
SEISMIC WALKDOWN CHECKLIST FORM

Sheet 1 of 5

Status: Y N U

Seismic Walkdown Checklist (SWC) SWC- 57

Equipment ID No. PI-2855-1 Equip. Class¹ 18, INSTRUMENT RACKS

Equipment Description RAW WATER PUMP AC-10B DISCHARGE PRESSURE INDICATOR

Location: Bldg. INTAKE Floor El. 998' Room, Area INTAKE, 16W'BB-10N'103

Manufacturer, Model, Etc. (optional but recommended) _____

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

2. Is the anchorage free of bent, broken, missing or loose hardware? Y N U N/A

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

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

¹ Enter the equipment class name from Appendix B: Classes of Equipment.

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 2 of 5

Status: Y N U

Seismic Walkdown Checklist (SWC) SWC- 57

Equipment ID No. PI-2855-1 Equip. Class² 18, INSTRUMENT RACKS

Equipment Description RAW WATER PUMP AC-10B DISCHARGE PRESSURE INDICATOR

5. Is the anchorage configuration consistent with plant documentation? Y N U N/A
(Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)
Needs plant documentation. See sketch in photo section below. Licensing Basis Evaluation is required.
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y N U

Interaction Effects

7. Are soft targets free from impact by nearby equipment or structures? Y N U N/A
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
Light bulbs that could break and fall could have impact on indicator gauge. CR 2012-10629 has been initiated.
9. Do attached lines have adequate flexibility to avoid damage? Y N U N/A
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y N U

² Enter the equipment class name from Appendix B: Classes of Equipment.

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 3 of 5

Status: Y N U

Seismic Walkdown Checklist (SWC) SWC- 57

Equipment ID No. PI-2855-1 Equip. Class³ 18. INSTRUMENT RACKS

Equipment Description RAW WATER PUMP AC-10B DISCHARGE PRESSURE INDICATOR

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

Comments (Additional pages may be added as necessary)

Evaluated by: Alex Smerch *Alex Smerch* Date: 8/17/12

John Kao *John Kao* 8/17/12

³ Enter the equipment class name from Appendix B: Classes of Equipment.

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 4 of 5

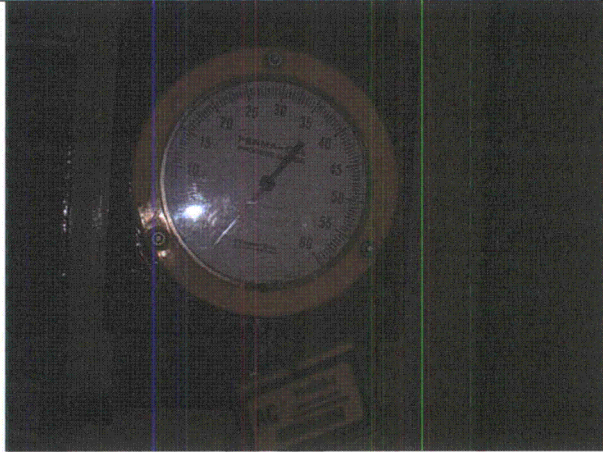
Status: Y N U

Seismic Walkdown Checklist (SWC) SWC- 57

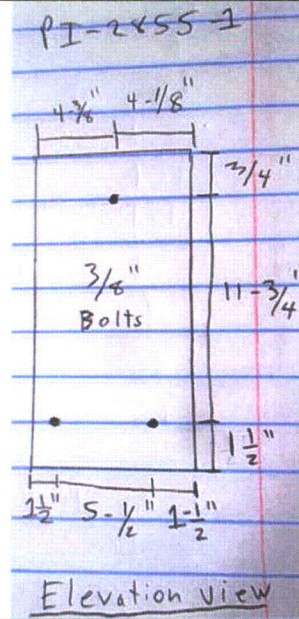
Equipment ID No. PI-2855-1 Equip. Class⁴ 18. INSTRUMENT RACKS

Equipment Description RAW WATER PUMP AC-10B DISCHARGE PRESSURE INDICATOR

Photographs



Note: Equipment.



Note: Anchor bolt sketch.

⁴ Enter the equipment class name from Appendix B: Classes of Equipment.

SEISMIC WALKDOWN CHECKLIST FORM

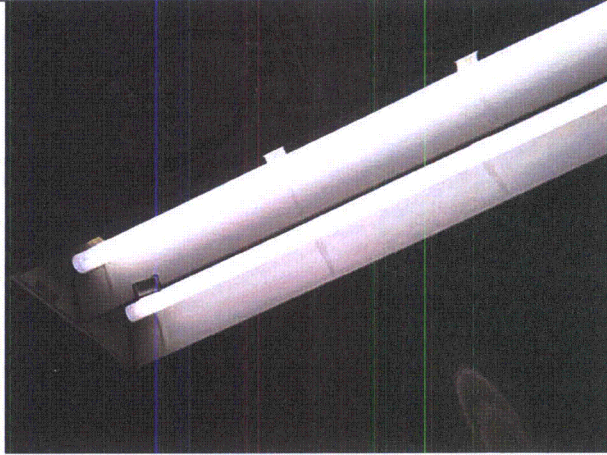
Sheet 5 of 5

Status: Y N U

Seismic Walkdown Checklist (SWC) SWC- 57

Equipment ID No. PI-2855-1 Equip. Class⁵ 18, INSTRUMENT RACKS

Equipment Description RAW WATER PUMP AC-10B DISCHARGE PRESSURE INDICATOR



Note: *Light fixture's bulbs that could impact indicator.*

Note:

⁵ Enter the equipment class name from Appendix B: Classes of Equipment.

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 1 of 5

Status: Y N U

Seismic Walkdown Checklist (SWC) SWC- 58

Equipment ID No. NI-001-DA1 Equip. Class¹ 20, INSTRUMENTATION AND CONTROL PANELS

Equipment Description INSTRUMENT MODULE FOR NUETRON FLUX MONITORING

Location: Bldg. AUX Floor El. 1013' Room, Area 57, AI-212

Manufacturer, Model, Etc. (optional but recommended) _____

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

2. Is the anchorage free of bent, broken, missing or loose hardware? Y N U N/A

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

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

¹ Enter the equipment class name from Appendix B: Classes of Equipment.

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 2 of 5

Status: Y N U

Seismic Walkdown Checklist (SWC) SWC- 58

Equipment ID No. NI-001-DA1 Equip. Class² 20, INSTRUMENTATION AND CONTROL
PANELS

Equipment Description INSTRUMENT MODULE FOR NUETRON FLUX MONITORING

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
*Needs plant documentation to verify. See sketch in photos section.
Licensing Basis Evaluation is required.*
6. Based on the above anchorage evaluations, is the anchorage free of
potentially adverse seismic conditions? Y N U
-

Interaction Effects

7. Are soft targets free from impact by nearby equipment or structures? Y N U N/A
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
9. Do attached lines have adequate flexibility to avoid damage? Y N U N/A
10. Based on the above seismic interaction evaluations, is equipment free
of potentially adverse seismic interaction effects? Y N U

² Enter the equipment class name from Appendix B: Classes of Equipment.

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 3 of 5

Status: Y N U

Seismic Walkdown Checklist (SWC) SWC- 58

Equipment ID No. NI-001-DA1 Equip. Class³ 20, INSTRUMENTATION AND CONTROL
PANELS

Equipment Description INSTRUMENT MODULE FOR NUETRON FLUX MONITORING

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

Comments (Additional pages may be added as necessary)

Evaluated by: Alex Smerch *Alex Smerch* Date: 8/16/12
John Kao *John Kao* 8/16/12

³ Enter the equipment class name from Appendix B: Classes of Equipment.

