the text 'PXAT 645' in the adjacent cell.



We use the Optimum Year field on ALL Inspection Units (IUs) to identify the assigned rotation for each IU.

Assets	List	Detail	Defs	Adders	Cmltv Adders	Baseline
<input type="button" value="Delete"/> <input type="button" value="New"/> <input type="button" value="Reset"/> <input type="button" value="IU Ret."/> <input type="button" value="Save"/> <input type="button" value="Favorites"/> <input type="button" value="Add to Favs."/> <input type="button" value="Copy"/> <input type="button" value="Copy All"/> <input type="button" value="Type Search"/>						
Tracking #: 53073			Insp. ID: CALVIN JONES			
Volume: G30 / Sitework Mechanical Util.			WBS: Site;Utly Dist;Heat;Boilers			
Component: MECH;PIPE FITTINGS;STEEL FLANGED, ETC. / EACH						
Type: Expansion Joints, bellows type, neoprene cover, flanged spool, 10" face to face, 6" diameter / 232120420580						
Desc: 6", SINGLE ACTING						
Location:	EXTERIOR	Loc 1:	STM GENDIST SYSTEM	Loc 2:	8237	PXAT ID #
Loc 3:	FY03	Loc 4:		Loc 5:	645.1	
Repl. Cst:	\$13,458	Rpr. Cst:	\$0	Complt. Cst:		
Qty:	5	Repl. Qty:	5	Base Cost:	\$3,675	
Official Cst:	\$13,458	Est. Cst:		Post Rpr Yrs:		
Yr Installed:	1988	Pre Repair Yrs:		Creation Date:	07/15/2003 07:07:39	Inspection Rotation
Condition:	FAIR <25%	Insp. Date:	09/17/2004	Last Updated:	08/22/2005 12:08:55	
Urgency:	REPAIR IN 1-2 YEARS	Last Remodeled:		Optimum Year:	0001	
Site Defined:	OPTIMUM YEAR 2003	Def. Maint.:	Yes	RIC Flag:	No	
Completion Yr:		RIC Type:				
Project ID:	Locked Flag:	Last Updt By:	SPATTERS	FY Baseline:		
Service:	STEAM	Tracking/Work Order:				
Status:		Repair Symptom:				
Importance:	MISSION DEPENDENT/NOT CRITICAL	Repair Task:				
Access:	Steve Patterson	Repair Cause:				
Equipment ID:	N/A	Repair Purpose:				
Comment:						

CAIS Data Main Menu - [CAIS Inspection Forms Menu : Form]

File Edit View Insert Format Records Tools Window Help

Tahoma 10 B I U

The CAS Group would like to welcome you to the Electronic Inspection Forms Menu!

Exit Inspection Form Menu

Electronic Inspection Forms Menu

Electrical

- Elec Lighting Inspection Sheet
- Elec Panel Inspection Sheet
- Elec Transformer-UPS Inspection Sheet

Blank Forms

- Blank Elec Lighting Inspection Sheet
- Blank Elec Panel Inspection Sheet
- Blank Elec Transformer Inspection Sheet
- Blank Mech Inspection Sheet
- Blank Struc Exterior Inspection Sheet
- Blank Struc Interior Inspection Sheet
- Blank Struc Roofing Inspection Sheet

Packages

- Elec Package
- Mech Package
- Struc Package
- Inspection Cover Sheet
- Point of Contact Notification
- Equipment Verification

Structural

- Structural Exterior Inspection Sheet
- Structural Interior Inspection Sheet
- Structural Roof Inspection Sheet

Mechanical

- Mech Inspection Sheet - Short Version

Other

- OSF Struc Inspection Sheet
- OSF Mech Inspection Sheet
- OSF Lighting Inspection Sheet
- OSF Elec Inspection Sheet



When clicking on an OSF Inspection sheet tab the user is automatically prompted for the PXAT # and the PXAT ID #. After these are entered the inspection sheet is opened.



