

Status **Y** N U

Seismic Walkdown Checklist (SWC)

Equipment ID No. F1 Equip. Class 2. Low Voltage Switchgear

Equipment Description BUS F1, Low Voltage Switchgear

Location: Bldg. AUXB Floor El. 603 Room 428

Manufacturer, Model, Etc. _____

Instructions for Completing Checklist

This checklist may be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

Anchorage

- | | |
|---|---|
| Y | N |
| | X |
1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?
Component composed of 7 sections. Inspected two end sections at front and verified two plug welds ~3/4" diameter.
- | | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| X | | | |
2. Is the anchorage free of bent, broken, missing or loose hardware?
- | | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| X | | | |
3. Is the anchorage free of corrosion that is more than mild surface oxidation?
- | | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| X | | | |
4. Is the anchorage free of visible cracks in the concrete near the anchors?
Base grout found in good condition.
- | | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| X | | | |
5. Is the anchorage configuration consistent with plant documentation?
(Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)
Verification based on adequacy per SQUG calc C-CSS-F1. SQUG calculations show anchorage to be adequate from previous outlier resolution, page 9 of 28.
- | | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| | | | X |
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?
- | | | |
|---|---|---|
| Y | N | U |
| X | | |

Status **Y** N U

Seismic Walkdown Checklist (SWC)

Equipment ID No. F1 Equip. Class 2. Low Voltage Switchgear

Equipment Description BUS F1, Low Voltage Switchgear

Interaction Effects

7. Are soft targets free from impact by nearby equipment or structures?

Y	N	U	N/A
X			

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?

Y	N	U	N/A
X			

9. Do attached lines have adequate flexibility to avoid damage?

Y	N	U	N/A
X			

10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?

Y	N	U
X		

Other Adverse Conditions

11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment?

Y	N	U
X		

Comments (Additional pages may be added as necessary)

Evaluated by:


Eddie M. Guerra

Date: 7/25/2012


Adam L. Helffrich

Date: 7/25/2012

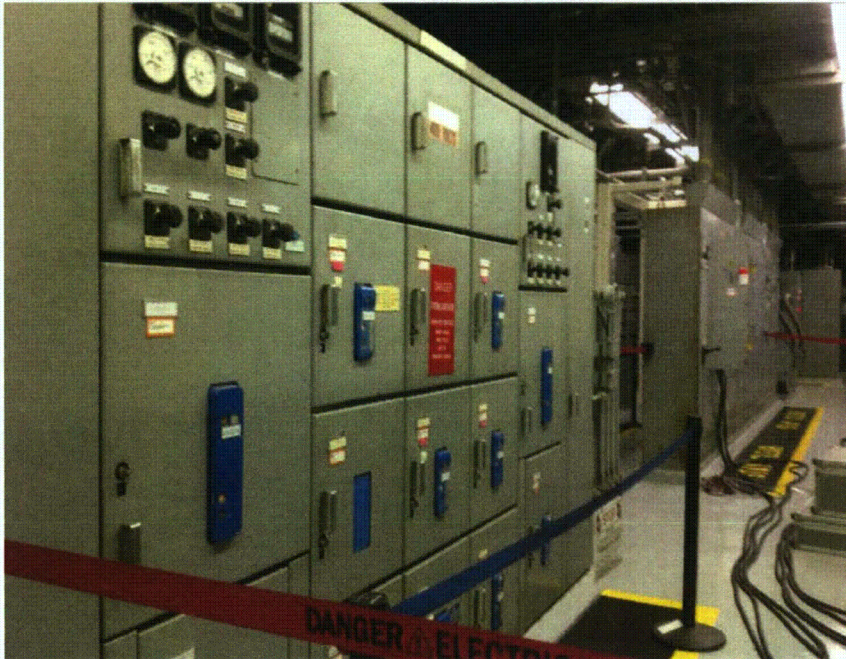
Status **Y** N U

Seismic Walkdown Checklist (SWC)

Equipment ID No. F1 Equip. Class 2. Low Voltage Switchgear

Equipment Description BUS F1, Low Voltage Switchgear

Other supporting or relevant documents and photos (if any):



F1 general (plate inaccessible)
General view of component



F1 anchorage inaccessible

Status **Y** N U

Seismic Walkdown Checklist (SWC)

Equipment ID No. F108-1 Equip. Class 0c. Other - sub-component

Equipment Description EDG 1-1 INTAKE FILTER

Location: Bldg. AUXB Floor El. 585 Room 318

Manufacturer, Model, Etc. _____

Instructions for Completing Checklist

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Anchorage

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?

Y	N
	X

Anchorage could not be verified since it was fully covered by roof cover. SQUG Calc C-CSS-F108 taken as reference for anchorage condition.

2. Is the anchorage free of bent, broken, missing or loose hardware?

Y	N	U	N/A
			X

3. Is the anchorage free of corrosion that is more than mild surface oxidation?

Y	N	U	N/A
			X

4. Is the anchorage free of visible cracks in the concrete near the anchors?
No detail provided in calc. Unable to view during inspection.

Y	N	U	N/A
			X

5. Is the anchorage configuration consistent with plant documentation?
(Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)

Y	N	U	N/A
			X

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?

Y	N	U
X		

*Outlier specified in calculation C-CSS-F108 with respect to anchorage capacity
Calculation provides an outlier close out note specifying a modification (#MOD 95-0029) for additional anchors.*

Status **Y** N U

Seismic Walkdown Checklist (SWC)

Equipment ID No. F108-1 Equip. Class 0c. Other - sub-component

Equipment Description EDG 1-1 INTAKE FILTER

Interaction Effects

7. Are soft targets free from impact by nearby equipment or structures?
Filter cover deemed to be capable of resisting external hazards.

Y	N	U	N/A
X			

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?

Y	N	U	N/A
X			

9. Do attached lines have adequate flexibility to avoid damage?

Y	N	U	N/A
X			

10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?


Y	N	U
X		


Other Adverse Conditions

11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment?

Y	N	U
X		

Comments (Additional pages may be added as necessary)

Evaluated by:  Date: 7/25/2012
Eddie M. Guerra

 Date: 7/25/2012
Adam L. Helffrich

Status **Y** N U

Seismic Walkdown Checklist (SWC)

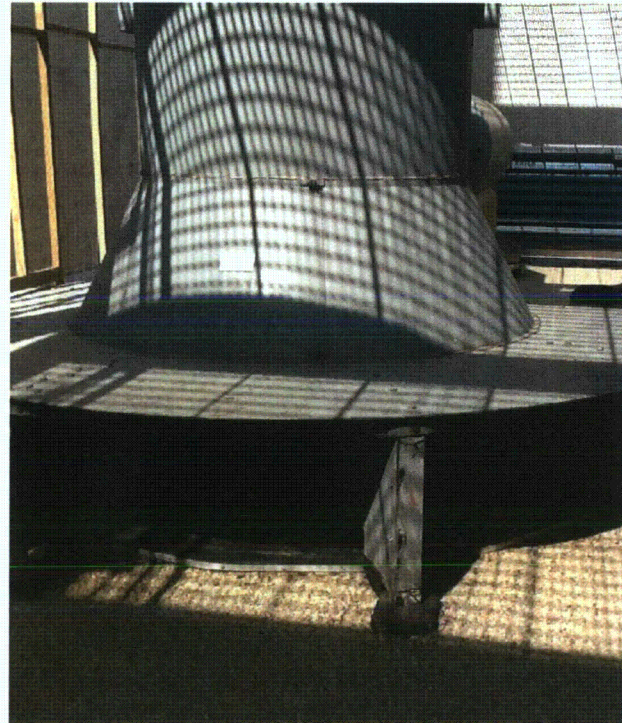
Equipment ID No. F108-1 Equip. Class 0c. Other - sub-component

Equipment Description EDG 1-1 INTAKE FILTER

Other supporting or relevant documents and photos (if any):



F108-1 plate ID
ID Plate of component



F108-1 general
General view of component



F108-1 Encasing Anchorage
View of Intake encasing anchorage condition.

Status: **Y** N U

Seismic Walkdown Checklist (SWC)

Equipment ID No. F11A Equip. Class 1. Motor Control Centers

Equipment Description MCC F11A

Location: Bldg. AUXB Floor El. 603 Room 427

Manufacturer, Model, Etc. _____

Instructions for Completing Checklist

This checklist may be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

Anchorage

- | | | | | |
|--|---|---|---|-----|
| | Y | N | | |
| 1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?
<i>This is an 11 section MCC, welded to embed channels with an average of at least 5" long, 3/16" fillet welds per section (front and back).</i> | X | | | |
| 2. Is the anchorage free of bent, broken, missing or loose hardware?
<i>No degraded conditions found for base stitch welds.</i> | X | | U | N/A |
| 3. Is the anchorage free of corrosion that is more than mild surface oxidation? | X | | | |
| 4. Is the anchorage free of visible cracks in the concrete near the anchors?
<i>Separation found on base grout at end of cabinet. Identified as an aesthetic concern, therefore no significant adverse effect.</i> | X | | | N/A |
| 5. Is the anchorage configuration consistent with plant documentation?
(Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)
<i>Stitch weld detail verified in detail 15 of drawing C-0233 and confirmed to be consistent with walkdown inspection (drawing 1/4" weld 3-6oc). SQUG Calculation C-CSS-F11A provides qualification of as-installed welded anchorage.</i> | X | | | |
| 6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? | X | | U | |

Status: **Y** N U

Seismic Walkdown Checklist (SWC)

Equipment ID No. F11A Equip. Class 1. Motor Control Centers

Equipment Description MCC F11A

Interaction Effects

7. Are soft targets free from impact by nearby equipment or structures?
Nearby ladder found with poor tie-off, but judged not a potential hazard to this MCC.

Y	N	U	N/A
X			

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?

Y	N	U	N/A
X			

9. Do attached lines have adequate flexibility to avoid damage?
Attached top conduits provide adequate top bracing to MCC.

Y	N	U	N/A
X			

10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?
Adjacent panels CDF11A-1 and CDF11A-2 have a gap of ~1/4" to this MCC, but the top connection of these panels to the MCC negates any interaction potential.


Y	N	U
X		


Other Adverse Conditions

11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment?

Y	N	U
X		

Comments (Additional pages may be added as necessary)

Evaluated by:  Date: 7/25/2012
Eddie M. Guerra

 Date: 7/25/2012
Adam L. Helffrich

Status Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No. F11A Equip. Class 1. Motor Control Centers

Equipment Description MCC F11A

Other supporting or relevant documents and photos (if any):



F11A plate
ID Plate of component



F11A general
General view of component

Status **Y** N U

Seismic Walkdown Checklist (SWC)

Equipment ID No. F11A Equip. Class 1. Motor Control Centers

Equipment Description MCC F11A



F11A stitch weld
Partial view of anchorage, view is typical of all anchors



F11A rigid connection to adjoining conduit and MCC
A rigid connection is used to fasten the unit to adjoining conduit

Status **Y** N U

Seismic Walkdown Checklist (SWC)

Equipment ID No. F11A Equip. Class 1. Motor Control Centers

Equipment Description MCC F11A



F11A crack in base of grout on corner
Separation in base grout. Appears to be aesthetic grout only.



F11A poorly secured ladder in area of MCC
Ladder loosely tied off.

Status: **Y** N U

Seismic Walkdown Checklist (SWC)

Equipment ID No. F1-2 Equip. Class 0. Other

Equipment Description Traveling water screen F1-2

Location: Bldg. INTK Floor El. 585 Room 50

Manufacturer, Model, Etc. _____

Instructions for Completing Checklist

This checklist may be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

Anchorage

- | | | | | | | | | | |
|--|---|---|-----|---|-----|---|--|--|---|
| 1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? | <table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <td style="width: 50px; text-align: center;">Y</td> <td style="width: 50px; text-align: center;">N</td> </tr> <tr> <td style="width: 50px; height: 20px;"></td> <td style="width: 50px; height: 20px; text-align: center;">X</td> </tr> </table> | Y | N | | X | | | | |
| Y | N | | | | | | | | |
| | X | | | | | | | | |
| 2. Is the anchorage free of bent, broken, missing or loose hardware? | <table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <td style="width: 50px; text-align: center;">Y</td> <td style="width: 50px; text-align: center;">N</td> <td style="width: 50px; text-align: center;">U</td> <td style="width: 50px; text-align: center;">N/A</td> </tr> <tr> <td style="width: 50px; height: 20px; text-align: center;">X</td> <td style="width: 50px; height: 20px;"></td> <td style="width: 50px; height: 20px;"></td> <td style="width: 50px; height: 20px;"></td> </tr> </table> | Y | N | U | N/A | X | | | |
| Y | N | U | N/A | | | | | | |
| X | | | | | | | | | |
| 3. Is the anchorage free of corrosion that is more than mild surface oxidation?
<i>Slight corrosion identified in bolts due to humid environment.</i> | <table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <td style="width: 50px; text-align: center;">Y</td> <td style="width: 50px; text-align: center;">N</td> <td style="width: 50px; text-align: center;">U</td> <td style="width: 50px; text-align: center;">N/A</td> </tr> <tr> <td style="width: 50px; height: 20px; text-align: center;">X</td> <td style="width: 50px; height: 20px;"></td> <td style="width: 50px; height: 20px;"></td> <td style="width: 50px; height: 20px;"></td> </tr> </table> | Y | N | U | N/A | X | | | |
| Y | N | U | N/A | | | | | | |
| X | | | | | | | | | |
| 4. Is the anchorage free of visible cracks in the concrete near the anchors? | <table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <td style="width: 50px; text-align: center;">Y</td> <td style="width: 50px; text-align: center;">N</td> <td style="width: 50px; text-align: center;">U</td> <td style="width: 50px; text-align: center;">N/A</td> </tr> <tr> <td style="width: 50px; height: 20px; text-align: center;">X</td> <td style="width: 50px; height: 20px;"></td> <td style="width: 50px; height: 20px;"></td> <td style="width: 50px; height: 20px;"></td> </tr> </table> | Y | N | U | N/A | X | | | |
| Y | N | U | N/A | | | | | | |
| X | | | | | | | | | |
| 5. Is the anchorage configuration consistent with plant documentation?
(Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) | <table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <td style="width: 50px; text-align: center;">Y</td> <td style="width: 50px; text-align: center;">N</td> <td style="width: 50px; text-align: center;">U</td> <td style="width: 50px; text-align: center;">N/A</td> </tr> <tr> <td style="width: 50px; height: 20px;"></td> <td style="width: 50px; height: 20px;"></td> <td style="width: 50px; height: 20px;"></td> <td style="width: 50px; height: 20px; text-align: center;">X</td> </tr> </table> | Y | N | U | N/A | | | | X |
| Y | N | U | N/A | | | | | | |
| | | | X | | | | | | |
| 6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?
<i>Although slight corrosion found on screen mounting base, no significant degraded condition was identified during inspection.</i> | <table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <td style="width: 50px; text-align: center;">Y</td> <td style="width: 50px; text-align: center;">N</td> <td style="width: 50px; text-align: center;">U</td> </tr> <tr> <td style="width: 50px; height: 20px; text-align: center;">X</td> <td style="width: 50px; height: 20px;"></td> <td style="width: 50px; height: 20px;"></td> </tr> </table> | Y | N | U | X | | | | |
| Y | N | U | | | | | | | |
| X | | | | | | | | | |

Status **Y** N U

Seismic Walkdown Checklist (SWC)

Equipment ID No. F1-2 Equip. Class 0. Other

Equipment Description Traveling water screen F1-2

Interaction Effects

7. Are soft targets free from impact by nearby equipment or structures?

Y	N	U	N/A
X			

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?