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 4 of 5

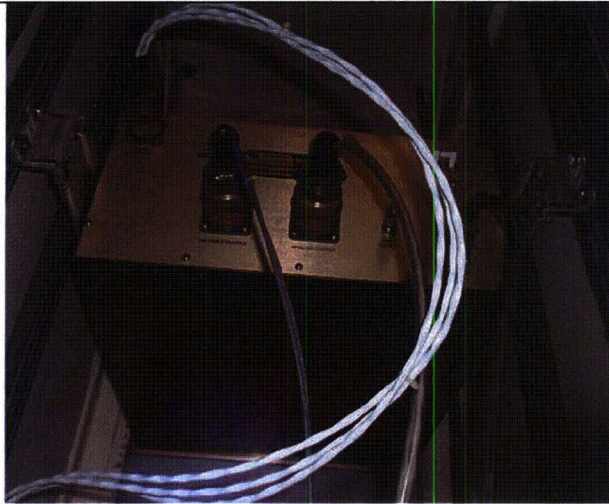
Status: Y N U

Seismic Walkdown Checklist (SWC) SWC- 58

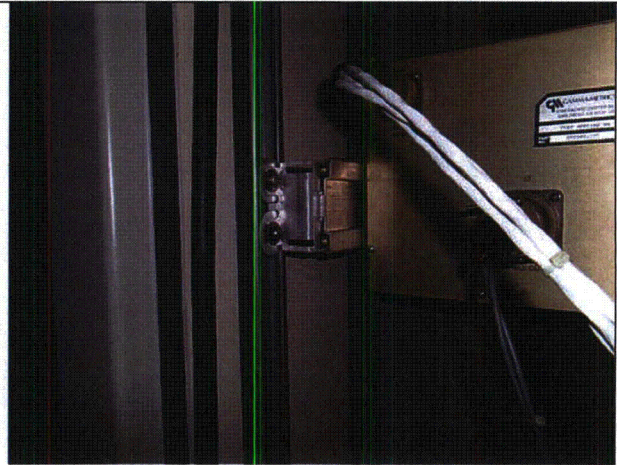
Equipment ID No. NI-001-DA1 Equip. Class⁴ 20, INSTRUMENTATION AND CONTROL PANELS

Equipment Description INSTRUMENT MODULE FOR NUETRON FLUX MONITORING

Photographs



Note: *Bottom view of Equipment*



Note: *Side view of equipment mounting bracket*

⁴ Enter the equipment class name from Appendix B: Classes of Equipment.

SEISMIC WALKDOWN CHECKLIST FORM

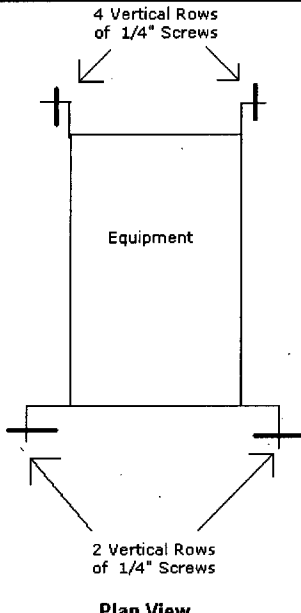
Sheet 5 of 5

Status: Y N U

Seismic Walkdown Checklist (SWC) SWC- 58

Equipment ID No. NI-001-DA1 Equip. Class⁵ 20, INSTRUMENTATION AND CONTROL PANELS

Equipment Description INSTRUMENT MODULE FOR NUETRON FLUX MONITORING

 <p>4 Vertical Rows of 1/4" Screws</p> <p>Equipment</p> <p>2 Vertical Rows of 1/4" Screws</p> <p>Plan View</p>	
<p>Note: <i>Plan sketch of equipment and mounting brackets showing mounting screws.</i></p>	<p>Note:</p>

⁵ Enter the equipment class name from Appendix B: Classes of Equipment.

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 1 of 4

Status: Y N U

Seismic Walkdown Checklist (SWC) SWC- 59

Equipment ID No. AC-1A Equip. Class¹ 21, TANKS AND HEAT EXCHANGERS

Equipment Description COMPONENT COOLING HEAT EXCHANGER

Location: Bldg. AUX Floor El. 994' Room, Area 4, 6W'D-18N'5B

Manufacturer, Model, Etc. (optional but recommended) _____

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

2. Is the anchorage free of bent, broken, missing or loose hardware? Y N U N/A

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

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

¹ Enter the equipment class name from Appendix B: Classes of Equipment.

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 2 of 4

Status: Y N U

Seismic Walkdown Checklist (SWC) SWC- 59

Equipment ID No. AC-1A Equip. Class² 21, TANKS AND HEAT EXCHANGERS

Equipment Description COMPONENT COOLING HEAT EXCHANGER

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
*The anchorage configuration is consistent with drawing 11405-S-70,
Rev. 7 (File# 16455) and L-26132-1, Rev. 9 (File# 18674).*
6. Based on the above anchorage evaluations, is the anchorage free of
potentially adverse seismic conditions? Y N U
-

Interaction Effects

7. Are soft targets free from impact by nearby equipment or structures?
Large heat exchanger not soft target. Y N U N/A
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
9. Do attached lines have adequate flexibility to avoid damage? Y N U N/A
10. Based on the above seismic interaction evaluations, is equipment free
of potentially adverse seismic interaction effects? Y N U

² Enter the equipment class name from Appendix B: Classes of Equipment.

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 3 of 4

Status: Y N U

Seismic Walkdown Checklist (SWC) SWC- 59

Equipment ID No. AC-1A Equip. Class³ 21, TANKS AND HEAT EXCHANGERS

Equipment Description COMPONENT COOLING HEAT EXCHANGER

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

Comments (Additional pages may be added as necessary)

Evaluated by: John Kao *John Kao* Date: 8/20/2012

Alex Smerch *Alex Smerch* 8/20/2012

³ Enter the equipment class name from Appendix B: Classes of Equipment.

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 4 of 4

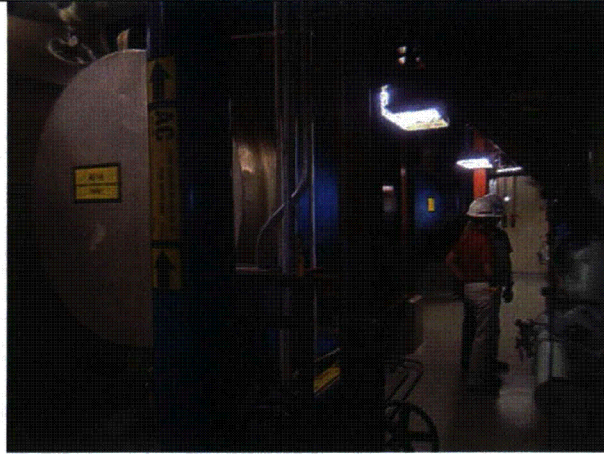
Status: Y N U

Seismic Walkdown Checklist (SWC) SWC- 59

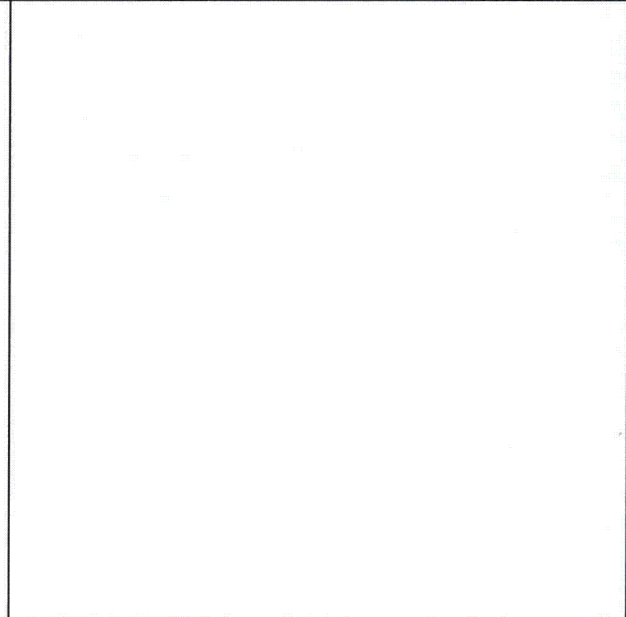
Equipment ID No. AC-1A Equip. Class⁴ 21, TANKS AND HEAT EXCHANGERS

Equipment Description COMPONENT COOLING HEAT EXCHANGER

Photographs



Note: *Equipment (large heat exchanger).*



Note:

⁴ Enter the equipment class name from Appendix B: Classes of Equipment.