OSF MECHANICAL EQUIPMENT INSPECTION SHEET

Facility #:	PXAT 646	(MECHANICAL WORK BREAKDOWN STRUCTURE) = W				Repair Task = RT
Importance:	MDNC	1. Mech;Cooling;Absorp Chillers 2. Mech;Cooling;Centrif Chillers 3. Mech;Cooling;Screw Chillers 4. Mech;Cooling;Chemical Treatment 5. Mech;Cooling;Chilled Water Distrib 6. Mech;Cooling;Condenser WaterSys 7. Mech;Cooling;Condensers 8. Mech;Cooling;Cooling Towers 9. Mech;Cooling;PackagedCondensing 10. Mech;Cooling;Packaged HVAC	11. Mech;Cooling;Pack, Recip Chillers 12. Mech;Cooling;Refrig Compressors 13. Mech;Cooling;Terminal Units 14. Mech;Heat+Vent;Air Handlers+Fans 15. Mech;Heat+Vent;Boilers 16. Mech;Heat+Vent;Chemical Treatment 17. Mech;Heat+Vent;Ductwork 18. Mech;Heat+Vent;Fuel Oil 19. Mech;Heat+Vent;Heating Hot WaterDistr 20. Mech;Heat+Vent;Hot Air Furnaces 21. Mech;Heat+Vent;Stdistr,Cond, Return	22. Mech;Heat+Vent;Terminal Units 23. Mech;Plumbing;Compressed Air 24. Mech;Plumbing;Domestic Water 25. Mech;Plumbing;Drain,Waste,Vent 26. Mech;Plumbing;Natural Gas 27. Mech;Plumbing;Vacuum 28. Mech;Spec. Sys;Drinking Water Sys 29. Mech;Fire Prot;Dry Pipe 30. Mech;Fire Prot;Wet Pipe	1. Replacement 2. Repair/Restore 3. Repaint 4. Clean 5. Review	
Fac. Name:	STEAM GENERATION AND DISTRIBUTION SYSTEMS - ME				Condition = C	
C-Date / Age:	/				1. Excellent 2. Good 3. Adequate 4. Fair 5. Poor 6. Fail	
Survey Date:						
Last Inspection Performed by:	JONES, CALVIN					
					Purpose Code = P Urgency to Repair/Replace = U	

IU #	Equip No	Stat	Qty	Unit	Location Description/Rm #	Manuf., Model Number, Unit Size/Capacity, etc.	Deficiency Info					Yr Inst	OPT Yr	Equip Age	Cost Adders	
							W	C	RT	P	U					
71905	6809041	R	1	EACH	INTERIOR , 16-13, STM GEN/DIST	ABB CONTROL SYS W/HARMONY RACK	15	1			5	2005	2020	2		
COMMENTS: Currently Deferred: N RS Means Est Cost: \$1,834,898 REPLACED BAILEY NETWORK 30 BOILER CNTRL SYS END OF FY05. USES HARMONY RACK CONTROLLERS. KELLY DAVIS PROVIDED COST ESTIMATE AND LIFE CYCLE DATA.							WBS, Type (as it is in CAIS currently): Site; Utility Dist; Heat; Boilers Control Components, electronic system, misc. components, sequencing network					645.1				
60495		R	2	EACH	INTERIOR , 16-13, STM GEN/DIST	VALVES, NON-RETURN, 4", DAVIS "Y" TYPE	21	1			5	2004	2019	3		
COMMENTS: Currently Deferred: N RS Means Est Cost: \$5,413 THESE VALVES REPLACED IN 2004 ON #29198651.							WBS, Type (as it is in CAIS currently): Site; Utility Dist; Heat; Steam Dist+Condstate Valves, iron body, gate, OS&Y, flanged, 125 lb., 4"					645.1				
60496		R	2	EACH	INTERIOR , 16-13, STM GEN/DIST	VALVES, NON-RETURN, 6", DAVIS "Y" TYPE	21	1			5	2004	2019	3		
COMMENTS: Currently Deferred: N RS Means Est Cost: \$8,884 STOP CHECK OR BQV. THESE VALVES REPLACED IN 2004 ON #29198651.							WBS, Type (as it is in CAIS currently): Site; Utility Dist; Heat; Steam Dist+Condstate Valves, iron body, gate, OS&Y, flanged, 125 lb., 6"					645.1				
53021	?		2	EACH	INTERIOR , 16-13, STM GEN/DIST	AIR DRYER, 109 CFM, INSTRUMENT	23	4			3	1988	2008	19		
COMMENTS: Currently Deferred: N RS Means Est Cost: \$16,075							WBS, Type (as it is in CAIS currently): Mech; Plumbing; Compressed Air COMPRESSOR ACCESSORIES, DRYERS, AIR, DELIQUESCENT AT 90 PSI, 140 CFM					645.1				



The Maintenance Division would like to welcome you to the CAIS informational database!

Exit CAIS Data Main Menu

CAIS Data Main Menu

RTBF Program Reports

Indicators Menu

Validation Menu

Inspection Forms Menu

Deferred Maint. Review/Misc Menu

Projects Menu

[CAIS Web Based Database](#)

RSM New Number Lookup

Clicking on the Deferred Maint. Review/Misc Reports Menu tab allows the user to select the OSF Report where they are prompted for the PXAT # and the PXAT ID #. After these are entered the OSF Report appears.



In Summary

- ❑ The OSF PXAT ID numbering system allows us to more easily retrieve select data from CAIS for project formulation.
- ❑ The CAIS DM exports to FIMS are in no way affected by this process.
- ❑ Using the PXAT ID numbering system better equips us to perform CAS inspections on large OSFs in a timely and effective manner.
- ❑ B&W Pantex is proud of its ability to readily track, retrieve, and report OSF data with confidence and accuracy to support our many customer requirements!

Questions!