Y	N	U	N/A
X			

9. Do attached lines have adequate flexibility to avoid damage?
Rigidly attached lines, no concern of differential displacement.

Y	N	U	N/A
X			

10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?

Y	N	U
X		


Other Adverse Conditions


11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment?

Y	N	U
X		

Comments (Additional pages may be added as necessary)

*Inside of screen housing was accessible and no degraded condition was identified.
Motor located on top of screen housing found in adequate condition.*

Evaluated by:  Date: 7/25/2012
Eddie M. Guerra

 Date: 7/25/2012
Adam L. Helffrich

Status **Y** N U

Seismic Walkdown Checklist (SWC)

Equipment ID No. F1-2 Equip. Class 0. Other

Equipment Description Traveling water screen F1-2

Other supporting or relevant documents and photos (if any):



F1-2 plate
ID Plate of component



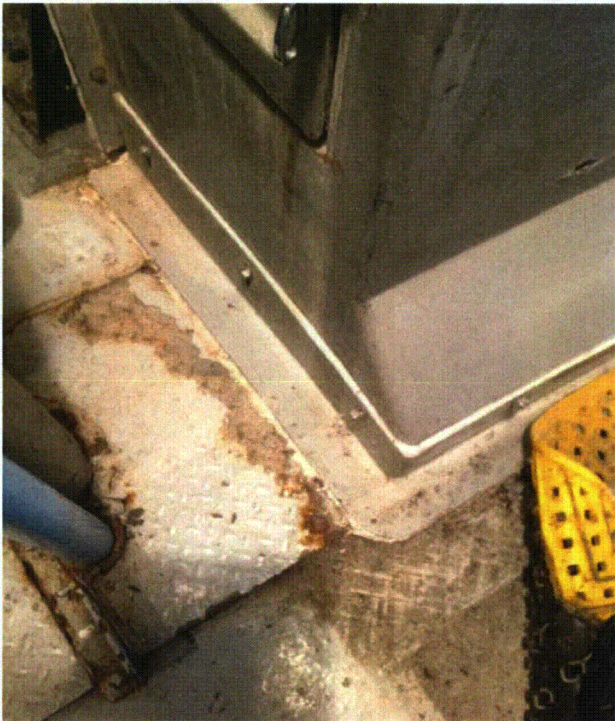
F1-2 general
General view of component

Status Y N U

Seismic Walkdown Checklist (SWC)

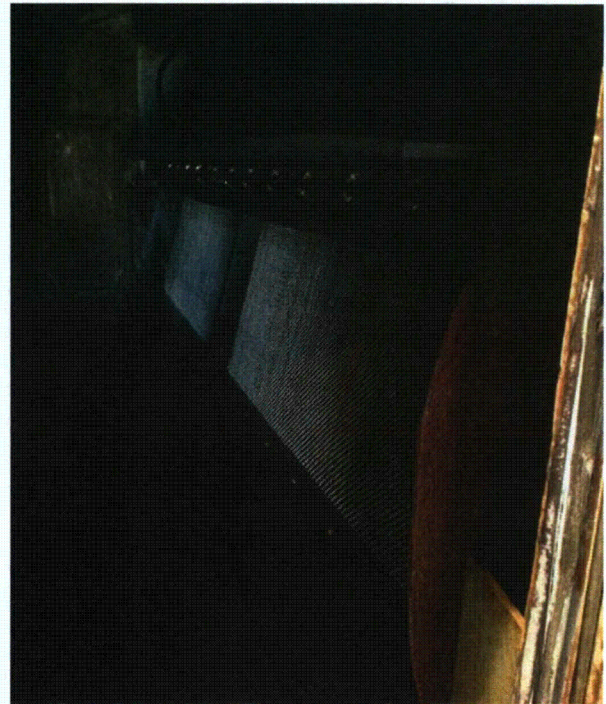
Equipment ID No. F1-2 Equip. Class 0. Other

Equipment Description Traveling water screen F1-2



F1-2 anchorage

Partial view of anchorage, view is typical of all anchors



F1-1 inside

F1-1 is opened for inspection because it is more visible than F1-2

Status **Y** N U

Seismic Walkdown Checklist (SWC)

Equipment ID No. F12A Equip. Class 1. Motor Control Centers

Equipment Description MCC F12A

Location: Bldg. AUXB Floor El. 603 Room 428

Manufacturer, Model, Etc. _____

Instructions for Completing Checklist

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Anchorage

<p>1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?</p> <p><i>This is an 8 section MCC, but it is in-line with two other MCC sections (MCC F14 and MCC F15). It was verified that all adjacent sections are bolted together. Each section of MCC is welded to embed channels at front and back with an average of at least 5" long, 3/16" fillet welds.</i></p>	<table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <td style="width: 50px; text-align: center;">Y</td> <td style="width: 50px; text-align: center;">N</td> </tr> <tr> <td style="text-align: center;">X</td> <td style="text-align: center;"></td> </tr> </table>	Y	N	X					
Y	N								
X									
<p>2. Is the anchorage free of bent, broken, missing or loose hardware?</p> <p><i>No degraded conditions found for base stitch welds.</i></p>	<table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <td style="width: 50px; text-align: center;">Y</td> <td style="width: 50px; text-align: center;">N</td> <td style="width: 50px; text-align: center;">U</td> <td style="width: 50px; text-align: center;">N/A</td> </tr> <tr> <td style="text-align: center;">X</td> <td style="text-align: center;"></td> <td style="text-align: center;"></td> <td style="text-align: center;"></td> </tr> </table>	Y	N	U	N/A	X			
Y	N	U	N/A						
X									
<p>3. Is the anchorage free of corrosion that is more than mild surface oxidation?</p>	<table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <td style="width: 50px; text-align: center;">Y</td> <td style="width: 50px; text-align: center;">N</td> <td style="width: 50px; text-align: center;">U</td> <td style="width: 50px; text-align: center;">N/A</td> </tr> <tr> <td style="text-align: center;">X</td> <td style="text-align: center;"></td> <td style="text-align: center;"></td> <td style="text-align: center;"></td> </tr> </table>	Y	N	U	N/A	X			
Y	N	U	N/A						
X									
<p>4. Is the anchorage free of visible cracks in the concrete near the anchors?</p> <p><i>No cracks identified in sloped grout at mounting base.</i></p>	<table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <td style="width: 50px; text-align: center;">Y</td> <td style="width: 50px; text-align: center;">N</td> <td style="width: 50px; text-align: center;">U</td> <td style="width: 50px; text-align: center;">N/A</td> </tr> <tr> <td style="text-align: center;">X</td> <td style="text-align: center;"></td> <td style="text-align: center;"></td> <td style="text-align: center;"></td> </tr> </table>	Y	N	U	N/A	X			
Y	N	U	N/A						
X									
<p>5. Is the anchorage configuration consistent with plant documentation?</p> <p>(Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)</p> <p><i>SQUG Calculation C-CSS-F12A provides qualification of as-installed welded anchorage.</i></p>	<table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <td style="width: 50px; text-align: center;">Y</td> <td style="width: 50px; text-align: center;">N</td> <td style="width: 50px; text-align: center;">U</td> <td style="width: 50px; text-align: center;">N/A</td> </tr> <tr> <td style="text-align: center;">X</td> <td style="text-align: center;"></td> <td style="text-align: center;"></td> <td style="text-align: center;"></td> </tr> </table>	Y	N	U	N/A	X			
Y	N	U	N/A						
X									
<p>6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?</p>	<table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <td style="width: 50px; text-align: center;">Y</td> <td style="width: 50px; text-align: center;">N</td> <td style="width: 50px; text-align: center;">U</td> </tr> <tr> <td style="text-align: center;">X</td> <td style="text-align: center;"></td> <td style="text-align: center;"></td> </tr> </table>	Y	N	U	X				
Y	N	U							
X									

Status **Y** N U

Seismic Walkdown Checklist (SWC)

Equipment ID No. F12A Equip. Class 1. Motor Control Centers

Equipment Description MCC F12A

Interaction Effects

7. Are soft targets free from impact by nearby equipment or structures?

Y	N	U	N/A
X			

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?

Y	N	U	N/A
X			

9. Do attached lines have adequate flexibility to avoid damage?
Top entry conduit rigidly supported to back wall.

Y	N	U	N/A
X			

10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?

Y	N	U
X		

Other Adverse Conditions


11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment?


Y	N	U
X		

Comments (Additional pages may be added as necessary)

This 8 section MCC is adjacent to MCC F14 and MCC F15. These MCCs were opened and inspected. It was verified that these MCCs are bolted together. At the south end of this MCC, there is a 1.5" gap to panel CDF12A-1, which is judged acceptable to preclude pounding.

Evaluated by:


Eddie M. Guerra Date: 7/25/2012


Adam L. Helffrich Date: 7/25/2012

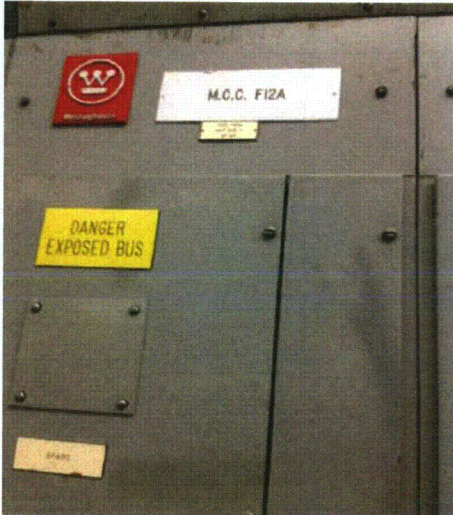
Status **Y** N U

Seismic Walkdown Checklist (SWC)

Equipment ID No. F12A Equip. Class 1. Motor Control Centers

Equipment Description MCC F12A

Other supporting or relevant documents and photos (if any):



F12A plate
ID Plate of component



F12A general
General view of component

Status Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No. F12A Equip. Class 1. Motor Control Centers

Equipment Description MCC F12A



F12A stitch weld
Partial view of anchorage, view is typical of all anchors

Status: **Y** N U

Seismic Walkdown Checklist (SWC)

Equipment ID No. F12D Equip. Class 1. Motor Control Centers

Equipment Description MCC F12D

Location: Bldg. INTK Floor El. 576 Room 52

Manufacturer, Model, Etc. _____

Instructions for Completing Checklist

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Anchorage

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?

Y	N
X	

This a single section MCC welded to embed with an average of 9" of 3/16" fillet welds at front and back. No degraded condition found around cabinet base.
2. Is the anchorage free of bent, broken, missing or loose hardware?

Y	N	U	N/A
X			
3. Is the anchorage free of corrosion that is more than mild surface oxidation?

Y	N	U	N/A
X			
4. Is the anchorage free of visible cracks in the concrete near the anchors?

Y	N	U	N/A
X			

No significant cracks identified around cabinet mounting base.
5. Is the anchorage configuration consistent with plant documentation?
(Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)

Y	N	U	N/A
X			

Since cabinet could not be opened, configuration is verified based on SQUG calculation C-CSS-F12D. This calculation evaluates anchorage based on calculation C-CSS-E12C which concludes anchorage configuration is adequate.
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?

Y	N	U
X		

Outlier close out note (C-CSS-F12D, page 7 of 7) indicates comparison w/ E12C has shown anchorage is adequate. Anchorage is also checked with section L of drawing C-0412B and confirmed to be consistent with walkdown inspection.

Status **Y** N U

Seismic Walkdown Checklist (SWC)

Equipment ID No. F12D Equip. Class 1. Motor Control Centers

Equipment Description MCC F12D

Interaction Effects

7. Are soft targets free from impact by nearby equipment or structures?

Potential interaction hazard due to near by fire extinguishers without adequate wall fixity. It was agreed that no significant effect expected during seismic event.

Y	N	U	N/A
X			

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?

Y	N	U	N/A
X			

9. Do attached lines have adequate flexibility to avoid damage?

Y	N	U	N/A
X			

10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?

Y	N	U
X		


Other Adverse Conditions

11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment?


