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 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 A post-task questionnaire.

8. Read the following:

   “Thank you for completing this inspection task. Your findings and your inspection procedures will be useful in assessing how bridge inspections are typically completed. Do you have any questions about the task you just completed?”
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:

“The thank you for completing this inspection task. Your findings and your inspection procedures will be useful in assessing how bridge inspections are typically completed. Do you have any questions about the task you just completed?”
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:

   “Thank you for completing this inspection task. Your findings and your inspection procedures will be useful in assessing how bridge inspections are typically completed. Do you have any questions about the task you just completed?”
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:

   “Thank you for completing this inspection task. Your findings and your inspection procedures will be useful in assessing how bridge inspections are typically completed. Do you have any questions about the task you just completed?”
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:

   “Thank you for completing this inspection task. Your findings and your inspection procedures will be useful in assessing how bridge inspections are typically completed. Do you have any questions about the task you just completed?”

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**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:

   “Thank you for completing this inspection task. Your findings and your inspection procedures will be useful in assessing how bridge inspections are typically completed. Do you have any questions about the task you just completed?”
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:

   “Thank you for completing this inspection task. Your findings and your inspection procedures will be useful in assessing how bridge inspections are typically completed. Do you have any questions about the task you just completed?”
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”

“Thank you for completing this inspection task. Your findings and your inspection procedures will be useful in assessing how bridge inspections are typically completed. Do you have any questions about the task you just completed?”
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:

   “Thank you for completing this inspection task. Your findings and your inspection procedures will be useful in assessing how bridge inspections are typically completed. Do you have any questions about the task you just completed?”
SELF-REPORT QUESTIONNAIRE

Inspector ID: ___________

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

1. Age: ____________
   Height: ____________
   Weight: ____________

2. How would you describe your general physical condition?
   Poor Below Average Average Above Average Superior
   1 2 3 4 5

3. Do you currently have any orthopedic ailments (e.g. bad knees, bad back)?
   Yes  No
   If so, list: _________________________________

4. Are you currently experiencing any temporary physical ailments (e.g. flu, head cold, etc.)?
   Yes  No
   If so, list: _________________________________

5. How would you describe your general mental condition?
   Poor Below Average Average Above Average Superior
   1 2 3 4 5

6. Are you currently experiencing additional stress due to personal problems (e.g. death in family, etc.)?
   Yes  No

7. Overall today, how do you feel?
   Poor Below Average Average Above Average Superior
   1 2 3 4 5

8. During an average bridge inspection, do you ever feel so tired or winded that you have to work slower or temporarily stop working?
   Never Very Rarely Sometimes Often Almost Always
   1 2 3 4 5
   If so, under what conditions and 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 ever assess the importance to public safety of the inspection that you are
performing?
   Yes        No

11. In general, how would you describe your level of mental focus over an entire bridge
inspection?
   Poor  Slightly Unfocused  Average  Somewhat Focused  Very Focused
   1           2          3          4          5

12. How interesting is your work as a bridge inspector?
   Very Boring  Boring  Average  Somewhat Interesting  Very Interesting
   1          2          3          4          5

13. Imagine the following situation:
   You are inspecting the superstructure of a steel girder/concrete deck bridge. The bridge is
   60 ft high and the only means of access to the girders is from a snooper truck and the wind is
gusting to 20 mph.

   How fearful of the working height do you feel you would be?
   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 Poor  Poor  Average  Good  Very Good  
   1       2       3       4       5

28. Do you feel that management feels that the work you do is important?  
   Not at all  Slightly Important  Important  Very Important  Essential  
   1       2       3       4       5

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?

<table>
<thead>
<tr>
<th>Poor</th>
<th>Below average</th>
<th>Average</th>
<th>Above average</th>
<th>Excellent</th>
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<td>4</td>
<td>5</td>
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</tbody>
</table>

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?