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 1 of 5

Status: Y N U

Seismic Walkdown Checklist (SWC) SWC- 60

Equipment ID No. AC-4B Equip. Class¹ 21, TANKS AND HEAT EXCHANGERS

Equipment Description SHUTDOWN COOLING HEATER EXCHANGER

Location: Bldg. AUX Floor El. 994' Room, Area 15, 13WE-17S7A

Manufacturer, Model, Etc. (optional but recommended) _____

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

2. Is the anchorage free of bent, broken, missing or loose hardware? Y N U N/A
The concrete beneath the anchor bolts has been removed and the anchor bolts have possibly been cut as well. CR 2012-11039 has been initiated.

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

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y N U N/A
Large pieces of concrete have been removed on all 4 corners of the heat exchanger negating their mechanical anchorage capabilities. CR 2012-11039 has been initiated.

¹ Enter the equipment class name from Appendix B: Classes of Equipment.

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 2 of 5

Status: Y N U

Seismic Walkdown Checklist (SWC) SWC- 60

Equipment ID No. AC-4B Equip. Class² 21, TANKS AND HEAT EXCHANGERS

Equipment Description SHUTDOWN COOLING HEATER EXCHANGER

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
*The drawing used for anchorage configuration is 11405-S-70, Rev. 7
(File# 16455) and L-26133, Rev. 2 (File# 18676). There are added
welded supports shown in picture below that differ from plant
configuration drawings. Licensing Basis Evaluation is required.*
6. Based on the above anchorage evaluations, is the anchorage free of
potentially adverse seismic conditions? Y N U
-

Interaction Effects

7. Are soft targets free from impact by nearby equipment or structures?
Not a soft target Y N U N/A
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
9. Do attached lines have adequate flexibility to avoid damage? Y N U N/A
10. Based on the above seismic interaction evaluations, is equipment free
of potentially adverse seismic interaction effects? Y N U

² Enter the equipment class name from Appendix B: Classes of Equipment.

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 3 of 5

Status: Y N U

Seismic Walkdown Checklist (SWC) SWC- 60

Equipment ID No. AC-4B Equip. Class³ 21, TANKS AND HEAT EXCHANGERS

Equipment Description SHUTDOWN COOLING HEATER EXCHANGER

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

Comments (Additional pages may be added as necessary)

Evaluated by: John Kao Date: 8/21/12

Alex Smerch 8/21/12

³ Enter the equipment class name from Appendix B: Classes of Equipment.

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 4 of 5

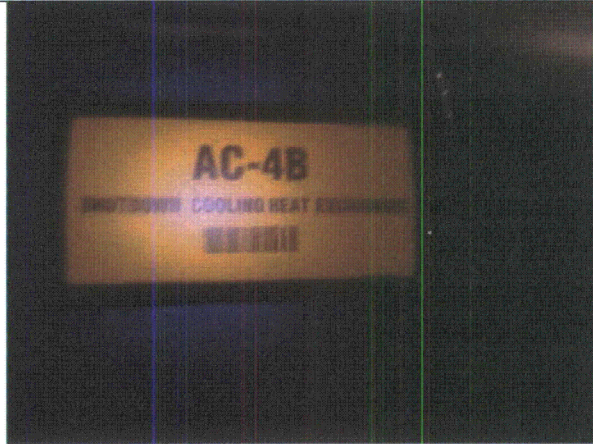
Status: Y N U

Seismic Walkdown Checklist (SWC) SWC- 60

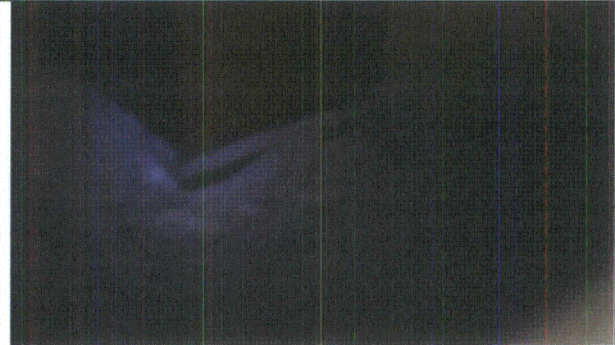
Equipment ID No. AC-4B Equip. Class⁴ 21, TANKS AND HEAT EXCHANGERS

Equipment Description SHUTDOWN COOLING HEATER EXCHANGER

Photographs



Note: Degraded concrete and either missing or short bolts.



Note: Degraded concrete and either missing or short bolts.

⁴ Enter the equipment class name from Appendix B: Classes of Equipment.

SEISMIC WALKDOWN CHECKLIST FORM

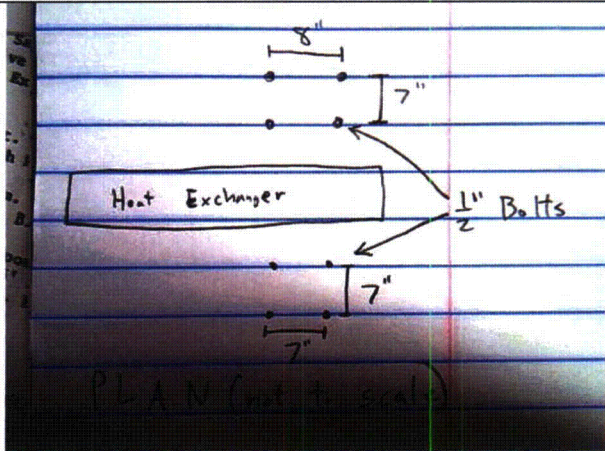
Sheet 5 of 5

Status: Y N U

Seismic Walkdown Checklist (SWC) SWC- 60

Equipment ID No. AC-4B Equip. Class⁵ 21, TANKS AND HEAT EXCHANGERS

Equipment Description SHUTDOWN COOLING HEATER EXCHANGER



Note: Heat Exchanger support modification bolt mounting. (Additional to what is shown in original vendor documentation.)

Note:

⁵ Enter the equipment class name from Appendix B: Classes of Equipment.

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 1 of 4

Status: Y N U

Seismic Walkdown Checklist (SWC) SWC- 61

Equipment ID No. AC-8 Equip. Class¹ 21, TANKS AND HEAT EXCHANGERS

Equipment Description SPENT FUEL POOL HEAT EXCHANGER

Location: Bldg. AUX Floor El. 995' Room, Area 5, 9W'R-0N'5C

Manufacturer, Model, Etc. (optional but recommended) _____

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

2. Is the anchorage free of bent, broken, missing or loose hardware? Y N U N/A

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

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

¹ Enter the equipment class name from Appendix B: Classes of Equipment.

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 2 of 4

Status: Y N U

Seismic Walkdown Checklist (SWC) SWC- 61

Equipment ID No. AC-8 Equip. Class² 21, TANKS AND HEAT EXCHANGERS

Equipment Description SPENT FUEL POOL HEAT EXCHANGER

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

Interaction Effects

7. Are soft targets free from impact by nearby equipment or structures? Y N U N/A
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
9. Do attached lines have adequate flexibility to avoid damage? Y N U N/A
10. Based on the above seismic interaction evaluations, is equipment free
of potentially adverse seismic interaction effects? Y N U

² Enter the equipment class name from Appendix B: Classes of Equipment.

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 3 of 4

Status: Y N U

Seismic Walkdown Checklist (SWC) SWC- 61

Equipment ID No. AC-8 Equip. Class³ 21, TANKS AND HEAT EXCHANGERS

Equipment Description SPENT FUEL POOL HEAT EXCHANGER

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

Comments (Additional pages may be added as necessary)

Evaluated by: Alex Smerch  Date: 8/20/12

John Kao  8/20/12

³ Enter the equipment class name from Appendix B: Classes of Equipment.

