U. S. Department of Energy Facilities Information Management System Request for Change

Change Request #: 21-04

Requestor Name:	Cindy Hunt	Date:	1/11/2021	Affiliation:	
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Program Office:	Office of Asset Management (MA-50)			Contractor	
Proposed Change:	Revise the applicability and defin	itions of <u>exis</u> t	ting data eleme	ents as well a	S
	the definition of existing Usage C	odes applical	ole to bridges,	tunnels, and	
	culverts necessary to support imp			<u>1, Bridge and</u>	<u>1</u>
	<u>Tunnel Management</u> issued Dece	ember 11,202	0 (the Order).		
	The attachment details for the following proposed revisions-				
	1. Revise Applicability for the following 7 Data Elements: No of Lanes			;	
	on Structure, Safety Inspection Date, Safety Inspection Frequency,				
	Special Inspection Date, Special Inspection Frequency, Underwater			r	
	Inspection Date, Underwater Inspection Frequency				
	 Revise the <u>Definition</u> of the following 2 <u>Data Elements</u>: Safety Inspection Date, Safety Inspection Frequency 				
	3. Revise the Definition of the following 7 Usage Codes: 1168 PUBLIC				
	ACCESS BRIDGE (WALKING), 1169 CONTROLLED ACCESS BRIDGE				
	(WALKING), 1468 PUBLIC ACCESS BRIDGE (TRAINS), 1469				
	CONTROLLED ACCESS BRIDGE (TRAINS), 1768 PUBLIC ACCESS				
	BRIDGE (VEHICULAR), 1769 CONTROLLED ACCESS BRIDGE				
	(VEHICULAR), 2629 CULVERT.				
	4. Revise the <u>Name</u> of the fo ACCESS BRIDGE (WALKING				
	(WALKING), 1468 PUBLIC	• •			
	CONTROLLED ACCESS BRI		` ''		
	, " " " " " " " " " " " " " " " " " " "				
	Include the following usas	-		•	
	Bridge Safety Inspection F	•	1169, 1171, 14	168, 1469,	
	1471, 1768, 1769, 1771, 1	1772, 2629			

U. S. Department of Energy Facilities Information Management System Request for Change Change Request #: 21-04

Justification:	Updating FIMS data elements and requirements to include a minimum number of new data elements leverages the Department's corporate real property inventory system to- • integrate requirements for bridge and tunnel management with existing operating and management procedures for real property, • monitor requirement fulfillment, • ensure that information and data supporting the Department's external reporting or implementation of bridge and tunnel management requirements is validated and timely, and • institutionalize data reporting, data tracking, and records management on a commonly accessible system. Background: Requirements of DOE O 437.1 apply to- • vehicle bridges both public and controlled-access, railroad bridges, pedestrian bridges including elevated covered walkways, culverts assigned Usage Code 2629 in the Facilities Information Management System (FIMS), and vehicle tunnels. • all DOE elements except for the Deputy Administrator for Naval Reactors, the Federal Energy Regulatory Commission, and the Power Marketing Administrations.
FAC Remarks:	Please Do Not Type Below This Line 02/16/2021 – The FAC gave a conditional recommendation to proceed provided the change request was sent out to all Sites for review and comment. 03/10/2021 – Change Request feedback was received by MA-50. No comments were received on the scope of the changes proposed. Per FAC request, MA-50 revised the change request to include Update Frequency for each new data element or revised data element. Therefore, in accordance with the FAC's last action, the proposed changes are FAC recommended.
OAM Remarks:	
FDDC Remarks:	06/24/2021 – FDDC Approved
Implemented:	08/03/2021 – Implemented into FIMS 3.21

