Review of Local Agency Bridge Inspection Program

Agency		С	Date		
Agency HQ Location	1	Т	eam		
BIOH - Bridge Inspection BITL - Bridge Inspection BITM - Bridge Inspection	Team Leader	ead			
A. Qualifications o	of Inspection Pers	onnel			
	e head of the bridg	e inspection organiz	zation?		
	A		Title:		
	ects bridges for the	agency?			
	В		BITL / BITM	Title:	
	С		BITL / BITM	Title:	
	D		BITL / BITM .	Title:	
	E		BITL / BITM	Title:	
∠ How many	y years of bridge in	spection experience	e?		
		Years of Exper	ience		
	0-1	2-5	6-9	10 or more	
A				10 01 111010	
В					
С					
D					
E					
✓ Is the BIO	H/BITL a Registere	ed Professional Eng	gineer?		
	o PIOH	Voc. No	DE#	Stata	
	a. BIOH - b. BITL -	Yes No) PE#_		
≥ OR, is the		ed for registration a			
	a. BIOH -	Yes _		No	
	b. BITL -	Yes_		No	
		l as a Level III or Le rogram for National			the National Society gies (NICET).

 ${\it extit{Z}}$ What training have bridge inspectors received in bridge inspection?

	BRIDGE INSPECTOR TRAINING (Dates)										
	2-week BITC	Br. Insp'n Refresher	Fracture Critical	Underwater Inspection	Stream Stability & Scour	BMS Inspection	Other				
Α											
В											
С											
D			ĺ				Ī				
Е			ĺ				Ī				

∠ Please indicate the bridge inspection assignments (experience) for the BITL.

Assignments (Experience)							
No. of Months	Job Title	Brief Description of Duties					

Æ	How often	is the BIT	L at the	bridge site	during	inspection?

Always	
Most of the time	
Occasionally	
Never	

B. Available Resources

✓ How many bridges is the agency responsible for inspecting?

	Total	Fracture Critica	Underwater	Other Special Inspections
NBI Bridges				
Bridges < 20 ft				
TOTAL				

- How many inspections were performed during the last calendar year?
- ✓ Indicate the percentage of time spent on the listed duties in the last calendar year:

	Bridge Inspection and Rating	Bridge Design	Bridge Construction	Bridge Maintenance	Other	
Α						100%
В						100%
С						100%
D						100%
Е						100%

How long does it normally take to reinspect the following structure? (exclude travel time and bridge load capacity rating time) Three simple spans with total length of 200 feet, multi girder or beam, reinforced concrete deck, over local street. Structure is about 20 years old.

■ Does the BIT inspect the following structures:

	Yes	No	N/A	If yes, how many?
Major Bridges				
Fracture Critical Bridges				
Underwater Components of Bridges				

Are other sections (personnel) called for assistance when inspecting the following structures?

	Yes	No	Comments
Major Bridges			
Fracture Critical Bridges			
Underwater Components of Bridges			

What is the status of, and who conducts, evaluations of the following?

	No. Required	No. Complete	Who Performs?	No. Posted or Scour Critical
Load Ratings				
Scour Evaluations		\		

- ∠ How many bridges require posting, but have not yet been posted? If so, why not?
- Have action plans been developed for those bridges determined to be scour critical? (Please attach a copy of one.)

C. Inspection Records

What type of information is recorded about each inspection?

		Yes	No
a.	Time spent on inspection		
b.	Temperature		
C.	Weather		
d.	Inspectors' signatures		
e.	Other (Please specify)		

Æ	Are	previous	inspection	n reports	available	at the	site fo	r review?

a.	Yes
b.	No

Are the bridge plans carried to the bridge site for review if necessary, or are they readily available for review in the bridge office?

	Yes	No
Bridge site		

		Bridge office						
	What form	ns are used to red	cord the inspection data?	(Choose a	ll that ap	ply)		
		(STA) BIS Inver	ntory Data Coding Form					
		Bridge Inspection						
		Laptop program						
		Other (specify)						
		(1 3/						
	∠ List the bi ∠	ridges and files e	valuated during this revie	w:				
			Bridge Name	Struc	ture ID		Bridge No.	Ī
		Bridge A						
		Bridge B						
		Bridge C						
		Bridge D						
		Bridge E						
		Bridge F						
	bridges:	Coding Accurace Inv. Data Accur Narrative Sketches Photographs Maint. Needs Id Load Ratings Posting Docum. Scour Calcs	ent'd					
	G- Good; Comment		DNA- Does Not Apply; C	NE- Could	Not Eval	uate		
D.	Inspection Proc							
	Ye	n inspection proc s	edures prepared for the I	BIT?				
		ten procedures ai	e available at the bridge	site or brid	ge office	?		
					Yes	No	Describe	Ī

	Yes	No	Describe
a. General			
b. Special Feature Inspection			
c. Fracture Critical Inspection			
d. Underwater Inspection			
e. Major Bridge Inspection			

		f. Other					
	∠ Do you ha	ve any special procedu	ures for any specifi	c bridges that y	our team in	spects?	
	Yes (Plea No	se specify)					
		er it is determined that t tain a copy and attach			dures for a	bridge, the r	eview team
		rmines the depth of ins	pection if there are	no written proc	edures?		
	a. BITL b. Head o c. Other (of bridge inspection unit specify)	t				
	∠ How are n	ew written procedures	distributed?				
		g session al Meetings Please specify)			K		
	∠ Do BITMs	have specific duties co	onveyed to them by	y the BITL?			
	b. 1	Yes No					
E.	Comment						
	∠ What equi	pment does your team	have available for	"hands on" acc	ess to bridg	ge members	?
		a. Ladder b. Aerial Lift Platform c. Underbridge Inspec	` '	r LIRIT)		Yes	No
		d. Boat	stion omit (Snoope	i, obii <i>)</i>			
		e. Scaffolding					
		f. Climbing Gear					
		g. Other					

∠ How accessible is the equipment?

