Reliability of Visual Inspection for Highway Bridges, Volume II: Appendices Go back to main publications page to access the othersections of this appendix.

APPENDIX E. TASK PROTOCOLS

TASK A PROTOCOL

1. Read the following:

"This structure, constructed in 1940, is Bridge B521 over the decommissioned section of the Pennsylvania Turnpike. What you will be asked to do during this task is to perform a Routine Inspection of the superstructure, the substructure, and the deck (excluding the wearing surface). To refresh your memory, Routine Inspections are regularly scheduled inspections completed to determine the physical and functional condition of a bridge. Routine Inspections also serve to ensure that a bridge continues to satisfy all applicable serviceability requirements. Routine Inspections are commonly referred to as normal NBIS inspections. I want to take this time to remind you that all of your inspection findings and my observations will be confidential. Do you have any general questions about this inspection?

Please keep the safety provisions we discussed yesterday in mind while you complete this inspection. Do you have any questions about any of these safety issues?

My role while you complete this inspection will be to simply observe and jot down some simple notes about what you are doing. I will not be assisting you as you complete this inspection. I want to also assure you that I am not scoring or grading you. I am simply taking notes about how and what you are doing. If you have any questions while you are completing the task, please feel free to ask me. If I am allowed to answer the question, I will be happy to do so. Do you have any questions about what my role will be?

These are the forms you are to use while completing the inspection. Note that there is room for you to make notes . If you do make some notes, I ask that you keep them as brief as possible. Please note that these are generic forms used for a wide variety of bridges. You should use only those items appropriate to your inspection of this bridge. Please note the prepared bridge plans included in the forms. I ask that when you find something that you would normally note, please indicate its location on the plans and record any measurements you made. I want to let you know that you should not feel obligated to spend a great deal of time at any one location. Please just simply note your findings and move on. Do you have any questions about these forms?"

- 2. Give Task A pre-task questionnaire.
- 3. Read the following:

"We will now begin this inspection task. You have 40 minutes to complete the Routine Inspection of the deck, excluding the wearing surface, superstructure, and substructure of this bridge. This time limit has been developed from inspectors around the country. Although I must ask that you attempt to complete this task within the time allotted, you should also keep in mind the fact that this is not a race. Please perform this inspection as you would typically perform a Routine Inspection. However, please keep in mind that you must not damage the bridge in any way so that we can preserve its current state for other inspectors. In this light, I would ask that if you would normally have done some sort of invasive procedure had we not prohibited it, please make a brief note indicating the procedure and location. For the purposes of this inspection, you do not need to make gross dimension checks or inspect nonstructural elements like the approach rail. Do you have any questions? Let's begin."

- 4. Start the clock in the Palm Pilot (set for 40 minutes).
- 5. Complete the during-task observation form.
- 6. If time runs out, ask the Inspector to stop, and make a note of where the inspector stopped.
- 7. Give the Task A post-task questionnaire.
- 8. Read the following:

TASK B PROTOCOL

1. Read the following:

"This structure, constructed in 1939, is Bridge B101A over an unmarked gravel access road. What you will be asked to do during this task is to perform a Routine Inspection of the deck, superstructure, and substructure of this bridge. To refresh your memory, Routine Inspections are regularly scheduled inspections completed to determine the physical and functional condition of a bridge. Routine Inspections also serve to ensure that a bridge continues to satisfy all applicable serviceability requirements. Routine Inspections are commonly referred to as normal NBIS inspections. I want to take this time to remind you that all of your inspection findings and my observations will be confidential. Do you have any general questions about this inspection?

Please keep the safety provisions we discussed yesterday in mind while you complete this inspection. Do you have any questions about any of these safety issues?

My role while you complete this inspection will be to simply observe and jot down some simple notes about what you are doing. I will not be assisting you as you complete this inspection. I want to also assure you that I am not scoring or grading you. I am simply taking notes about how and what you are doing. If you have any questions while you are completing the task, please feel free to ask me. If I am allowed to answer the question, I will be happy to do so. Do you have any questions about what my role will be?

These are the forms you are to use while completing the inspection. Note that there is room for you to make notes if you wish. If you do make some notes, I ask that you keep them as brief as possible. Please note that these are generic forms used for a wide variety of bridges. You should use only those items appropriate to your inspection of this bridge. Please note the prepared bridge plans included in the forms. I ask that when you find something that you would normally note, please indicate its location on these plans and record any measurements you made. I want to let you know that you should not feel obligated to spend a great deal of time at any one location. Please just simply note your findings and move on. Do you have any questions about these forms?"

- 2 Give Task B pre-task questionnaire.
- 3. Read the following:

"We will now begin this inspection task. You have 50 minutes to complete the Routine Inspection of the deck, superstructure, and substructure of this bridge. This time limit has been developed from inspectors around the country. Although I must ask that you attempt to complete this task within the time allotted, you should also keep in mind the fact that this is not a race. Please perform this inspection as you would typically perform a Routine Inspection. However, please keep in mind that you must not damage the bridge in any way so that we can preserve its current state for other inspectors. In this light, I would also ask that if you would normally have done some sort of invasive procedure had we not prohibited it, please make a brief note indicating the procedure and location. For the purposes of this inspection, you do not need to make gross dimension checks or inspect non-structural elements like the approach rail. Do you have any questions? Let's begin."

- 4. Start the clock in the Palm Pilot (set for 50 minutes).
- 5. Complete the during-task observation form.
- 6. If time runs out, ask the Inspector to stop, and make a note of where the inspector stopped.
- 7. Give the Task B post-task questionnaire.
- 8. Read the following:

TASK C PROTOCOL

1. Read the following:

"This structure, constructed in 1939, is Bridge B111A over State Route 1011. What you will be asked to do during this task is to perform a Routine Inspection of the deck, superstructure, and substructure of this bridge. To refresh your memory, Routine Inspections are regularly scheduled inspections completed to determine the physical and functional condition of a bridge. Routine Inspections also serve to ensure that a bridge continues to satisfy all applicable serviceability requirements. Routine Inspections are commonly referred to as normal NBIS inspections. I want to take this time to remind you that all of your inspection findings and my observations will be confidential. Do you have any general questions about this inspection?

Please keep the safety provisions we discussed yesterday in mind while you complete this inspection. Do you have any questions about any of these safety issues?

My role while you complete this inspection will be to simply observe and jot down some simple notes about what you are doing. I will not be assisting you as you complete this inspection. I want to also assure you that I am not scoring or grading you. I am simply taking notes about how and what you are doing. If you have any questions while you are completing the task, please feel free to ask me. If I am allowed to answer the question, I will be happy to do so. Do you have any questions about what my role will be?

These are the forms you are allowed to use while completing the inspection. Note that there is room for you to make notes. If you do make some notes, I ask that you keep them as brief as possible. Please note that these are generic forms used for a wide variety of bridges. You should use only those items appropriate to your inspection of this bridge. Please note the prepared bridge plans included in the forms. I ask that when you find something that you would normally note, please indicate its location on these plans and record any measurements you made. I want to let you know that you should not feel obligated to spend a great deal of time at any one location. Please just simply note your findings and move on. Do you have any questions about these forms?"

- 2. Give Task C pre-task questionnaire.
- 3. Read the following:

"We will now begin this inspection task. You have 30 minutes to complete the Routine Inspection of the deck, superstructure, and substructure of this bridge. This time limit has been developed from inspectors around the country. Although I must ask that you attempt to complete this task within the time allotted, you should also keep in mind the fact that this is not a race. Please perform this inspection as you would typically perform a Routine Inspection. However, please keep in mind that you must not damage the bridge in any way so that we can preserve its current state for other inspectors. In light of this, I would ask that if you would normally have done some sort of invasive procedure had we not prohibited it, please make a brief note indicating the procedure and location. For the purposes of this inspection, you do not need to make gross dimension checks or inspect non-structural elements like the approach rail. Do you have any questions? Let's begin."

- 4. Start the clock in the Palm Pilot (set for 30 minutes).
- 5. Complete the during-task observation form.
- 6. If time runs out, ask the Inspector to stop, and make a note of where the inspector stopped.
- 7. Give the Task C post-task questionnaire.
- 8. Read the following:

TASK D PROTOCOL

1. Read the following:

"This structure, constructed in 1939, is Bridge B543 over a decommissioned Turnpike ramp. What you will be asked to do during this task is to perform a Routine Inspection of the deck, superstructure, and the substructure of this bridge. To refresh your memory, Routine Inspections are regularly scheduled inspections completed to determine the physical and functional condition of a bridge. Routine Inspections also serve to ensure that a bridge continues to satisfy all applicable serviceability requirements. Routine Inspections are commonly referred to as normal NBIS inspections. I want to take this time to assure you that all of your inspection findings and my observations are strictly confidential. Do you have any general questions about this inspection?

Please keep the safety provisions we discussed yesterday in mind while you complete this inspection. Do you have any questions about any of these safety issues?

My role while you complete this inspection will be to simply observe and jot down some simple notes about what you are doing. I will not be assisting you as you complete this inspection. I want to also assure you that I am not scoring or grading you. I am simply taking notes about how and what you are doing. If you have any questions while you are completing the task, please feel free to ask me. If I am allowed to answer the question, I will be happy to do so. Do you have any questions about what my role will be?

These are the forms you are to use while completing the inspection. Note that there is room for you to make notes. If you do make some notes, I ask that you keep them as brief as possible. Please note that these are generic forms used for a wide variety of bridges. You should use only those items appropriate to your inspection of this bridge. Please note the prepared bridge plans included in the forms. I ask that when you find something that you would normally note, please indicate its location on these plans and record any measurements you made. Additionally, please use this digital camera to record your findings. If you have any questions about the use of this camera, please feel free to ask me at any time. I want to let you know that you should not feel obligated to spend a great deal of time at any one location. Please just simply note your findings and move on. Do you have any questions about these forms?"

- 2. Give Task D pre-task questionnaire.
- 3. Read the following:

"We will now begin this inspection task. You have 40 minutes to complete the Routine Inspection of the deck, superstructure, and substructure of this bridge. This time limit has been developed from inspectors around the country. Although I must ask that you attempt to complete this task within the time allotted, you should also keep in mind the fact that this is not a race. Please perform this inspection as you would typically perform a Routine Inspection. However, please keep in mind that you must not damage the bridge in any way so that we can preserve its current state for other inspectors. In this light, I would also ask that if you would normally have done some sort of invasive procedure had we not prohibited it, please make a brief note indicating the procedure and location. For the purposes of this inspection, you do not need to make gross dimension checks or inspect non-structural elements like the approach rail. Do you have any questions? Let's begin."

- 4. Start the clock in the Palm Pilot (set for 40 minutes).
- 5. Complete the during-task observation form.
- 6. If time runs out, ask the Inspector to stop, and make a note of where the inspector stopped.
- 7. Give the Task D post-task questionnaire.
- 8. Read the following:

TASK E PROTOCOL

1. Read the following:

"This structure, constructed in 1939, is Bridge B544 over U.S. Route 30. What you will be asked to do during this task is to perform a Routine Inspection of the deck, superstructure, and substructure of this bridge. To refresh your memory, Routine Inspections are regularly scheduled inspections completed to determine the physical and functional condition of a bridge. Routine Inspections also serve to ensure that a bridge continues to satisfy all applicable serviceability requirements. Routine Inspections are commonly referred to as normal NBIS inspections. I want to take this time to remind you that all of your inspection findings and my observations will be confidential. Do you have any general questions about this inspection?

Please keep the safety provisions we discussed yesterday in mind while you complete this inspection. Do you have any questions about any of these safety issues?

My role while you complete this inspection will be to simply observe and jot down some simple notes about what you are doing. I will not be assisting you as you complete this inspection. I want to also assure you that I am not scoring or grading you. I am simply taking notes about how and what you are doing. If you have any questions while you are completing the task, please feel free to ask me. If I am allowed to answer the question, I will be happy to do so. Do you have any questions about what my role will be?

These are the forms you are to use while completing the inspection. Note that there is room for you to make notes. If you do make some notes, I ask that you keep them as brief as possible. Please note that these are generic forms used for a wide variety of bridges. You should use only those items appropriate to your inspection of this bridge. Please note the prepared bridge plans included in the forms. I ask that when you find something that you would normally note, please indicate its location on the plans and record any measurements you made. I want to let you know that you should not feel obligated to spend a great deal of time at any one location. Please just simply note your findings and move on. Do you have any questions about these forms?"

- 2. Give Task E pre-task questionnaire exactly as it is given in the Palm Pilot.
- 3. Read the following:

"We will now begin this inspection task. You have 1 hour to complete the Routine Inspection of the deck, superstructure, and substructure of this bridge. This time limit has been developed from inspectors around the country. Although I must ask that you attempt to complete this task within the time allotted, you should also keep in mind the fact that this is not a race. Please perform this inspection as you would typically perform a Routine Inspection. However, please keep in mind that you must not damage the bridge in any way so that we can preserve its current state for other inspectors. In this light, I would ask that if you would normally have done some sort of invasive procedure had we not prohibited it, please make a brief note indicating the procedure and location. For the purposes of this inspection, you do not need to make gross dimension checks or inspect non-structural elements like the approach rail. Do you have any questions? Let's begin."