1. Revise **Applicability** for the following Data Elements:

Data Element Name	From:	То:
No of Lanes on Structure	Required for DOE Owned OSF's with Usage Code 1768 (Public Access Bridges, Vehicular) and 1769 (Controlled Access Bridges, Vehicular)	Required for OSF's (all Ownerships) with Usage Code 1768, 1769, and 2629
Safety Inspection Date	Required for DOE Owned OSF where the Usage Code is 1468, 1469, 1768 Optionally used for DOE Owned OSF inspected to the standards stated in the definition where the Usage Code is 1168, 1169, 1769, 2629 Optional for OSF's (all Ownerships) where the Usage Code is 1171 or 1471	Required for OSF's (all Ownerships) where the Usage Code is 1168, 1169, 1468, 1469, 1768, 1769, 1771, 1772, and 2629
Safety Inspection Frequency	Required for DOE Owned OSF where the Usage Code is 1468, 1469, 1768 Optionally used for DOE Owned OSF inspected to the standards stated in the definition where the Usage Code is 1168, 1169, 1769, 2629 Optional for OSF's (all Ownerships) where the Usage Code is 1171 or 1471	Required for OSF's (all Ownerships) where the Usage Code is 1168, 1169, 1468, 1469, 1768, 1769, 1771, 1772, and 2629
Special Inspection Date	Required for DOE Owned OSF where the Usage Code is 1468, 1469, 1768 Optionally used for DOE Owned OSF inspected to the standards stated in the definition where the Usage Code is 1168, 1169, 1769, 2629 Optional for OSF's (all Ownerships) where the Usage Code is 1171 or 1471	Required for OSF's (all Ownerships) where the Usage Code is 1168, 1169, 1468, 1469, 1768, 1769, 1771, 1772, and 2629

Special Inspection Frequency	Required for DOE Owned OSF where the Usage Code is 1468, 1469, 1768 Optionally used for DOE Owned OSF inspected to the standards stated in the definition where the Usage Code is 1168, 1169, 1769, 2629	Required for OSF's (all Ownerships) where the Usage Code is 1168, 1169, 1468, 1469, 1768, 1769, 1771, 1772, and 2629
	Optional for OSF's (all Ownerships) where the Usage Code is 1171 or 1471	
Underwater Inspection Date	Required for DOE Owned OSF where the Usage Code is 1468, 1469, 1768 Optionally used for DOE Owned OSF inspected to the standards stated in the definition where the Usage Code is 1168, 1169, 1769, 2629	Required for OSF's (all Ownerships) where the Usage Code is 1168, 1169, 1468, 1469, 1768, 1769, and 2629
Underwater Inspection Frequency	Required for DOE Owned OSF where the Usage Code is 1468, 1469, 1768 Optionally used for DOE Owned OSF inspected to the standards stated in the definition where the Usage Code is 1168, 1169, 1769, 2629	Required for OSF's (all Ownerships) where the Usage Code is 1168, 1169, 1468, 1469, 1768, 1769, and 2629

2. Revise the **Definition** of the following **Data Element**:

From:	То:
Safety Inspection Date	Routine Inspection Date
The date of the most recent safety inspection	The date of the most recent Routine Inspection
conducted in accordance with designated	conducted in accordance with DOE O 437.1,
inspection standards.	Bridge and Tunnel Management, or documented
a) Required reporting – inspection standard and	PSO-established equivalencies.
frequency:	
a. 1468 – Public Access Bridge (Trains) and	The Routine Inspection Date field must be
1469 – Controlled Access Bridge (Trains),	changed to represent the most current inspection
with Status = Operating, Standby or	date within thirty (30) days of inspection
Outgranted	completion.
i. 49 CFR Part 237	
ii. One inspection per calendar year,	

From:	То:
iii. Public access vehicle bridges with a Structure Length of more than 20 feet (6.1 meter) are included in the National Bridge Inventory (NBI) regardless of operational Status For required inspections, the Safety Inspection Date field must be changed to represent the	POC for bridge, tunnel, and culvert safety inspection policy: Cindy Hunt, 202-586-4539, Cindy.Hunt@hq.doe.gov Update Frequency: concurrent with each routine inspection (see Routine Inspection Frequency data field)
most current inspection date within thirty (30) days of inspection completion. b. 1768 – Public Access Bridge (Vehicular), regardless of Status i. 23 CFR 650 ii. Regular intervals not to exceed twentyfour (24) months iii. Public access vehicle bridges with a Structure Length of more than 20 feet (6.1 meter) are included in the National Bridge Inventory (NBI) regardless of operational Status	
For required inspections, the Safety Inspection Date field must be changed to represent the most current inspection date within thirty (30) days of inspection completion.	
b) Optional reporting – inspection standard and frequency: a. 1168 – Public Access Bridge (Walking) and 1169 – Controlled Access Bridge (Walking), Includes elevated walkways i. A customized inspection plan based on American Association of State Highway and Transportation Officials (AASHTO) MBE-1, Manual for Bridge Evaluation ii. Regular intervals not to exceed twenty-four (24) months	
 b. 1769 – Controlled Access Bridge (Vehicular) i. 23 CFR 650 ii. Regular intervals not to exceed twenty-four (24) months c. 2629 – Culverts 	
= 0 = 0 di i ci to	<u>l</u>