<table>
<thead>
<tr>
<th>Not Important</th>
<th>Slightly Important</th>
<th>Average</th>
<th>Somewhat Important</th>
<th>Very Important</th>
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</table>
EXIT SELF-REPORT QUESTIONNAIRE

Inspector ID: ____________

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

1. Age: ____________
   Height: ____________
   Weight: ____________

2. How would you describe your general physical condition?
   - Poor
   - Below Average
   - Average
   - Above Average
   - Excellent
   1 2 3 4 5

3. Do you currently have any orthopedic ailments (e.g. bad knees, bad back)?
   - Yes  
   - No
   If so, list: _________________________________

4. Are you currently experiencing any temporary physical ailments (e.g. flu, head cold, etc.)?
   - Yes  
   - No
   If so, list: _________________________________

5. How would you describe your general mental condition?
   - Poor
   - Below Average
   - Average
   - Above Average
   - Excellent
   1 2 3 4 5

6. Overall, how do you feel today?
   - Poor
   - Below Average
   - Average
   - Above Average
   - Excellent
   1 2 3 4 5

7. During an average bridge inspection, do you ever feel so tired or winded that you have to work slower or temporarily stop working?
   - Never
   - Very Rarely
   - Sometimes
   - Often
   - Almost Always
   1 2 3 4 5
   If so, under what conditions and how often: _________________________________
   ________________________________________________________________________

8. 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

F.9
9. In general, how would you describe your level of mental focus over an entire bridge inspection?

<table>
<thead>
<tr>
<th></th>
<th>Poor</th>
<th>Slightly Unfocused</th>
<th>Average</th>
<th>Somewhat Focused</th>
<th>Very Focused</th>
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<td>5</td>
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</table>

10. How interesting is your work as a bridge inspector?

<table>
<thead>
<tr>
<th></th>
<th>Very Boring</th>
<th>Boring</th>
<th>Average</th>
<th>Somewhat Interesting</th>
<th>Very Interesting</th>
</tr>
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<tbody>
<tr>
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</tbody>
</table>

11. How many more years do you expect to be performing bridge inspection before you move to another job or retire? __________

12. 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.

13. How would you describe your relationship with your direct superior?

<table>
<thead>
<tr>
<th></th>
<th>Very Poor</th>
<th>Poor</th>
<th>Average</th>
<th>Good</th>
<th>Very Good</th>
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</table>

14. Do you feel that management feels that the work you do is important?

<table>
<thead>
<tr>
<th></th>
<th>Not at all</th>
<th>Slightly Important</th>
<th>Important</th>
<th>Very Important</th>
<th>Essential</th>
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<td>5</td>
</tr>
</tbody>
</table>

15. Do you currently take any of the following substances?

   - Bilberry
   - Viagra
   - B vitamin complex

   Yes  No

16. In comparison to other bridge inspectors, how would you classify yourself based on your past performance?

<table>
<thead>
<tr>
<th></th>
<th>Poor</th>
<th>Below average</th>
<th>Average</th>
<th>Above average</th>
<th>Excellent</th>
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<td>4</td>
<td>5</td>
</tr>
</tbody>
</table>

17. If it was under your control, how do you think that bridge inspections could be improved?

   ________________________________________________________________
   ________________________________________________________________
   ________________________________________________________________
18. Have you ever seen a bridge failure in person?
   Yes    No

   If yes, please describe:
   _____________________________________________________________________
   _____________________________________________________________________
   _____________________________________________________________________

19. Approximately how many bridges do you inspect each year?
    ______________________

20. Briefly describe how you became a bridge inspector.
    _____________________________________________________________________
    _____________________________________________________________________
    _____________________________________________________________________

21. 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

22. Did you enjoy participating in these inspection tasks?
   Yes    No

23. Do you feel 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 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.”

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
   Very Tired                               Very Rested

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?

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<td>6</td>
<td>7</td>
<td>8</td>
<td>9</td>
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</tbody>
</table>

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?

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

11. General Observer Notes:
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?
   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 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
   ___ 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 rested are you?

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

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
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. How rested are you (Inspector #1)?

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

11. How rested are you (Inspector #2)?

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:
APPENDIX I. POST-EXPERIMENT EVALUATION FORMS
TASK A POST-EXPERIMENT EVALUATION FORM

1. Inspector ID: __________
2. Time: __________

3. How similar were these inspection tasks to the tasks performed in your normal Routine Inspections?
   1 2 3 4 5 6 7 8 9
   Not Similar       Very Similar

4. Did this task do an accurate job of measuring your inspection 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 understand the instructions you were given?
   1 2 3 4 5 6 7 8 9
   Very Poorly     Very Well

7. How accessible do you feel the various bridge components were?
   1 2 3 4 5 6 7 8 9
   Very Inaccessible Very Accessible

8. Were there any inaccessible parts of the bridge that you would have liked to inspect, but could not? _________________________________________________________________

9. How well do you feel that this bridge has been maintained?
   1 2 3 4 5 6 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 presence as an observer had any influence on your inspection?
    1 2 3 4 5 6 7 8 9
    No Influence   Great Influence

12. Did you feel rushed while completing this task?
    1 2 3 4 5 6 7 8 9
    Not Rushed     Very Rushed
13. What was your effort level on this task in comparison with your normal effort level?