- 4. Start the clock in the Palm Pilot (set for 1 hour).
- 5. Complete the during-task observation form.
- 6. If time runs out, ask the Inspector to stop, and make a note of where the inspector stopped.
- 7. Give the Task E post-task questionnaire.
- 8. Read the following:

TASK F PROTOCOL

1. Read the following:

"This structure, constructed in 1939, is Bridge B544 over U.S. Route 30. What you will be asked to do during this task is to perform an In-Depth Inspection of approximately one-third of the below-deck superstructure of this bridge. To refresh your memory, In-Depth Inspections are close-up, hands-on inspections of one or more members in order to identify deficiencies not normally detectable during Routine Inspections. I want to take this time to remind you that all of your inspection findings and my observations will be confidential. Do you have any general questions about this inspection?

Please keep the safety provisions we discussed yesterday in mind while you complete this inspection. The most important safety item concerns the use of this 12.19-m boom lift. OSHA requirements mandate that we both wear safety harnesses and tie-off lanyards whenever the boom is in operation. If needed, we will maintain 100 percent tie-off by using additional lanyards. Do you have any questions about the use of fall protection or any other safety issues?

My role while you complete this inspection will be twofold. First, to simply observe and jot down some simple notes about what you are doing. I will not be assisting you as you complete this inspection. I want to also assure you that I am not scoring or grading you. I am simply taking notes about how and what you are doing. If you have any questions while you are completing the task, please feel free to ask me. If I am allowed to answer the question, I will be happy to do so. My second main role will be to operate all controls while we are using the boom lift. Do you have any questions about what my role will be?

These are the forms you are to use while completing the inspection. Note that there is room for you to make notes. If you do make some notes, I ask that you keep them as brief as possible. Please note the prepared bridge plans included in these forms. I ask that when you find something that you would normally note, please indicate its location on the plans and record any measurements you made. I want to let you know that you should not feel obligated to spend a great deal of time at any one location. Please just simply note your findings and move on. Do you have any questions about these forms or how you are to record your findings?"

- 2. Give Task F pre-task questionnaire.
- 3. Read the following:

"We will now begin this inspection task. You have 3 hours to complete the In-Depth Inspection of the superstructure of the SW quarter of the bridge to the indicator marks using the boom lift and the NE section of the bridge using the 9.75-m ladder out to the first set of sway frames. The time limit has been developed from inspectors around the country. Although I must ask that you attempt to complete this task within the time allotted, you should also keep in mind the fact that this is not a race. Please perform this inspection as you would typically perform an In-Depth Inspection. However, please keep in mind that you must not damage the bridge in any way so that we can preserve its current state for other inspectors. In this light, I would ask that if you would normally have done some sort of invasive procedure had we not prohibited it, please make a brief note indicating the procedure and location. For the purposes of this inspection, you do not need to make gross dimension checks. Do you have any questions? Let's begin."

- 4. Start the clock in the Palm Pilot (set for 3 hours).
- 5. Complete the during-task observation form.
- 6. If time runs out, ask the Inspector to stop, and make a note of where the inspector stopped.
- 7. Give the Task F post-task questionnaire.
- 8. Read the following:

TASK G PROTOCOL

1. Read the following:

"This structure, constructed in 1975, is the Route 1 bridge over the Occoquan River. What you will be asked to do during this task is to perform a Routine Inspection of a portion of the deck, superstructure, and substructure of the southern half of this bridge. To refresh your memory, Routine Inspections are regularly scheduled inspections completed to determine the physical and functional condition of a bridge. Routine Inspections also serve to ensure that a bridge continues to satisfy all applicable serviceability requirements. Routine Inspections are commonly referred to as normal NBIS inspections. I want to take this time to remind you that all of your inspection findings and my observations will be confidential. Do you have any general questions about this task?

Please keep the safety provisions we discussed 2 days ago in mind while you complete this inspection. Do you have any questions about any of these safety issues?

My role while you complete this inspection will be to simply observe and jot down some simple notes about what you are doing. I will not be assisting you as you complete this inspection. I want to also assure you that I am not scoring or grading you. I am simply taking notes about how and what you are doing. If you have any questions while you are completing the task, please feel free to ask me. If I am allowed to answer the question, I will be happy to do so. Do you have any questions about what my role will be?

These are the forms you are to use while completing the inspection. Note that there is room for you to make notes. If you do make some notes, I ask that you keep them as brief as possible. Please note that these are generic forms used for a wide variety of bridges. You should use only those items appropriate to your inspection of this bridge. Please note the prepared bridge plans included in the forms. I ask that when you find something that you would normally note, please indicate its location on these plans and record any measurements you made. I want to let you know that you should not feel obligated to spend a great deal of time at any one location. Please just simply note your findings and move on. Do you have any questions about these forms?"

- 2. Give Task G pre-task questionnaire.
- 3. Read the following:

"We will now begin this inspection task. You have 2 hours to complete the Routine Inspection of a portion of the deck, superstructure, and substructure of the southern four spans of this bridge. This time limit has been developed from inspectors around the country. Although I must ask that you attempt to complete this task within the time allotted, you should also keep in mind the fact that this is not a race. Please perform this inspection as you would typically perform a Routine Inspection. However, please keep in mind that you must not damage the bridge in any way so that we can preserve its current state for other inspectors. In this light, I would ask that if you would normally have done some sort of invasive procedure had we not prohibited it, please make a brief note indicating the procedure and location. For the purposes of this inspection, you do not need to make gross dimension checks or determine underwater stream profiles. When inspecting the top side of the deck, you must remain behind the guardrail at all times. Do you have any questions? Let's begin."

- 4. Start the clock in the Palm Pilot (set for 2 hours).
- 5. Complete the during-task observation form.
- 6. If time runs out, ask the Inspector to stop, and make a note of where the inspector stopped.
- 7. Give the Task G post-task questionnaire.
- 8. Read the following:

TASK H PROTOCOL

1. Read the following:

"This structure, constructed in 1975, is the Route 1 bridge over the Occoquan River. What you will be asked to do during this task is to perform an In-Depth Inspection of one bay of one span of this bridge, excluding the bearings. As I mentioned, you will be asked to perform an In-Depth Inspection. To refresh your memory, In-Depth Inspections are close-up, hands-on inspections of one or more members in order to identify deficiencies not normally detectable during Routine Inspections. I want to take this time to remind you that all of your inspection findings and my observations will be confidential. Do you have any general questions about this inspection?

Please keep the safety provisions we discussed 2 days ago in mind while you complete this inspection. The most important safety item you need to recall concerns the use of this 18.28-m boom lift. OSHA requirements mandate that we both wear safety harnesses and tie-off lanyards whenever the boom is in operation. If needed, we will maintain 100 percent tie-off by using additional lanyards. Do you have any questions about the use of the boom lift or any other safety issues?

My role while you complete this inspection will be twofold. First, to simply observe and jot down some simple notes about what you are doing. I will not be assisting you as you complete this inspection. I want to also assure you that I am not scoring or grading you. I am simply taking notes about how and what you are doing. If you have any questions while you are completing the task, please feel free to ask me. If I am allowed to answer the question, I will be happy to do so. My second main role will be to operate all controls while we are using the lift. Do you have any questions about what my role will be?

These are the forms you are to use while completing the inspection. Note that there is room for you to make notes. If you do make some notes, I ask that you keep them as brief as possible. Please note the prepared bridge plans included in the forms. I ask that when you find something that you would normally note, please indicate its location on these plans and record any measurements you made. I want to let you know that you should not feel obligated to spend a great deal of time at any one location. Please just simply note your findings and move on. Do you have any questions about these forms or how you are to record your findings?"

- 2. Give Task H pre-task questionnaire.
- 3. Read the following:

"We will now begin this inspection task. You have 2 hours to complete the In-Depth Inspection of the easternmost bay of this span, excluding the bearings. This time limit has been developed from inspectors around the country. Although I must ask that you attempt to complete this task within the time allotted, you should also keep in mind the fact that this is not a race. Please perform this inspection as you would typically perform an In-Depth Inspection. However, please keep in mind that you must not damage the bridge in any way so that we can preserve its current state for other inspectors. In this light, I would ask that if you would normally have done some sort of invasive procedure had we not prohibited it, please make a brief note indicating the procedure and location. Do you have any questions? Let's begin."

- 4. Start the clock in the Palm Pilot (set for 2 hours).
- 5. Complete the during-task observation form.
- 6. If time runs out, ask the Inspector to stop, and make a note of where the inspector stopped.
- 7. Give the Task H post-task questionnaire.
- 8. Read the following"

TASK I PROTOCOL

1. Read the following:

"This structure, constructed around 1960, is the Van Buren Road Bridge over the Quantico Creek. What you will be asked to do during this task is to perform a Routine Inspection of the southern two spans of this bridge. You should recall that we sent you a packet of information about this bridge with instructions to prepare to do this inspection as you normally would. This was to include all required data sheets and a "plan of attack" for completing a Routine Inspection of this structure. To refresh your memory, Routine Inspections are regularly scheduled inspections completed to determine the physical and functional condition of a bridge. Routine Inspections also serve to ensure that a bridge continues to satisfy all applicable serviceability requirements. Routine Inspections are commonly referred to as normal NBIS inspections. I want to take this time to remind you that all of your inspection findings and my observations will be confidential. Do you have any general questions about this inspection?

Please keep the safety provisions we discussed yesterday in mind while you complete this inspection. Do you have any questions about any of these safety issues?

My role while you complete this inspection will be to simply observe and jot down some simple notes about what you are doing. I will not be assisting you as you complete this inspection. I want to also assure you that I am not scoring or grading you. I am simply taking notes about how and what you are doing. If you have any questions while you are completing the task, please feel free to ask me. If I am allowed to answer the question, I will be happy to do so. Do you have any questions about what my role will be?

You are to only use the forms that you prepared in advance.

Do you have any questions about what I am expecting?"

- 2. Give Task I pre-task questionnaire.
- 3. Read the following:

"We will now begin this inspection task. You have 2 hours to complete the Routine Inspection of the deck, superstructure, and substructure of the southern two spans of this bridge. This time limit has been developed from inspectors around the country. Although I must ask that you attempt to complete this task within the time allotted, you should also keep in mind the fact that this is not a race. Please perform this inspection as you would typically perform a Routine Inspection. However, please keep in mind that you must not damage the bridge in any way so that we can preserve its current state for other inspectors. For the purposes of this inspection, you do not need to determine underwater stream profiles or inspect non-structural elements like the approach rail. Do you have any questions? Let's begin."

- 4. Start the clock in the Palm Pilot (set for 2 hours).
- 5. Complete the during-task observation form.
- 6. If time runs out, ask the Inspector to stop, and make a note of where the inspector stopped.
- 7. Give the Task I post-task questionnaire.
- 8. Read the following:

APPENDIX F. SELF-REPORT QUESTIONNAIRES

SELF-REPORT QUESTIONNAIRE

Inspector ID: _____

Please note that all questions are voluntary. Additionally, note that, all answers are strictly confidential.

1.	Height:				
2.	How would Poor 1	you describe your ge Below Average 2			Superior 5
3.	Do you curr Yes	rently have any orthop No	pedic ailments (e.g. bad knees, bad l	back)?
	If so, list	:			
4.	Are you cur Yes	rently experiencing a No	ny temporary p	hysical ailments (e.g	g. flu, head cold, etc.)?
	If so, list	:			
5.	How would Poor 1	you describe your ge Below Average 2		ndition? Above Average 4	Superior 5
6.	Are you cur family, etc. Yes	rently experiencing a)? No	dditional stress	due to personal prob	plems (e.g. death in
7.		ay, how do you feel? Below Average 2	Average 3	Above Average 4	Superior 5
8.		verage bridge inspect or or temporarily stop Very Rarely 2		r feel so tired or win Often 4	nded that you have to Almost Always 5
	If so, und	der what conditions a	nd how often:		

9. Do you feel your work as a bridge inspector is important to public safety?				
Not at all	Slightly Important	Important	Very Important	Essential
1	2	3	4	5
10. Do you ev performin	ver assess the importanc g?	e to public saf	ety of the inspection th	at you are
Yes	No			
11. In general inspectior	, how would you descri 1?	be your level o	of mental focus over an	entire bridge
Poor	Slightly Unfocused	Average	Somewhat Focused	Very Focused
1	2	3	4	5
12. How inter Very Boring 1	esting is your work as a Boring 2	h bridge inspec Average 3	tor? Somewhat Interesting 4	Very Interesting 5
13. Imagine tl	ne following situation:			
	aspecting the superstruc and the only means of a 20 mph.		0	0
How fearf Very Fea	ful of the working heigh arful Somewhat Fe	• •		Fear

Very Fearful	Somewhat Fearful	Mostly Fearless	No Fear
1	2	3	4

14. Imagine the following situation:

You are inspecting the interior of a 150-ft-long prestressed concrete box girder. The only light source is your flashlight. Traffic on the bridge continues uninterrupted and you can feel every passing vehicle.