From:	То:
i. FHWA-IP-86-2, Culvert Inspection	
Manual	
ii. Regular intervals not to exceed twenty- four (24) months	
1001 (24) 1110111115	
For optional reporting, record the Safety	
Inspection Date only if inspection was in	
compliance with designated standard. Leave the	
date blank when designated inspection standards	
are not used.	
POC for Safety Inspection Policy: Cindy Hunt, 202-	
586-4539, Cindy.Hunt@hq.doe.gov	
Safety Inspection Frequency	Routine Inspection Frequency
The number of months between routine	The number of months between routine
inspections.	inspections.
	The Safety Inspection Frequency field must be changed to represent the most current inspection interval within thirty (30) days of new determination.
	Enter '0' for an asset in "Shutdown" status if no longer inspected IAW DOE O 437.1, Bridge and Tunnel Management.
	Enter 'X' for assets with a documented, PSO-established exemption.
	Update Frequency : As needed. Confirm no change concurrent with each routine inspection.

3. Revise the **Definition** of the following **Usage Codes**:

From:	То:
1168 PUBLIC ACCESS BRIDGE (WALKING)	1168 PUBLIC ACCESS BRIDGE (PEDESTRIAN)
A bridge used exclusively for walking. A	A structure that carries primarily pedestrian,
traveler could traverse the bridge without	bicycle, and equestrian traffic but may
ever passing thru a staffed entry point or	include light maintenance vehicles over a
presenting identification. This includes	chasm, waterway, ditch, or other obstacle or
elevated walkways, pedestrian footbridges	convey pedestrian traffic from one building
(enclosed or not) that connect buildings. This	or structure to another including enclosed
category does not include vehicular bridges	walkways. A traveler could traverse the

From:	То:
that have sidewalks; bridges used by both	bridge without ever passing thru a staffed
vehicles and pedestrians should be counted	entry point or presenting identification. This
in the vehicular category.	includes-
,	elevated walkways, pedestrian
	footbridges (enclosed or not) that
	connect buildings.
	, and the second
	It does not include-
	 work or machinery platforms,
	stairways, platforms, boardwalks, or
	docks or similar type structures;
	 vehicular bridges that have
	sidewalks. Bridges used by both
	vehicles and pedestrians should be
	counted in the vehicular category.
1169 CONTROLLED ACCESS BRIDGE	1169 CONTROLLED ACCESS BRIDGE
(WALKING)	(PEDESTRIAN)
A bridge used exclusively for walking. A	A structure that carries primarily pedestrian,
traveler must pass through a staffed entry	bicycle, and equestrian traffic but may
point and present proper identification to	include light maintenance vehicles over a
traverse this bridge. This includes elevated	chasm, waterway, ditch, or other obstacle or
walkways, pedestrian footbridges (enclosed	convey pedestrian traffic from one building
or not) that connect buildings. This category	or structure to another including enclosed
does not include vehicular bridges that have	walkways. A traveler must pass through a
sidewalks; bridges used by both vehicles and pedestrians should be counted in the	staffed entry point and present proper identification to traverse this bridge. This
vehicular category.	includes-
vernicular category.	elevated walkways, pedestrian
	footbridges (enclosed or not) that
	connect buildings.
	connect buildings.
	It does not include-
	 work or machinery platforms,
	stairways, platforms, boardwalks, or
	docks or similar type structures;
	 vehicular bridges that have
	sidewalks. Bridges used by both
	vehicles and pedestrians should be
	counted in the vehicular category.
1468 PUBLIC ACCESS BRIDGE (TRAINS)	1468 PUBLIC ACCESS BRIDGE (RAILROAD)
A structure including supports erected over a	Any structure with a deck, regardless of
depression or an obstruction, such as water,	length, which supports one or more railroad
highway, or railway, and having a track for	tracks, OR any other undergrade structure
carrying moving loads and used exclusively by	with an individual span length of 10 feet or
trains. A traveler could traverse the bridge	more located at such a depth that it is