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14. How thorough were you in completing this task in comparison to your normal inspection?

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15. Did you have any specific distractions that adversely affected your inspection?

- [ ] Hunger
- [ ] “Nature calls”
- [ ] Access equipment stability
- [ ] Height
- [ ] Temperature
- [ ] Humidity
- [ ] 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 B POST-EXPERIMENT EVALUATION FORM

1. Inspector ID: __________
2. Time: __________

3. How similar were these inspection tasks to the tasks performed in your normal Routine Inspections?
   
   1 2 3 4 5 6 7 8 9
   Not Similar Very Similar

4. Did this task do an accurate job of measuring your inspection 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 understand the instructions you were given?
   
   1 2 3 4 5 6 7 8 9
   Very Poorly Very Well

7. How accessible do you feel the various bridge components were?
   
   1 2 3 4 5 6 7 8 9
   Very Inaccessible Very Accessible

8. Were there any inaccessible parts of the bridge that you would have liked to inspect, but could not? ____________________________________________________________

9. How well do you feel that this bridge has been maintained?
   
   1 2 3 4 5 6 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 presence as an observer had any influence on your inspection?
    
    1 2 3 4 5 6 7 8 9
    No Influence Great Influence

12. Did you feel rushed while completing this task?
    
    1 2 3 4 5 6 7 8 9
    Not RUSHED Very Rushed
13. What was your effort level on this task in comparison with your normal effort level?

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14. How thorough were you in completing this task in comparison to your normal inspection?

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15. Did you have any specific distractions that adversely affected your inspection?

- [ ] Hunger
- [ ] “Nature calls”
- [ ] Access equipment stability
- [ ] Height
- [ ] Temperature
- [ ] Humidity
- [ ] 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 C POST-EXPERIMENT EVALUATION FORM

1. Inspector ID: __________
2. Time: __________

3. How similar were these inspection tasks to the tasks performed in your normal Routine Inspections?
   
   1 2 3 4 5 6 7 8 9
   Not Similar Very Similar

   SKIP the following if AFTER another T-beam task:

4. Did this task do an accurate job of measuring your inspection 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 understand the instructions you were given?
   
   1 2 3 4 5 6 7 8 9
   Very Poorly Very Well

7. How accessible do you feel the various bridge components were?
   
   1 2 3 4 5 6 7 8 9
   Very Inaccessible Very Accessible

8. Were there any inaccessible parts of the bridge that you would have liked to inspect, but could not?
   ____________________________________________________________________________

9. How well do you feel that this bridge has been maintained?
   
   1 2 3 4 5 6 7 8 9
   Very Poorly Very Well

   SKIP the following if AFTER another T-beam task:

10. How complex was this bridge?
    
    1 2 3 4 5 6 7 8 9
    Very Simple Very Complex

11. Do you think my presence as an observer had any influence on your inspection?
    
    1 2 3 4 5 6 7 8 9
    No Influence Great Influence
12. Did you feel rushed while completing this task?

1 2 3 4 5 6 7 8 9
Not Rushed Very Rushed

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 Lower 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
Less Thorough Average More Thorough

15. Did you have any specific distractions that adversely affected your inspection?

___ Hunger
___ “Nature calls”
___ Access equipment stability
___ Height
___ Temperature
___ Humidity
___ 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:
1. Inspector ID: __________
2. Time: __________

3. How similar were these inspection tasks to the tasks performed in your normal Routine Inspections?
   Not Similar 1 2 3 4 5 6 7 8 9 Very Similar

4. Did this task do an accurate job of measuring your inspection skills?
   Very Inaccurate 1 2 3 4 5 6 7 8 9 Very Accurate

5. How rested are you?
   Very Tired 1 2 3 4 5 6 7 8 9 Very Rested

6. How well did you understand the instructions you were given?
   Very Poorly 1 2 3 4 5 6 7 8 9 Very Well

7. How accessible do you feel the various bridge components were?
   Very Inaccessible 1 2 3 4 5 6 7 8 9 Very Accessible

8. Were there any inaccessible parts of the bridge that you would have liked to inspect, but could not? ______________________________________________________________

9. How well do you feel that this bridge has been maintained?
   Very Poorly 1 2 3 4 5 6 7 8 9 Very Well

10. How complex was this bridge?
    Very Simple 1 2 3 4 5 6 7 8 9 Very Complex

11. Do you think my presence as an observer had any influence on your inspection?
    No Influence 1 2 3 4 5 6 7 8 9 Great Influence