How fearful of working in this enclosed space would you be?			
Very Fearful	Somewhat Fearful	Mostly Fearless	No Fear
1	2	3	4

15. Imagine the following situations:

You are completing an In-Depth Inspection of a major two-lane divided highway bridge. Only one lane can be closed at a time. Most of your time is spent kneeling at deck level to inspect the deck.

How fearful of the vehicular traffic do you feel you would be?			
Very Fearful	Somewhat Fearful	Mostly Fearless	No Fear
1	2	3	4

16. Have you ever been involved in an accident where you as a pedestrian were struck by a moving vehicle?

Yes No

17. Have you ever been involved in an accident where you fell from typical bridge inspection working heights?

Yes No

18. What is the highest educational level that you have completed?

- _____ Some High School
- _____ High School Degree or equivalent
- _____ Some Trade School
- _____ Trade School Degree
- _____ Some College

Associate's Degree	Choose one	CE Technology	Other
Bachelor's Degree	Choose one	Civil Engineering	Other
Some Graduate Work	Choose one	Civil Engineering	Other
Master's Degree	Choose one	Civil Engineering	Other
Terminal Degree (e.g., Ph	.D.)Choose one	Civil Engineering	Other
Other:	·		

19. What specific type of training have you had in bridge inspection? (you may check more than one)

State Training

- _____ In-house state-run bridge inspection training program.
- _____ Apprentice training on the job by experienced inspectors.
- _____ Other: _____

FHWA Training

- _____ Bridge Inspector's Training Course Part I Engineering Concepts for Bridge Inspectors (NHI #13054)
- _____ Bridge Inspector's Training Course Part II Safety Inspection of In-Service Bridges (NHI #13055)
- _____ Inspection of Fracture Critical Bridge Members Training Course
- _____ Bridge Inspector's Training Course Refresher Training
- _____ Nondestructive Testing Methods for Steel Bridges
- _____ Culvert Design (NHI #13056)
- _____ Other: _____

Other: _____

- 20. How many years of experience do you have in bridge inspection?
- 21. How many years of experience do you have in highway structures?
- 22. Have you ever worked as an inspector in another industry (e.g., aircraft, nuclear power, etc.)?
 - Yes No
- 23. How many more years do you expect to be performing bridge inspection before you move to another job or retire?
- 24. Is your organization's bridge inspection philosophy more similar to a) or b)?
 - a) Provide an adequate inspection with the goal being to comply with NBIS.
 - _____ b) Provide a thorough inspection with the goal being to find all defects.
- 25. How do you mentally prepare to complete a typical bridge inspection? (you may check more than one)
 - _____ Study previous inspection reports for the particular bridge.
 - _____ Study cases of similar bridges for help in determining probable places to look for defects.
 - _____ Mentally recall similar bridges you have inspected.
 - _____ No preparation.
- 26. In general, do your supervisors: (check only **one**)
 - _____a) Provide you with a detailed checklist of items to inspect while at the bridge site?
 - _____ b) Provide loose guidelines for the inspection but leave the exact process up to you?
 - _____ c) Allow you to inspect the bridge using solely your own techniques, skills, and knowledge of the bridge inspection process?
- 27. How would you describe your relationship with your direct superior?Very PoorPoorAverageGoodVery Good12345
- 28. Do you feel that management feels that the work you do is important?Not at allSlightly ImportantImportantVery ImportantEssential12345
- 29. Within your duties for the State DOT, do you perform any work other than bridge inspection (i.e. construction inspection, etc.)? If so, what percentage of your time is spent at each activity?

Activity: Bridge Inspection	% of time:
Activity:	% of time:
Activity:	% of time:
Activity:	% of time:

- 30. Given the following two definitions:
 - Routine Inspection—Routine Inspections are regularly scheduled inspections completed to determine the physical and functional condition of a bridge and to identify changes from the last inspection. Further, Routine Inspections serve to ensure that a bridge continues to satisfy all applicable serviceability requirements. Routine Inspections are also commonly known as NBI inspections.
 - In-Depth Inspection—In-Depth Inspections are close-up, hands-on inspections of one or more bridge members in order to identify deficiencies not normally detectable during Routine Inspections.

What percentage of your inspection duties could be classified as Routine Inspections?

What percentage of your inspection duties could be classified as In-Depth Inspections?

31. For the following hypothetical bridge, how many people would make-up a field inspection team (excluding traffic control personnel), and how much time (in man-hours) would be budgeted?

Twenty-year-old, two-span bridge carrying two-lane road (medium ADT) over a small creek, maximum height above the creek is 20 ft.

Superstructure: Steel, four-girder superstructure (rolled shapes); welded flange cover plates; concrete deck.

Substructure: Concrete abutments, a single three-column concrete pier (with pier cap) out of the normal watercourse.

People:	
Man-hours:	

32. Estimate the percentage of bridge inspections completed with a registered Professional Engineer (PE) on-site? (*circle one*)

0-20 20-40 40-60 60-80 80-100

- 33. Do you currently take any of the following substances?
 - Bilberry Viagra B vitamin complex

Yes No

- 34. In comparison to other bridge inspectors, how would you classify yourself based on your past performance?
 Poor Below average Average Above average Excellent
 1
 2
 3
 4
 5
- 35. If it was under your control, how do you think that bridge inspections could be improved?

36. Have you ever seen a bridge failure in person?

Yes No

If yes, please describe:

37. What time zone do you normally work in?

38. Approximately how many bridges do you inspect each year?

39. Briefly describe how you became a bridge inspector?

40. Within your organization how important do you feel bridge inspection is?

Not Important Slightly Important Average Somewhat Important Very Important 1 2 3 4 5

EXIT SELF-REPORT QUESTIONNAIRE

Inspector ID: _____

Please note that all questions are voluntary. Additionally, note that, all answers are strictly confidential.

1.	Height:				
2.	C	l you describe your g	eneral physical o	condition?	
		Below Average			Excellent
	1	2	3	4	5
3.	Do you cur Yes	rently have any ortho No	opedic ailments (e.g. bad knees, bad l	back)?
	If so, lis	t:			
4.	Are you cu Yes	rrently experiencing No	any temporary p	hysical ailments (e.g	g. flu, head cold, etc.)?
	If so, lis	t:			
5.	How would	l you describe your g			
	Poor	Below Average	-	Above Average	
	1	2	3	4	5
6.		w do you feel today?			
	Poor	Below Average			
	1	2	3	4	5
7.		average bridge inspect er or temporarily stop		r feel so tired or win	nded that you have to
	Never	Very Rarely	Sometimes	Often	Almost Always
	1	2	3	4	5
	If so, un	der what conditions	and how often:		
8.	Do you fee	l your work as a brid	ge inspector is in	nportant to public sa	ıfety?
		Slightly Important			
	1	2	3	4	5

9. In general, how would you describe your level of mental focus over an entire bridg inspection?			entire bridge		
	Poor 1		Average 3	Somewhat Focused 4	Very Focused 5
	How intere ery Boring	esting is your work as a Boring	Average	tor? Somewhat Interesting	
	1	2	3	4	5
11.	-	more years do you ex job or retire?		forming bridge inspection	on before you move
12.	a) I	Provide an adequate ins	spection with t	pphy more similar to a) the goal being to compl ne goal being to find all	y with NBIS.
13	How would	d you describe your rel	ationship with	your direct superior?	
	/ery Poor	Poor	Average	Good	Very Good
	1	2	3	4	5
	-	-		k you do is important?	
1	Not at all	Slightly Important 2	Important 3	Very Important 4	Essential 5
	1	Z	5	4	5
15.	Do you cui	rrently take any of the	following subs	stances?	
	Bilberry				
	Viagra				
	B vitamin	complex			
	Yes	No			
16.	In compari past perfor		pectors, how v	vould you classify your	self based on your
	Poor	Below average	Average	Above average	Excellent
	1	2	3	4	5
17.	If it was ur	nder your control, how	do you think t	hat bridge inspections of	could be improved?

F-10

18.	•	ever seen a bridge failure in person? No	
	If yes, plea	ase describe:	
19.	9. Approximately how many bridges do you inspect each year?		
20.	Briefly describe how you became a bridge inspector.		
21.	Within you	ur organization, how important do you feel bridge inspection is?	
Not	t Important 1	Slightly ImportantAverageSomewhat Important Very Important2345	
22.	Did you er	njoy participating in these inspection tasks?	
	Yes	No	
23.	Do you fee	el that the observers did a good job?	
	Yes	No	

24. On a scale from one to ten, what rating would you give the observers (1 = poor, 10 = excellent)?

APPENDIX G. INSPECTOR CHARACTERIZATION PROTOCOLS

PROTOCOL FOR THE ADMINISTRATION OF THE SELF-REPORT QUESTIONNAIRE

The following will outline the standard protocol that must be followed during the administration of the self-report questionnaire:

1. Observer reads the following:

"I am now going to ask you to complete a self-report questionnaire. Before we go any further, I would like to assure you that all answers provided on this questionnaire are strictly confidential. As you can see, the answers provided in this questionnaire can only be identified by an inspector ID number. This ID number will not be linked to you or to your inspection agency in any way. With this strict confidentiality in mind, I ask that you answer all questions as honestly as you can. If, however, you feel that a question is too personal for you to answer or you simply don't want to answer the question, feel free to skip it and go on to the next one. Before we go any further, do you have any questions about anything I have said so far?"

2. Observer reads the following:

"The survey has been developed to assess the general condition of inspectors. Additionally, this survey will give us some insight into your views on the specific operation of your inspection agency. Please take your time filling out this survey and feel free to ask me any questions that you may have. When I can, I will answer them as best I can. Again, let me remind you that all information that you provide is strictly confidential and all questions on this survey are completely voluntary."

- 3. Observer writes the inspector's ID on the self-report questionnaire and gives the questionnaire to the inspector. Observers should busy themselves so as not to appear to be watching the inspector complete the questionnaire. Observers should, however, remain within close proximity to the inspector in order to answer appropriate questions.
- 4. Observer places the completed questionnaire into the inspector's folder and reads the following:

"Thank you for taking the time to complete the questionnaire. The answers you have provided will prove to be invaluable in this study."

PROTOCOL FOR THE ADMINISTRATION OF THE NEAR VISUAL ACUITY TEST

The following will outline the standard protocol that must be followed during the administration of the "Logarithmic Near Visual Acuity Chart 2000" test:

1. Observer reads the following:

"I am now going to ask you to take what is known as the "Logarithmic Near Visual Acuity Chart 2000" vision test. This test is similar to standardized vision tests commonly given in a doctor's office. Please recall that all test results are strictly confidential. What I will ask you to do during this test is to hold this small card 16 inches from your eyes as measured by this string and to read as much of the card as you can. Each eye will be tested individually and the card will be different for each eye. You will start by reading across the chart slowly, letter by letter, beginning with the first letter in the top row. Only one reading of each letter is allowed, so it is important to be careful while reading. When you have difficulty reading a letter, you are encouraged to guess. I will let you know when you can stop the test. To ensure that I am able to record your answers as fast as you read them, I ask that you stop at the end of each line until I direct you to start the next line. Do you have any questions about what I have said so far?"

2. Observer reads the following after handing the card to the inspector with CHART 1 facing up:

"Please hold the black cord in your left hand directly next to your left eye and place the card in the holder on the table. Cover your left eye with this occluder and begin reading the card from the top left as I had described. Remember to stop after reading each line until I tell you to go on to the next line."

- 3. On the prepared form, observer circles each letter when it is correctly read. Stop the test when it is clear that the inspector is no longer able to see the letters.
- 4. On the prepared form, observer records the acuity (given on the right side of the chart) for the last line in which the inspector got at least three letters correct. Observer also records this value on the Palm Pilot form where appropriate.
- 5. Observer reads the following after handing the card to the inspector with CHART 2 facing up:

"Please hold the black cord in your left hand directly next to your left eye and place the card in the holder on the table. Cover your right eye with this occulder and begin reading the card from the top left as I had described. Remember to stop after reading each line until I tell you to go on to the next line."

6. On the prepared form, observer circles each letter when it is correctly read. Observer stops the test when it is clear that the inspector is no longer able to see the letters.

- 7. On the prepared form, observer records the acuity (given on the right side of the chart) for the last line in which the inspector got at least three letters correct. Observer also records this value on the Palm Pilot form where appropriate.
- 8. Observer reads the following:

"Do you have any questions about this test?"