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 4 of 4

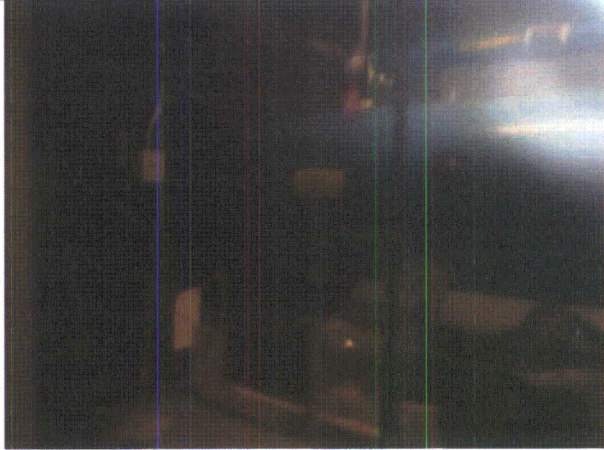
Status: Y N U

Seismic Walkdown Checklist (SWC) SWC- 61

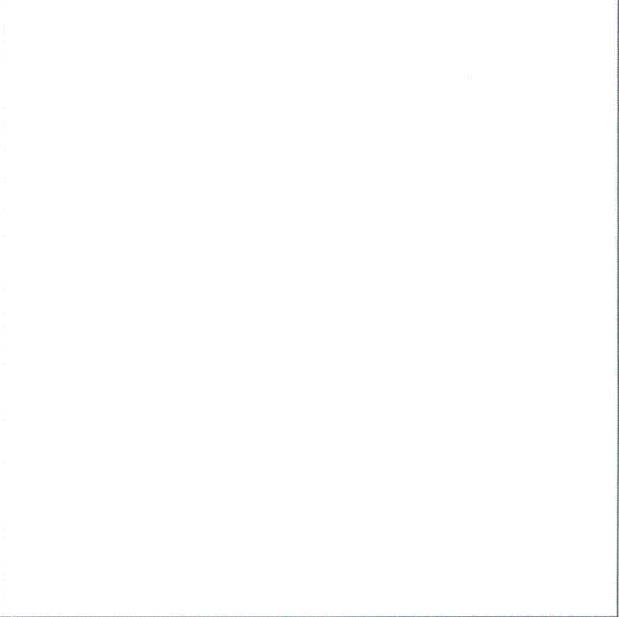
Equipment ID No. AC-8 Equip. Class⁴ 21, TANKS AND HEAT EXCHANGERS

Equipment Description SPENT FUEL POOL HEAT EXCHANGER

Photographs



Note: *Equipment.*



Note:

⁴ Enter the equipment class name from Appendix B: Classes of Equipment.

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 1 of 4

Status: Y N U

Seismic Walkdown Checklist (SWC) SWC- 62

Equipment ID No. FO-2-2 Equip. Class¹ 21, TANKS AND HEAT EXCHANGERS

Equipment Description D-2 WALL MOUNTED FUEL OIL DAY TANK

Location: Bldg. AUX Floor El. 1017' Room, Area 64, 7E'K-1S'2B

Manufacturer, Model, Etc. (optional but recommended) _____

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

2. Is the anchorage free of bent, broken, missing or loose hardware? Y N U N/A

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

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

¹ Enter the equipment class name from Appendix B: Classes of Equipment.

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 2 of 4

Status: Y N U

Seismic Walkdown Checklist (SWC) SWC- 62

Equipment ID No. FO-2-2 Equip. Class² 21, TANKS AND HEAT EXCHANGERS

Equipment Description D-2 WALL MOUNTED FUEL OIL DAY TANK

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.)
*The anchorage is consistent with drawing B120D06002, Sh. 1, Rev. 5
(File# 17382) and 370 (File# 18080).* Y N U N/A
6. Based on the above anchorage evaluations, is the anchorage free of
potentially adverse seismic conditions? Y N U
-

Interaction Effects

7. Are soft targets free from impact by nearby equipment or structures? Y N U N/A
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
9. Do attached lines have adequate flexibility to avoid damage? Y N U N/A
10. Based on the above seismic interaction evaluations, is equipment free
of potentially adverse seismic interaction effects? Y N U

² Enter the equipment class name from Appendix B: Classes of Equipment.

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 3 of 4

Status: Y N U

Seismic Walkdown Checklist (SWC) SWC- 62

Equipment ID No. FO-2-2 Equip. Class³ 21, TANKS AND HEAT EXCHANGERS

Equipment Description D-2 WALL MOUNTED FUEL OIL DAY TANK

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

Comments (Additional pages may be added as necessary)

Evaluated by: Alex Smerch

Date: 8/15/2012

John Kao

8/15/2012

³ Enter the equipment class name from Appendix B: Classes of Equipment.

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 4 of 4

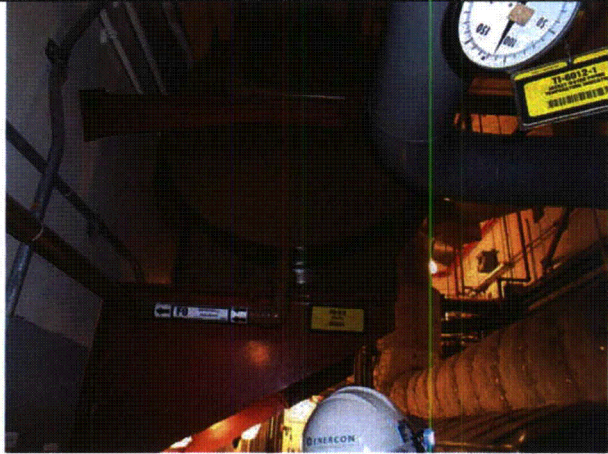
Status: Y N U

Seismic Walkdown Checklist (SWC) SWC- 62

Equipment ID No. FO-2-2 Equip. Class⁴ 21, TANKS AND HEAT EXCHANGERS

Equipment Description D-2 WALL MOUNTED FUEL OIL DAY TANK

Photographs



Note: *Equipment.*

Note:

⁴ Enter the equipment class name from Appendix B: Classes of Equipment.

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 1 of 4

Status: Y N U

Seismic Walkdown Checklist (SWC) SWC- 63

Equipment ID No. FW-19 Equip. Class¹ 21, TANKS AND HEAT EXCHANGERS

Equipment Description EMERGENCY FEEDWATER STORAGE TANK

Location: Bldg. AUX Floor El. 1045' Room, Area 81, 12'WC-3N'3A

Manufacturer, Model, Etc. (optional but recommended) _____

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

2. Is the anchorage free of bent, broken, missing or loose hardware? Y N U N/A

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

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

¹ Enter the equipment class name from Appendix B: Classes of Equipment.

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 2 of 4

Status: Y N U

Seismic Walkdown Checklist (SWC) SWC- 63

Equipment ID No. FW-19 Equip. Class² 21, TANKS AND HEAT EXCHANGERS

Equipment Description EMERGENCY FEEDWATER STORAGE TANK

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.)
*The anchorage configuration is consistent with drawing 80048, Rev. 8
(File# 2377).* Y N U N/A
6. Based on the above anchorage evaluations, is the anchorage free of
potentially adverse seismic conditions? Y N U

Interaction Effects

7. Are soft targets free from impact by nearby equipment or structures? Y N U N/A
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
9. Do attached lines have adequate flexibility to avoid damage? Y N U N/A
10. Based on the above seismic interaction evaluations, is equipment free
of potentially adverse seismic interaction effects? Y N U

² Enter the equipment class name from Appendix B: Classes of Equipment.

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 3 of 4

Status: Y N U

Seismic Walkdown Checklist (SWC) SWC- 63

Equipment ID No. FW-19 Equip. Class³ 21, TANKS AND HEAT EXCHANGERS

Equipment Description EMERGENCY FEEDWATER STORAGE TANK

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

Comments (Additional pages may be added as necessary)

Evaluated by: John Kao *John Kao* Date: 8/18/2012

Alex Smerch *Alex Smerch* 8/18/2012

³ Enter the equipment class name from Appendix B: Classes of Equipment.

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 4 of 4

Status: Y N U

Seismic Walkdown Checklist (SWC) SWC- 63

Equipment ID No. FW-19 Equip. Class⁴ 21, TANKS AND HEAT EXCHANGERS

Equipment Description EMERGENCY FEEDWATER STORAGE TANK

Photographs



Note: *Equipment.*

Note:

⁴ Enter the equipment class name from Appendix B: Classes of Equipment.

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 1 of 4

Status: Y N U

Seismic Walkdown Checklist (SWC) SWC- 64

Equipment ID No. LO-32-2 Equip. Class: 21, TANKS AND HEAT EXCHANGERS

Equipment Description D2 LUBE OIL COOLER

Location: Bldg. AUX Floor El. 1013' Room, Area 64, 1E'K-7S'2B

Manufacturer, Model, Etc. (optional but recommended) _____

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

2. Is the anchorage free of bent, broken, missing or loose hardware? Y N U N/A

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

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

¹ Enter the equipment class name from Appendix B: Classes of Equipment.

