FY2023 PROGRAM OVERVIEW Office of Asset Management

CAS/CAIS Annual Meeting October 24-25, 2023

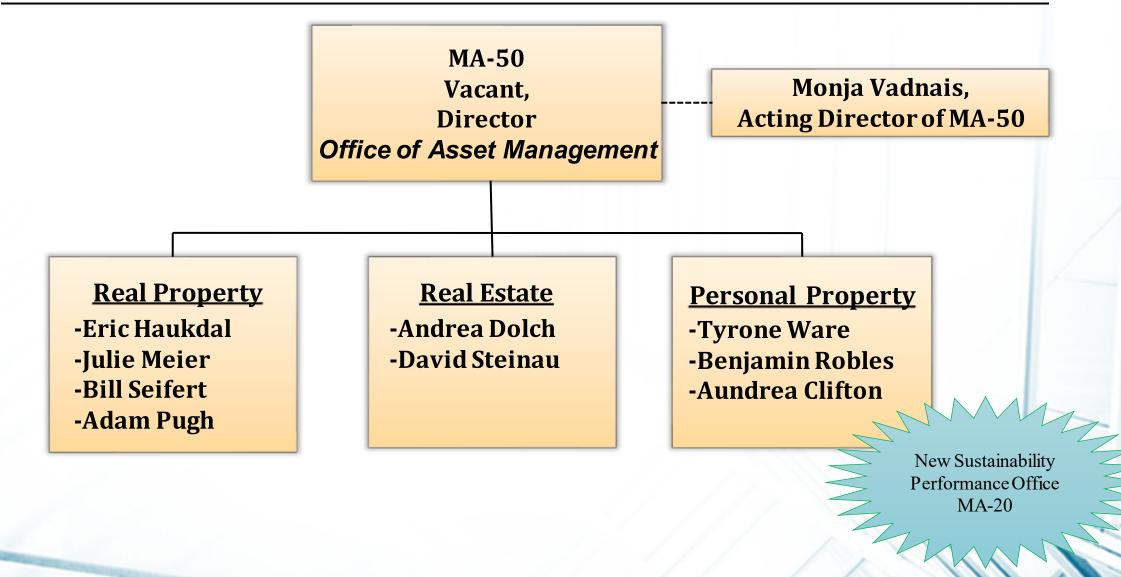
Prepared by: Adam Pugh

DISCUSSION POINTS

- Office of Asset Management Organizational Chart
- FY23 Repair Needs and Deferred Maintenance
- Bridge Validation Observations
- Functionality Assessment Tool
- FIMS_CAIS Helpdesk
- Meeting Highlights



Asset Management Organization





FY23 Repair Needs & Deferred Maint.

- Repair Needs are reported to the Federal Real Property Program.
 - FY23 total is \$19.416 billion, an increase of \$0.992 billion (or 5.38%)

\$ Millions	FY22 Active	FY23 Active	%(+/-)
Building	\$9,354	\$8,740	-6.56
Structures	\$6,657	\$8,599	+29.17
Total	\$16,011	\$17,339	+8.29

\$ Millions	FY22 Inactive	FY23 Inactive	%(+/-)
Building	\$2,213	\$1,710	-22.7
Structures	\$200	\$367	+83.5
Total	\$2,413	\$2,077	-13.92



FY23 Repair Needs & Deferred Maint.

- Deferred Maintenance is reported to the DOE Chief Financial Officer.
 - FY23 total is \$12.203 billion, an increase of \$1.466 billion (or 13.3%)

\$ Millions	FY22 Active	FY23 Active	%(+/-)
Building	\$6,063	\$6,476	+6.81%
Structures	\$3,326	\$4,463	+34.19%
Total	\$9,389	\$10,939	+16.51%

\$ Millions	FY22 Inactive	FY23 Inactive	%(+/-)
Building	\$1,223	\$1,049	-14.22%
Structures	\$115	\$193	+67.83%
Total	\$1,338	\$1,242	-7.17%













- Sites need to ensure that all inspections have been completed and are within the inspection cycle.
- Sites may not be required to validate all bridges and culverts but are required to conduct verification of assets in the walkthrough portion of the validation.
- Sites should assume all inspections for bridges are required and reach out to MA-50 if they believe an exception applies.
 - For example, a Seismic Vulnerability Evaluation is still required even in a low seismic zone.