Y	N	U
X		

Comments (Additional pages may be added as necessary)

Evaluated by:


Eddie M. Guerra

Date: 7/25/2012


Adam L. Helffrich

Date: 7/25/2012

Seismic Walkdown Checklist (SWC)

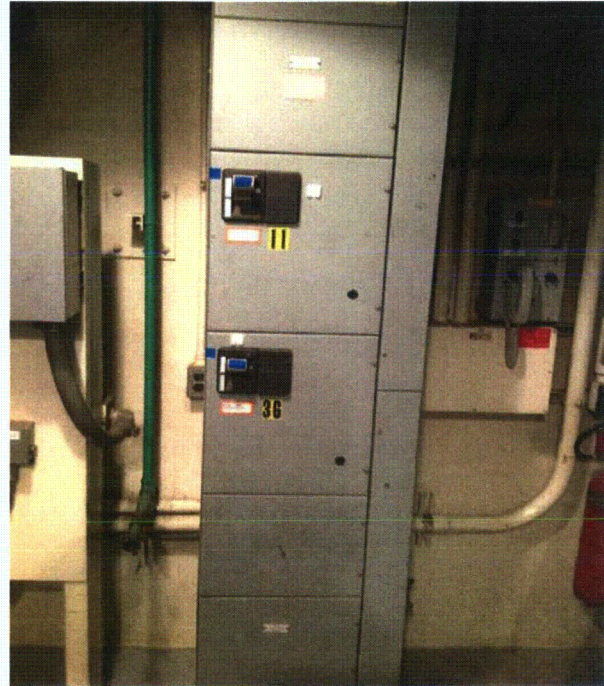
Equipment ID No. F12D Equip. Class 1. Motor Control Centers

Equipment Description MCC F12D

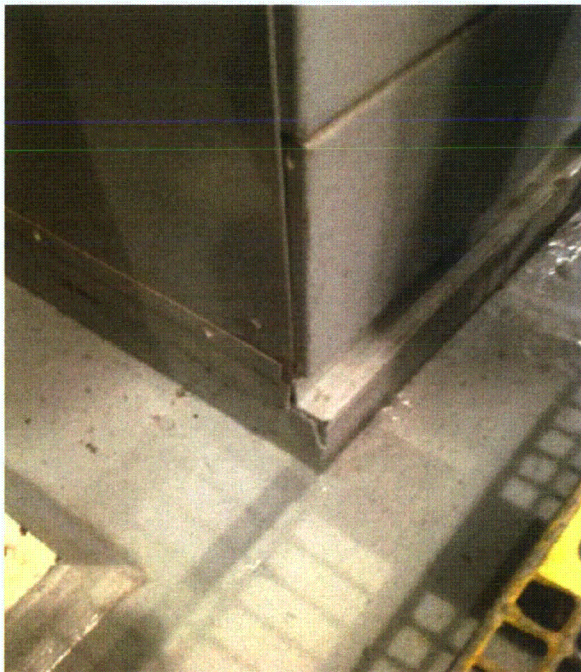
Other supporting or relevant documents and photos (if any):



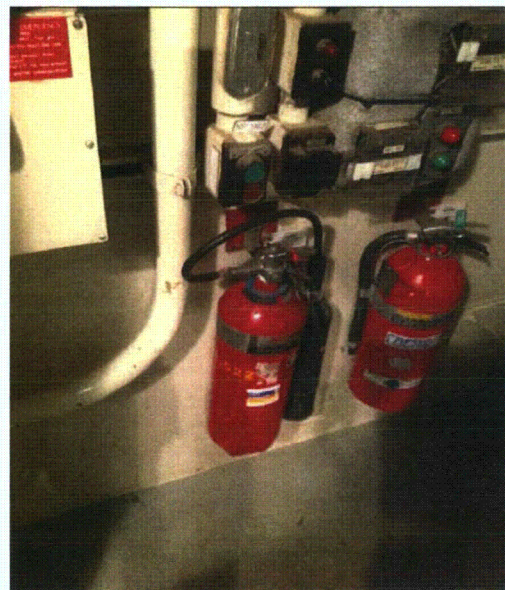
F12D plate
ID Plate of component



F12D general
General view of component



F12D anchorage
Mounting base detail with embedded channel



F12D fire ext to right
Potential interaction hazard from fire extinguisher
in the vicinity of component.

Status: **Y** N U

Seismic Walkdown Checklist (SWC)

Equipment ID No. FD1062 Equip. Class 0. Other

Equipment Description FIRE DAMPER FD 1062

Location: Bldg. AUXB Floor El. 603 Room 428

Manufacturer, Model, Etc. _____

Instructions for Completing Checklist

This checklist may be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

Anchorage

- | | | | | |
|---|---|---|--|--|
| | Y | N | | |
| 1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?
<i>Component attached to ceiling and braced to wall with HSS sections.</i> | X | X | | |
-
- | | | | | |
|--|---|---|---|-----|
| | Y | N | U | N/A |
| 2. Is the anchorage free of bent, broken, missing or loose hardware?
<i>Damper vertical supports connected to upper floor decking between ribs.</i> | X | | | |
-
- | | | | | |
|---|---|---|---|-----|
| | Y | N | U | N/A |
| 3. Is the anchorage free of corrosion that is more than mild surface oxidation? | X | | | |
-
- | | | | | |
|--|---|---|---|-----|
| | Y | N | U | N/A |
| 4. Is the anchorage free of visible cracks in the concrete near the anchors? | X | | | |
-
- | | | | | |
|---|---|---|---|-----|
| | Y | N | U | N/A |
| 5. Is the anchorage configuration consistent with plant documentation?
(Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) | | | | X |
-
- | | | | | |
|--|---|---|---|--|
| | Y | N | U | |
| 6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?
<i>Damper found adequately supported against lateral movement. HSS sections found in adequate condition. No signs of corrosion observed on support members.</i> | X | | | |

Status **Y** N U

Seismic Walkdown Checklist (SWC)

Equipment ID No. FD1062 Equip. Class 0. Other

Equipment Description FIRE DAMPER FD 1062

Interaction Effects

7. Are soft targets free from impact by nearby equipment or structures?

Y	N	U	N/A
X			

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?

Y	N	U	N/A
X			

9. Do attached lines have adequate flexibility to avoid damage?

Electric line connected with adequate flexibility.

Y	N	U	N/A
X			

10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?

Y	N	U
X		

Other Adverse Conditions

11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment?

Y	N	U
X		

Comments (Additional pages may be added as necessary)

Evaluated by:


Eddie M. Guerra

Date: 7/25/2012


Adam L. Helffrich

Date: 7/25/2012

Status Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No. FD1062 Equip. Class 0. Other

Equipment Description FIRE DAMPER FD 1062

Other supporting or relevant documents and photos (if any):



FD1062
General view of component



FD1062 anchorage
View of anchorage

Status **Y** N U

Seismic Walkdown Checklist (SWC)

Equipment ID No. FIS 1612 Equip. Class 20. Instrument and Control Panels

Equipment Description SFP HX 1 FIS-1612 Cool Water Outlet Flow Indicating Switch

Location: Bldg. AUXB Floor El. 590'6" Room 312

Manufacturer, Model, Etc. _____

Instructions for Completing Checklist

This checklist may be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

Anchorage

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?

Y	N
	X

Floor mounted rack found in adequate condition anchored with 4-1/2" diam bolts.

2. Is the anchorage free of bent, broken, missing or loose hardware?

Y	N	U	N/A
X			

3. Is the anchorage free of corrosion that is more than mild surface oxidation?

Y	N	U	N/A
X			

No signs of corrosion found on anchor bolts and bottom 1/2" plate.

4. Is the anchorage free of visible cracks in the concrete near the anchors?

Y	N	U	N/A
X			

No visible cracks on grout for bottom plate anchorage.

5. Is the anchorage configuration consistent with plant documentation?

Y	N	U	N/A
			X

(Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?

Y	N	U
X		

Anchor spacing to adjacent floor mounted rack is judged adequate.

Status **Y** N U

Seismic Walkdown Checklist (SWC)

Equipment ID No. FIS 1612 Equip. Class 20. Instrument and Control Panels

Equipment Description SFP HX 1 FIS-1612 Cool Water Outlet Flow Indicating Switch

Interaction Effects

7. Are soft targets free from impact by nearby equipment or structures?

Y	N	U	N/A
X			

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?

*Seismic capacity of block walls in the area verified.
Block walls 3257 and 3267 verified to be to be seismically adequate based on ref. VBW16-B001-083, Rev 2 (4/27/88) and VBW16-B001-084, Rev 5 (4/27/88).*

Y	N	U	N/A
X			

9. Do attached lines have adequate flexibility to avoid damage?

Flexible line and small piping were identified with adequate flexibility.

Y	N	U	N/A
X			

10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?

Y	N	U
X		


Other Adverse Conditions


11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment?

Y	N	U
X		

Comments (Additional pages may be added as necessary)

Evaluated by:


Eddie M. Guerra Date: 7/25/2012


Adam L. Helffrich Date: 7/25/2012

Status **Y** N U

Seismic Walkdown Checklist (SWC)

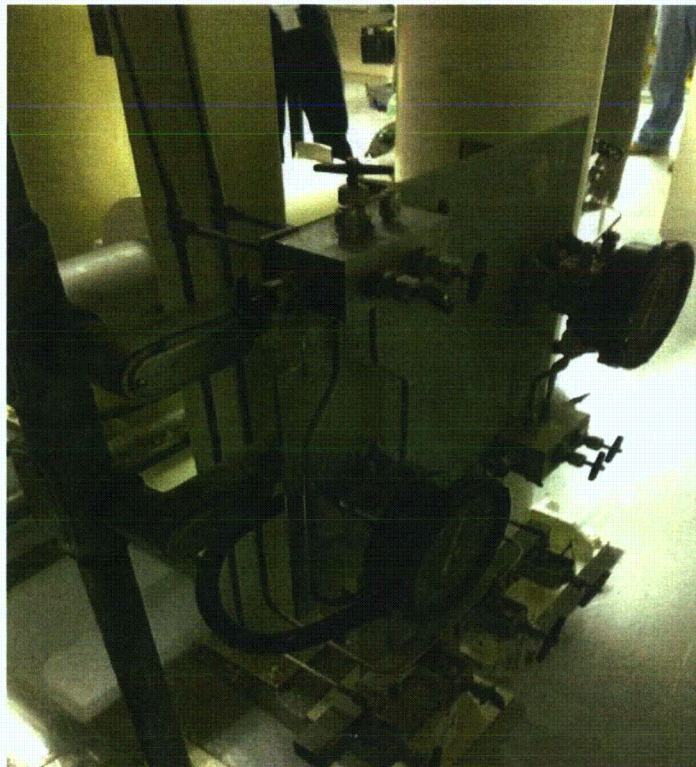
Equipment ID No. FIS 1612 Equip. Class 20. Instrument and Control Panels

Equipment Description SFP HX 1 FIS-1612 Cool Water Outlet Flow Indicating Switch

Other supporting or relevant documents and photos (if any):



FIS1612 plate
ID Plate of component



FIS1612 general
General view of component

Status Y N U

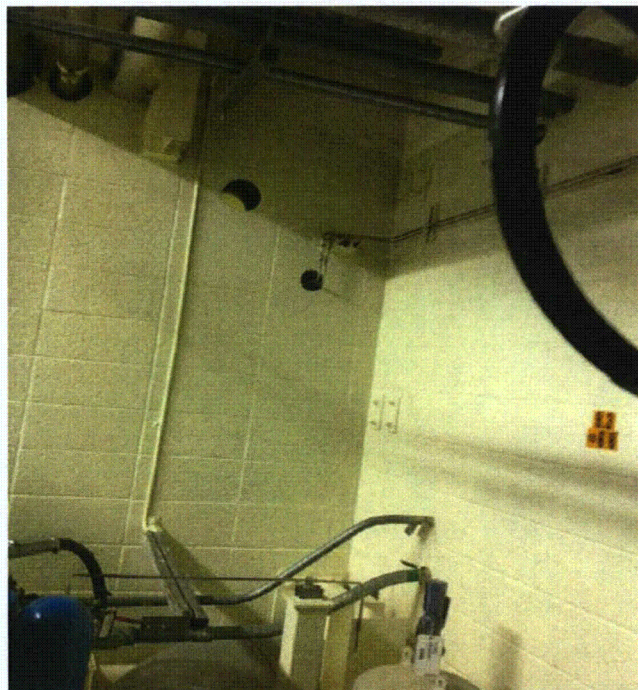
Seismic Walkdown Checklist (SWC)

Equipment ID No. FIS 1612 Equip. Class 20. Instrument and Control Panels

Equipment Description SFP HX 1 FIS-1612 Cool Water Outlet Flow Indicating Switch



FIS1612 anchorage
View of anchorage



FIS1612 adjacent masonry wall
Potential interaction hazard from masonry wall near unit

Status **Y** N U

Seismic Walkdown Checklist (SWC)

Equipment ID No. FTHP3C Equip. Class 18. Instrument (on) Racks

Equipment Description FLOW TRANSMITTER FT HP3C

Location: Bldg. AUXB Floor El. 565 Room 208

Manufacturer, Model, Etc. _____

Instructions for Completing Checklist

This checklist may be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

Anchorage

- | | | | |
|---|---|--|--|
| Y | N | | |
| X | X | | |
1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?
Mounted on tube section 6x6 which is attached to concrete wall with four 1/2" diameter anchors. The lightweight transmitter (<~20 lbs) is attached to the rack with four 3/8" diameter machine bolts. OK.
- | | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| X | | | |
2. Is the anchorage free of bent, broken, missing or loose hardware?
Supporting wall tubes found in good condition.
- | | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| X | | | |
3. Is the anchorage free of corrosion that is more than mild surface oxidation?
No signs of corrosion found on mounting support and piping
- | | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| X | | | |
4. Is the anchorage free of visible cracks in the concrete near the anchors?
No cracks identified on wall near flow transmitter.
- | | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| | | | X |
5. Is the anchorage configuration consistent with plant documentation?
(Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)
- | | | | |
|---|---|---|--|
| Y | N | U | |
| X | | | |
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?

Status **Y** N U

Seismic Walkdown Checklist (SWC)

Equipment ID No. FTHP3C Equip. Class 18. Instrument (on) Racks

Equipment Description FLOW TRANSMITTER FT HP3C

Interaction Effects

7. Are soft targets free from impact by nearby equipment or structures?

Y	N	U	N/A
X			

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?

Y	N	U	N/A
X			

9. Do attached lines have adequate flexibility to avoid damage?

Small piping connected to transmitter found with adequate flexibility.

Y	N	U	N/A
X			

10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?

No potential interaction identified on the vicinity of component.

Y	N	U
X		


Other Adverse Conditions

11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment?

Y	N	U
X		

Comments (Additional pages may be added as necessary)

Pipe lines rigidly attached to containment wall. No adverse effects due to differential motion are expected.