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 2 of 4

Status: Y N U

Seismic Walkdown Checklist (SWC) SWC- 64

Equipment ID No. LO-32-2 Equip. Class² 21, TANKS AND HEAT EXCHANGERS

Equipment Description D2 LUBE OIL COOLER

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

Interaction Effects

7. Are soft targets free from impact by nearby equipment or structures? Y N U N/A
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
9. Do attached lines have adequate flexibility to avoid damage? Y N U N/A
10. Based on the above seismic interaction evaluations, is equipment free
of potentially adverse seismic interaction effects? Y N U

² Enter the equipment class name from Appendix B: Classes of Equipment.

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 3 of 4

Status: Y N U

Seismic Walkdown Checklist (SWC) SWC- 64

Equipment ID No. LO-32-2 Equip. Class³ 21, TANKS AND HEAT EXCHANGERS

Equipment Description D2 LUBE OIL COOLER

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

Comments (Additional pages may be added as necessary)

Evaluated by: Alex Smerch  , Date: 8/15/2012

John Kao  8/15/2012

³ Enter the equipment class name from Appendix B: Classes of Equipment.

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 4 of 4

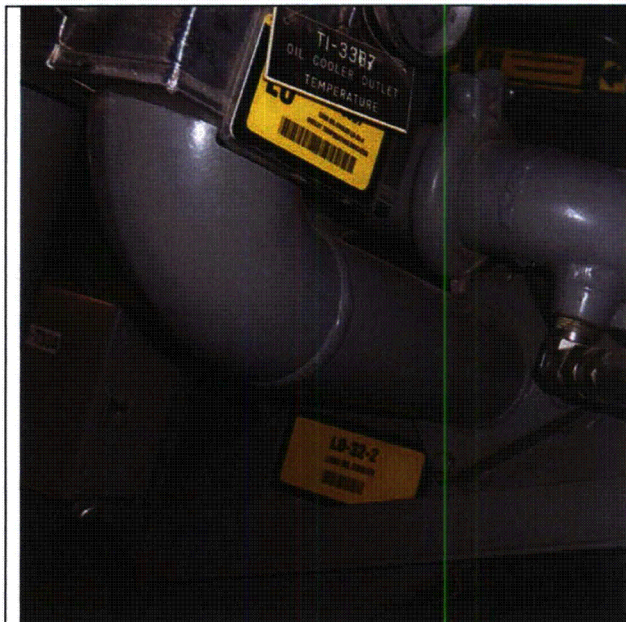
Status: Y N U

Seismic Walkdown Checklist (SWC) SWC- 64

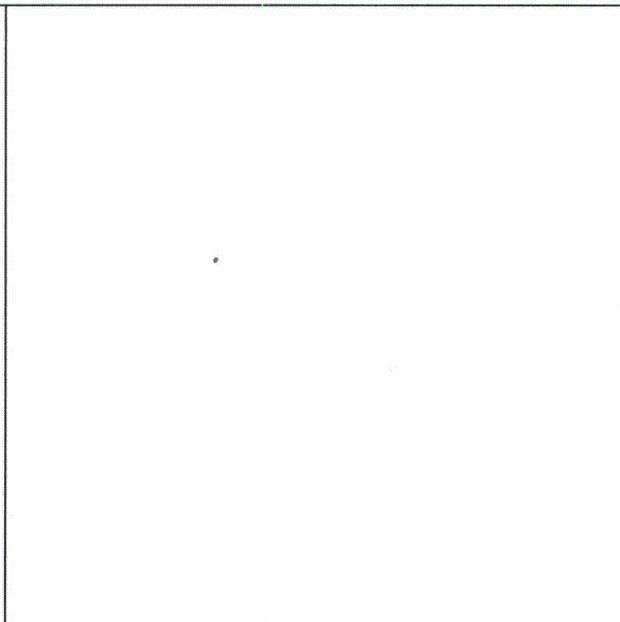
Equipment ID No. LO-32-2 Equip. Class⁴ 21, TANKS AND HEAT EXCHANGERS

Equipment Description D2 LUBE OIL COOLER

Photographs



Note: *Equipment.*



Note:

⁴ Enter the equipment class name from Appendix B: Classes of Equipment.

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 1 of 4

Status: Y N U

Seismic Walkdown Checklist (SWC) SWC- 65

Equipment ID No. AC-100 Equip. Class¹ 8, MOTOR-OPERATED AND SOLENOID-OPERATED VALVES

Equipment Description COMP COOLING WATER PUMP AC-3A SUCTION VALVE

Location: Bldg. AUX Floor El. 1027' Room, Area 69, 0W'N-17N'7A

Manufacturer, Model, Etc. (optional but recommended) _____

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
In-Line Valve

2. Is the anchorage free of bent, broken, missing or loose hardware? Y N U N/A

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

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

¹ Enter the equipment class name from Appendix B: Classes of Equipment.

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 2 of 4

Status: Y N U

Seismic Walkdown Checklist (SWC) SWC- 65

Equipment ID No. AC-100 Equip. Class² 8, MOTOR-OPERATED AND SOLENOID-OPERATED VALVES

Equipment Description COMP COOLING WATER PUMP AC-3A SUCTION VALVE

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
6. Based on the above anchorage evaluations, is the anchorage free of
potentially adverse seismic conditions? Y N U
N/A inline Valve.

Interaction Effects

7. Are soft targets free from impact by nearby equipment or structures? Y N U N/A
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
9. Do attached lines have adequate flexibility to avoid damage? Y N U N/A
10. Based on the above seismic interaction evaluations, is equipment free
of potentially adverse seismic interaction effects? Y N U

² Enter the equipment class name from Appendix B: Classes of Equipment.

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 3 of 4

Status: Y N U

Seismic Walkdown Checklist (SWC) SWC- 65

Equipment ID No. AC-100 Equip. Class³ 8, MOTOR-OPERATED AND SOLENOID-OPERATED VALVES

Equipment Description COMP COOLING WATER PUMP AC-3A SUCTION VALVE

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

Comments (Additional pages may be added as necessary)

Evaluated by: Alex Smerch  Date: 8/21/12

John Kao  8/21/12

³ Enter the equipment class name from Appendix B: Classes of Equipment.

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 4 of 4

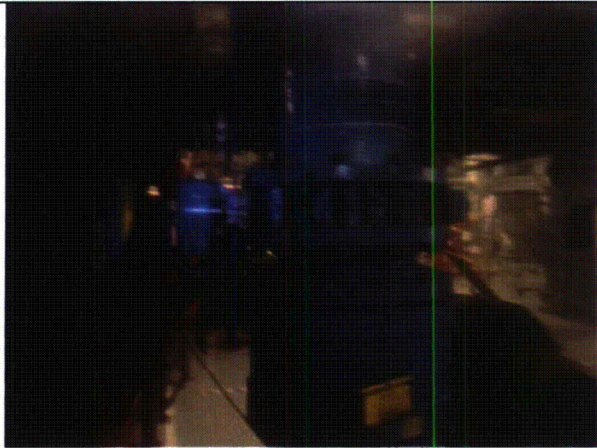
Status: Y N U

Seismic Walkdown Checklist (SWC) SWC- 65

Equipment ID No. AC-100 Equip. Class⁴ 8, MOTOR-OPERATED AND SOLENOID-OPERATED VALVES

Equipment Description COMP COOLING WATER PUMP AC-3A SUCTION VALVE

Photographs



Note: *Equipment*

Note:

⁴ Enter the equipment class name from Appendix B: Classes of Equipment.

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 1 of 4

Status: Y N U

Seismic Walkdown Checklist (SWC) SWC- 66

Equipment ID No. AC-102 Equip. Class¹ 8, MOTOR-OPERATED AND SOLENOID-OPERATED VALVES

Equipment Description COMP COOLING WATER PUMP AC-3A DISCHARGE VALVE

Location: Bldg. AUX Floor El. 1027' Room, Area 69,1W'N-4N'7A

Manufacturer, Model, Etc. (optional but recommended) _____

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

2. Is the anchorage free of bent, broken, missing or loose hardware? Y N U N/A

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

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

¹ Enter the equipment class name from Appendix B: Classes of Equipment.