5. D		nent of Energy	ORDER
	Washin	igton, DC	DOE O 437.1
			Approved: 12-11-202
JECI	BRID	E AND TUNNEL MANAGEMENT	
Encor	ergy (DO	Ensure the safety, function, and efficient ma E) bridges, culverts, and tunnels in support of ive inspections and evaluations using resource in compliance with the governing laws and r	of DOE missions through regular. ces in an effective and efficient
CA	NCELS/	SUPERSEDES, None.	
AP	PLICAB	LITY.	
а,	Depa	rtmental Applicability.	
	(1)	This Order applies to all DOE elements w tunnels, or culverts where DOE has a legg property except for the exemptions identii requirements supplement those of DOE O Management, current version.	al interest or right to use such fied in paragraph 3.c. The
	(2)	The Administrator of the National Nuclea (NNSA) must assure that NNSA employe responsibilities under this directive. Noth construed to interfere with the NNSA Adi Section 3212(d) of Public Law 106 – 65 v Administration-specific policies, unless d	res comply with their ing in this directive will be ministrator's authority under o establish
b.	Cont requi CRD open	Contractors: Except for the equivalencies/e ractor Requirements Document (CRD), Atta rements of this Order that will apply to cont or its requirements must be included in con tion of DOE strikes or facilities that include b property asset inventory.	chment I, sets forth racts that include the CRD. The tracts for the management or
c.	to thi Direc	valencies and Exemptions for DOE O.437.], is Order are processed in accordance with D ctives Program, current version. Attachment valent requirements. The accountable Progra	OE O 251.1, Departmental 2 establishes the basis for

23 CFR Part 160, Subpart E – National Tannel Inspection Star 213, Federal Railroad Administration Bridge Sofery Standards Subpart D, Determination of Bridge Load Capacities.	dards: Code of Federal Regulations 49 CFR Part
AVAILABLE ONLINE AT:	INITIATED BY:



Program Office:			Site:		
			Area:		
BRIDGE ASSET 1					
Area No / Prop ID / Name					
FIMS Data Element	FIMS Value	Source	Year of Source	Value from Source	Variance (Y/N)
Routine Inspection Date					No
Routine Inspection Frequency					No
Speical Inspection Date					No
Special Inspection Frequency					No
Underwater Inspection Date					No
Underwater Inspection Frequency					No
Posted Load Rating/Restrictions					No
Load Rating Date					No
Scour Evaluation					No
Scour Critical Plan of Action					No
Seismic Vulnerability Evaluation					No
Traffic Volume Date					No
No of Lanes on Structure					No
Size					No
Status					No
Usage Code					No
Year Built					No
ADDITIONAL COMMENTS			- //		
NBI Number					
Size Unit of Measure					
Location (City, State and Zip)					8



Area Name	Property ID	Property Name	Status	Usage Description Notes
3	601001	RR BRIDGE ON LINE M UPPER 3 RUNS CREEK	Shutdown	1469 Controlled Access Bridge (Railroad)
3	601002	CULVERT UNDER PLANT RR (P-AREA CANAL)	Operating	1469 Controlled Access Bridge (Railroad)
3	603001	BRIDGE, UPPER THREE RUNS CREEK ROAD C	Operating	1769 Controlled Access Bridge (Vehicular)
3	603002	BRIDGE, FOUR MILE CREEK - ROAD C	Operating	1769 Controlled Access Bridge (Vehicular)
3	603003	BRIDGE, UPPER THREE RUNS CREEK, ROAD F	Operating	1769 Controlled Access Bridge (Vehicular)
3	603004	BRIDGE, FOUR MILE CREEK ROAD 4 (603004G)	Operating	1769 Controlled Access Bridge (Vehicular)
3	603005	BRIDGE, FOUR MILE CREEK - ROAD A-12.2	Shutdown	1769 Controlled Access Bridge (Vehicular)
3	603006	BRIDGE, PEN BRANCH - ROAD A-13 (603006G)	Operating	1769 Controlled Access Bridge (Vehicular)
3	603008	BRIDGE, FOUR MILE CREEK-RD3 (4-32" RCCP"	Operating	1769 Controlled Access Bridge (Vehicular)
3	603010	CULVERT, RD A-17 (3-36 INCH, 2-8 INCH CM	Operating	2629 Culvert
3	603011	BRIDGE, BRANCH OF FOUR MILE CREEK-ROAD 3	Operating	1769 Controlled Access Bridge (Vehicular)
3	603012	CULVERT, E OF GATE 21-RD-B-6.4 (603012G)	Operating	2629 Culvert
3	603013	BRIDGE, TINKER CREEK - ROAD 8-1	Operating	1769 Controlled Access Bridge (Vehicular)
3	603014	BRIDGE, UPPER THREE RUNS CREEK-ROAD 8-1	Operating	1769 Controlled Access Bridge (Vehicular)
3	603015	BRIDGE, UPPER THREE RUNS CREEK-ROAD 2-1	Operating	1769 Controlled Access Bridge (Vehicular)
3	603016	BRIDGE, MEYERS BRANCH - ROAD 9 (603016G)	Operating	1769 Controlled Access Bridge (Vehicular)
3	603021	CULVERT, PEN BRANCH - RD F(72 INCH RCCP)	Operating	2629 Culvert
3	603029	BOX CULVERT, STEEL CRK - ROAD B (3-8X8)	Operating	1769 Controlled Access Bridge (Vehicular)
3	603031	BRIDGE, PEN BRANCH-RD B(2-10'X10')	Operating	1769 Controlled Access Bridge (Ver
3	603032	BOX CULVERT, INDIAN GROVE BRANCH RD B	Operating	2629 Culvert
3	603034	CULVERT, BRINKLEY ROAD, CRACKERNECK	Operating	2629 Culvert
3	603035	CULVERT, RD A-1 2 NEAR PLT BOUNDARY	Operating	2629 Culvert
3	603039	BRIDGE, TINKER CREEK - ROAD 2-1	Operating	1769 Controlled Access Bridge (Ver
3	603041	BRIDGE & SPILLWAY, KENNEDY'S POND-RD 8-11	Standby	1769 Controlled Access Bridge (V
3	603042	BRIDGE, RD2 BTWN D & D-1 (3) 10'X10	Operating	1769 Controlled Access Bridge (Vehic, ar)