9. Observer returns the card to its protective bag.

PROTOCOL FOR THE ADMINISTRATION OF THE DISTANCE VISUAL ACUITY TEST

The following will outline the standard protocol that must be followed during the administration of the "Logarithmic Visual Acuity Chart 2000" test:

1. Observer reads the following:

"I am now going to ask you to take what is known as the logarithmic visual acuity chart "2000" vision test. This test is similar to standardized vision tests commonly given in a doctor's office. Please recall that all test results are strictly confidential. What I will ask you to do during this test is to stand 13 feet from the vision chart and to read as much of the chart as you can. Each eye will be tested individually and the chart will be different for each eye. You will start by reading across the chart slowly, letter by letter, beginning with the first letter in the top row. Only one reading of each letter is allowed, so it is important to be careful while reading. When you have difficulty reading a letter, you are encouraged to guess. I will let you know when you can stop the test. To ensure that I am able to record your answers as fast as you read them, I ask that you stop at the end of each line until I direct you to start the next line. Do you have any questions about what I have said so far?"

- 2. Observer gives the inspector the occluder and asks the inspector to stand behind the designated line, facing away from the light box.
- 3. Observer places CHART 1 in the light box and turns on the light box.
- 4. Observer reads the following:

"Would you please turn around and cover your left eye with the occluder and begin reading the chart from the top left as I had described. Remember to stop after reading each line until I tell you to go on to the next line."

- 5. On the prepared form, observer circles each letter when it is correctly read. Observer stops the test when it is clear that the inspector is no longer able to see the letters.
- 6. On the prepared form, observer records the acuity (given on the right side of the chart) for the last line in which the inspector got at least three letters correct. Observer also records this value on the Palm Pilot form where appropriate.
- 7. Observer reads the following:

"Would you please face away from the chart while I change the chart."

- 8. Observer places CHART 2 in the light box.
- 9. Observer reads the following:

"Would you please turn around and cover your right eye with the occluder and begin reading the chart from the top left as I had described. Remember to stop after reading each line until I tell you to go on to the next line."

- 10. On the prepared form, observer circles each letter when it is correctly read. Observer stops the test when it is clear that the inspector is no longer able to see the letters.
- 11. On the prepared form, observer records the acuity (given on the right side of the chart) for the last line in which the inspector got at least three letters correct. Observer also records this value on the Palm Pilot form where appropriate.
- 12. Turn off the light box and place both charts in the back of the light box.

PROTOCOL FOR THE ADMINISTRATION OF THE PV-16 COLOR VISION TEST

The following will outline the standard protocol that must be followed during the administration of the PV-16 quantitative color vision test:

1. Observer reads the following:

"I am now going to ask you to take what is known as the PV-16 quantitative color vision test. Quantitative measurement of color vision is an important diagnostic test used to define the degree of hereditary color vision deficiency and to evaluate deficient color vision from acquired disorders. The goal of this test is to establish what your color vision is. Please remember that all results obtained during this experiment are strictly confidential. What you will be asked to do during this test is to arrange these 16 caps in order. The order will be established by sequencing the caps in such a manner that adjacent caps are closest in color. When we begin, I will give you what is known as the pilot cap. This cap will serve as your starting point. You will be asked to complete this test a total of four times. Do you have any questions about what I have said so far?"

- 2. Observer removes the caps from the protective case.
- 3. Observer places the reduction rings on all of the caps.
- 4. Observer locates the pilot cap.
- 5. Observer randomly mixes up the caps face up on the table.
- 6. Observer reads the following:

"Would you now sequence the caps as I had previously described such that adjacent caps are closest in color, beginning with the pilot cap."

- 7. After the inspector lines them up, starting with the pilot cap, observer completes the prepared form (Precision Vision form) by turning the caps over such that the inspector cannot see the numbers or the prepared form.
- 8. Observer mixes up the caps face up on the table and reads the following:

"Would you now sequence the caps as I had previously described such that adjacent caps are closest in color, beginning with the pilot cap."

- 9. While the inspector is completing the second trial, observer notes test results on Palm Pilot laboratory test form, noting the following information:
 - Number of minor confusions (number of adjacent caps that are reversed).

- Number of crossings across color circle (number of times there is an error other than a minor confusion).
- Type of color vision deficiency (if any).
- 10. After inspector lines them up, starting with the pilot cap, observer completes the prepared form (Precision Vision form) by turning the caps over such that the inspector cannot see the numbers or the prepared form.
- 11. Observer removes the reduction rings.
- 12. Observer repeats steps 6 through 9 two more times.
- 13. Observer reads the following:

"Do you have any questions for me about the PV-16 quantitative color vision test?"

- 14. Observer records the inspector's ID on the prepared form (Precision Vision form) and initials the bottom of the form. Observer places prepared form in the inspector's folder.
- 15. Observer places all of the caps into the protective case.

APPENDIX H. PRE-EXPERIMENT EVALUATION FORMS

TASK A PRE-EXPERIMENT EVALUATION FORM

- 1. Inspector ID: _____
- 2. Date: _____
- 3. Time: _____
- 4. How long has it been since you completed a Routine Inspection of a bridge of this type? (Note: Record time in weeks.) _____
- 5. What accessibility equipment/vehicles would you normally use for a Routine Inspection of this type?
 - ____ Snooper
 - ____ Lift
 - ____ Ladder
 - ____ Scaffold
 - Climbing Equipment
 - ____ Permanent Inspection Platform
 - ____ Movable Platform
 - ____ None
 - ____ Other: _____
- 6. Describe, as completely as you can, the type of construction used on this bridge.
 - ____ Steel through girder
 - ____ Plate girder
 - ____ Riveted
 - ____ Fracture-critical
 - ____ Cast-in-place concrete slab
 - ____ Simply supported
 - ____ Skewed
 - ____ Floor beams
 - ____ Asphalt overlay
 - ____ Other: _____
- 7. Given a bridge of this type, general condition, and age, what types of problems would you expect to find?
 - ____ Cracked/debonded/loose asphalt
 - ____ Steel corrosion/section loss
 - ____ Paint deterioration
 - ____ Concrete deterioration
 - ____ Inadequate concrete cover
 - ____ Impact damage
 - ____ Fatigue cracking
 - ____ Settlement cracking of abutments
 - ____ Missing rivets/rivetheads
 - ____ Underside deck cracking
 - ____ Leaching

 Leakage	
 Other:	

- 8. Given the available equipment and the defined tasks, how long do you think you would normally spend on this inspection? (Note: Record time in minutes.)
- 9. How rested are you? 1 2 3 4 5 6 7 8 9 Very Tired Very Rested
- 10. Would you normally inspect under these weather conditions? Yes No
- 11. General Observer Notes:

TASK B PRE-EXPERIMENT EVALUATION FORM

- 1. Inspector ID: _____
- 2. Date: _____
- 3. Time: _____
- 4. How long has it been since you completed a Routine Inspection of a bridge of this type? (Note: Record time in weeks.)
- 5. What accessibility equipment/vehicles would you normally use for a Routine Inspection of this type?
 - ____ Snooper
 - ____ Lift
 - ____ Ladder
 - ____ Scaffold
 - ____ Climbing Equipment
 - ____ Permanent Inspection Platform
 - ____ Movable Platform
 - ____ None
 - ____ Other: _____
- 6. Describe, as completely as you can, the type of construction used on this bridge.
 - ____ Concrete T-beam
 - ____ Cast-in-place reinforced concrete
 - ____ Simply supported
 - ____ Other: _____
- 7. Given a bridge of this type, general condition, and age, what types of problems would you expect to find?
 - ____ Concrete deterioration
 - ____ Inadequate concrete cover
 - ____ Spalling
 - ____ Freeze/thaw damage
 - ____ Impact damage
 - ____ Delaminations
 - ____ Settlement cracking of abutments
 - ____ Expansion joint deterioration
 - ____ Underside deck cracking
 - ____ Leaching
 - ____ Leakage
 - ____ Other:_____
- 8. Given the available equipment and the defined tasks, how long do you think you would normally spend on this inspection? (Note: Record time in minutes.)

9.	How rested are you?												
		1	2	3	4	5	6	7	8	9			
	Ve	ry Tire	ed						Ve	ery Rest	ed		

10. Would you normally inspect under these weather conditions? Yes No

11. General Observer Notes:

TASK C PRE-EXPERIMENT EVALUATION FORM

- 1. Inspector ID: _____
- 2. Date: _____
- 3. Time: _____

SKIP the following if AFTER another T-beam task:

4. How long has it been since you completed a Routine Inspection of a bridge of this type? (Note: Record time in weeks.)

SKIP the following if AFTER another T-beam task:

- 5. What accessibility equipment/vehicles would you normally use for a Routine Inspection of this type?
 - ____ Snooper
 - ____ Lift
 - ____ Ladder
 - ____ Scaffold
 - ____ Climbing Equipment
 - ____ Permanent Inspection Platform
 - ____ Movable Platform
 - ___ None
 - ____ Other: _____

SKIP the following if AFTER another T-beam task:

- 6. Describe, as completely as you can, the type of construction used on this bridge.
 - ____ Concrete T-beam
 - ____ Cast-in-place reinforced concrete
 - ____ Simply supported
 - ____ Skewed
 - ____ Other: _____

SKIP the following if AFTER another T-beam task:

- 7. Given a bridge of this type, general condition, and age, what types of problems would you expect to find?
 - ____ Concrete deterioration
 - ____ Inadequate concrete cover
 - ____ Spalling
 - ____ Freeze/thaw damage
 - ____ Impact damage
 - ____ Delaminations
 - ____ Settlement cracking of abutments
 - ____ Expansion joint deterioration
 - ____ Underside deck cracking
 - ____ Leaching
 - ____ Leakage
 - ____ Other: _____

SKIP the following if AFTER another T-beam task:

- 8. Given the available equipment and the defined tasks, how long do you think you would normally spend on this inspection? (Note: Record time in minutes.)
- 9. How rested are you?

1 2 3 4 5 6 7 8 9 Very Tired Very Rested

- 10. Would you normally inspect under these weather conditions? Yes No
- 11. General Observer Notes:

TASK D PRE-EXPERIMENT EVALUATION FORM

- 1. Inspector ID: _____
- 2. Date: _____
- 3. Time: _____
- 4. How long has it been since you completed a Routine Inspection of a bridge of this type? (Note: Record time in weeks.)
- 5. What accessibility equipment/vehicles would you normally use for a Routine Inspection of this type?
 - ____ Snooper
 - ____ Lift
 - ____ Ladder
 - ____ Scaffold
 - Climbing Equipment
 - ____ Permanent Inspection Platform
 - ____ Movable Platform
 - ____ None
 - ____ Other: _____
- 6. Describe, as completely as you can, the type of construction used on this bridge.
 - ____ Concrete rigid frame
 - ____ Skewed
 - ____ Other: _____
- 7. Given a bridge of this type, general condition, and age, what types of problems would you expect to find?
 - ____ Concrete deterioration
 - ____ Inadequate concrete cover
 - ____ Spalling
 - ____ Freeze/thaw damage
 - ____ Impact damage
 - ____ Delaminations
 - ____ Settlement cracking of abutments
 - ____ Expansion joint deterioration
 - ____ Underside deck (arch) cracking
 - ____ Leaching
 - ____ Leakage
 - ____ Other: _____
- 8. Given the available equipment and the defined tasks, how long do you think you would normally spend on this inspection? (Note: Record time in minutes.)

9.	How rested are you?												
		1	2	3	4	5	6	7	8	9			
	Ve	ry Tire	ed						Ve	ery Rest	ed		

10. Would you normally inspect under these weather conditions? Yes No

11. General Observer Notes:

TASK E PRE-EXPERIMENT EVALUATION FORM

- 1. Inspector ID: _____
- 2. Date: _____
- 3. Time: _____
- 4. How long has it been since you completed a Routine Inspection of a bridge of this type? (Note: Record time in weeks.)
- 5. What accessibility equipment/vehicles would you normally use for a Routine Inspection of this type?
 - ____ Snooper
 - ____ Lift
 - ____ Ladder
 - ____ Scaffold
 - ____ Climbing Equipment
 - ____ Permanent Inspection Platform
 - ____ Movable Platform
 - ____ None
 - ____ Other: _____
- 6. Describe, as completely as you can, the type of construction used on this bridge.
 - ____ Steel plate girder
 - ____ Riveted
 - ____ Cast-in-place concrete slab
 - ____ Simply supported
 - ____ Skewed
 - ____ Floor beams and sway frames
 - ____ Asphalt overlay
 - ____ Other: _____
- 7. Given a bridge of this type, general condition, and age, what types of problems would you expect to find?
 - ____ Cracked/debonded/loose asphalt
 - ____ Steel corrosion and section loss
 - ____ Paint deterioration
 - ____ Concrete deterioration
 - ____ Inadequate concrete cover
 - ____ Impact damage
 - ____ Settlement cracking of abutments
 - ____ Missing rivets/rivetheads
 - ____ Underside deck cracking
 - ____ Fatigue cracking of tack welds
 - ____ Leaching
 - ____ Leakage
 - ____ Other: _____

- 8. Given the available equipment and the defined tasks, how long do you think you would normally spend on this inspection? (Note: Record time in minutes.)
- 9. How rested are you?