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 2 of 4

Status: Y N U

Seismic Walkdown Checklist (SWC) SWC- 66

Equipment ID No. AC-102 Equip. Class² 8. MOTOR-OPERATED AND SOLENOID-OPERATED VALVES

Equipment Description COMP COOLING WATER PUMP AC-3A DISCHARGE VALVE

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
6. Based on the above anchorage evaluations, is the anchorage free of
potentially adverse seismic conditions? Y N U
In line valve

Interaction Effects

7. Are soft targets free from impact by nearby equipment or structures?
Not a soft target Y N U N/A
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
9. Do attached lines have adequate flexibility to avoid damage? Y N U N/A
10. Based on the above seismic interaction evaluations, is equipment free
of potentially adverse seismic interaction effects? Y N U

² Enter the equipment class name from Appendix B: Classes of Equipment.

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 3 of 4

Status: Y N U

Seismic Walkdown Checklist (SWC) SWC- 66

Equipment ID No. AC-102 Equip. Class³ 8 MOTOR-OPERATED AND SOLENOID-OPERATED VALVES

Equipment Description COMP COOLING WATER PUMP AC-3A DISCHARGE VALVE

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

Comments (Additional pages may be added as necessary)

Evaluated by: John Kao Date: 8/21/2012

Alex Smerch 8/21/2012

³ Enter the equipment class name from Appendix B: Classes of Equipment.

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 4 of 4

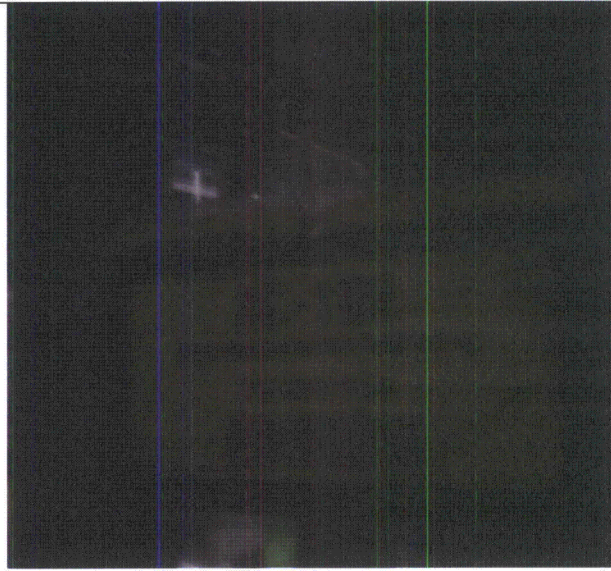
Status: Y N U

Seismic Walkdown Checklist (SWC) SWC- 66

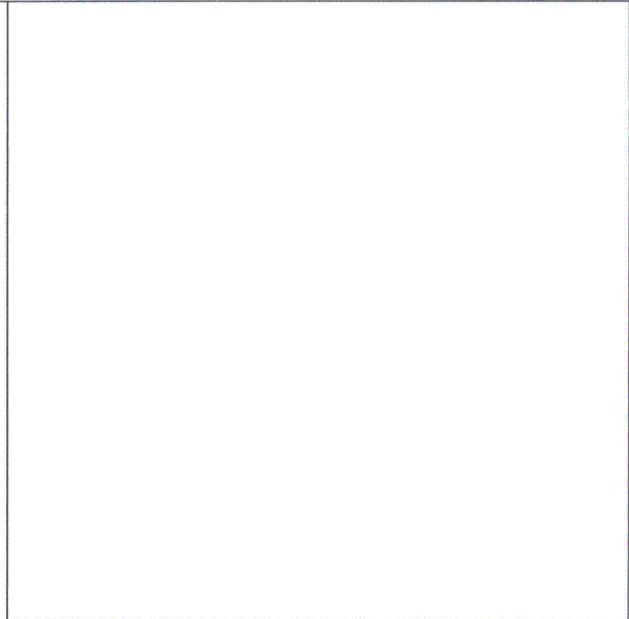
Equipment ID No. AC-102 Equip. Class⁴ 8, MOTOR-OPERATED AND SOLENOID-OPERATED VALVES

Equipment Description COMP COOLING WATER PUMP AC-3A DISCHARGE VALVE

Photographs



Note: *Equipment tag*



Note:

⁴ Enter the equipment class name from Appendix B: Classes of Equipment.

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 1 of 4

Status: Y N U

Seismic Walkdown Checklist (SWC) SWC- 67

Equipment ID No. AI-40A Equip. Class¹ 14, DISTRIBUTION PANELS AND AUTOMATIC TRANSFER SWITCHES

Equipment Description 120V A-C INSTRUMENT BUS "A"

Location: Bldg. AUX Floor El. 1036' Room, Area 77, 15W'D-11N'6D

Manufacturer, Model, Etc. (optional but recommended) _____

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

2. Is the anchorage free of bent, broken, missing or loose hardware? Y N U N/A

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

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

¹ Enter the equipment class name from Appendix B: Classes of Equipment.

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 2 of 4

Status: Y N U

Seismic Walkdown Checklist (SWC) SWC- 67

Equipment ID No. AI-40A Equip. Class² 14. DISTRIBUTION PANELS AND AUTOMATIC TRANSFER SWITCHES

Equipment Description 120V A-C INSTRUMENT BUS "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.) Y N U N/A
6. Based on the above anchorage evaluations, is the anchorage free of
potentially adverse seismic conditions? Y N U
-

Interaction Effects

7. Are soft targets free from impact by nearby equipment or structures? Y N U N/A
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
9. Do attached lines have adequate flexibility to avoid damage? Y N U N/A
10. Based on the above seismic interaction evaluations, is equipment free
of potentially adverse seismic interaction effects? Y N U

² Enter the equipment class name from Appendix B: Classes of Equipment.

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 3 of 4

Status: Y N U

Seismic Walkdown Checklist (SWC) SWC- 67

Equipment ID No. AI-40A Equip. Class³ 14, DISTRIBUTION PANELS AND AUTOMATIC TRANSFER SWITCHES

Equipment Description 120V A-C INSTRUMENT BUS "A"

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

Comments (Additional pages may be added as necessary)

Evaluated by: John Kao

John Kao

Date: 8/18/2012

Alex Smerch

Alex Smerch

8/18/2012

³ Enter the equipment class name from Appendix B: Classes of Equipment.

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 4 of 4

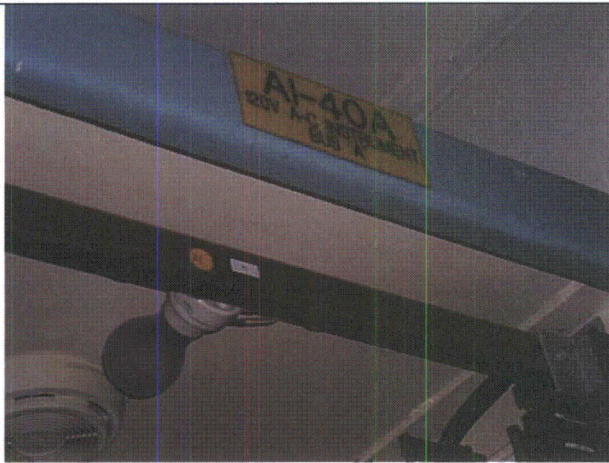
Status: Y N U

Seismic Walkdown Checklist (SWC) SWC- 67

Equipment ID No. AI-40A Equip. Class⁴ 14, DISTRIBUTION PANELS AND AUTOMATIC TRANSFER SWITCHES

Equipment Description 120V A-C INSTRUMENT BUS "A"

Photographs



Note: *Equipment.*

Note:

⁴ Enter the equipment class name from Appendix B: Classes of Equipment.

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 1 of 4

Status: Y N U

Seismic Walkdown Checklist (SWC) SWC- 68

Equipment ID No. AI-41A Equip. Class¹ 14, DISTRIBUTION PANELS AND AUTOMATIC TRANSFER SWITCHES

Equipment Description 125V DC BUS NUMBER 1

Location: Bldg. AUX Floor El. 1036' Room, Area 77, 15W'D-0N'7A

Manufacturer, Model, Etc. (optional but recommended) _____

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

2. Is the anchorage free of bent, broken, missing or loose hardware? Y N U N/A

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

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

¹ Enter the equipment class name from Appendix B: Classes of Equipment.