Evaluated by:  Date: 7/25/2012
Eddie M. Guerra

 Date: 7/25/2012
Adam L. Helffrich

Status **Y** N U

Seismic Walkdown Checklist (SWC)

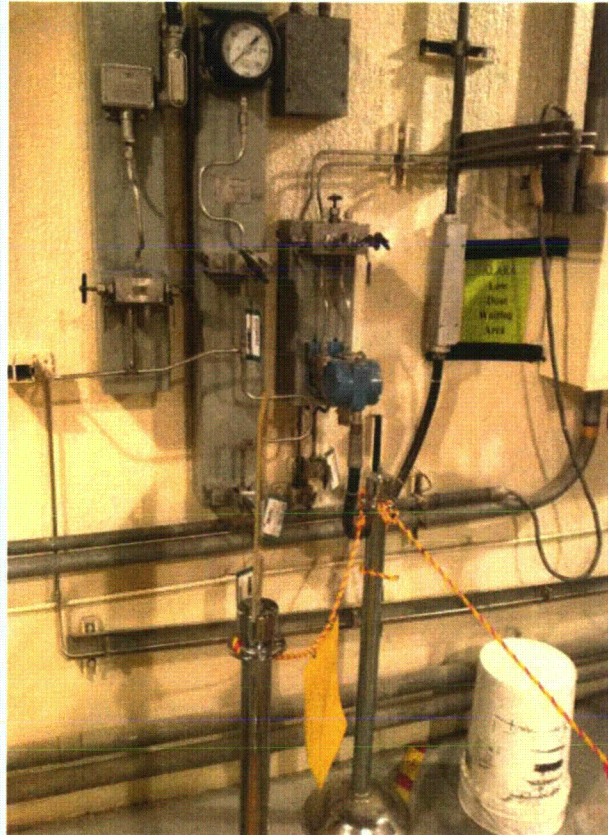
Equipment ID No. FTHP3C Equip. Class 18. Instrument (on) Racks

Equipment Description FLOW TRANSMITTER FT HP3C

Other supporting or relevant documents and photos (if any):



FTHP3C
ID Plate of component



FTHP3C General
General view of component

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No. FV6451 Equip. Class 8B. Solenoid Valves

Equipment Description SOLENOID VALVE AF6451

Location: Bldg. AUXB Floor El. 565 Room 238

Manufacturer, Model, Etc. _____

Instructions for Completing Checklist

This checklist may be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

Anchorage

- | | | | |
|--------------------------|--------------------------|--------------------------|-------------------------------------|
| Y | N | | |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?
Installed on a 4" diameter pipe line.
- | | | | |
|--------------------------|--------------------------|--------------------------|-------------------------------------|
| Y | N | U | N/A |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
2. Is the anchorage free of bent, broken, missing or loose hardware?
- | | | | |
|--------------------------|--------------------------|--------------------------|-------------------------------------|
| Y | N | U | N/A |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
3. Is the anchorage free of corrosion that is more than mild surface oxidation?
Valve and main pipe line found with no signs of corrosion.
- | | | | |
|--------------------------|--------------------------|--------------------------|-------------------------------------|
| Y | N | U | N/A |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
4. Is the anchorage free of visible cracks in the concrete near the anchors?
- | | | | |
|--------------------------|--------------------------|--------------------------|-------------------------------------|
| Y | N | U | N/A |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
5. Is the anchorage configuration consistent with plant documentation?
(Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)
- | | | | |
|--------------------------|--------------------------|--------------------------|-------------------------------------|
| Y | N | U | N/A |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
- | | | | |
|-------------------------------------|--------------------------|--------------------------|--------------------------|
| Y | N | U | |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?
Main pipe line adequately supported. No excessive unsupported lengths identified.

Status **Y** N U

Seismic Walkdown Checklist (SWC)

Equipment ID No. FV6451 Equip. Class 8B. Solenoid Valves

Equipment Description SOLENOID VALVE AF6451

Interaction Effects

7. Are soft targets free from impact by nearby equipment or structures?

Y	N	U	N/A
X			

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?

No block walls or potential interaction hazard identified in the area.

Y	N	U	N/A
X			

9. Do attached lines have adequate flexibility to avoid damage?

Lines connected with adequate flexibility.

Y	N	U	N/A
X			

10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?

Y	N	U
X		

Other Adverse Conditions

11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment?

Y	N	U
X		

Comments (Additional pages may be added as necessary)

Evaluated by:


Eddie M. Guerra

Date: 7/25/2012


Adam L. Helffrich

Date: 7/25/2012

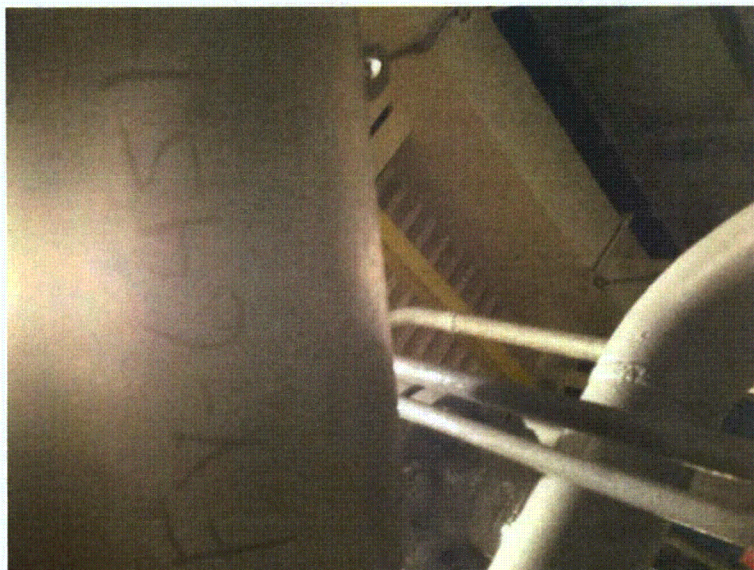
Status Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No. FV6451 Equip. Class 8B. Solenoid Valves

Equipment Description SOLENOID VALVE AF6451

Other supporting or relevant documents and photos (if any):



FV-6451 Plate
ID Plate of component



FV-6451 General2
General view of component

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No. FV6452 Equip. Class 8B. Solenoid Valves

Equipment Description SOLENOID VALVE AF6452

Location: Bldg. AUXB Floor El. 565 Room 237

Manufacturer, Model, Etc. _____

Instructions for Completing Checklist

This checklist may be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

Anchorage

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?

Mounted on pipe line spanning around 10ft.

Y	N
<input type="checkbox"/>	<input checked="" type="checkbox"/>

2. Is the anchorage free of bent, broken, missing or loose hardware?

Y	N	U	N/A
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

3. Is the anchorage free of corrosion that is more than mild surface oxidation?

Valve and pipe line found with good surface condition and no signs of corrosion.

Y	N	U	N/A
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

4. Is the anchorage free of visible cracks in the concrete near the anchors?

Y	N	U	N/A
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

5. Is the anchorage configuration consistent with plant documentation?

(Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)

Y	N	U	N/A
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?

Y	N	U
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Status **Y** N U

Seismic Walkdown Checklist (SWC)

Equipment ID No. FV6452 Equip. Class 8B. Solenoid Valves

Equipment Description SOLENOID VALVE AF6452

Interaction Effects

7. Are soft targets free from impact by nearby equipment or structures?

Y	N	U	N/A
X			

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?

Y	N	U	N/A
X			

9. Do attached lines have adequate flexibility to avoid damage?

Attached lines found with adequate flexibility.

Y	N	U	N/A
X			

10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?

Y	N	U
X		


Other Adverse Conditions

11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment?

Y	N	U
X		

Comments (Additional pages may be added as necessary)

Evaluated by:


Eddie M. Guerra

Date: 7/25/2012


Adam L. Helffrich

Date: 7/25/2012

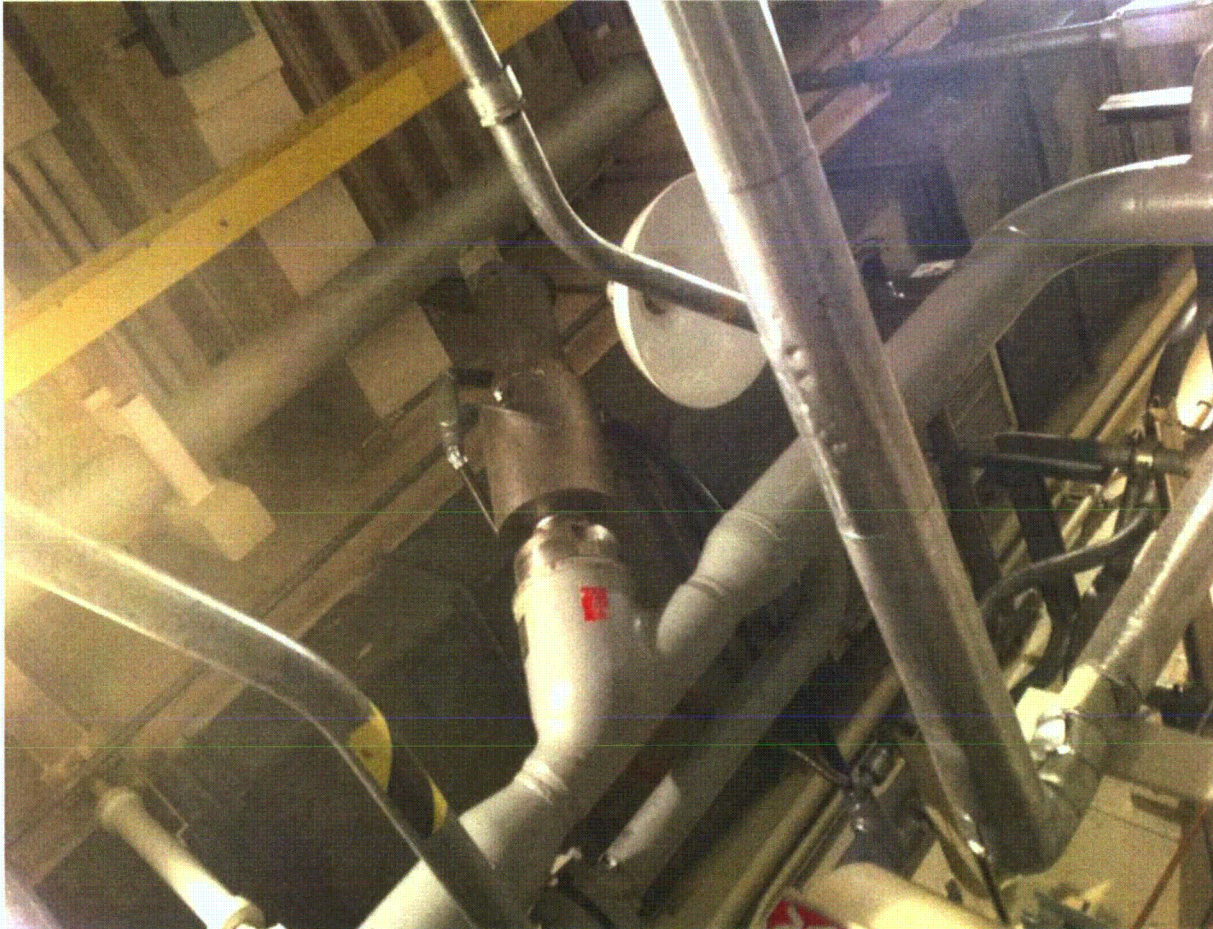
Status Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No. FV6452 Equip. Class 8B. Solenoid Valves

Equipment Description SOLENOID VALVE AF6452

Other supporting or relevant documents and photos (if any):



FV6452 general
General view of component

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No. HIS 5889A Equip. Class 20. Instrument and Control Panels

Equipment Description AFP TURB 1-1 STEAM INLET VALVE inside PNL C5709

Location: Bldg. AUXB Floor El. 623 Room 505

Manufacturer, Model, Etc. _____

Instructions for Completing Checklist

This checklist may be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

Anchorage

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?

Inside Panel C5709, which has similar anchorage to Panel C5702. Back panel doors are adequately attached to panel structure with 4-1/2" screws.

Y	N
	X

2. Is the anchorage free of bent, broken, missing or loose hardware?

None observed.

Y	N	U	N/A
X			

3. Is the anchorage free of corrosion that is more than mild surface oxidation?

None observed.

Y	N	U	N/A
X			

4. Is the anchorage free of visible cracks in the concrete near the anchors?

None observed.

Y	N	U	N/A
X			

5. Is the anchorage configuration consistent with plant documentation?

(Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)

Y	N	U	N/A
			X

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?

Y	N	U
X		

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No. HIS 5889A Equip. Class 20. Instrument and Control Panels

Equipment Description AFP TURB 1-1 STEAM INLET VALVE inside PNL C5709

Interaction Effects

7. Are soft targets free from impact by nearby equipment or structures?

Y	N	U	N/A
X			

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?

Y	N	U	N/A
X			

9. Do attached lines have adequate flexibility to avoid damage?

Y	N	U	N/A
X			

10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?


Y	N	U
X		


Other Adverse Conditions

11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment?

Y	N	U
X		

Comments (Additional pages may be added as necessary)

Evaluated by:  Date: 7/25/2012
 Eddie M. Guerra

 Date: 7/25/2012
 Adam L. Helffrich

Status: **Y** N U

Seismic Walkdown Checklist (SWC)

Equipment ID No. HIS 7528 Equip. Class 20. Instrument and Control Panels

Equipment Description SFAS CHANNEL 1 BLOCK SW inside PNL C5705

Location: Bldg. AUXB Floor El. 623 Room 505

Manufacturer, Model, Etc. _____

Instructions for Completing Checklist

This checklist may be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

Anchorage

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?

Inside Panel C5705, which has similar anchorage to Panel C5702. Back panel doors are adequately attached to panel structure with 4-1/2" screws.

Y	N
	X

2. Is the anchorage free of bent, broken, missing or loose hardware?

None observed.

Y	N	U	N/A
X			

3. Is the anchorage free of corrosion that is more than mild surface oxidation?

None observed.

Y	N	U	N/A
X			

4. Is the anchorage free of visible cracks in the concrete near the anchors?

None observed.

Y	N	U	N/A
X			

5. Is the anchorage configuration consistent with plant documentation?

(Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)

Y	N	U	N/A
			X

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?

Y	N	U
X		

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No. HIS 7528 Equip. Class 20. Instrument and Control Panels

Equipment Description SFAS CHANNEL 1 BLOCK SW inside PNL C5705

Interaction Effects

7. Are soft targets free from impact by nearby equipment or structures?

Y	N	U	N/A
X			

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?

Y	N	U	N/A
X			

9. Do attached lines have adequate flexibility to avoid damage?

Y	N	U	N/A
X			

10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?

Y	N	U
X		

Other Adverse Conditions


11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment?