123456789Very TiredVery Rested

- 10. Would you normally inspect under these weather conditions? Yes No
- 11. General Observer Notes:

TASK F PRE-EXPERIMENT EVALUATION FORM

- 1. Inspector ID: _____
- 2. Date: _____
- 3. Time: _____
- 4. How long has it been since you completed an In-Depth Inspection of this type on a bridge of this type? (Note: Record time in weeks.)
- 5. What accessibility equipment/vehicles would you normally use for an In-Depth Inspection of this type?
 - ____ Snooper
 - ____ Lift
 - ____ Ladder
 - ____ Scaffold
 - Climbing Equipment
 - ____ Permanent Inspection Platform
 - ____ Movable Platform
 - ____ None
 - ____ Other: _____
- 6. Have you ever completed an inspection from a lift similar to this one? Yes No
- 7. Given the available equipment and the defined tasks, how long do you think you would normally spend on this inspection? (Note: Record time in minutes.)
- 8. How rested are you? 1 2 3 4 5 6 7 8 9 Very Tired Very Rested
- 9. Would you normally inspect under these weather conditions? Yes No
- 10. General Observer Notes:

TASK G PRE-EXPERIMENT EVALUATION FORM

- 1. Inspector ID: _____
- 2. Date: _____
- 3. Time: _____

4. Was Task 1 or Task 2 performed first? Task 1 Task 2

- 5. How long has it been since you completed a Routine Inspection of a bridge of this type? (Note: Record time in weeks.)
- 6. What accessibility equipment/vehicles would you normally use for a Routine Inspection of this type?
 - ____ Snooper
 - ____ Lift
 - ____ Ladder
 - ____ Scaffold
 - ____ Climbing Equipment
 - ____ Permanent Inspection Platform
 - ____ Movable Platform
 - ____ None
 - Other:
- 7. Describe, as completely as you can, the type of construction used on this bridge.
 - ____ Steel girder
 - ____ Welded plate girder
 - ____ Multi-girder
 - ____ Reinforced concrete deck
 - ____ Continuous superstructure
 - ____ Rocker bearings
 - ____ Concrete piers
 - ____ Single-angle cross-bracing
 - ____ Composite construction ____ Composite construction ____ Other: _____
- 8. Given a bridge of this type, general condition, and age, what types of problems would you expect to find?
 - ____ Steel corrosion/section loss
 - ____ Fatigue cracking
 - ____ Concrete deterioration
 - ____ Impact damage
 - ____ Paint deterioration
 - ____ Locked bearings
 - ____ Underside deck cracking
 - ____ Deck delaminations
 - ____ Expansion joint deterioration

Leaching	
Leakage	
Other:	

9. Given the available equipment and the defined tasks, how long do you think you would normally spend on this inspection? (Note: Record time in minutes.)

10. How res	sted are	you?								
	1	2	3	4	5	6	7	8	9	
V	ery Tire	d						Ve	ry Reste	ed

- 11. Would you normally inspect under these weather conditions? Yes No
- 12. General Observer Notes:

TASK H PRE-EXPERIMENT EVALUATION FORM

- 1. Inspector ID: _____
- 2. Date: _____
- 3. Time: _____
- 4. How long has it been since you completed an In-Depth Inspection of this type on a bridge of this type? (Note: Record time in weeks.)
- 5. What accessibility equipment/vehicles would you normally use for an In-Depth inspection of this type?
 - ____ Snooper
 - ____ Lift
 - ____ Ladder
 - ____ Scaffold
 - Climbing Equipment
 - ____ Permanent Inspection Platform
 - ____ Movable Platform
 - ____ None
 - ____ Other: _____
- 6. Have you ever completed an inspection from a lift similar to this one? Yes No
- 7. How often do you perform inspections at heights above 40 ft? (Note: Record amount in frequency per year.)
- 8. Describe, as completely as you can, the type of construction used on this bridge.
 - ____ Steel girder
 - ____ Welded plate girder
 - ____ Multi-girder
 - ____ Reinforced concrete deck
 - ____ Continuous superstructure
 - ____ Rocker bearings
 - ____ Concrete piers
 - _____ Single-angle cross-bracing
 - ____ Composite construction
 - ____ Other: _____
- 9. Given a bridge of this type, general condition, and age, what types of problems would you expect to find?
 - ____ Steel corrosion/section loss
 - ____ Fatigue cracking
 - ____ Concrete deterioration
 - ____ Impact damage
 - ____ Paint deterioration

- ____ Locked bearings
- ____ Underside deck cracking
- ____ Deck delaminations
- ____ Expansion joint deterioration
- ____ Leaching
- ____ Leakage
- ____ Other: _____
- 10. Given the available equipment and the defined tasks, how long do you think you would normally spend on this inspection? (Note: Record time in minutes.)
- 11. How rested are you?

1 2 3 4 5 6 7 8 9 Very Tired Very Rested

- 12. Would you normally inspect under these weather conditions? Yes No
- 13. General Observer Notes:

TASK I PRE-EXPERIMENT EVALUATION FORM

- 1. Team ID: _____
- 2. Date: _____
- 3. Time: _____
- 4. How long has it been since you completed a Routine Inspection of a bridge of this type (Inspector #1)? (Note: Record time in weeks.)
- 5. How long has it been since you completed a Routine Inspection of a bridge of this type (Inspector #2)? (Note: Record time in weeks.)
- 6. How long did you spend preparing to complete this inspection prior to arriving at the bridge site? (Note: Record time in man-hours.)
- 7. What accessibility equipment/vehicles would you normally use for a Routine Inspection of this type?
 - ____ Snooper
 - ____ Lift
 - ____ Ladder
 - ____ Scaffold
 - ____ Climbing Equipment
 - ____ Permanent Inspection Platform
 - ____ Movable Platform
 - ___ None
 - ____ Other: _____
- 8. Given a bridge of this type, general condition, and age, what types of problems would you expect to find?
 - ____ Steel corrosion/section loss
 - ____ Fatigue cracking
 - ____ Concrete deterioration
 - ____ Impact damage
 - ____ Paint deterioration
 - ____ Locked bearings
 - ____ Underside deck cracking
 - ____ Deck delaminations
 - ____ Expansion joint deterioration
 - ____ Leaching
 - ____ Leakage
 - ____ Other: _____
- 9. Given the available equipment and the defined tasks, how long do you think you would normally spend on this inspection? (Note: Record team time in minutes.)

10. Hov	v rested are	you (In	spector	r #1)?						
	1	2	3	4	5	6	7	8	9	
	Very Tire	d						Ve	ery Rested	
11. Hov	v rested are	you (In	spector	r #2)?						
	1	2	3	4	5	6	7	8	9	
	Very Tire	d						Ve	ery Rested	

12. Would you normally inspect under these weather conditions? Yes No

13. General Observer Notes:

APPENDIX I. POST-EXPERIMENT EVALUATION FORMS

TASK A POST-EXPERIMENT EVALUATION FORM

1. 2.	Inspector ID: Time:						
3.	How similar were these Inspections?	e inspec	ction tas	sks to th	e tasks	perform	ned in your normal Routine
	1 2 Not Similar	3	4	5	6	7	8 9 Very Similar
4.	Did this task do an accu	urate jo	b of me	easuring	your in	nspectio	n skills?
	1 2 Very Inaccurate	3		5	-	7	8 9 Very Accurate
5.	How rested are you? $1 2$	3	4	5	6	7	8 9
	Very Tired	3	4	5	0	/	Very Rested
6.	How well did you unde	erstand	the inst	ruction	s vou w	ere give	n?
	1 2	3		5		7	8 9
	Very Poorly						Very Well
7.	How accessible do you						
	1 2 Very Inaccessible	3	4	5	6	7	8 9
							Very Accessible
	very maccessible						Very Accessible
8.	·	-					ld have liked to inspect, but
	Were there any inacces could not?						ld have liked to inspect, but
	Were there any inacces could not? How well do you feel t 1 2		bridge		en main		Ild have liked to inspect, but
	Were there any inacces could not? How well do you feel t	hat this	bridge	has bee	en main	tained?	Ild have liked to inspect, but
9.	Were there any inaccess could not? How well do you feel t 1 2 Very Poorly	hat this 3	bridge 4	has bee	en main	tained?	Ild have liked to inspect, but
9.	Were there any inaccess could not? How well do you feel t 1 2 Very Poorly How complex was this 1 2	hat this 3	bridge 4	has bee	en main	tained?	lld have liked to inspect, but 8 9 Very Well 8 9
9.	Were there any inacces could not? How well do you feel t 1 2 Very Poorly How complex was this	hat this 3 bridge	bridge 4 ?	has bee 5	en main 6	tained? 7	lld have liked to inspect, but 8 9 Very Well
9. 10	Were there any inaccess could not? How well do you feel t 1 2 Very Poorly How complex was this 1 2	hat this 3 bridge 3 nce as a	bridge 4 ? 4 an obser	has bee 5 5 rver hac	en main 6 6 I any in	tained? 7 7	lld have liked to inspect, but 8 9 Very Well 8 9 Very Complex on your inspection?
9. 10	Were there any inaccess could not? How well do you feel t 1 2 Very Poorly How complex was this 1 2 Very Simple Do you think my prese 1 2	hat this 3 bridge 3	bridge 4 ? 4	has bee 5 5	en main 6 6	tained? 7 7	lld have liked to inspect, but 8 9 Very Well 8 9 Very Complex on your inspection? 8 9
9. 10	Were there any inacces could not? How well do you feel t 1 2 Very Poorly How complex was this 1 2 Very Simple	hat this 3 bridge 3 nce as a	bridge 4 ? 4 an obser	has bee 5 5 rver hac	en main 6 6 I any in	tained? 7 7 fluence	lld have liked to inspect, but 8 9 Very Well 8 9 Very Complex on your inspection?
9. 10 11	Were there any inaccess could not? How well do you feel t 1 2 Very Poorly How complex was this 1 2 Very Simple Do you think my prese 1 2 No Influence	hat this 3 bridge 3 nce as a 3 nile con	bridge 4 ? 4 an obser 4	has bee 5 5 rver hac 5 g this tas	en main 6 6 I any in 6 sk?	tained? 7 7 fluence 7	lld have liked to inspect, but 8 9 Very Well 8 9 Very Complex on your inspection? 8 9 Great Influence
9. 10 11	Were there any inaccess could not? How well do you feel t 1 2 Very Poorly How complex was this 1 2 Very Simple Do you think my prese 1 2 No Influence	hat this 3 bridge 3 nce as a 3	bridge 4 ? 4 an obser 4	has bee 5 5 rver hac 5	en main 6 6 I any in 6	tained? 7 7 fluence	lld have liked to inspect, but 8 9 Very Well 8 9 Very Complex on your inspection? 8 9

13. What was your effort level on this task in comparison with your normal effort level?											
	1				5	-	•		9		
	Much Lo	wer			Average			Much Greater			
14. How thorough were you in completing this task in comparison to your normal inspection?											
14. Ho	w thorougl	n were yo	ou in co	mpletir	ng this ta	sk in co	omparis	on to ye	our normal ir	spection?	
	1	2	3	4	5	6	7	8	9		
	Less Thor	ough			Average			Mor	e Thorough		
15 5							66				
15. Dic	•	• •	ific dist	raction	is that ad	versely	affecte	d your 1	nspection?		
	Hung										
	"Nati	ure calls"									
	Acce	ss equipr	nent sta	bility							
	Heig	ht									
	Temp	perature									
	Hum	idity									
	Wind	1									
	Traff	ïc									
	Noise	e									
	Othe	r:									

16. What other tools would you have normally used during an inspection of this type?

- 17. Are there any follow-up inspection or maintenance actions that you would recommend to your supervisor?
- 18. Is there anything about this task or your performance that you would like me to make note of? ______
- 19. General Observer Notes:

TASK B POST-EXPERIMENT EVALUATION FORM

1. 2.	Inspector ID: Time:						
3.	How similar were these Inspections?	e inspec	ction tas	sks to th	e tasks	perform	ned in your normal Routine
	1 2 Not Similar	3	4	5	6	7	8 9 Very Similar
4.	Did this task do an accu	urate jo	b of me	asuring	your ir	nspectio	n skills?
	1 2	3	4	5	6	7	8 9
	Very Inaccurate						Very Accurate
5.	How rested are you?						
	1 2	3	4	5	6	7	8 9
	Very Tired						Very Rested
6	How well did you unde	rstand	the inst	ruction		ere give	n9
0.	1 2	3		5	•	7	8 9
	Very Poorly						Very Well
_							
7.	How accessible do you $1 2$			-	-		
	1 2 Very Inaccessible	3	4	5	6	7	8 9 Very Accessible
	very maccossione						
							Very Accessible
8.	Were there any inacces could not?	-					ld have liked to inspect, but
	could not?						ld have liked to inspect, but
	could not? How well do you feel t	hat this	bridge	has bee	en maint	tained?	Ild have liked to inspect, but
	could not?			has bee	en maint		Ild have liked to inspect, but
	could not? How well do you feel t 1 2	hat this	bridge	has bee	en maint	tained?	Ild have liked to inspect, but
9.	could not? How well do you feel t 1 2 Very Poorly . How complex was this	hat this 3 bridge	bridge 4	has bee 5	en maint 6	tained? 7	lld have liked to inspect, but 8 9 Very Well
9.	could not? How well do you feel t 1 2 Very Poorly . How complex was this 1 2	hat this 3	bridge 4	has bee	en maint	tained?	lld have liked to inspect, but 8 9 Very Well 8 9
9.	could not? How well do you feel t 1 2 Very Poorly . How complex was this	hat this 3 bridge	bridge 4	has bee 5	en maint 6	tained? 7	lld have liked to inspect, but 8 9 Very Well
9. 10	could not? How well do you feel t 1 2 Very Poorly . How complex was this 1 2 Very Simple	hat this 3 bridge ⁴ 3	bridge 4 ? 4	has bee 5	en maint 6 6	tained? 7 7	lld have liked to inspect, but 8 9 Very Well 8 9 Very Complex
9. 10	could not? How well do you feel t 1 2 Very Poorly . How complex was this 1 2 Very Simple . Do you think my prese 1 2	hat this 3 bridge ⁴ 3	bridge 4 ? 4	has bee 5	en maint 6 6	tained? 7 7	lld have liked to inspect, but 8 9 Very Well 8 9 Very Complex
9. 10	could not? How well do you feel t 1 2 Very Poorly . How complex was this 1 2 Very Simple . Do you think my prese	hat this 3 bridge ⁴ 3 nce as a	bridge 4 ? 4 an obser	has bee 5 5 rver had	en maint 6 6 I any in	tained? 7 7 fluence	lld have liked to inspect, but 8 9 Very Well 8 9 Very Complex on your inspection?
9. 10 11	could not? How well do you feel t 1 2 Very Poorly . How complex was this 1 2 Very Simple . Do you think my prese 1 2 No Influence	hat this 3 bridge ⁶ 3 nce as a 3	bridge 4 ? 4 an obser 4	has bee 5 5 rver had 5	en maint 6 6 I any in: 6	tained? 7 7 fluence	lld have liked to inspect, but 8 9 Very Well 8 9 Very Complex on your inspection? 8 9
9. 10 11	could not? How well do you feel t 1 2 Very Poorly . How complex was this 1 2 Very Simple . Do you think my prese 1 2	hat this 3 bridge ⁶ 3 nce as a 3	bridge 4 ? 4 an obser 4	has bee 5 5 rver had 5	en maint 6 6 I any in: 6	tained? 7 7 fluence	lld have liked to inspect, but 8 9 Very Well 8 9 Very Complex on your inspection? 8 9
9. 10 11	could not? How well do you feel t 1 2 Very Poorly . How complex was this 1 2 Very Simple . Do you think my prese 1 2 No Influence	hat this 3 bridge 3 nce as a 3 iile con	bridge 4 ? 4 an obser 4 npleting	has bee 5 5 rver hac 5 this tas	en maint 6 I any in 6 sk?	tained? 7 7 fluence 7	lld have liked to inspect, but 8 9 Very Well 8 9 Very Complex on your inspection? 8 9 Great Influence

13. What was your effort level on this task in comparison with your normal effort level?										
1	2	3	4	5	6	7	8	9		
Much Lov	ver			Average			Much Greater			
14. How thorough	were yo	u in co	mpletii	ng this ta	sk in co	omparis	on to your	r normal insp	pection?	
1	2	3	4	5	6	7	8	9		
Less Thoro	ugh			Average			More 7	Thorough		
15. Did you have a	iny spec	ific dist	tractior	ns that ad	versely	v affecte	d your ins	pection?		
Hunge										
"Natu										
Acces		nent sta	ıbility							
Heigh										
Temp										
Humi	dity									
Wind										
Traffi										
Noise										
Other						-				

16. What other tools would you have normally used during an inspection of this type?

- 17. Are there any follow-up inspection or maintenance actions that you would recommend to your supervisor?
- 18. Is there anything about this task or your performance that you would like me to make note of? ______
- 19. General Observer Notes:

TASK C POST-EXPERIMENT EVALUATION FORM

1. 2.	Inspector ID: Time:								
3.	How similar were Inspections?	these ins	pection ta	asks to tl	ne tasks	perforn	ned in y	our normal Routine	
		2 3	4	5	6	7	-		
	Not Similar						Ve	ry Similar	
SK	XIP the following if	AFTER	another	· T-bear	n task:				
4.	Did this task do an	accurate	e job of n				n skills'	?	
	1 2	2 3	4	5	6	7	8	9	
	Very Inaccurat	e					Ver	y Accurate	
_	TT / 1	0							
5.	How rested are you		1	5	6	7	8	0	
		2 3	4	5	0	7		-	
	Very Tired						ve	ery Rested	
6	How well did you	understa	nd the ins	struction	s voli we	ere give	en?		
0.	-		4		6 you w	7	8	9	
	Very Poorly	- 0	•	U U	U		-	ery Well	
	j i i j							J	
7	How accossible do	tion foot	41	1 • 1			0		
7.	How accessible do	you leel	the vario	ous bridg	ge comp	onents v	were?		
7.		$2 \qquad 3$		ous bridg			were? 8	9	
7.		2 3					8	9 y Accessible	
	1 Very Inaccessi Were there any ina	2 3 ble accessible	4	5 the brid	6 ge that y	7 /ou wou	8 Ver		t
8.	1 2 Very Inaccessi Were there any ina could not?	2 3 ble accessible	4 e parts of	5 the brid	6 ge that y	7 /ou wou	8 Ver	y Accessible	t
8.	1 2 Very Inaccessi Were there any inaccould not? How well do you f	2 3 ble accessible feel that t	4 e parts of his bridg	5 the brid e has be	6 ge that y en maint	7 /ou wou tained?	8 Ver	y Accessible	t
8.	1 2 Very Inaccessi Were there any inaccould not? How well do you f 1	2 3 ble accessible feel that t	4 e parts of his bridg	5 the brid	6 ge that y en maint	7 /ou wou	8 Ver ild have	y Accessible liked to inspect, bu	t
8.	1 2 Very Inaccessi Were there any inaccould not? How well do you f	2 3 ble accessible feel that t	4 e parts of his bridg	5 the brid e has be	6 ge that y en maint	7 /ou wou tained?	8 Ver ild have	y Accessible liked to inspect, bu	t
8. 9.	1 2 Very Inaccessi Were there any inaccould not? How well do you f 1	2 3 ble accessible feel that t 2 3	4 e parts of his bridg 4	5 the brid e has bee 5	6 ge that y en maint 6	7 /ou wou tained?	8 Ver ild have	y Accessible liked to inspect, bu	t
8. 9.	12Very InaccessiWere there any inaccould not?How well do you f12Very Poorly	2 3 ble accessible feel that t 2 3 CAFTER	4 e parts of his bridg 4 anothe	5 the brid e has be 5 • T-bear	6 ge that y en maint 6 n task:	7 /ou wou tained?	8 Ver ild have	y Accessible liked to inspect, bu	t
8. 9.	1 2 Very Inaccessi Were there any inaccould not? How well do you f 1 2 Very Poorly XIP the following if . How complex was 1 2	2 3 ble accessible feel that t 2 3 CAFTER	4 e parts of his bridg 4 anothe	5 the brid e has bee 5	6 ge that y en maint 6 n task:	7 /ou wou tained?	8 Ver 11d have 8 V	y Accessible liked to inspect, bu 9 ery Well 9	t
8. 9.	1 2 Very Inaccessi Were there any inaccould not? How well do you f 1 2 Very Poorly XIP the following if . How complex was	2 3 ble accessible Seel that t 2 3 AFTER this brid	4 e parts of his bridg 4 another lge?	5 the brid e has be 5 • T-bear	6 ge that y en maint 6 n task:	7 /ou wou tained? 7	8 Ver 11d have 8 V	y Accessible liked to inspect, bu 9 fery Well	t
8. 9. SK 10	1 2 Very Inaccessi Were there any inaccould not? How well do you f 1 2 Very Poorly XIP the following if . How complex was 1 2 Very Simple	$2 \qquad 3$ ble accessible feel that t $2 \qquad 3$ CAFTER this brid $2 \qquad 3$	4 e parts of his bridg 4 another lge? 4	5 the brid e has bee 5 T-bear 5	6 ge that y en maint 6 n task: 6	7 /ou wou tained? 7 7	8 Ver 11d have 8 V 8 Ver	y Accessible liked to inspect, bu 9 fery Well 9 y Complex	t
8. 9. SK 10	1 2 Very Inaccessi Were there any inaccould not? How well do you f 1 2 Very Poorly XIP the following if . How complex was 1 2 Very Simple . Do you think my p	2 3 ble accessible feel that t 2 3 AFTER this brid 2 3 presence a	4 e parts of his bridg 4 another ge? 4 as an obs	5 the brid e has bee 5 T-bear 5 erver ha	6 ge that y en maint 6 n task: 6 d any int	7 vou wou tained? 7 7 fluence	8 Ver 11d have 8 V 8 Ver on your	y Accessible liked to inspect, bu 9 fery Well 9 y Complex	t
8. 9. SK 10	1 2 Very Inaccessi Were there any inaccould not? How well do you f 1 2 Very Poorly XIP the following if . How complex was 1 2 Very Simple . Do you think my p 1 2	2 3 ble accessible feel that t $2 3$ CAFTER this brid $2 3$	4 e parts of his bridg 4 another lge? 4	5 the brid e has bee 5 T-bear 5	6 ge that y en maint 6 n task: 6	7 /ou wou tained? 7 7	8 Ver 11d have 8 V 8 Ver on your 8	y Accessible liked to inspect, bu 9 Yery Well 9 y Complex c inspection? 9	t
8. 9. SK 10	1 2 Very Inaccessi Were there any inaccould not? How well do you f 1 2 Very Poorly XIP the following if . How complex was 1 2 Very Simple . Do you think my p	2 3 ble accessible feel that t 2 3 AFTER this brid 2 3 presence a	4 e parts of his bridg 4 another ge? 4 as an obs	5 the brid e has bee 5 T-bear 5 erver ha	6 ge that y en maint 6 n task: 6 d any int	7 vou wou tained? 7 7 fluence	8 Ver 11d have 8 V 8 Ver on your 8	y Accessible liked to inspect, bu 9 fery Well 9 y Complex	t

_

12. Di	id you feel ru	shed wł	nile con	npleting	g this tas	k?			
	1	2	3	4	5	6	7	8	9
	Not Rushe	ed						Ver	y Rushed
10 11	-	<u> </u>							1 66 1 10
13. W	•.					-	•		nal effort level?
	1	2	3			6	7	8	9
	Much Low	ver			Average			Muc	ch Greater
14 II.	ow thorough			mulatio	a this to	alt in ac	mania	on to vo	un normal increation?
14. П	-	were yo 2		-	ig uns ta		7	8 8 01 00	ur normal inspection?
	-	-					/	-	· · · · · · · · · · · · · · · · · · ·
	Less Thoro	ugn			Average			MOR	e Thorough
15 D	id you have a	ny spec	ific dis	traction	s that ad	verselv	affecte	d vour ii	uspection?
10.0	Hunge	• •		liuction	is that ad	versery	uncere	a your n	
	"Natur								
	Access			ability					
	Height		none su	ionney					
	Tempe								
	Humic								
	Wind	iity							
	Traffic	•							
	Noise								
	Other:								
	Ouler.								
16 W	hat other too	ls would	l vou h	ave not	mally us	ed duri	no an ir	spection	n of this type?
10. 0			1 you 11		many us	cu uun	ing un n	spection	for this type.