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 2 of 4

Status: Y N U

Seismic Walkdown Checklist (SWC) SWC- 68

Equipment ID No. AI-41A Equip. Class² 14, DISTRIBUTION PANELS AND AUTOMATIC TRANSFER SWITCHES

Equipment Description 125V DC BUS NUMBER 1

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

Interaction Effects

7. Are soft targets free from impact by nearby equipment or structures? Y N U N/A
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
9. Do attached lines have adequate flexibility to avoid damage? Y N U N/A
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y N U

² Enter the equipment class name from Appendix B: Classes of Equipment.

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 3 of 4

Status: Y N U

Seismic Walkdown Checklist (SWC) SWC- 68

Equipment ID No. AI-41A Equip. Class³ 14, DISTRIBUTION PANELS AND AUTOMATIC TRANSFER SWITCHES

Equipment Description 125V DC BUS NUMBER 1

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

Comments (Additional pages may be added as necessary)

Evaluated by: John Kao *John Kao* Date: 8/18/2012

Alex Smerch *Alex Smerch* 8/18/2012

³ Enter the equipment class name from Appendix B: Classes of Equipment.

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 4 of 4

Status: Y N U

Seismic Walkdown Checklist (SWC) SWC- 68

Equipment ID No. AI-41A Equip. Class⁴ 14, DISTRIBUTION PANELS AND AUTOMATIC TRANSFER SWITCHES

Equipment Description 125V DC BUS NUMBER 1

Photographs



Note: *Equipment*

Note:

⁴ Enter the equipment class name from Appendix B: Classes of Equipment.

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 1 of 4

Status: Y N U

Seismic Walkdown Checklist (SWC) SWC- 69

Equipment ID No. C/LT-911 Equip. Class¹ 20, INSTRUMENTATION AND CONTROL PANELS

Equipment Description STEAM GENERATOR RC-2A WIDE RANGE LEVEL TRANSMITTER

Location: Bldg. CONT Floor El. 1011' Room, Area CONT, 3W'BB-9N''

Manufacturer, Model, Etc. (optional but recommended) _____

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

2. Is the anchorage free of bent, broken, missing or loose hardware? Y N U N/A

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

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

¹ Enter the equipment class name from Appendix B: Classes of Equipment.

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 2 of 4

Status: Y N U

Seismic Walkdown Checklist (SWC) SWC- 69

Equipment ID No. C/LT-911 Equip. Class² 20, INSTRUMENTATION AND CONTROL PANELS

Equipment Description STEAM GENERATOR RC-2A WIDE RANGE LEVEL TRANSMITTER

5. Is the anchorage configuration consistent with plant documentation? Y N U N/A
(Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)
Missing plant documentation to verify anchorage configuration. See sketch in photos section below for anchorage. Licensing Basis Evaluation is required.
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y N U
Based on the above item #5 on missing documentation.
-

Interaction Effects

7. Are soft targets free from impact by nearby equipment or structures? Y N U N/A
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
9. Do attached lines have adequate flexibility to avoid damage? Y N U N/A
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y N U

² Enter the equipment class name from Appendix B: Classes of Equipment.

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 3 of 4

Status: Y N U

Seismic Walkdown Checklist (SWC) SWC- 69

Equipment ID No. C/LT-911 Equip. Class³ 20, INSTRUMENTATION AND CONTROL PANELS

Equipment Description STEAM GENERATOR RC-2A WIDE RANGE LEVEL TRANSMITTER

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

Comments (Additional pages may be added as necessary)

Evaluated by: John Kao *John Kao* Date: 8/22/2012

Alex Smerch *Alex Smerch* 8/22/2012

³ Enter the equipment class name from Appendix B: Classes of Equipment.

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 4 of 4

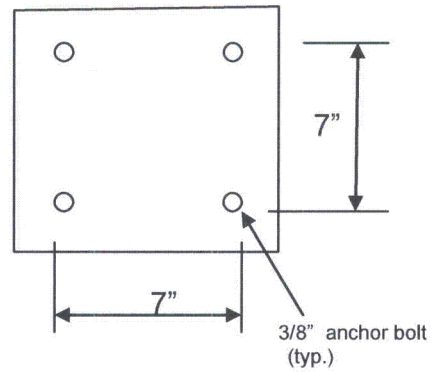
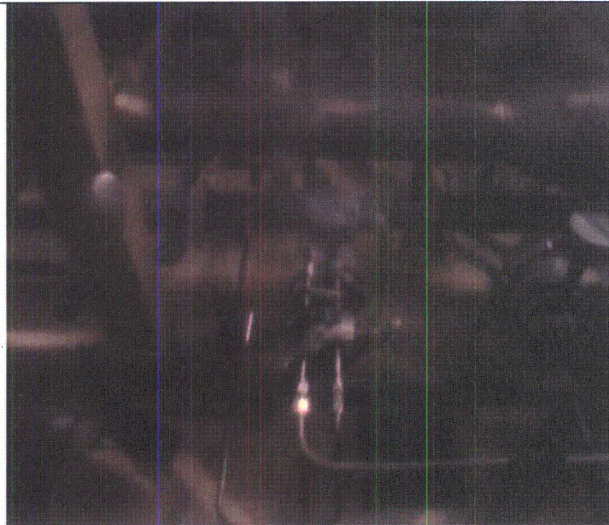
Status: Y N U

Seismic Walkdown Checklist (SWC) SWC- 69

Equipment ID No. C/LT-911 Equip. Class⁴ 20, INSTRUMENTATION AND CONTROL PANELS

Equipment Description STEAM GENERATOR RC-2A WIDE RANGE LEVEL TRANSMITTER

Photographs



Note:

Note: Common base plate for C/LT-911 & C/PT-913

⁴ Enter the equipment class name from Appendix B: Classes of Equipment.

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 1 of 4

Status: Y N U

Seismic Walkdown Checklist (SWC) SWC- 70

Equipment ID No. C/PT-913 Equip. Class¹ 20, INSTRUMENTATION AND CONTROL PANELS

Equipment Description STEAM GENERATOR RC-2A WIDE RANGE PRESSURE TRANSMITTER

Location: Bldg. CONT Floor El. 1002' Room, Area CONT, 3WBB-9N//

Manufacturer, Model, Etc. (optional but recommended) _____

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

2. Is the anchorage free of bent, broken, missing or loose hardware? Y N U N/A

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

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

¹ Enter the equipment class name from Appendix B: Classes of Equipment.

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 2 of 4

Status: Y N U

Seismic Walkdown Checklist (SWC) SWC- 70

Equipment ID No. C/PT-913 Equip. Class² 20, INSTRUMENTATION AND CONTROL PANELS

Equipment Description STEAM GENERATOR RC-2A WIDE RANGE PRESSURE TRANSMITTER

5. Is the anchorage configuration consistent with plant documentation? Y N U N/A
(Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)
Need plant documents to verify anchorage. Anchorage configuration shown in sketches in photo section below. Licensing Basis Evaluation is required.
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y N U
Based on missing documentation (Item #5 above).
-

Interaction Effects

7. Are soft targets free from impact by nearby equipment or structures? Y N U N/A
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
9. Do attached lines have adequate flexibility to avoid damage? Y N U N/A
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y N U

² Enter the equipment class name from Appendix B: Classes of Equipment.

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 3 of 4

Status: Y N U

Seismic Walkdown Checklist (SWC) SWC- 70

Equipment ID No. C/PT-913 Equip. Class³ 20, INSTRUMENTATION AND CONTROL PANELS

Equipment Description STEAM GENERATOR RC-2A WIDE RANGE PRESSURE TRANSMITTER

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

Comments (Additional pages may be added as necessary)

Evaluated by: John Kao *John Kao* Date: 8/22/2012

Alex Smerch *Alex Smerch* 8/22/2012

³ Enter the equipment class name from Appendix B: Classes of Equipment.