Y	N	U
X		

Comments (Additional pages may be added as necessary)

Evaluated by:


Eddie M. Guerra Date: 7/25/2012


Adam L. Helffrich Date: 7/25/2012

Status: **Y** N U

Seismic Walkdown Checklist (SWC)

Equipment ID No. hp2b Equip. Class 8A. Motor-Operated Valves

Equipment Description MOTOR OPERATED VALVE HP-2B

Location: Bldg. AUXB Floor El. 565 Room 236

Manufacturer, Model, Etc. _____

Instructions for Completing Checklist

This checklist may be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

Anchorage

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?

Y	N
	X

Valve is horizontally mounted on the pipe. There is an anchor right below the valve.

2. Is the anchorage free of bent, broken, missing or loose hardware?

Y	N	U	N/A
			X

3. Is the anchorage free of corrosion that is more than mild surface oxidation?

Y	N	U	N/A
			X

MOV found with good surface finish and no signs of corrosion.

4. Is the anchorage free of visible cracks in the concrete near the anchors?

Y	N	U	N/A
			X

5. Is the anchorage configuration consistent with plant documentation?

(Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)

Y	N	U	N/A
			X

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?

Y	N	U
X		

Status **Y** N U

Seismic Walkdown Checklist (SWC)

Equipment ID No. hp2b Equip. Class 8A. Motor-Operated Valves

Equipment Description MOTOR OPERATED VALVE HP-2B

Interaction Effects

7. Are soft targets free from impact by nearby equipment or structures?
No potential interaction hazards identified from nearby equipment.

Y	N	U	N/A
X			

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?
Seismic capacity of block walls in the area verified as walls 2337 and 2347. Block wall hazard identified as Non-Credible.

Y	N	U	N/A
X			

9. Do attached lines have adequate flexibility to avoid damage?
Flexible lines inspected and found with adequate flexibility.

Y	N	U	N/A
X			

10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?

Y	N	U
X		

Other Adverse Conditions


11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment?


Y	N	U
X		

Comments (Additional pages may be added as necessary)

Pipe enters containment penetration P-20 from Aux. Building. The pipe is judged adequate for Seismic Anchor Motion loads (~15' of flex. Length)

Evaluated by:


Eddie M. Guerra Date: 7/25/2012


Adam L. Helffrich Date: 7/25/2012

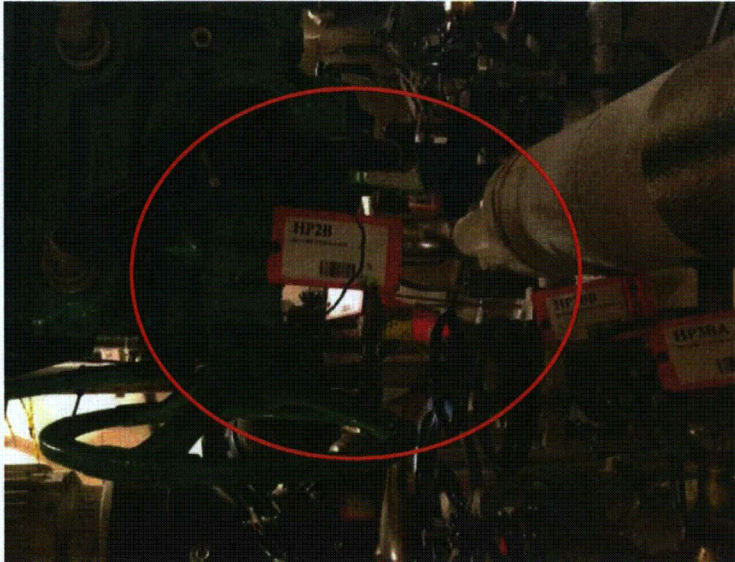
Status Y N U

Seismic Walkdown Checklist (SWC)

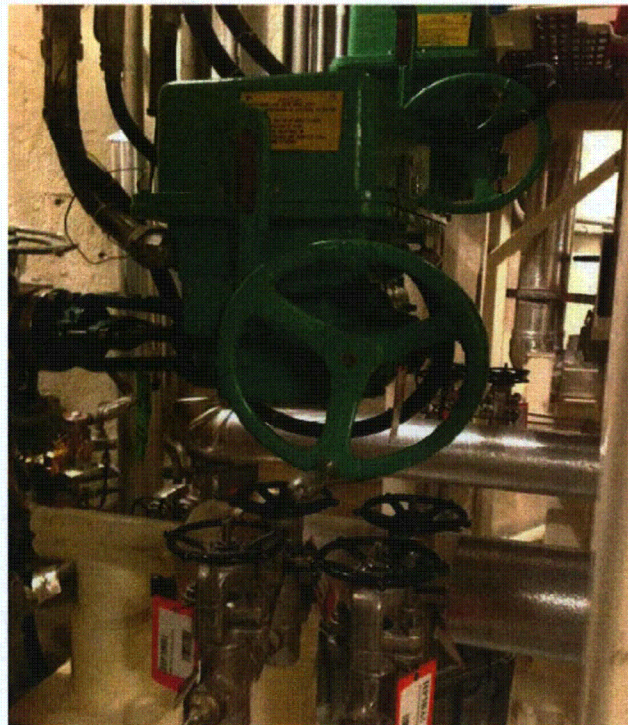
Equipment ID No. hp2b Equip. Class 8A. Motor-Operated Valves

Equipment Description MOTOR OPERATED VALVE HP-2B

Other supporting or relevant documents and photos (if any):



HP2B Plate
ID Plate of component



HP2B General
General view of component

Status **Y** N U

Seismic Walkdown Checklist (SWC)

Equipment ID No. hp2c Equip. Class 8A. Motor-Operated Valves

Equipment Description MOTOR OPERATED VALVE HP-2C

Location: Bldg. AUXB Floor El. 565 Room 208

Manufacturer, Model, Etc. _____

Instructions for Completing Checklist

This checklist may be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

Anchorage

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?

Pipe is adequately supported at ~24" on either side of the valve.

Y	N
<input type="checkbox"/>	<input checked="" type="checkbox"/>

2. Is the anchorage free of bent, broken, missing or loose hardware?

Y	N	U	N/A
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

3. Is the anchorage free of corrosion that is more than mild surface oxidation?

Y	N	U	N/A
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

4. Is the anchorage free of visible cracks in the concrete near the anchors?

Y	N	U	N/A
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

5. Is the anchorage configuration consistent with plant documentation?
(Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)

Y	N	U	N/A
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?

Y	N	U
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Status **Y** N U

Seismic Walkdown Checklist (SWC)

Equipment ID No. hp2c Equip. Class 8A. Motor-Operated Valves

Equipment Description MOTOR OPERATED VALVE HP-2C

Interaction Effects

7. Are soft targets free from impact by nearby equipment or structures?

Y	N	U	N/A
X			

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?

Y	N	U	N/A
X			

9. Do attached lines have adequate flexibility to avoid damage?

Attached lines were found with adequate flexibility.

Y	N	U	N/A
X			

10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?


Y	N	U
X		


Other Adverse Conditions

11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment?

Y	N	U
X		

Comments (Additional pages may be added as necessary)

Evaluated by:  Date: 7/25/2012
Eddie M. Guerra

 Date: 7/25/2012
Adam L. Helffrich

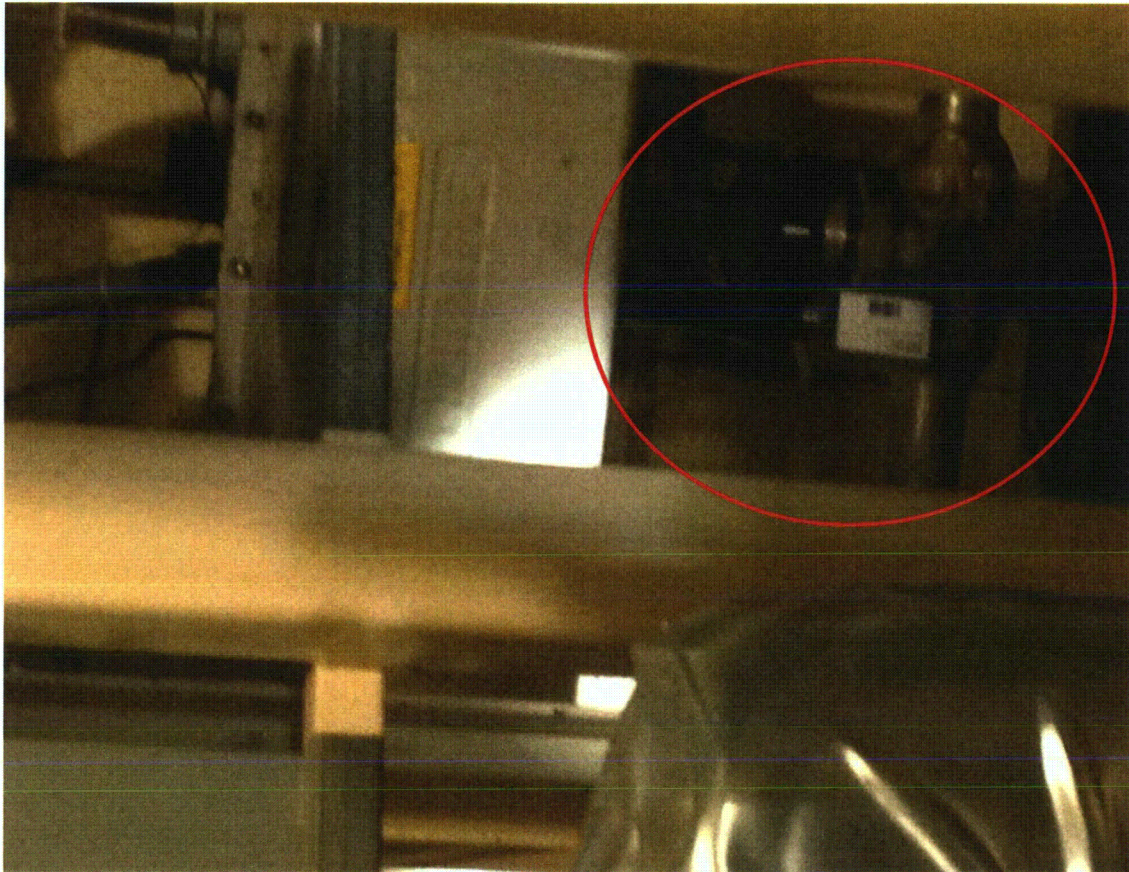
Status **Y** N U

Seismic Walkdown Checklist (SWC)

Equipment ID No. hp2c Equip. Class 8A. Motor-Operated Valves

Equipment Description MOTOR OPERATED VALVE HP-2C

Other supporting or relevant documents and photos (if any):



HP2C General
General view of component

Status **Y** N U

Seismic Walkdown Checklist (SWC)

Equipment ID No. HV5314 Equip. Class 0. Other

Equipment Description MOTOR-OPERATED DAMPER HV 5314

Location: Bldg. AUXB Floor El. 623 Room 515

Manufacturer, Model, Etc. _____

Instructions for Completing Checklist

This checklist may be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

Anchorage

<p>1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? <i>HSS 6x6 rack anchored to floor and wall found in adequate condition. Damper attached to rack with four 1/2" diameter bolts.</i></p>	<table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <td style="width: 20px; text-align: center;">Y</td> <td style="width: 20px; text-align: center;">N</td> </tr> <tr> <td style="width: 20px; text-align: center;"><input type="checkbox"/></td> <td style="width: 20px; text-align: center;"><input checked="" type="checkbox"/></td> </tr> </table>	Y	N	<input type="checkbox"/>	<input checked="" type="checkbox"/>				
Y	N								
<input type="checkbox"/>	<input checked="" type="checkbox"/>								
<p>2. Is the anchorage free of bent, broken, missing or loose hardware?</p>	<table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <td style="width: 20px; text-align: center;">Y</td> <td style="width: 20px; text-align: center;">N</td> <td style="width: 20px; text-align: center;">U</td> <td style="width: 20px; text-align: center;">N/A</td> </tr> <tr> <td style="width: 20px; text-align: center;"><input checked="" type="checkbox"/></td> <td style="width: 20px; text-align: center;"><input type="checkbox"/></td> <td style="width: 20px; text-align: center;"><input type="checkbox"/></td> <td style="width: 20px; text-align: center;"><input type="checkbox"/></td> </tr> </table>	Y	N	U	N/A	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Y	N	U	N/A						
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>						
<p>3. Is the anchorage free of corrosion that is more than mild surface oxidation?</p>	<table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <td style="width: 20px; text-align: center;">Y</td> <td style="width: 20px; text-align: center;">N</td> <td style="width: 20px; text-align: center;">U</td> <td style="width: 20px; text-align: center;">N/A</td> </tr> <tr> <td style="width: 20px; text-align: center;"><input checked="" type="checkbox"/></td> <td style="width: 20px; text-align: center;"><input type="checkbox"/></td> <td style="width: 20px; text-align: center;"><input type="checkbox"/></td> <td style="width: 20px; text-align: center;"><input type="checkbox"/></td> </tr> </table>	Y	N	U	N/A	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Y	N	U	N/A						
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>						
<p>4. Is the anchorage free of visible cracks in the concrete near the anchors?</p>	<table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <td style="width: 20px; text-align: center;">Y</td> <td style="width: 20px; text-align: center;">N</td> <td style="width: 20px; text-align: center;">U</td> <td style="width: 20px; text-align: center;">N/A</td> </tr> <tr> <td style="width: 20px; text-align: center;"><input checked="" type="checkbox"/></td> <td style="width: 20px; text-align: center;"><input type="checkbox"/></td> <td style="width: 20px; text-align: center;"><input type="checkbox"/></td> <td style="width: 20px; text-align: center;"><input type="checkbox"/></td> </tr> </table>	Y	N	U	N/A	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Y	N	U	N/A						
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>						
<p>5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)</p>	<table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <td style="width: 20px; text-align: center;">Y</td> <td style="width: 20px; text-align: center;">N</td> <td style="width: 20px; text-align: center;">U</td> <td style="width: 20px; text-align: center;">N/A</td> </tr> <tr> <td style="width: 20px; text-align: center;"><input type="checkbox"/></td> <td style="width: 20px; text-align: center;"><input type="checkbox"/></td> <td style="width: 20px; text-align: center;"><input type="checkbox"/></td> <td style="width: 20px; text-align: center;"><input checked="" type="checkbox"/></td> </tr> </table>	Y	N	U	N/A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Y	N	U	N/A						
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>						
<p>6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?</p>	<table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <td style="width: 20px; text-align: center;">Y</td> <td style="width: 20px; text-align: center;">N</td> <td style="width: 20px; text-align: center;">U</td> </tr> <tr> <td style="width: 20px; text-align: center;"><input checked="" type="checkbox"/></td> <td style="width: 20px; text-align: center;"><input type="checkbox"/></td> <td style="width: 20px; text-align: center;"><input type="checkbox"/></td> </tr> </table>	Y	N	U	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Y	N	U							
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>							

Status **Y** N U

Seismic Walkdown Checklist (SWC)

Equipment ID No. HV5314 Equip. Class 0. Other

Equipment Description MOTOR-OPERATED DAMPER HV 5314

Interaction Effects

7. Are soft targets free from impact by nearby equipment or structures?

Y	N	U	N/A
X			

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?