From:	То:
without ever passing thru a staffed entry	affected by live loads. A traveler could
point or presenting identification.	traverse the bridge without ever passing thru
	a staffed entry point or presenting
Note: Structure Length is defined with Usage	identification.
Code, 1768 PUBLIC ACCESS BRIDGE	
(VEHICULAR).	
1469 CONTROLLED ACCESS BRIDGE (TRAINS)	1469 CONTROLLED ACCESS BRIDGE (RAILROAD)
A structure including supports erected over a	Any structure with a deck, regardless of
depression or an obstruction, such as water,	length, which supports one or more railroad
highway, or railway, and having a track for	tracks, OR any other undergrade structure
carrying moving loads and used exclusively by	with an individual span length of 10 feet or
trains. A traveler must pass thru a staffed	more located at such a depth that it is
entry point and present proper identification	affected by live loads. A traveler must pass
to traverse this bridge.	thru a staffed entry point and present proper
	identification to traverse this bridge.
Note: Structure Length is defined with Usage	
Code, 1768 PUBLIC ACCESS BRIDGE	
(VEHICULAR).	47C0 DUDUC ACCESS DDIDGE (VEHICLII AD)
1768 PUBLIC ACCESS BRIDGE (VEHICULAR)	1768 PUBLIC ACCESS BRIDGE (VEHICULAR)
A structure including supports erected over a depression or an obstruction, such as water,	A structure including supports erected over a depression or an obstruction, such as water,
highway or railway, and having a passageway	highway, or railway, and having a
for carrying traffic or other moving loads. A	passageway for carrying traffic or other
traveler could traverse the structure without	moving loads. A traveler could traverse the
ever passing thru a staffed entry point or	structure without ever passing through a
presenting identification.	staffed entry point or presenting
processing sections.	identification. This includes:
The Structure Length of a bridge or culvert is	
the length of roadway, railway, or walkway	 assets of ANY <u>Structure Length</u> with a
supported on the structure.	deck, superstructure, and
	substructure, and
For bridges, the length should be measured	 culverts with a Structure Length of
along the centerline (i.e. parallel) of the	more than 20LF.
roadway, railway, or walkway back-to-back of	
backwalls of abutments or spring lines of	Public access vehicle bridges with a Structure
arches.	Length of more than 20 feet (6.1 meters) are
	included in the National Bridge Inventory
[Structure Length illustrations included in the	unless permanently closed (i.e. in Shutdown
FIMS DED are not shown]	Status and Excess Indicator is "Yes").
	The <u>Structure Length</u> of a bridge or culvert is
	the length of roadway, railway, or walkway
	supported on the structure.

From:	То:
	For bridges, the length should be measured along the centerline (i.e. parallel) of the roadway, railway, or walkway back-to-back of backwalls of abutments or spring lines of arches.
1769 CONTROLLED ACCESS BRIDGE (VEHICULAR)	1769 CONTROLLED ACCESS BRIDGE (VEHICULAR)
A structure including supports erected over a depression or an obstruction, such as water, highway, or railway, and having a passageway for carrying traffic or other moving loads. A traveler must pass thru a staffed entry point and present identification to traverse this structure. Note: Structure Length is defined with Usage Code, 1768 PUBLIC ACCESS BRIDGE (VEHICULAR).	A structure including supports erected over a depression or an obstruction, such as water, highway, or railway, and having a passageway for carrying traffic or other moving loads. A traveler must pass thru a staffed entry point and present identification to traverse this structure. This includes: • assets of ANY Structure Length with a deck, superstructure, and substructure, and • culverts with a Structure Length of more than 20LF. Controlled access vehicle bridges are not included in the National Bridge Inventory. Note: Structure Length is defined with Usage Code, 1768 PUBLIC ACCESS BRIDGE
2629 CULVERT	(VEHICULAR). 2629 CULVERT
A transverse structure, pipe, or series of	A transverse structure, pipe, or series of
multiple pipes constructed to convey water or utilities under a road or railway.	multiple pipes, box(es), or arch(s) constructed to convey water or utilities under a road or railway.
Before choosing this usage code, determine Structure Length and Opening Area of the structure, pipe, or series of multiple pipes. See Appendix C of the FIMS User's Guide for a definition of Structure Length included with the definition of Usage Code 1768-Public Access Bride (Vehicular).	Before choosing this usage code, determine Structure Length and Opening Area of the structure, pipe, or series of multiple openings. See Appendix C of the FIMS User's Guide for a definition of Structure Length included with the definition of Usage Code 1768-Public Access Bride (Vehicular).
See Note 1 for a definition of Opening Area.	See Note 1 for a definition of Opening Area.
Use the following criteria in the order listed to identify the usage code for a structure,	Use the following criteria in the order listed to identify the usage code for a structure,