12. Did you feel rushed while completing this task?
    Not Rushed 1 2 3 4 5 6 7 8 9 Very Rushed
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 Lower  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
Less Thorough  Average  More Thorough

15. Did you have any specific distractions that adversely affected your inspection?
   ___ Hunger
   ___ “Nature calls”
   ___ Access equipment stability
   ___ Height
   ___ Temperature
   ___ Humidity
   ___ 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:
1. Inspector ID: __________
2. Time: __________

3. How similar were these inspection tasks to the tasks performed in your normal Routine Inspections?
   1 2 3 4 5 6 7 8 9
   Not Similar Very Similar

4. Did this task do an accurate job of measuring your inspection 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 understand the instructions you were given?
   1 2 3 4 5 6 7 8 9
   Very Poorly Very Well

7. How accessible do you feel the various bridge components were?
   1 2 3 4 5 6 7 8 9
   Very Inaccessible Very Accessible

8. Were there any inaccessible parts of the bridge that you would have liked to inspect, but could not? _______________________________________________________________

9. How well do you feel that this bridge has been maintained?
   1 2 3 4 5 6 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 presence as an observer had any influence on your inspection?
    1 2 3 4 5 6 7 8 9
    No Influence Great Influence

12. Did you feel rushed while completing this task?
    1 2 3 4 5 6 7 8 9
    Not Rushed Very Rushed
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 Lower       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
    Less Thorough    Average    More Thorough

15. Did you have any specific distractions that adversely affected your inspection?
    ___ Hunger
    ___ “Nature calls”
    ___ Access equipment stability
    ___ Height
    ___ Temperature
    ___ Humidity
    ___ 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. Inspector ID: __________
2. Time: __________

3. How similar were these inspection tasks to the tasks performed in your normal In-Depth Inspections?
   1 2 3 4 5 6 7 8 9
   Not Similar Very Similar

4. Did this task do an accurate job of measuring your inspection 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 understand the instructions you were given?
   1 2 3 4 5 6 7 8 9
   Very Poorly Very Well

7. How accessible do you feel the various bridge components were?
   1 2 3 4 5 6 7 8 9
   Very Inaccessible Very Accessible

8. Were there any inaccessible parts of the bridge that you would have liked to inspect, but could not?
   _______________________________________________________________

9. How well do you feel that this bridge has been maintained?
   1 2 3 4 5 6 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 presence as an observer had any influence on your inspection?
    1 2 3 4 5 6 7 8 9
    No Influence Great Influence

12. Do you feel the working height influenced your inspection performance?
    1 2 3 4 5 6 7 8 9
    No Influence Great Influence
13. How adequate do you feel the light level was?
   Not Adequate  1  2  3  4  5  6  7  8  9  Very Adequate

14. On average, how close do you think you got to the components you were inspecting?
   (Note: Record distance in inches.) ____________

15. Do you feel you were able to get the proper viewing angle?
   Never  1  2  3  4  5  6  7  8  9  Always

16. Did you feel rushed while completing this task?
   Not Rushed  1  2  3  4  5  6  7  8  9  Very Rushed

17. What was your effort level on this task in comparison with your normal effort level?
   Much Lower  1  2  3  4  5  6  7  8  9  Much Greater

18. How thorough were you in completing this task in comparison to your normal inspection?
   Less Thorough  1  2  3  4  5  6  7  8  9  More Thorough

19. Did you have any specific distractions that adversely affected your inspection?
   ___ 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:
TASK G POST-EXPERIMENT EVALUATION FORM

1. Inspector ID: __________
2. Time: __________

3. How similar were these inspection tasks to the tasks performed in your normal Routine Inspections?
   1  2  3  4  5  6  7  8  9
   Not Similar      Very Similar

4. Did this task do an accurate job of measuring your inspection 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 understand the instructions you were given?
   1  2  3  4  5  6  7  8  9
   Very Poorly      Very Well

7. How accessible do you feel the various bridge components were?
   1  2  3  4  5  6  7  8  9
   Very Inaccessible      Very Accessible

8. Were there any inaccessible parts of the bridge that you would have liked to inspect, but could not?

9. How well do you feel that this bridge has been maintained?
   1  2  3  4  5  6  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 presence as an observer had any influence on your inspection?
    1  2  3  4  5  6  7  8  9
    No Influence      Great Influence

12. Did you feel rushed while completing this task?
    1  2  3  4  5  6  7  8  9
    Not Rushed      Very Rushed
13. What was your effort level on this task in comparison with your normal effort level?