Y	N	U	N/A
X			

9. Do attached lines have adequate flexibility to avoid damage?
Flexible lines attached to component found in good condition.

Y	N	U	N/A
X			

10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?

Y	N	U
X		


Other Adverse Conditions


11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment?

Y	N	U
X		

Comments (Additional pages may be added as necessary)

Evaluated by:


Eddie M. Guerra Date: 7/25/2012


Adam L. Helffrich Date: 7/25/2012

Status Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No. HV5314 Equip. Class 0. Other

Equipment Description MOTOR-OPERATED DAMPER HV 5314

Other supporting or relevant documents and photos (if any):



HV5314 Plate
ID Plate of component



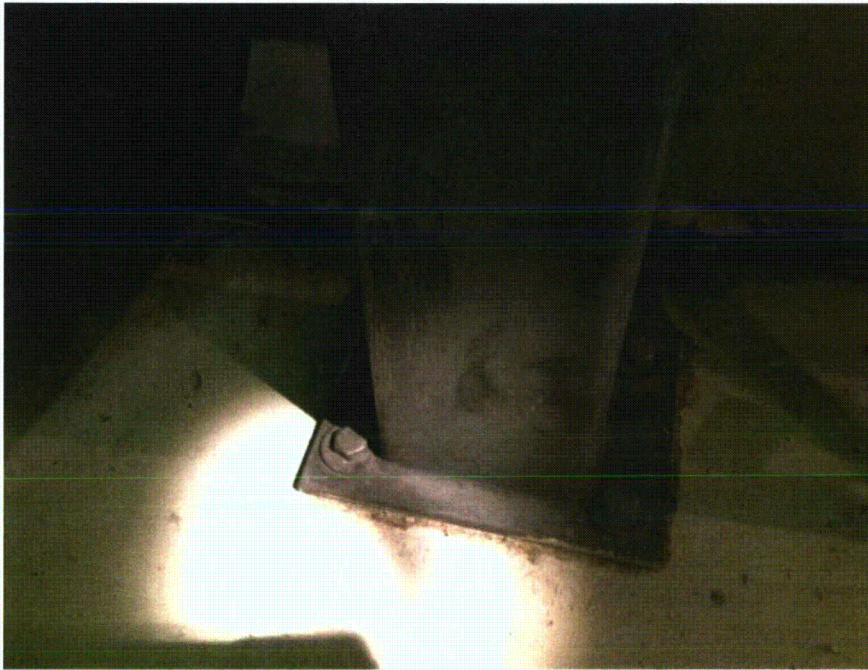
HV5314 General
General view of component

Status Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No. HV5314 Equip. Class 0. Other

Equipment Description MOTOR-OPERATED DAMPER HV 5314



HV5314 anchorage
View of anchorage

Status: **Y** N U

Seismic Walkdown Checklist (SWC)

Equipment ID No. IA-636 Equip. Class 7. Pneumatic-Operated Valves

Equipment Description IA PCV FOR MU66A

Location: Bldg. AUXB Floor El. 565 Room 208

Manufacturer, Model, Etc. _____

Instructions for Completing Checklist

This checklist may be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

Anchorage

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?

Small solenoid valve on strut channel, which is attached to concrete wall.

Y	N
<input type="checkbox"/>	<input checked="" type="checkbox"/>

2. Is the anchorage free of bent, broken, missing or loose hardware?

Y	N	U	N/A
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

3. Is the anchorage free of corrosion that is more than mild surface oxidation?

Y	N	U	N/A
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

4. Is the anchorage free of visible cracks in the concrete near the anchors?

Y	N	U	N/A
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

5. Is the anchorage configuration consistent with plant documentation?
(Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)

Y	N	U	N/A
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?

Y	N	U
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Status **Y** N U

Seismic Walkdown Checklist (SWC)

Equipment ID No. IA-636 Equip. Class 7. Pneumatic-Operated Valves

Equipment Description IA PCV FOR MU66A

Interaction Effects

7. Are soft targets free from impact by nearby equipment or structures?

Y	N	U	N/A
X			

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?

Y	N	U	N/A
X			

9. Do attached lines have adequate flexibility to avoid damage?

Attached lines were found with adequate flexibility.

Y	N	U	N/A
X			

10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?

Y	N	U
X		

Other Adverse Conditions


11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment?

Y	N	U
X		

Comments (Additional pages may be added as necessary)

Evaluated by:


Eddie M. Guerra Date: 7/25/2012


Adam L. Helffrich Date: 7/25/2012

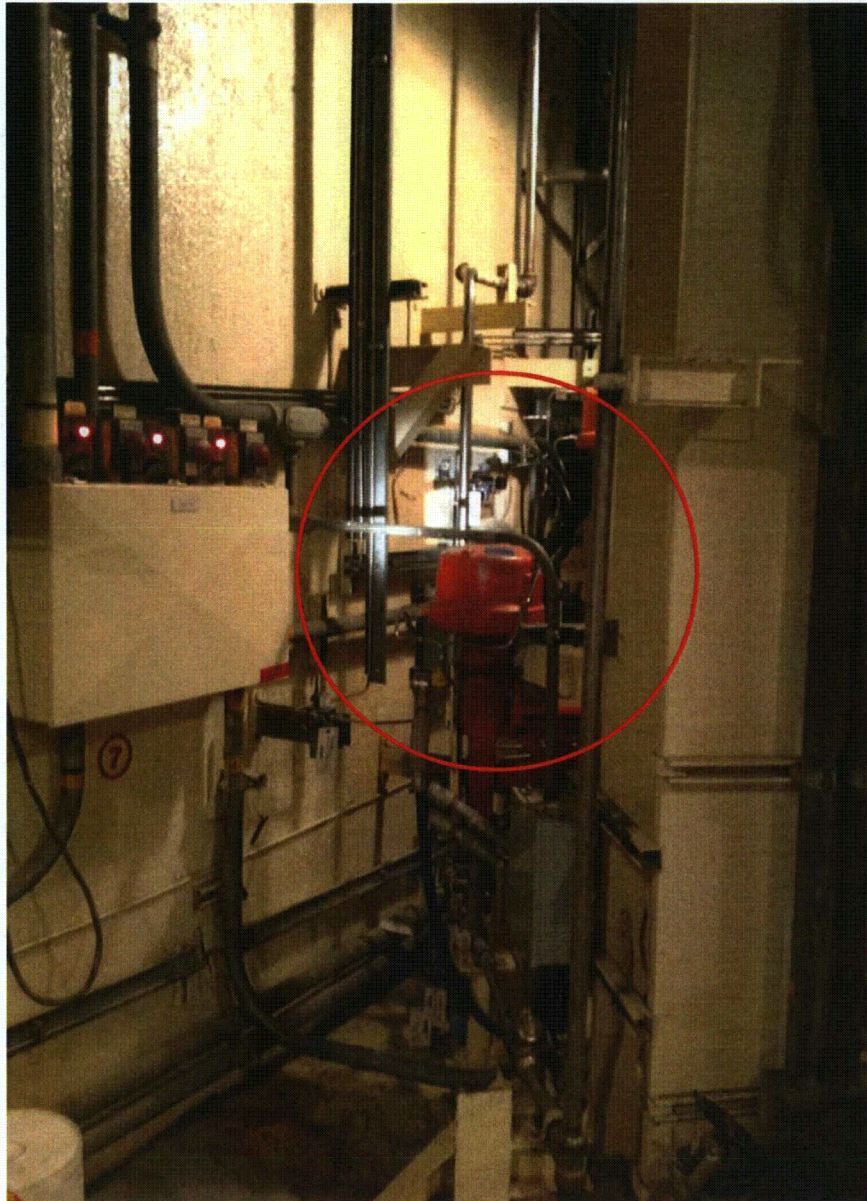
Status Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No. IA-636 Equip. Class 7. Pneumatic-Operated Valves

Equipment Description IA PCV FOR MU66A

Other supporting or relevant documents and photos (if any):



IA-636 Plate and General
General view of component

Status: **Y** N U

Seismic Walkdown Checklist (SWC)

Equipment ID No. ICS11A Equip. Class 7. Pneumatic-Operated Valves

Equipment Description ICS11A Atmosphere vent valve

Location: Bldg. AUXB Floor El. 643 Room 602

Manufacturer, Model, Etc. _____

Instructions for Completing Checklist

This checklist may be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

Anchorage

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?

Top and bottom of valve found to be restrained. No degraded condition found.

Y	N
X	X

2. Is the anchorage free of bent, broken, missing or loose hardware?

Y	N	U	N/A
X			

3. Is the anchorage free of corrosion that is more than mild surface oxidation?

Y	N	U	N/A
X			

4. Is the anchorage free of visible cracks in the concrete near the anchors?

Y	N	U	N/A
X			

5. Is the anchorage configuration consistent with plant documentation?

(Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)

Y	N	U	N/A
			X

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?

Y	N	U
X		

Status **Y** N U

Seismic Walkdown Checklist (SWC)

Equipment ID No. ICS11A Equip. Class 7. Pneumatic-Operated Valves

Equipment Description ICS11A Atmosphere vent valve

Interaction Effects

7. Are soft targets free from impact by nearby equipment or structures?

Y	N	U	N/A
X			

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?

Y	N	U	N/A
X			

9. Do attached lines have adequate flexibility to avoid damage?

Flexible lines found with adequate flexibility.

Y	N	U	N/A
X			

10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?


Y	N	U
X		


Other Adverse Conditions

11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment?

Y	N	U
X		

Comments (Additional pages may be added as necessary)

Evaluated by:  Date: 7/25/2012
Eddie M. Guerra

 Date: 7/25/2012
Adam L. Helffrich

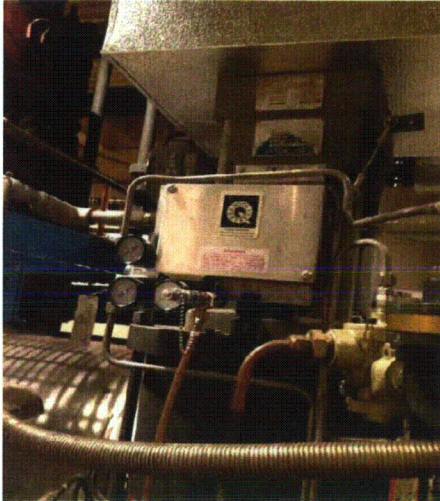
Status Y N U

Seismic Walkdown Checklist (SWC)

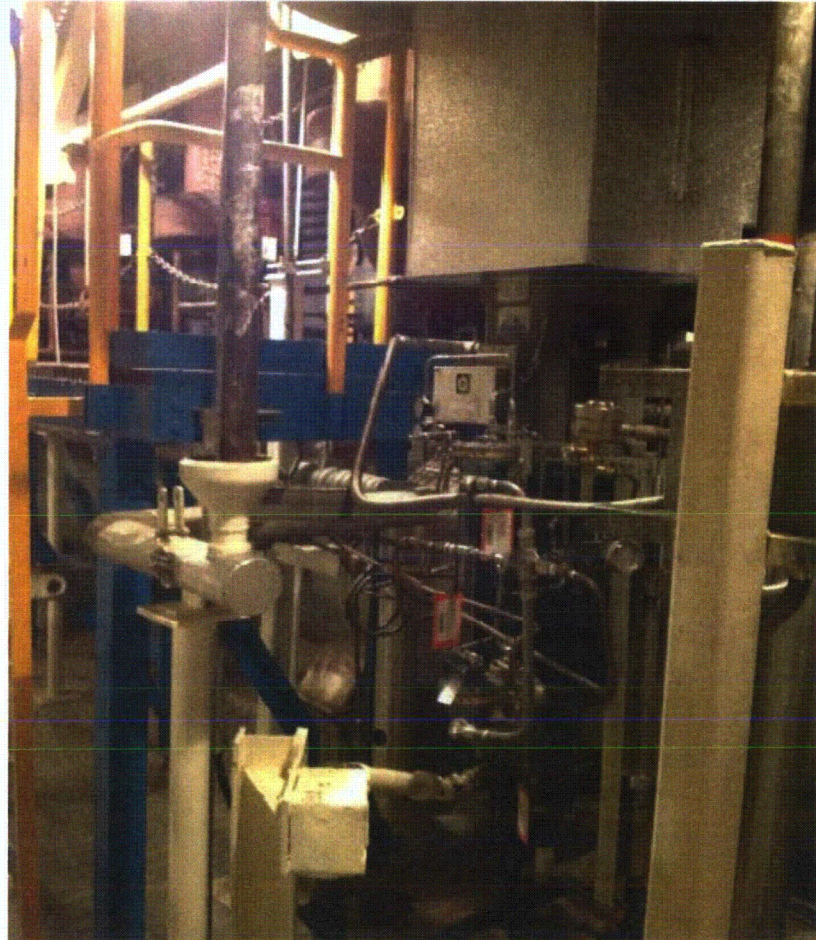
Equipment ID No. ICS11A Equip. Class 7. Pneumatic-Operated Valves

Equipment Description ICS11A Atmosphere vent valve

Other supporting or relevant documents and photos (if any):