From:	То:
pipe, or series of multiple pipes that is under	pipe, or series of multiple openings that is
a road:	under a road :
 Structure Length greater than or 	 Structure Length greater than or
equal to 20 feet - apply Usage Code	equal to 20 feet - apply Usage Code
1768 or 1769,	1768 or 1769,
 Opening Area less than 20 square 	 Opening Area less than 20 square
feet - include as part of the	feet - include as part of the
infrastructure system by which the	infrastructure system by which the
assets are maintained and managed	assets are maintained and managed
(see Note 2),	(see Note 2),
All other cases - record as an	• All other cases - record as an
individual property record in FIMS	individual property record in FIMS
and apply Usage Code 2629.	and apply Usage Code 2629.
Use the following criteria in the order listed	Use the following criteria in the order listed
to identify the usage code for a structure,	to identify the usage code for a structure,
pipe, or series of multiple pipes that is under	pipe, or series of multiple pipes that is under
a railway:	a railway:
 Structure Length greater than or 	 Structure at grade - apply Usage
equal to 10 feet - apply Usage Code	Code 1468 or 1469,
1468 or 1469,	 Structure with an individual <u>span</u>
Opening Area less than or equal to	length of 10 feet or more located at
20 square feet - include as part of the	such a depth that it is affected by live
infrastructure system by which the	loads - apply Usage Code 1468 or
assets are maintained and managed	1469,
(see Note 2),	Opening Area less than or equal to
All other cases - record as an individual property record in FINS	20 square feet - include as part of the
individual property record in FIMS	infrastructure system by which the
and apply Usage Code 2629.	assets are maintained and managed
When applying Usage Code 2620, the unit of	(see Note 2),
When applying Usage Code 2629, the unit of measure is Culvert Length. See Note 3 for a	 All other cases - record as an individual property record in FIMS
definition.	and apply Usage Code 2629.
definition.	and apply usage code 2025.
FHWA-IP-86-2, Culvert Inspection Manual	When applying Usage Code 2629, the unit of
provides industry inspection standards for	measure is Culvert Length. See Note 3 for a
culverts.	definition.
Note 1: [defines Opening Area]	[No change to Notes currently included in the
The contract of the contract o	FILES DED

4. Revise the **Name** of the following **Usage Codes**:

Note 2: [identifies other infrastructure

Note 3: [defines Culvert Length]

systems]

FIMS DED]

From:	То:
1168 PUBLIC ACCESS BRIDGE (WALKING)	1168 PUBLIC ACCESS BRIDGE (PEDESTRAIN)
1169 CONTROLLED ACCESS BRIDGE	1169 CONTROLLED ACCESS BRIDGE
(WALKING)	(PEDESTRIAN)
1468 PUBLIC ACCESS BRIDGE (TRAINS)	1468 PUBLIC ACCESS BRIDGE (RAILROAD)
1469 CONTROLLED ACCESS BRIDGE (TRAINS)	1469 CONTROLLED ACCESS BRIDGE (RAILROAD)
1471 TUNNELS (TRAINS)	1471 TUNNELS (RAILROAD)

5. Include the following usage codes in FIMS Standard Report 015 - Bridge Safety Inspection Report - 1168 PUBLIC ACCESS BRIDGE (PEDESTRIAN)

1169 CONTROLLED ACCESS BRIDGE (PEDESTRIAN)

1171 TUNNELS (PEDESTRIAN)

1468 PUBLIC ACCESS BRIDGE (RAILROAD)

1469 CONTROLLED ACCESS BRIDGE (RAILROAD)

1471 TUNNELS (RAILROAD)

1768 PUBLIC ACCESS BRIDGE (VEHICULAR)

1769 CONTROLLED ACCESS BRIDGE (VEHICULAR)

1771 TUNNELS (CONTROLLED ACCESS VEHICULAR)

1772 TUNNELS (PUBLIC ACCESS VEHICULAR)

2629 CULVERT