(A) How many bridges need a UBIT?					
(B) How many bridges is it used on? _					
(C)	Readily	Must be	Must be Rented	Always	

	Accessible	Scheduled	or billed to Others	Difficult to Obtain
a. Ladder				
b. Aerial Lift Platform ("manlift")				
c. Underbridge Inspection Unit (UBIT)				
d. Boat				
e. Scaffolding				
f. Other:				

f. Other:				
,				
D II A NDT	, , , , ,	1/0.14		
∠ Does the Agency ever use NDT	(excluding visi	uai)? If yes, com	iplete 4 and 5 belo	bw; if no, skip 4 and 5.
Yes				
No				
✓ If your answer to question (3) is	yes, please ind	dicate who is re	sponsible for NDT	?
a. Bridge Unit				
b. Maintenance Unit				
c. Materials Testing Unit				
d. Other				
e. Don't know				
Who determines the frequency of	of NDT?			
a Deidera Hait				
a. Bridge Unit				
b. Maintenance Unit				
c. Materials Testing Unit	-			
d. Other				
e. Don't know	Z \			
	ormally carry w	ith them to the	inspection site?	
	Yes No			
Extension ladder				
Measuring tape				
6' folding rule				
100' fiberglass tape				
Geologist hammer				
Inspection mirror				
Flashlight				
Thermometer				
Plumb bob				
Camera				
2'-0" level (carpenter)				
Brush hook/machete				
First Aid kit				
Wire brush				
Calipers				
Shovel				
Screw driver				

Pliers

	Wrenches
	Incremental borer
	Deck sounding chains
	Hip boots & waders
	Paint stick/keel
	Scraper
	Feeler gauge
	Probing rod
	Vertical clearance measuring rod
	List additional items below
F.	Follow-up Procedures
	Always Occasionally Most of the time Never
	Are recommendations for maintenance or repairs identified on the bridge inspection form?
	YesNo
	✓ Does the BIT assess whether previous maintenance problems have been corrected? Yes No
	How do you call the attention of maintenance personnel to routine bridge maintenance problems?
	Written procedure Verbally Regularly scheduled meetings
	How is the BIOH notified of needed repairs, and how and to whom are completed repairs communicated?
	∠ Who does the BITL notify when emergency repairs are necessary?
	Bridge Section Other Not required to notify anyone
	 If a bridge requires emergency repairs, is this noted as part of the inspection report or as a separate document? BIR Separate document Not documented
	✓ What procedures and documentation are in place to insure timely correction of emergency needs?
	∠ Who checks proper placement of signs (load posting, clearance, speed restriction, narrow bridge etc.)?
	BIT Other Bridge Section Don't know Maintenance Section

 ${\it extit{ iny W}}$ What is the annual bridge maintenance budget?

Review Summary

Category	Adequate	Minor Inadequacies (Corrective Action Desirable)	Not Adequate (Corrective Action Imperative)
A. Qualification of Inspection Personnel			
B. Available Resources			
C. Inspection Records			
D. Inspection Procedures			
E. Inspection Equipment			
F. Follow-up Procedures			
G. Condition/Appraisal Ratings			

Sum	marv	Com	ments
Juli	IIIai v	COIII	HILLIG

Inspection	Report	Evaluation	Form

Bridge Name:	Evaluated by
Structure ID No.:	Date:

✓ Please indicate whether the following information is included in the most recent inspection report:

	Yes	No	Not applicable
a. Narrative Section			
b. Sketches of cracks, spalls exposed rebar, etc.			
c. Bridge Photographs			
d. Maintenance needs identified			
e. Emergency repairs required			
f. Posting signs documented			

Ø	Are the sketches identified in (1b) of sufficient detail to track changes in the bridge (joint oper	ning
	measurements, widths of cracks etc.)?	

a.	Yes	s
b.	No	

Do the condition and appraisal ratings from the current inspection report agree with the condition and appraisal ratings on the Agency's most recent SI&A sheet? (This question evaluates if the inspection data is reliably captured into the State's bridge inventory database.)

Yes	
No _	

✓ Does the inspection form list the members of the BIT?

e.	Yes	
f	Nο	

✓ Is the inspection form signed and dated?



✓ What are the dates of the previous 5 routine inspections?

Inspection File Evaluation

- a. Are written inspection procedures required for this bridge? If no, skip the rest of this section
- ✓ Evaluate the following:

Critical inspection locations identified

Inspection frequencies identified

Inspection methods identified

Discussion of deficiencies to look for

Special equipment needs identified

∠ Load Rating Calculations

What is the method used for calculating the load rating?

Is the HS truck used with the Load Factor method to determine Inventory & Operating Ratings?

What are the calculated ratings:

	Inventory	Operatir	1g
Type 3		(25.0	Tons)
Type 3-S2		(36.7	Tons)
Type 3-3		(43.2	Tons)
HS Truck			

What is the recommended load posting? Is it physically posted?

Is the load rating signed and stamped by a registered P.E.?

∠ Scour Evaluation

Has scour been evaluated in accordance with acceptable practice?

If the bridge is scour critical, has a written action plan been developed addressing:

- ✓ Installation of temporary countermeasures
- ∠ Permanent countermeasures