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14. How thorough were you in completing this task in comparison to your normal inspection?

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15. Did you have any specific distractions that adversely affected your inspection?

- ___ Hunger
- ___ “Nature calls”
- ___ Access equipment stability
- ___ Height
- ___ Temperature
- ___ Humidity
- ___ 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. Inspector ID: __________
2. Time: __________

3. How similar were these inspection tasks to the tasks performed in your normal In-Depth Inspections?
   1 2 3 4 5 6 7 8 9
   Not Similar                                Very Similar

4. Did this task do an accurate job of measuring your inspection 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 understand the instructions you were given?
   1 2 3 4 5 6 7 8 9
   Very Poorly                               Very Well

7. How accessible do you feel the various bridge components were?
   1 2 3 4 5 6 7 8 9
   Very Inaccessible                         Very Accessible

8. Were there any inaccessible parts of the bridge that you would have liked to inspect, but could not?
   _______________________________________________________________

9. How well do you feel that this bridge has been maintained?
   1 2 3 4 5 6 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 presence as an observer had any influence on your inspection?
    1 2 3 4 5 6 7 8 9
    No Influence                             Great Influence

12. Do you feel the working height influenced your inspection performance?
    1 2 3 4 5 6 7 8 9
    No Influence                             Great Influence

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13. How adequate do you feel the light level was?

1 2 3 4 5 6 7 8 9
Not Adequate Very Adequate

14. On average, how close do you think you got to the welds you were inspecting?
(Note: Record distance in inches.) __________

15. Do you feel you were able to get the proper viewing angle for the components you were inspecting?

1 2 3 4 5 6 7 8 9
Never Always

16. Did you feel rushed while completing this task?

1 2 3 4 5 6 7 8 9
Not Rushed Very Rushed

17. 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 Lower Average Much Greater

18. How thorough were you in completing this task in comparison to your normal inspection?

1 2 3 4 5 6 7 8 9
Less Thorough Average More Thorough

19. Did you have any specific distractions that adversely affected your inspection?

___ 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:
TASK I POST-EXPERIMENT EVALUATION FORM

1. Team ID: __________
2. Time: __________

3. Did this task do an accurate job of measuring your inspection skills (Inspector #1)?
   1  2  3  4  5  6  7  8  9
   Very Inaccurate       Very Accurate

4. Did this task do an accurate job of measuring your inspection skills (Inspector #2)?
   1  2  3  4  5  6  7  8  9
   Very Inaccurate       Very Accurate

5. How rested are you (Inspector #1)?
   1  2  3  4  5  6  7  8  9
   Very Tired       Very Rested

6. How rested are you (Inspector #2)?
   1  2  3  4  5  6  7  8  9
   Very Tired       Very Rested

7. How well did you understand the instructions you were given?
   1  2  3  4  5  6  7  8  9
   Very Poorly       Very Well

8. How accessible do you feel the various bridge components were?
   1  2  3  4  5  6  7  8  9
   Very Inaccessible       Very Accessible

9. Were there any inaccessible parts of the bridge that you would have liked to inspect, but could not? _______________________________________________________________

10. How well do you feel that this bridge has been maintained?
    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

12. Do you think my presence as an observer had any influence on your inspection?
    1  2  3  4  5  6  7  8  9
    No Influence       Great Influence
13. Did you feel rushed while completing this task (Inspector #1)?

1 2 3 4 5 6 7 8 9
Not Rushed                    Very Rushed

14. Did you feel rushed while completing this task (Inspector #2)?

1 2 3 4 5 6 7 8 9
Not Rushed                    Very Rushed

15. What was your effort level on this task in comparison with your normal effort level (Inspector #1)?

1 2 3 4 5 6 7 8 9
Much Lower                   Average       Much Greater

16. What was your effort level on this task in comparison with your normal effort level (Inspector #2)?

1 2 3 4 5 6 7 8 9
Much Lower                   Average       Much Greater

17. How thorough were you in completing this task in comparison to your normal inspection?

1 2 3 4 5 6 7 8 9
Less Thorough                Average       More Thorough

18. Did you have any specific distractions that adversely affected your inspection (Inspector #1)?

___ Hunger
___ “Nature calls”
___ Access equipment stability
___ Height
___ Temperature
___ Humidity
___ Wind
___ Traffic
___ Noise
___ Other: _____________________________

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:

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