ICS11A Plate
ID Plate of component



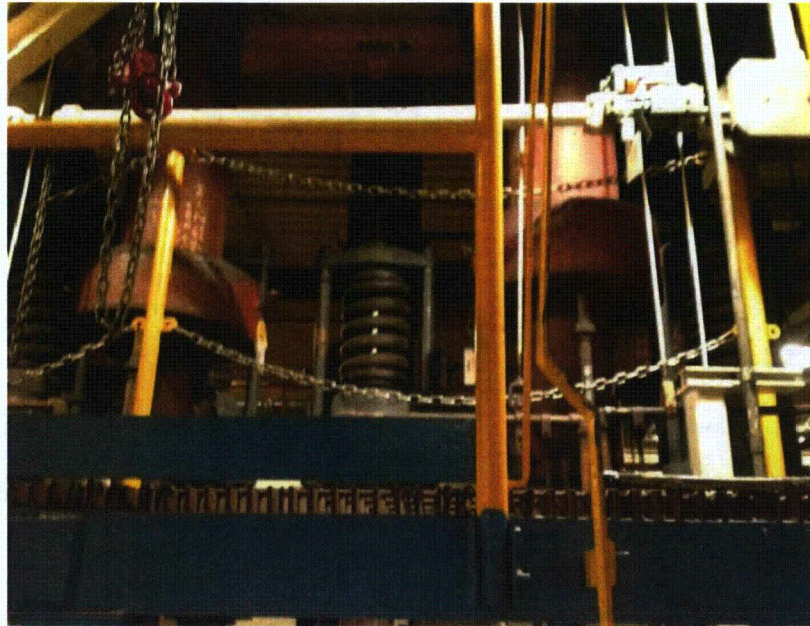
ICS11A General
General view of component

Status Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No. ICS11A Equip. Class 7. Pneumatic-Operated Valves

Equipment Description ICS11A Atmosphere vent valve



ICS11A brace2
Brace support for component



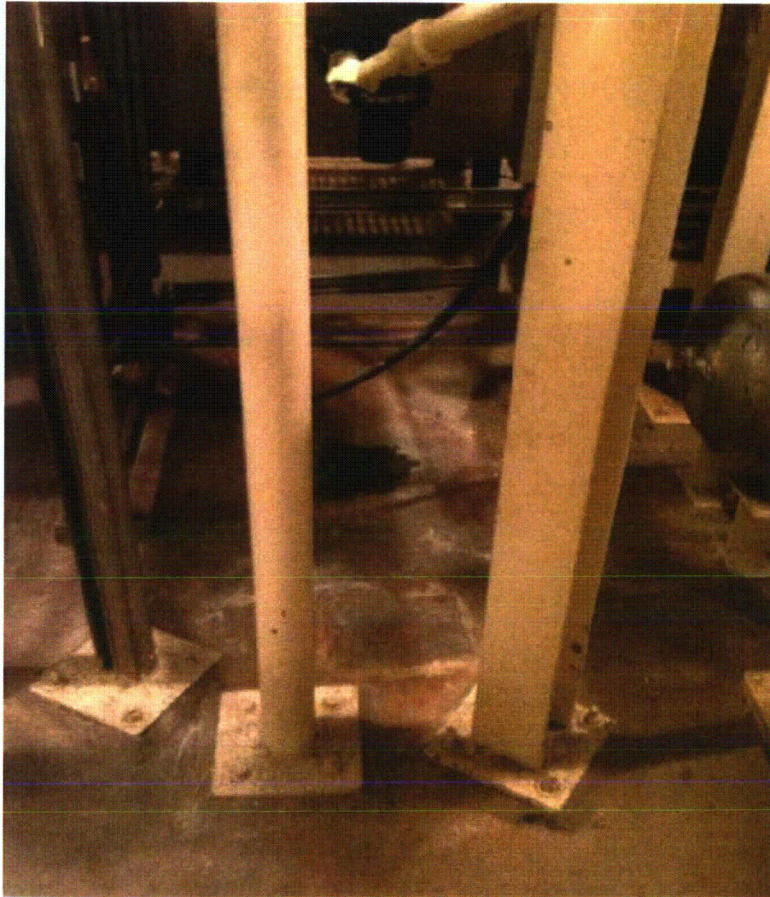
ICS11A brace
Brace support for component

Status **Y** N U

Seismic Walkdown Checklist (SWC)

Equipment ID No. ICS11A Equip. Class 7. Pneumatic-Operated Valves

Equipment Description ICS11A Atmosphere vent valve



ICS11A anchor
View of anchorage

Status **Y** N U

Seismic Walkdown Checklist (SWC)

Equipment ID No. K5-1 Equip. Class 17. Engine Generators

Equipment Description Diesel Generator

Location: Bldg. AUXB Floor El. 585 Room 318

Manufacturer, Model, Etc. _____

Instructions for Completing Checklist

This checklist may be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

Anchorage

- | | | | | |
|---|---|---|--|--|
| | Y | N | | |
| 1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? | X | | | |
-
- | | | | | |
|---|---|---|---|-----|
| | Y | N | U | N/A |
| 2. Is the anchorage free of bent, broken, missing or loose hardware?
<i>Equipment found to be stitch welded to base.</i> | X | | | |
-
- | | | | | |
|---|---|---|---|-----|
| | Y | N | U | N/A |
| 3. Is the anchorage free of corrosion that is more than mild surface oxidation? | X | | | |
-
- | | | | | |
|--|---|---|---|-----|
| | Y | N | U | N/A |
| 4. Is the anchorage free of visible cracks in the concrete near the anchors? | X | | | |
-
- | | | | | |
|---|---|---|---|-----|
| | Y | N | U | N/A |
| 5. Is the anchorage configuration consistent with plant documentation?
(Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)
<i>Anchorage detail found to be consistent with the presented in SQUG calc C-CSS-K5-1. 16 - 1 1/4" cast-in place bolts spaced around 5ft each.</i> | X | | | |
-
- | | | | | |
|---|---|---|---|--|
| | Y | N | U | |
| 6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? | X | | | |

Status **Y** N U

Seismic Walkdown Checklist (SWC)

Equipment ID No. K5-1 Equip. Class 17. Engine Generators

Equipment Description Diesel Generator

Interaction Effects

7. Are soft targets free from impact by nearby equipment or structures?

Y	N	U	N/A
X			

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?

Seismic capacity of block walls in the area verified.

Associated block walls identified as: 308D, 309D, 310D, 311D, 338D

See Appendix C from report for references. Identified as seismically adequate.

Y	N	U	N/A
X			

9. Do attached lines have adequate flexibility to avoid damage?

Y	N	U	N/A
X			

10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?


Y	N	U
X		


Other Adverse Conditions

11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment?

Y	N	U
X		

Comments (Additional pages may be added as necessary)

Evaluated by:  Date: 7/25/2012
Eddie M. Guerra

 Date: 7/25/2012
Adam L. Helffrich

Status: **Y** N U

Seismic Walkdown Checklist (SWC)

Equipment ID No. K5-2 Equip. Class 17. Engine Generators

Equipment Description Diesel Generator

Location: Bldg. AUXB Floor El. 585 Room 319

Manufacturer, Model, Etc. _____

Instructions for Completing Checklist

This checklist may be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

Anchorage

- | | | | | |
|---|---|---|--|--|
| | Y | N | | |
| 1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? | X | | | |
-
- | | | | | |
|---|---|---|---|-----|
| | Y | N | U | N/A |
| 2. Is the anchorage free of bent, broken, missing or loose hardware?
<i>Equipment found to be stitch welded to base.</i> | X | | | |
-
- | | | | | |
|---|---|---|---|-----|
| | Y | N | U | N/A |
| 3. Is the anchorage free of corrosion that is more than mild surface oxidation? | X | | | |
-
- | | | | | |
|--|---|---|---|-----|
| | Y | N | U | N/A |
| 4. Is the anchorage free of visible cracks in the concrete near the anchors? | X | | | |
-
- | | | | | |
|---|---|---|---|-----|
| | Y | N | U | N/A |
| 5. Is the anchorage configuration consistent with plant documentation?
(Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)
<i>Anchorage detail found to be consistent with the presented in SQUG calc C-CSS-K5-2. 16 - 1 1/4" cast-in place bolts spaced around 5ft each.</i> | X | | | |
-
- | | | | | |
|---|---|---|---|--|
| | Y | N | U | |
| 6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? | X | | | |

Status **Y** N U

Seismic Walkdown Checklist (SWC)

Equipment ID No. K5-2 Equip. Class 17. Engine Generators

Equipment Description Diesel Generator

Interaction Effects

7. Are soft targets free from impact by nearby equipment or structures?

Y	N	U	N/A
X			

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?

Seismic capacity of block walls in the area verified.

Block wall 304D verified to be to be seismically adequate based on ref. VBW12-B001-064, Rev 8 (8/26/87).

Y	N	U	N/A
X			

9. Do attached lines have adequate flexibility to avoid damage?

Y	N	U	N/A
X			

10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?

Y	N	U
X		

Other Adverse Conditions


11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment?

Y	N	U
X		

Comments (Additional pages may be added as necessary)

Evaluated by:


Eddie M. Guerra Date: 7/25/2012


Adam L. Helffrich Date: 7/25/2012

Status Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No. K5-2 Equip. Class 17. Engine Generators

Equipment Description Diesel Generator

Other supporting or relevant documents and photos (if any):



K5-2 plate
ID Plate of component



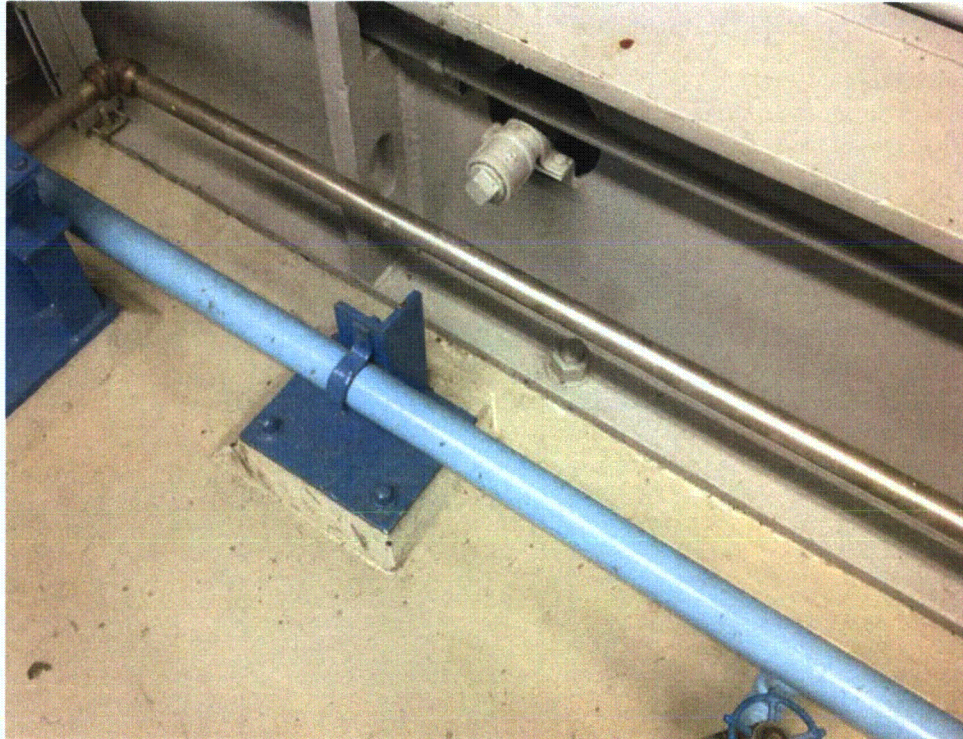
K5-2 general
General view of component

Status Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No. K5-2 Equip. Class 17. Engine Generators

Equipment Description Diesel Generator



K5-2 anchor bolt
Partial view of anchorage, view is typical of all anchors

Status: **Y** N U

Seismic Walkdown Checklist (SWC)

Equipment ID No. L311 Equip. Class 20a. Inst. in control panel/cabinet

Equipment Description LOGIC CHANNEL 1 MODULE L311

Location: Bldg. AUXB Floor El. 623 Room 502

Manufacturer, Model, Etc. _____

Instructions for Completing Checklist

This checklist may be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

Anchorage

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?

Y	N
	X

Inside of panel C5762C. While anchorage of the panel is external to the panel, they are covered by a trip protection covering that could not be removed. Anchorage condition based on SQUG calc C-CSS-C5762C.

2. Is the anchorage free of bent, broken, missing or loose hardware?

Y	N	U	N/A
X			

3. Is the anchorage free of corrosion that is more than mild surface oxidation?

Y	N	U	N/A
X			

4. Is the anchorage free of visible cracks in the concrete near the anchors?

Y	N	U	N/A
X			

5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)

Y	N	U	N/A
			X

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?

Y	N	U
X		

C-CSS-C5762C calculations indicate that MOD95-0032 resolves anchorage concerns and cabinet bolting issues. It was verified that the adjacent panels are connected at the top. Anchorage adequacy deemed seismically adequate. Based on good condition of panel and SQUG SEWS, anchorage is judged to be in adequate condition.

Status **Y** N U

Seismic Walkdown Checklist (SWC)

Equipment ID No. L311 Equip. Class 20a. Inst. in control panel/cabinet

Equipment Description LOGIC CHANNEL 1 MODULE L311

Interaction Effects

7. Are soft targets free from impact by nearby equipment or structures?

Y	N	U	N/A
X			

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?

Y	N	U	N/A
X			

9. Do attached lines have adequate flexibility to avoid damage?

Y	N	U	N/A
X			

10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?

Y	N	U
X		

Other Adverse Conditions


11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment?

Y	N	U
X		

Comments (Additional pages may be added as necessary)

Evaluated by:


Eddie M. Guerra Date: 7/25/2012


Adam L. Helffrich Date: 7/25/2012

Status **Y** N U

Seismic Walkdown Checklist (SWC)

Equipment ID No. L311 Equip. Class 20a. Inst. in control panel/cabinet

Equipment Description LOGIC CHANNEL 1 MODULE L311

Other supporting or relevant documents and photos (if any):



L311
General view of component

Status **Y** N U

Seismic Walkdown Checklist (SWC)

Equipment ID No. L311 Equip. Class 20a. Inst. in control panel/cabinet

Equipment Description LOGIC CHANNEL 1 MODULE L311



L311-511 cabinet
General View of Cabinet housing components



L311-511 cabinets bolted together inbetween
Cabinets are bolted together in the middle

Status Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No. L311 Equip. Class 20a. Inst. in control panel/cabinet

Equipment Description LOGIC CHANNEL 1 MODULE L311



L311-511 cabinets welded together on left
Cabinets are welded together on the left side



L311-511 cabinets welded together on right
Cabinets are welded together on the right side

Status: **Y** N U

Seismic Walkdown Checklist (SWC)

Equipment ID No. L511 Equip. Class 20a. Inst. in control panel/cabinet

Equipment Description LOGIC CHANNEL 1 MODULE L511

Location: Bldg. AUXB Floor El. 623 Room 502

Manufacturer, Model, Etc. _____

Instructions for Completing Checklist

This checklist may be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

Anchorage

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?

