GUERNSEY County 2020 INVENTORY, APPRAISAL & INSPECTION SNAPSHOT

1/27/2021

Inventory Data - NBIS Bridges Only

	NBIS COUNT
NBIS Bridges > 20'	204
Bridges 10'-20'	110
	314

Item 221	Inspection Responsibility	<u>CODE</u>	<u># NBIS</u>	<u># ALL</u>
Data Tab Col	BV,BW County	2	204	314
			" 100	
Item 21	Maintenance responsibility	CODE	<u># NBIS</u>	<u># ALL</u>
Data Tab	County	2	204	314
Col D	City or other local	4	0	0
	Railroad	27	0	0
	Private (tohter than RR)	26	0	0
	State Park	11	0	0
	Local Park	23	0	0
	Township	3	0	0
			204	314
Item 42A	Type service on bridge	CODE	# NBIS	<u># ALL</u>
Data Tab	Other	0	0	0
Col Q	Highway	1	201	311
601 Q	Railroad	2	0	0
	Ped/Bikeway	3	0	0
	Hwy/RR	4	0	0
	Hwy/Ped	5	3	3
	nwy/red	J	204	314
			204	514
Item 42B	Type service under bridge	<u>CODE</u>	<u># NBIS</u>	<u># ALL</u>
Data Tab	Other	0	0	0
Col R	Hwy w/ or w/o Ped	1	0	0
	Railroad	2	1	1
	Ped/Bkwy	3	0	0
	Hwy w/ RR	4	0	0
	Waterway	5	203	313
	, Hwy/Waterway	6	0	0
	RR/Waterway	7	0	0
	Hwy/Waterway/RR	8	0	0
	Relief (for waterways)	9	0	0
			204	314

ITEMS 43A,B,C Structure Type	Data (Col M.N,O)	CODE	<u># NBIS</u>	<u># ALL</u>
Other Culvert (incl frame culverts)		019	0	1
Concrete Slab		101	2	2
Concrete Tee Beam		104	1	1
Concrete Frame		107	6	35
Concrete Culvert (incl frame culverts)		119	1	8
Concrete Continuous Slab		201	4	4
Steel Beam or Girder		302	85	135
Steel Girder w/ Floor System		303	2	2
Steel Thru Truss (inlcudes Pony)		310	13	13
Steel Culvert (incl frame culverts)		319	0	13
Steel Continuous Beam or Girder		402	7	7
Prestr. Conc. Cont. Box Beam/Girder N	Iultiple	505	79	89
Prestr. Conc. Cont. Box Beam/Girder N	Iultiple	605	2	2
Timber Thru Arch		702	1	1
Timber Deck Arch		811	1	1
			204	314

Item 92A F	Fracture Critical	CODE	<u># NBIS</u>	<u># ALL</u>
Data Tab	Requires FC Inspection	Y	15	n/a
Col U,V,Y	Requires FC Inspection	Ν	189	n/a
			204	n/a
	FC date blank but FC=Y		0	n/a

Item 113	Scour			<u># NBIS</u>	<u># ALL</u>
Data Tab		Bridge not over waterway	Ν	1	1
Col AA		unknown foundation	U	0	0
		over tidal waters	Т	0	0
		foundations on dry land	9	0	0
		stable above footing	8	74	99
		countermeasures installed	7	4	4
		no scour evaluation made	6	0	0
		stable within footer limits	5	117	197
		stable action needed	4	8	13
		scour critical - unstable	3	0	0
		scour critical - scour present	2	0	0
		scour critical - failure imminent	1	0	0
		scour critical - bridge failed	0	0	0
				204	314

Item 63	Documented Engineering Judgment	<u># NBIS</u>	<u># ALL</u>
	Field Eval & Doc EJ	6	n/a

ltem 92B	Underwater	CODE	<u># NBIS</u>	<u># ALL</u>
Data Tab	requires dive inspection	Ν	204	n/a
Col W,X,Z	requires dive inspection	Y	0	n/a
			204	
	dive insp date blank but Dive=Y		0	n/a

Item 709	Plan Information	CODE	<u># NBIS</u>	<u># ALL</u>
Data Tab	plans not avail	0	11	13
Col. AW	plan avail	1	86	130
	field measured	2	106	170
	Field Testing	3	0	0
	not applicable	Ν	0	0
			203	313

ltem 63	Method of Analysis	CODE	<u># NBIS</u>	<u># ALL</u>
Data Tab	Field Eval & Doc. Eng Judgment	0	6	8
Col. AV	Load testing	4	0	0
	No Rating done	5	0	0
	Load Factor (LF)	6	169	0
	WS or AS	7	2	0
	Load & Resistance Factor	8	27	19
	Assigned Rating (LFR) HS20	D	0	249
	Assigned Rating (LRFR) HL93	F	0	4
	Not applicable (Ped, RR, Bldg)	Х	0	34
			204	314
REMINDE	R:			
	Load Factor required for bridges built after 199	93	(exceptions: timber, etc	:,)
	LRFR required for bridges built after 2010			

Inspection Condition Data - NBIS Bridges Only

ltem 41	Operating Status	CODE	<u># NBIS</u>	<u># ALL</u>
Data Tab	Open, No restriction	А	166	269
Col AM	Open, posting recommended	В	0	0
	Open, Half width constr.	С	0	0
	Open because of temp. fix	D	0	0
	Open using temp. structure	E	0	0
	New struture not yet open	G	0	0
	closed for load cap. reason	К	5	5
	Posted for load capacity	Р	33	40
	Posted for other than load	R	0	0
	Closed for other than load	Х	0	0
			204	314