Functionality Assessment Tools

- FIMS User's Guide: Appendix G, Frequently Discussed Topics.
 - Difference Between Condition and Functionality and How Does It Apply to Conducting the Respective Assessments. (Continuation)

When conducting a functional assessment, the assessment team will consider whether the asset is lacking any specific mission capabilities or features. During the functional assessment, it may help to imagine that the asset has no physical deficiencies, and the asset is in perfect working order (has no repair needs). The functional assessment will identify what is missing that is keeping the asset from fully supporting its mission requirements (or from doing so in a practical, efficient, or safe manner). The estimated cost to perform these functional upgrades represents the asset's Modernization Costs.

Also Note: the FIMS data element "Overall Asset Condition" actually takes into account the results of both the condition assessment and the functional assessment. Overall Asset Condition considers how all condition and functional deficiencies may affect the performance of the asset (as well as other portfolio level real property factors such as relative mission dependency and risk tolerance). Refer to the Data Element Dictionary for detailed guidance on managing this data element.

Functionality Assessment Tools

		Functionality Assessme
Property ID:		
Property Name:		
Asset Type:		
Property Type:		
	Meets M	lission Requirements
	Yes	No
Examples:		
Quality	Comments - What is needed to meet	t Mission Requirements? / Has Mission Changed?
Requirements i.e.: Decentralizing a 15yr. old steam system to save energy Capacity Requirements i.e.: Adding a garage to accommodate larger equipment Efficiency Requirements i.e.: Reliability Requirements i.e.: Installing a second feeder on a site to improve System reliability Improved Safety Requirements i.e.: Adding a generator backup to badqing system		
Interviewer:	nt:	
Personnel Intervie		
Date of Next FA:		
Real Property Asset Manager:		inature
	Date	

- Functionality
 Assessment Template
 developed by an EM
 Oak Ridge Site.
- Link to Temple: <u>https://fims.doe.gov/c</u> <u>aisinfo/Documents/Fu</u> <u>nc_Assessment_Form</u> <u>.docx</u>



FIMS and CAIS Help Desk

- FIMS/CAIS technical assistance can be obtained from one of the following resources
 - Email the FIMS/CAIS Help Desk at fims cais help@hq.doe.gov
- Call the FIMS/CAIS Hotline at (202) 287-1397 Number

New



CAS/CAIS Meeting Highlights

- Solar Panel Maintenance and Inspections
- Total Cost of Ownership
- Dam Inspections
- Drone Technology for Inspections
- Overview of Hanford's Condition Assessment Program
- Overview of Kansas City's Real Property
- Inspection Methodologies and RS Means Insights

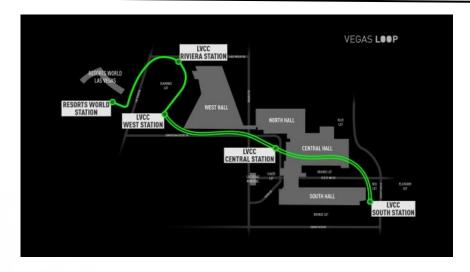
QUESTIONS



Adam Pugh Department of Energy Office of Asset Management adam.pugh@hq.doe.gov (301) 820-2455



Backup-Tour Information







Meet up location: Las Vegas Convention Center West Hall out site the main entrance.

Time: 8:30am

Address: 300 Convention Center Dr, Las Vegas, Nv 89109 **Note:** wear comfortable shoes for walking