- 17. Are there any follow-up inspection or maintenance actions that you would recommend to your supervisor?
- 18. Is there anything about this task or your performance that you would like me to make note of? _____

19. General Observer Notes:

TASK D POST-EXPERIMENT EVALUATION FORM

1. 2.	Inspector ID: Time:						
3.	How similar were these Inspections?	e inspec	ction tas	sks to th	e tasks	perform	ned in your normal Routine
	1 2 Not Similar	3	4	5	6	7	8 9 Very Similar
4.	Did this task do an accu	urate jo	b of me	easuring	your in	nspectio	n skills?
	1 2 Very Inaccurate	3		5	-	7	8 9 Very Accurate
5.	How rested are you? $1 2$	3	4	5	6	7	8 9
	Very Tired	3	4	5	0	/	Very Rested
6.	How well did you unde	erstand	the inst	ruction	s vou w	ere give	n?
	1 2	3		5		7	8 9
	Very Poorly						Very Well
7.	How accessible do you						
	1 2 Very Inaccessible	3	4	5	6	7	8 9
							Very Accessible
	very maccessible						Very Accessible
8.	·	-					ld have liked to inspect, but
	Were there any inacces could not?						ld have liked to inspect, but
	Were there any inacces could not? How well do you feel t 1 2		bridge		en main		Ild have liked to inspect, but
	Were there any inacces could not? How well do you feel t	hat this	bridge	has bee	en main	tained?	Ild have liked to inspect, but
9.	Were there any inaccess could not? How well do you feel t 1 2 Very Poorly	hat this 3	bridge 4	has bee	en main	tained?	Ild have liked to inspect, but
9.	Were there any inaccess could not? How well do you feel t 1 2 Very Poorly How complex was this 1 2	hat this 3	bridge 4	has bee	en main	tained?	lld have liked to inspect, but 8 9 Very Well 8 9
9.	Were there any inacces could not? How well do you feel t 1 2 Very Poorly How complex was this	hat this 3 bridge	bridge 4 ?	has bee 5	en main 6	tained? 7	lld have liked to inspect, but 8 9 Very Well
9. 10	Were there any inaccess could not? How well do you feel t 1 2 Very Poorly How complex was this 1 2	hat this 3 bridge 3 nce as a	bridge 4 ? 4 an obser	has bee 5 5 rver hac	en main 6 6 I any in	tained? 7 7	lld have liked to inspect, but 8 9 Very Well 8 9 Very Complex on your inspection?
9. 10	Were there any inaccess could not? How well do you feel t 1 2 Very Poorly How complex was this 1 2 Very Simple Do you think my prese 1 2	hat this 3 bridge 3	bridge 4 ? 4	has bee 5 5	en main 6 6	tained? 7 7	lld have liked to inspect, but 8 9 Very Well 8 9 Very Complex on your inspection? 8 9
9. 10	Were there any inacces could not? How well do you feel t 1 2 Very Poorly How complex was this 1 2 Very Simple	hat this 3 bridge 3 nce as a	bridge 4 ? 4 an obser	has bee 5 5 rver hac	en main 6 6 I any in	tained? 7 7 fluence	lld have liked to inspect, but 8 9 Very Well 8 9 Very Complex on your inspection?
9. 10 11	Were there any inaccess could not? How well do you feel t 1 2 Very Poorly How complex was this 1 2 Very Simple Do you think my prese 1 2 No Influence	hat this 3 bridge 3 nce as a 3 nile con	bridge 4 ? 4 an obser 4	has bee 5 5 rver hac 5 g this tas	en main 6 6 I any in 6 sk?	tained? 7 7 fluence 7	lld have liked to inspect, but 8 9 Very Well 8 9 Very Complex on your inspection? 8 9 Great Influence
9. 10 11	Were there any inaccess could not? How well do you feel t 1 2 Very Poorly How complex was this 1 2 Very Simple Do you think my prese 1 2 No Influence	hat this 3 bridge 3 nce as a 3	bridge 4 ? 4 an obser 4	has bee 5 5 rver hac 5	en main 6 6 I any in 6	tained? 7 7 fluence	lld have liked to inspect, but 8 9 Very Well 8 9 Very Complex on your inspection? 8 9

13. What was your	effort l	evel on	this tas	sk in con	npariso	n with y	our nor	mal effort lev	vel?		
1				5	-	•		9			
Much Low	er			Average			Much Greater				
14. How thorough were you in completing this task in comparison to your normal inspection $\begin{bmatrix} 1 & 2 & 3 & 4 & 5 & 6 & 7 & 8 & 9 \end{bmatrix}$											
1	2	3	4	5	6	7	8	9			
Less Thorou	ıgh			Average			Mor	e Thorough			
15. Did you have a	ny spec	ific dist	traction	is that ad	versely	^v affecte	ed your i	nspection?			
Hunger											
"Natur											
Access	- -	nent sta	ıbility								
Height											
Tempe											
Humid	ity										
Wind											
Traffic											
Noise											
Other:						-					

16. What other tools would you have normally used during an inspection of this type?

- 17. Are there any follow-up inspection or maintenance actions that you would recommend to your supervisor?
- 18. Is there anything about this task or your performance that you would like me to make note of? ______
- 19. General Observer Notes:

TASK E POST-EXPERIMENT EVALUATION FORM

1. 2.	Inspector ID: Time:						
3.	How similar were these Inspections?	e inspec	tion tas	sks to th	e tasks	perform	ed in your normal Routine
	1 1 2 Not Similar	3	4	5	6	7	8 9 Very Similar
4.	Did this task do an accu	urate jol	o of me	asuring	your ir	spection	n skills?
	1 2 Very Inaccurate	3	4	5	6	7	8 9 Very Accurate
5.	How rested are you?			_	_	_	
	1 2 Very Tired	3	4	5	6	7	8 9 Very Rested
6.	How well did you unde	erstand t	he inst	ructions	s you we	ere give	n?
	1 2 Very Poorly	3	4	5	•	7	8 9
	very roony						Very Well
7.	How accessible do you $1 2$	feel the 3	e variou 4	ıs bridg 5	-	onents v 7	vere? 8 9
	Very Inaccessible	3	4	3	0	1	Very Accessible
8.							
	could not?	-					ld have liked to inspect, but
9.	could not?						-
9.	could not? How well do you feel t 1 2		bridge		n maint		-
9.	could not? How well do you feel t	hat this	bridge	has bee	n maint	tained?	-
	could not? How well do you feel t 1 2	hat this 3	bridge 4	has bee	n maint	tained?	8 9
	could not? How well do you feel t 1 2 Very Poorly . How complex was this 1 2	hat this 3	bridge 4	has bee	n maint	tained?	8 9 Very Well 8 9
	could not? How well do you feel t 1 2 Very Poorly . How complex was this	hat this 3 bridge?	bridge 4	has bee 5	n maint 6	tained? 7	8 9 Very Well
10	could not? How well do you feel t 1 2 Very Poorly . How complex was this 1 2	hat this 3 bridge? 3 nce as a	bridge 4 4 n obser	has bee 5 5 rver had	n maint 6 6 I any in	tained? 7 7 fluence	8 9 Very Well 8 9 Very Complex on your inspection?
10	could not? How well do you feel t 1 2 Very Poorly . How complex was this 1 2 Very Simple	hat this 3 bridge? 3	bridge 4 4	has bee 5	en maint 6 6	tained? 7 7	8 9 Very Well 8 9 Very Complex
10 11	could not? How well do you feel t 1 2 Very Poorly . How complex was this 1 2 Very Simple . Do you think my presen 1 2 No Influence	hat this 3 bridge? 3 nce as a 3	bridge 4 4 n obser 4	has bee 5 5 rver had 5	n maint 6 6 I any in: 6	tained? 7 7 fluence	8 9 Very Well 8 9 Very Complex on your inspection? 8 9
10 11	could not? How well do you feel t 1 2 Very Poorly . How complex was this 1 2 Very Simple . Do you think my preset 1 2	hat this 3 bridge? 3 nce as a 3	bridge 4 4 n obser 4	has bee 5 5 rver had 5	n maint 6 6 I any in: 6	tained? 7 7 fluence	8 9 Very Well 8 9 Very Complex on your inspection? 8 9

13. What was your e	effort le	evel on	this tas	sk in con	npariso	n with y	our nor	mal effort le	vel?		
1				5	-	•		9			
Much Lowe	er			Average			Much Greater				
14. How thorough were you in completing this task in comparison to your normal inspection 1 2 3 4 5 6 7 8 9											
1	2	3	4	5	6	7	8	9			
Less Thorou	gh			Average			Mor	e Thorough			
15. Did you have an	y speci	fic dist	traction	is that ad	versely	affecte	d your i	nspection?			
Hunger											
"Nature											
Access	equipn	nent sta	ıbility								
Height											
Temper											
Humidi	ty										
Wind											
Traffic											
Noise											
Other:											

16. What other tools would you have normally used during an inspection of this type?

- 17. Are there any follow-up inspection or maintenance actions that you would recommend to your supervisor?
- 18. Is there anything about this task or your performance that you would like me to make note of? ______
- 19. General Observer Notes:

TASK F POST-EXPERIMENT EVALUATION FORM

1. 2.	Inspector ID: Time:						
3.	How similar were these Inspections?	inspec	ction tas	sks to th	e tasks	perforn	ned in your normal In-Depth
	1 2 Not Similar	3	4	5	6	7	8 9 Very Similar
4.	Did this task do an accu	irate jo	b of me	asuring	your ir	nspectio	n skills?
	1 2 Very Inaccurate	3	4	5	6	7	8 9 Very Accurate
5.	How rested are you? $1 2$	3	4	5	G	7	8 0
	1 2 Very Tired	3	4	3	6	1	8 9 Very Rested
6.	How well did you unde	rstand	the inst	ructions	s you w	ere give	en?
	1 2	3	4	5	6	7	8 9
	Very Poorly						Very Well
7.	How accessible do you						
	1 2	3	4	5	6	7	8 9
	Very Inaccessible	-	·	5	0	,	• •
	Very Inaccessible	-	•	5	0	,	Very Accessible
8.	·	sible pa	arts of t	he bridg	ge that y	you wou	Very Accessible Ild have liked to inspect, but
	Were there any inacces could not?	sible pa	arts of t	he brid	ge that y	you wot	Very Accessible Ild have liked to inspect, but
	Were there any inacces could not? How well do you feel there are a could be a cou	sible pa	arts of t	he brid	ge that y	you wot	Very Accessible Ild have liked to inspect, but
	Were there any inacces could not? How well do you feel the	sible pa	arts of t	he bridg 	ge that y	you wou tained?	Very Accessible Ild have liked to inspect, but
9.	Were there any inacces could not? How well do you feel there are a could be a cou	sible pathat this	arts of t bridge 4	he bridg 	ge that y	you wou tained?	Very Accessible Ild have liked to inspect, but
9.	Were there any inacces could not? How well do you feel the 1 2 Very Poorly . How complex was this 1 2	sible pathat this	arts of t bridge 4	he bridg 	ge that y	you wou tained?	Very Accessible ald have liked to inspect, but 8 9 Very Well 8 9
9.	Were there any inacces could not? How well do you feel the 1 2 Very Poorly . How complex was this	sible pa hat this 3 bridge	arts of t bridge 4	he bridş has bee 5	ge that y n maint 6	you wou tained? 7	Very Accessible Ild have liked to inspect, but 8 9 Very Well
9. 10	Were there any inaccess could not? How well do you feel the 1 2 Very Poorly . How complex was this 1 2 Very Simple . Do you think my present	sible pa hat this 3 bridge ⁶ 3	arts of t bridge 4 ? 4 an obser	he bridg has bee 5 5 cver hac	ge that y on maint 6 6 I any in	tained? 7 7 fluence	Very Accessible ald have liked to inspect, but 8 9 Very Well 8 9 Very Complex on your inspection?
9. 10	Were there any inacces could not? How well do you feel the 1 2 Very Poorly . How complex was this 1 2 Very Simple . Do you think my present 1 2	sible pa hat this 3 bridge 3	arts of t bridge 4 ? 4	he bridg has bee 5 5	ge that y on maint 6 6	you wou tained? 7 7	Very Accessible Ild have liked to inspect, but 8 9 Very Well 8 9 Very Complex on your inspection? 8 9
9. 10	Were there any inaccess could not? How well do you feel the 1 2 Very Poorly . How complex was this 1 2 Very Simple . Do you think my present	sible pa hat this 3 bridge ⁶ 3	arts of t bridge 4 ? 4 an obser	he bridg has bee 5 5 cver hac	ge that y on maint 6 6 I any in	tained? 7 7 fluence	Very Accessible ald have liked to inspect, but 8 9 Very Well 8 9 Very Complex on your inspection?
9. 10 11	Were there any inacces could not? How well do you feel the 1 2 Very Poorly . How complex was this 1 2 Very Simple . Do you think my present 1 2 No Influence . Do you feel the workin	sible pa hat this 3 bridge ⁵ 3 nce as a 3 g heigh	arts of t bridge 4 ? 4 an obser 4 ut influe	he bridg has bee 5 5 rver hac 5 nced yo	en maint 6 6 l any in 6 our insp	you wou tained? 7 7 fluence 7 ection p	Very Accessible Ild have liked to inspect, but 8 9 Very Well 8 9 Very Complex on your inspection? 8 9 Great Influence
9. 10 11	Were there any inaccess could not? How well do you feel the 1 2 Very Poorly How complex was this 1 2 Very Simple Do you think my present 1 2 No Influence	sible pa hat this 3 bridge ⁶ 3 nce as a 3	arts of t bridge 4 ? 4 an obser 4	he bridg has bee 5 5 cver hac 5	ge that y on maint 6 6 I any in 6	you wou tained? 7 7 fluence 7	Very Accessible ald have liked to inspect, but 8 9 Very Well 8 9 Very Complex on your inspection? 8 9 Great Influence

13. How adequate	•		-			_		
1 Not Adequ	2 ate	3	4	5	6	7	8 Very	9 y Adequate
14. On average, ho (Note: Record		-	-	-		omponei	nts you	were inspecting?
15. Do you feel you			-		-	-		
1 Never	2	3	4	5	6	7	8	9 Always
16 01 6 1		•1	1	.1 • . 1	0			
16. Did you feel ru	shed wh	ille con		g this task	?? 6	7	8	9
Not Rushe		5	·	5	0	,	•	ry Rushed
17. What was your	effort le	evel on	this tas	k in com	parisoi	n with y	our nor	mal effort level?
1	2	3	4	5	6	7	8	9
Much Low	'er		1	Average			Mu	ch Greater
18. How thorough	-		-			-		our normal inspection?
1	2	3	4	5	6	7	8	9
Less Thoro	ıgh		1	Average			Mor	e Thorough
19. Did you have a	• •	ific dist	raction	s that adv	versely	affected	d your i	nspection?
Hunge								
	e calls"	aant ata	h:1:+++					
Access Height		lent sta	binty					
Tempe								
Humid								
Wind	•							
Traffic	•							
Noise								
Other:								