	Load Rating Data		
Load Ratin	g Tab	# OF ERRORS	
Col. AN	Op RF greater than Inv RF?	0	
Col. AO	Posting and % Legal OK?	0	
Col. AP	"0" used instead of blank	0	
Col. AT	% legal <> lowest RF	0	
Col.A V	Item 70 correct?	0	
Col. AW	Method of Rating Alike?	0	
Col. AX	Op & Inv RF in Tons as req'd?	0	
Col. AY	Item 575 correct?	0	
Col. AZ	Depth of fill completed?	0	

KEY METRICS

(C)	Compliant
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(SC) Substantially Compliant

 (CC) Conditionally Compliant
(NC) Non- Compliant
(NC) (SC) If corrected within 6/12 months Refresher=6 mo, Comprehensive=12 mo

METRIC 2 - Program Manager Qualification	(from files	examination)		
From Files review	Missing	#sampled	<u>% PASS</u>	COMPLIANCE
PE /Experience	0	1	100.0%	(C)
Comprehensive	0	1	100.0%	(C)
Refresher	0	1	100.0%	(C)

METRIC 3 - Team Leader Qualification	(from files	examination)		
From Files review	Missing	#sampled	<u>% PASS</u>	COMPLIANCE
Degree /Experience	0	3	100.0%	(C)
Comprehensive	0	3	100.0%	(C)
Refresher	0	3	100.0%	(C)

METRIC 6 Insp. Frequency Routine

Bridge Inspections Overdue		# OVERDUE	<u>% PASS</u>	COMPLIANCE	
Data Tab	NBIS -	24 months	0	100.0%	(C)
Col. AB	ORC -	Calendar Year	0	100.0%	(C)
	BIM -	18 months	0	100.0%	(C)

METRIC 8 - Insp. Frequency Underwater

Dive Inspections O	verdue	# OVERDUE	# UW	<u>% PASS</u>	COMPLIANCE
Data Tab Col. Z	60 months	0	0	100.0%	(C)

METRIC 10 - Insp. Frequency FC Member

FC Inspections Ove	erdue	<u># OVERDUE</u>	# FC	<u>% PASS</u>	COMPLIANCE
Data Tab Col. Y	24 months	0	15	100.0%	(C)

METRIC 12 - Routine Inspection

Field Ratin	ngs	# > +/-1	# Ratings	<u>% PASS</u>	<u>COMPLIANCE</u>
	field ratings	0	24	100.0%	(C)
Comments		Missing	# < 6	<u>% PASS</u>	
Tab	Comments when Rating < 6	0	199	100.0%	(C)
		Error	Total Scour	<u>% PASS</u>	
Comments	Rating should be = Scour	3	198	98.5%	within tolerance +/- 1
Tab	Noncompliant Scour Rating Err	1	198	99.5%	(C)

METRIC 14 - Posting Load rating data tab

From Files review	# errors	#sampled	<u>% PASS</u>	COMPLIANCE
Op RF < 3 tons but not closed	0	204	100.0%	(C)
Op RF = 0 but not closed	0	204	100.0%	(C)
% Legal < 100 but not posted	0	204	100.0%	(C)

Item 41 = B	0	204	100.0%	(C)	

METRIC 16 - Fracture Critical Inspection

From Files review	Missing	# FC	<u>% PASS</u>	COMPLIANCE
Fract Critical Member ID	0	2	100.0%	(C)
Fatigue Prone Detail	0	2	100.0%	(C)
Gusset Plate Calculations	0	2	100.0%	(C)
FC Inspection Procedure	0	2	100.0%	(C)

METRIC 17 - Underwater Inspection

From Files review	Missing	# UW	<u>% PASS</u>	COMPLIANCE
UW Inspection Procedure	0	0	100%	(C)
Location of UW elements	0	0	100%	(C)
UW frequency identified	0	0	100%	(C)

PRELIMINARY FHWA 23 Metric Matrix

23 metrics used by FHWA to measure NBIS compliance

Compliance Codes for the following Metrics:

- (C) Compliant
- (SC) Substantially Compliant
- (CC) Conditionally Compliant (Adhering to approved PCA)
- (NC) Not Compliant

Metric	Description	(C)	(SC)	(CC)	(NC)
1	State Bridge Inspection Organization				
2	Program Manager Qualification				
3	Team Leader Qualification				
4	Load Rating Engineer Qualification				
5	UW Bridge Inspection Diver Qualification				
6	Routine Inspection Frequency - Low Risk				
7	Routine Inspection Frequency - High Risk				
8	UW Inspection Frequency - Low Risk				
9	UW Inspection Frequency - High Risk				
10	FC Inspection Frequency				
11	Frequency Criteria				
12	Inspection Quality				
13	Load Rating				
14	Posted or Restricted Bridges				
15	Bridge Files				
16	FC Bridges				
17	UW inspection procedures				
18	Scour Critical Bridges				
19	Complex Bridges				
20	QC/QA				
21	Critical Findings				
22	Inventory				
23	Updating of Data				

** based on results of Field Review

<u>Metric</u>	Action Needed	

16 Add Risk Factors to FC Insp Procedure for each FC bridge