Y	N
	X

Inside of panel C5762C. While anchorage of the panel is external to the panel, they are covered by a trip protection covering that could not be removed. Anchorage condition based on SQUG calc C-CSS-C5762C.

2. Is the anchorage free of bent, broken, missing or loose hardware?

Y	N	U	N/A
X			

3. Is the anchorage free of corrosion that is more than mild surface oxidation?

Y	N	U	N/A
X			

4. Is the anchorage free of visible cracks in the concrete near the anchors?

Y	N	U	N/A
X			

5. Is the anchorage configuration consistent with plant documentation?

(Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)

Y	N	U	N/A
			X

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?

Y	N	U
X		

C-CSS-C5762C calculations indicate that MOD95-0032 resolves anchorage concerns and cabinet bolting issues. It was verified that the adjacent panels are connected at the top. Anchorage adequacy deemed seismically adequate. Based on good condition of panel and SQUG SEWS, anchorage is judged to be in adequate condition.

Status **Y** N U

Seismic Walkdown Checklist (SWC)

Equipment ID No. L511 Equip. Class 20a. Inst. in control panel/cabinet

Equipment Description LOGIC CHANNEL 1 MODULE L511

Interaction Effects

7. Are soft targets free from impact by nearby equipment or structures?

Y	N	U	N/A
X			

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?

Y	N	U	N/A
X			

9. Do attached lines have adequate flexibility to avoid damage?

Y	N	U	N/A
X			

10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?

Y	N	U
X		


Other Adverse Conditions

11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment?

Y	N	U
X		

Comments (Additional pages may be added as necessary)

Evaluated by:


Eddie M. Guerra Date: 7/25/2012


Adam L. Helffrich Date: 7/25/2012

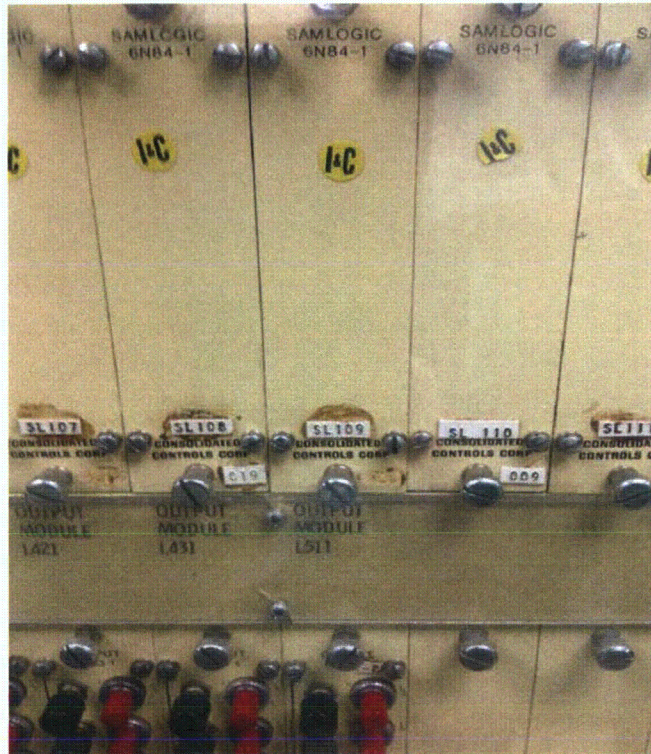
Status Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No. L511 Equip. Class 20a. Inst. in control panel/cabinet

Equipment Description LOGIC CHANNEL 1 MODULE L511

Other supporting or relevant documents and photos (if any):



L511
General view of component

Status Y N U

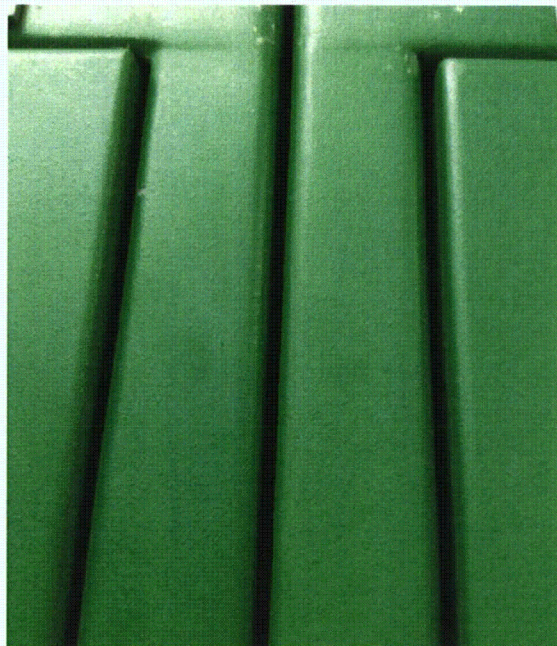
Seismic Walkdown Checklist (SWC)

Equipment ID No. L511 Equip. Class 20a. Inst. in control panel/cabinet

Equipment Description LOGIC CHANNEL 1 MODULE L511



L311-511 cabinet
General View of Cabinet housing components



L311-511 cabinets bolted together inbetween
Cabinets are bolted together in the middle

Status **Y** N U

Seismic Walkdown Checklist (SWC)

Equipment ID No. L511 Equip. Class 20a. Inst. in control panel/cabinet

Equipment Description LOGIC CHANNEL 1 MODULE L511



L311-511 cabinets welded together on left
Cabinets are welded together on the left side



L311-511 cabinets welded together on right
Cabinets are welded together on the right side

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No. LI-1525A Equip. Class 20. Instrument and Control Panels

Equipment Description BWST LEVEL INDICATOR INSIDE PNL C5716

Location: Bldg. AUXB Floor El. 623 Room 502

Manufacturer, Model, Etc. _____

Instructions for Completing Checklist

This checklist may be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

Anchorage

- | | | | | | | | | | |
|---|--|---|-----|---|-----|---|--|--|---|
| <p>1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?
<i>Anchorage could not be verified due to mastic covering bottom of panel.</i></p> | <table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <td style="padding: 2px;">Y</td> <td style="padding: 2px;">N</td> </tr> <tr> <td style="padding: 2px; text-align: center;"> </td> <td style="padding: 2px; text-align: center;">X</td> </tr> </table> | Y | N | | X | | | | |
| Y | N | | | | | | | | |
| | X | | | | | | | | |
| <p>2. Is the anchorage free of bent, broken, missing or loose hardware?</p> | <table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <td style="padding: 2px;">Y</td> <td style="padding: 2px;">N</td> <td style="padding: 2px;">U</td> <td style="padding: 2px;">N/A</td> </tr> <tr> <td style="padding: 2px; text-align: center;">X</td> <td style="padding: 2px; text-align: center;"> </td> <td style="padding: 2px; text-align: center;"> </td> <td style="padding: 2px; text-align: center;"> </td> </tr> </table> | Y | N | U | N/A | X | | | |
| Y | N | U | N/A | | | | | | |
| X | | | | | | | | | |
| <p>3. Is the anchorage free of corrosion that is more than mild surface oxidation?</p> | <table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <td style="padding: 2px;">Y</td> <td style="padding: 2px;">N</td> <td style="padding: 2px;">U</td> <td style="padding: 2px;">N/A</td> </tr> <tr> <td style="padding: 2px; text-align: center;">X</td> <td style="padding: 2px; text-align: center;"> </td> <td style="padding: 2px; text-align: center;"> </td> <td style="padding: 2px; text-align: center;"> </td> </tr> </table> | Y | N | U | N/A | X | | | |
| Y | N | U | N/A | | | | | | |
| X | | | | | | | | | |
| <p>4. Is the anchorage free of visible cracks in the concrete near the anchors?</p> | <table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <td style="padding: 2px;">Y</td> <td style="padding: 2px;">N</td> <td style="padding: 2px;">U</td> <td style="padding: 2px;">N/A</td> </tr> <tr> <td style="padding: 2px; text-align: center;">X</td> <td style="padding: 2px; text-align: center;"> </td> <td style="padding: 2px; text-align: center;"> </td> <td style="padding: 2px; text-align: center;"> </td> </tr> </table> | Y | N | U | N/A | X | | | |
| Y | N | U | N/A | | | | | | |
| X | | | | | | | | | |
| <p>5. Is the anchorage configuration consistent with plant documentation?
(Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)</p> | <table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <td style="padding: 2px;">Y</td> <td style="padding: 2px;">N</td> <td style="padding: 2px;">U</td> <td style="padding: 2px;">N/A</td> </tr> <tr> <td style="padding: 2px; text-align: center;"> </td> <td style="padding: 2px; text-align: center;"> </td> <td style="padding: 2px; text-align: center;"> </td> <td style="padding: 2px; text-align: center;">X</td> </tr> </table> | Y | N | U | N/A | | | | X |
| Y | N | U | N/A | | | | | | |
| | | | X | | | | | | |
| <p>6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?</p> | <table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <td style="padding: 2px;">Y</td> <td style="padding: 2px;">N</td> <td style="padding: 2px;">U</td> </tr> <tr> <td style="padding: 2px; text-align: center;">X</td> <td style="padding: 2px; text-align: center;"> </td> <td style="padding: 2px; text-align: center;"> </td> </tr> </table> | Y | N | U | X | | | | |
| Y | N | U | | | | | | | |
| X | | | | | | | | | |

Status **Y** N U

Seismic Walkdown Checklist (SWC)

Equipment ID No. LI-1525A Equip. Class 20. Instrument and Control Panels

Equipment Description BWST LEVEL INDICATOR INSIDE PNL C5716

Interaction Effects

7. Are soft targets free from impact by nearby equipment or structures?

Y	N	U	N/A
X			

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?

*Seismic capacity of block walls in the area verified
Block walls in room 502 found to be seismically adequate per 80-11 documentation.
Refer to Appendix C for list of walls associated to component.*

Y	N	U	N/A
X			

9. Do attached lines have adequate flexibility to avoid damage?

Y	N	U	N/A
X			

10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?

Y	N	U
X		

Other Adverse Conditions

11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment?

Y	N	U
X		

Comments (Additional pages may be added as necessary)

Evaluated by:

 Date: 7/25/2012
Eddie M. Guerra

 Date: 7/25/2012
Adam L. Helffrich

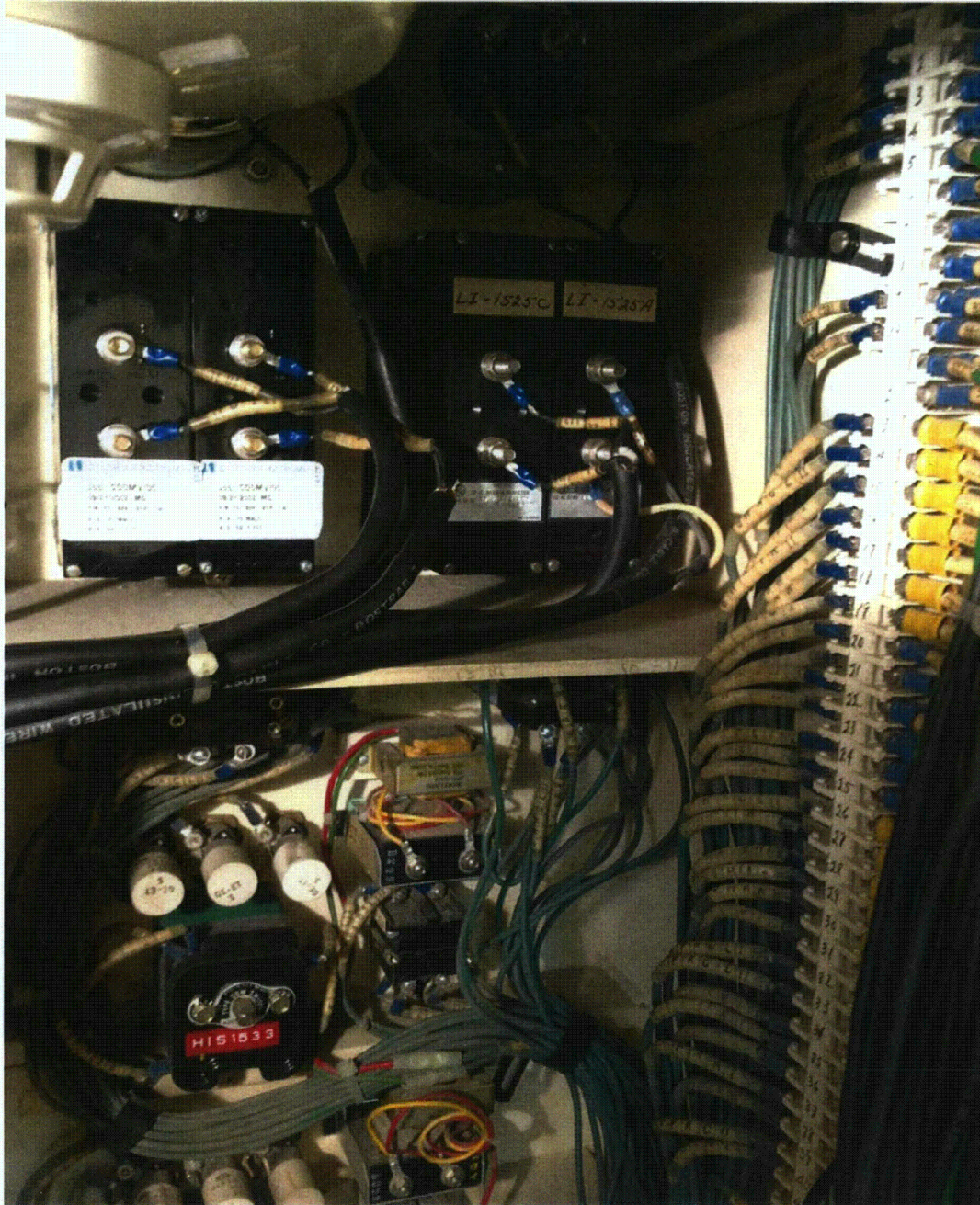
Status Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No. LI-1525A Equip. Class 20. Instrument and Control Panels

Equipment Description BWST LEVEL INDICATOR INSIDE PNL C5716

Other supporting or relevant documents and photos (if any):



LI1525A Plate and General
Overall view of component and anchorage