20. What other tools would you have normally used during an inspection of this type?

21. Are there any follow-up inspection or maintenance actions that you would recommend to your supervisor?

- 22. Is there anything about this task or your performance that you would like me to make note of? ______
- 23. General Observer Notes:

TASK G POST-EXPERIMENT EVALUATION FORM

	Inspector ID: Time:						
3.	How similar were these Inspections?	inspect	ion task	to the	tasks p	erforme	ed in your normal Routine
	1 2 Not Similar	3	4	5	6	7	8 9 Very Similar
4.	Did this task do an accu	irate job	of mea	suring	your ins	spection	skills?
	1 2 Very Inaccurate	3	4	5	6	7	8 9 Very Accurate
5.	How rested are you?						
	1 2 Very Tired	3	4	5	6	7	8 9 Very Rested
6	How well did you unde	rstand tl	he instri	ictions	voli wei	re given	9
0.	1 2	3	4	5	6	7	8 9
	Very Poorly						Very Well
7.	How accessible do you	feel the	various	bridge	compo	nents w	ere?
	1 2	3	4	5	-	7	8 9
	Very Inaccessible						Very Accessible
8.	Were there any inacces could not?	sible pa	rts of th	e bridge	e that yo	ou woul	d have liked to inspect, but
9.	How well do you feel th	nat this l	bridge h	as beer	mainta	ined?	
	1 2	3	4			7	8 9
	Very Poorly						Very Well
10	. How complex was this	bridge?					
	1 2	3	4	5	6	7	8 9
	Very Simple						Very Complex
11.	. Do you think my presei	nce as ai	1 observ	ver had	any infl	uence o	n your inspection?
	1 2	3	4	5	6	7	8 9
	No Influence						Great Influence
12	. Did you feel rushed wh	ile com	pleting	this task	x?		
	1 2 Not Pushed	3	4	5	6	7	8 9 Vary Duchad
	Not Rushed						Very Rushed

13. What was your	effort l	evel on	this tas	sk in con	npariso	n with y	our nor	mal effort lev	vel?		
1				5	-	•		9			
Much Low	er			Average			Much Greater				
14. How thorough were you in completing this task in comparison to your normal inspection $\begin{bmatrix} 1 & 2 & 3 & 4 & 5 & 6 & 7 & 8 & 9 \end{bmatrix}$											
1	2	3	4	5	6	7	8	9			
Less Thorou	ıgh			Average			Mor	e Thorough			
15. Did you have a	ny spec	ific dist	traction	is that ad	versely	^v affecte	ed your i	nspection?			
Hunger											
"Natur											
Access	- -	nent sta	ıbility								
Height											
Tempe											
Humid	ity										
Wind											
Traffic											
Noise											
Other:						-					

16. What other tools would you have normally used during an inspection of this type?

- 17. Are there any follow-up inspection or maintenance actions that you would recommend to your supervisor?
- 18. Is there anything about this task or your performance that you would like me to make note of? ______
- 19. General Observer Notes:

TASK H POST-EXPERIMENT EVALUATION FORM

1. 2.	Inspector ID: Time:						
3.	How similar were these Inspections?	inspec	ction tas	sks to th	e tasks	perforn	ned in your normal In-Depth
	1 2 Not Similar	3	4	5	6	7	8 9 Very Similar
4.	Did this task do an accu	irate jo	b of me	asuring	your ir	nspectio	n skills?
	1 2 Very Inaccurate	3	4	5	6	7	8 9 Very Accurate
5.	How rested are you?	2	4	-	ſ	7	
	1 2 Very Tired	3	4	5	6	7	8 9 Very Rested
6.	How well did you unde	rstand	the inst	ructions	s you w	ere give	en?
	1 2	3		5	•	7	8 9
	Very Poorly						Very Well
7.	How accessible do you			-	-		
	1 2	3	1	5	6	7	8 9
	Very Inaccessible	5	-	5	0	7	
	Very Inaccessible	5	+	5	0	,	Very Accessible
8.	·	sible pa	arts of t	he bridg	ge that y	you wou	Very Accessible Ild have liked to inspect, but
	Were there any inacces could not?	sible pa	arts of t	he bridg	ge that y	you wot	Very Accessible Ild have liked to inspect, but
	Were there any inacces could not? How well do you feel th 1 2	sible pa	arts of t	he bridg	ge that y	you wot	Very Accessible ald have liked to inspect, but
	Were there any inacces could not? How well do you feel the	sible pa	arts of t	he bridş has bee	ge that y	you wou tained?	Very Accessible Ild have liked to inspect, but
9.	Were there any inacces could not? How well do you feel th 1 2	sible particular sible	arts of t bridge 4	he bridş has bee	ge that y	you wou tained?	Very Accessible ald have liked to inspect, but
9.	Were there any inacces could not? How well do you feel th 1 2 Very Poorly . How complex was this 1 2	sible particular sible	arts of t bridge 4	he bridş has bee	ge that y	you wou tained?	Very Accessible ald have liked to inspect, but 8 9 Very Well 8 9
9.	Were there any inacces could not? How well do you feel th 1 2 Very Poorly . How complex was this	sible pa hat this 3 bridge	arts of t bridge 4	he bridş has bee 5	ge that y on maint 6	you wou tained? 7	Very Accessible Ild have liked to inspect, but 8 9 Very Well
9. 10	Were there any inacces could not? How well do you feel th 1 2 Very Poorly . How complex was this 1 2	sible pa hat this 3 bridge ⁶ 3	arts of t bridge 4 ? 4 an obser	he bridg has bee 5 5	ge that y on maint 6 6 I any in	you wou tained? 7 7 fluence	Very Accessible ald have liked to inspect, but 8 9 Very Well 8 9 Very Complex on your inspection?
9. 10	Were there any inacces could not? How well do you feel th 1 2 Very Poorly . How complex was this 1 2 Very Simple . Do you think my present 1 2	sible pa hat this 3 bridge 3	arts of t bridge 4 ? 4	he bridg has bee 5 5	ge that y on maint 6 6	you wou tained? 7 7	Very Accessible Ild have liked to inspect, but 8 9 Very Well 8 9 Very Complex on your inspection? 8 9
9. 10	Were there any inacces could not? How well do you feel th 1 2 Very Poorly . How complex was this 1 2 Very Simple	sible pa hat this 3 bridge ⁶ 3	arts of t bridge 4 ? 4 an obser	he bridg has bee 5 5	ge that y on maint 6 6 I any in	you wou tained? 7 7 fluence	Very Accessible ald have liked to inspect, but 8 9 Very Well 8 9 Very Complex on your inspection?
9. 10 11	Were there any inacces could not? How well do you feel th 1 2 Very Poorly . How complex was this 1 2 Very Simple . Do you think my present 1 2 No Influence . Do you feel the workin	sible pa hat this 3 bridge ⁶ 3 nce as a 3 g heigh	arts of t bridge 4 ? 4 an obser 4 ut influe	he bridg has bee 5 5 rver hac 5 nced yo	ge that y on main 6 6 l any in 6 our insp	you wou tained? 7 7 fluence 7 ection p	Very Accessible ald have liked to inspect, but 8 9 Very Well 8 9 Very Complex on your inspection? 8 9 Great Influence
9. 10 11	Were there any inacces could not? How well do you feel th 1 2 Very Poorly . How complex was this 1 2 Very Simple . Do you think my presen 1 2 No Influence	sible pa hat this 3 bridge ⁶ 3 nce as a 3	arts of t bridge 4 ? 4 an obser 4	he bridg has bee 5 5 cver hac 5	en maint 6 6 l any in 6	you wou tained? 7 7 fluence 7	Very Accessible ald have liked to inspect, but 8 9 Very Well 8 9 Very Complex on your inspection? 8 9 Great Influence

13. How adequate of 1 1 Not Adequ	2	Seel the 3	-	vel was? 5	6	7	8 Very	9 7 Adequate		
14. On average, ho (Note: Record		•	•	-		velds yo	u were i	nspecting?		
15. Do you feel you inspecting?	ı were a	ble to g	et the p	proper vi	ewing	angle fo	or the co	omponents you were		
1 Never	2	3	4	5	6	7	8	9 Always		
16. Did you feel ru	shed wh	ile com	pleting	this task	c?					
1	2	3	4	5	6	7	8	9		
Not Rushe	ed						Ver	y Rushed		
17. What was your	effort le	evel on	this tas	k in com	nariso	n with v	our nor	mal effort level?		
17. What was your 1	2	3	4		-	7 7	8	9		
Much Low	/er		1	Average			Mue	ch Greater		
10 How the neuroh		in con	nalatin	a this too	le in a	mnoria	on to vo	van normal increation?		
18. How thorough	were yo 2	u in coi 3	4	g this tas 5	6 m c	7	011 to yo 8	ur normal inspection? 9		
-		5			0	,	-			
	8							6		
Less Thorough Average More Thorough 19. Did you have any specific distractions that adversely affected your inspection?										
20. What other tool	ls would	l you ha	ve nor	mally use	ed duri	ing an ir	nspectio	n of this type?		

- 21. Are there any follow-up inspection or maintenance actions that you would recommend to your supervisor?
- 22. Is there anything about this task or your performance that you would like me to make note of?

23. General Observer Notes:

TASK I POST-EXPERIMENT EVALUATION FORM

1. 2.	Team ID: Time:	-					
3.	Did this task do an acc	urate joł	o of mea	asuring	your ins	spection	skills (Inspector #1)?
	1 2	3		5		7	8 9
	Very Inaccurate	-		_	-		Very Accurate
4.	Did this task do an acc						
	1 2 Very Inaccurate	3	4	5	6	7	8 9 Very Accurate
5.	How rested are you (In	spector	#1)?				
	-	3	4	5	6	7	8 9
	Very Tired	C		C	0	·	Very Rested
6.	How rested are you (In	-					
	1 2	3	4	5	6	7	8 9
	Very Tired						Very Rested
7.	How well did you unde				•		
	1 2	3	4	5	6	7	8 9
	Very Poorly						Very Well
8.	How accessible do you			-	-		
	1 2	3	4	5	6	7	8 9
	Very Inaccessible						Very Accessible
9.	Were there any inacces could not?						d have liked to inspect, but
10	. How well do you feel t	hat this	bridge l	nas beer	n mainta	ined?	
	1 2	3	4	5	6	7	8 9
	Very Poorly						Very Well
11	. How complex was this	bridge?	,				
	1 2	3	4	5	6	7	8 9
	Very Simple	-		-	-		Very Complex
10	•	noo oo o	n obsom	vor had	ony infl	uonaa	•
12	. Do you think my prese $1 \qquad 2$	nce as a	n observ 4	5	6 any 1111	uence o 7	8 9
	No Influence	5	4	5	0	/	Great Influence
							Great influence

13. Did you feel rush 1		e comple 3 4	0	is task (5	(Inspect 6	tor #1)? 7	8	9		
Not Rushed							Very	Rushed		
14. Did you feel rush	ed while	e comple	ting th	is task ((Inspect	or #2)?				
1		3 4	4	5	6	7	8	9		
Not Rushed							Very	v Rushed		
15. What was your effort level on this task in comparison with your normal effort level (Inspector #1)?										
1		3 4	-	5	6	7	8	9		
Much Lower	r		Av	erage			Much	n Greater		
16. What was your ef (Inspector #2)?				Ĩ		•				
1		3 4		-	6	7	8	9		
Much Lower	r		Ave	erage			Much	n Greater		
17. How thorough we	ere you i	n compl	eting t	his task	in com	parison	to you	r normal inspection?		
1		3 4	1	5	6	7	8	9		
Less Thoroug	,h		Ave	erage			More	Thorough		
Hunger "Nature Access e Height	calls" equipmen			nat adve	ersely af	fected y	your in	spection (Inspector #1)?		
Tempera Humidit										
Wind	5									
Traffic										
Noise										
Other: _										
10 Did you have on	, an a sifi	distract	tions th	at adva	raalvat	facted	our in	enaction (Increastor #2)?		

19. Did you have any specific distractions that adversely affected your inspection (Inspector #2)?

____ Hunger

____ "Nature calls"

Access equipment stability Height

____ Temperature

____ Humidity

____ Wind

____ Traffic

____ Noise

____ Other: _____

- 20. What other tools would you have normally used during an inspection of this type?
- 21. Are there any follow-up inspection or maintenance actions that you would recommend to your supervisor?
- 22. Is there anything about this task or your performance that you would like me to make note of? ______
- 23. General Observer Notes:

Go back to main publications page to access the other sections of this appendix.