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 4 of 4

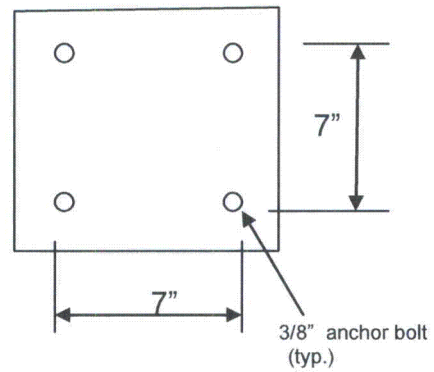
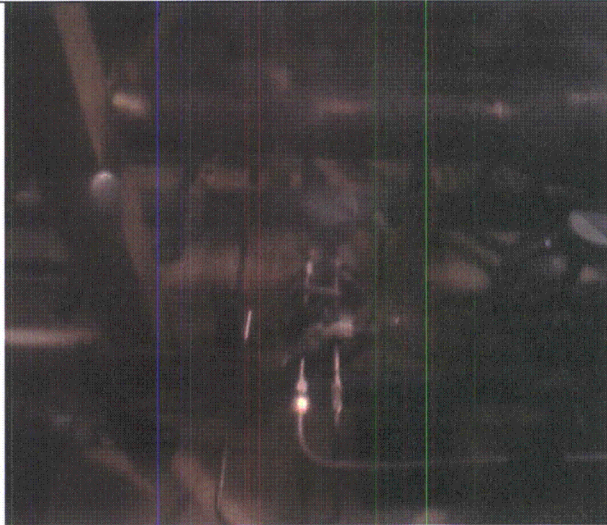
Status: Y N U

Seismic Walkdown Checklist (SWC) SWC- 70

Equipment ID No. C/PT-913 Equip. Class⁴ 20, INSTRUMENTATION AND CONTROL PANELS

Equipment Description STEAM GENERATOR RC-2A WIDE RANGE PRESSURE TRANSMITTER

Photographs



Note:

Note: Common base plate for C/LT-911 & C/PT-913

⁴ Enter the equipment class name from Appendix B: Classes of Equipment.

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 1 of 4

Status: Y N U

Seismic Walkdown Checklist (SWC) SWC- 71

Equipment ID No. CH-115 Equip. Class¹ 8, MOTOR-OPERATED AND SOLENOID-OPERATED VALVES

Equipment Description BORIC ACID STORAGE TANK CH-11A OUTLET VALVE

Location: Bldg. AUX Floor El. 1009' Room, Area 26, 26W'T-9N'6E

Manufacturer, Model, Etc. (optional but recommended) _____

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

2. Is the anchorage free of bent, broken, missing or loose hardware? Y N U N/A

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

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

¹ Enter the equipment class name from Appendix B: Classes of Equipment.

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 2 of 4

Status: Y N U

Seismic Walkdown Checklist (SWC) SWC- 71

Equipment ID No. CH-115 Equip. Class² 8, MOTOR-OPERATED AND SOLENOID-OPERATED VALVES

Equipment Description BORIC ACID STORAGE TANK CH-11A OUTLET VALVE

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
6. Based on the above anchorage evaluations, is the anchorage free of
potentially adverse seismic conditions? Y N U
In-line valve.
-

Interaction Effects

7. Are soft targets free from impact by nearby equipment or structures? Y N U N/A
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
9. Do attached lines have adequate flexibility to avoid damage? Y N U N/A
10. Based on the above seismic interaction evaluations, is equipment free
of potentially adverse seismic interaction effects? Y N U

² Enter the equipment class name from Appendix B: Classes of Equipment.

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 3 of 4

Status: Y N U

Seismic Walkdown Checklist (SWC) SWC- 71

Equipment ID No. CH-115 Equip. Class³ 8, MOTOR-OPERATED AND SOLENOID-OPERATED VALVES

Equipment Description BORIC ACID STORAGE TANK CH-11A OUTLET VALVE

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

Comments (Additional pages may be added as necessary)

Evaluated by: John Kao *John Kao* Date: 8/23/2012

Alex Smerch *Alex Smerch* 8/23/2012

³ Enter the equipment class name from Appendix B: Classes of Equipment.

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 4 of 4

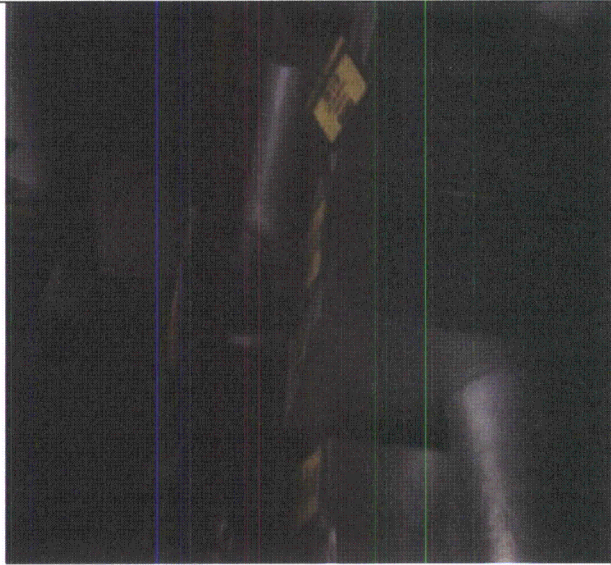
Status: Y N U

Seismic Walkdown Checklist (SWC) SWC- 71

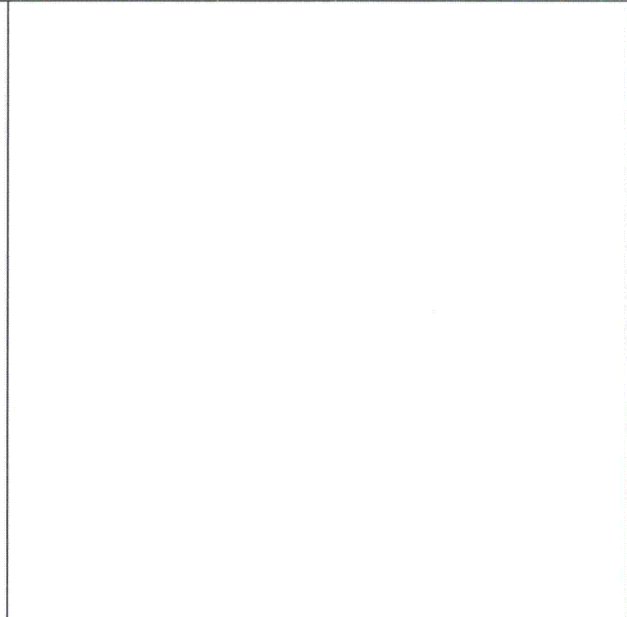
Equipment ID No. CH-115 Equip. Class⁴ 8, MOTOR-OPERATED AND SOLENOID-OPERATED VALVES

Equipment Description BORIC ACID STORAGE TANK CH-11A OUTLET VALVE

Photographs



Note: *Equipment.*



Note:

⁴ Enter the equipment class name from Appendix B: Classes of Equipment.

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 1 of 4

Status: Y N U

Seismic Walkdown Checklist (SWC) SWC- 72

Equipment ID No. CH-143 Equip. Class¹ 8. MOTOR-OPERATED AND SOLENOID-OPERATED VALVES

Equipment Description BORIC ACID PUMPS CH-4A & B DISCH TO CHARGING SUCT HDR CHECK VLV

Location: Bldg. AUX Floor El. 1016' Room, Area 26, 8E'U-9N'6E

Manufacturer, Model, Etc. (optional but recommended) _____

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

2. Is the anchorage free of bent, broken, missing or loose hardware? Y N U N/A

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

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

¹ Enter the equipment class name from Appendix B: Classes of Equipment.

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 2 of 4

Status: Y N U

Seismic Walkdown Checklist (SWC) SWC- 72

Equipment ID No: CH-143 Equip. Class² 8, MOTOR-OPERATED AND SOLENOID-OPERATED VALVES

Equipment Description BORIC ACID PUMPS CH-4A & B DISCH TO CHARGING SUCT HDR CHECK VLV

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
6. Based on the above anchorage evaluations, is the anchorage free of
potentially adverse seismic conditions? Y N U
In-line valve.
-

Interaction Effects

7. Are soft targets free from impact by nearby equipment or structures? Y N U N/A
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
9. Do attached lines have adequate flexibility to avoid damage? Y N U N/A
10. Based on the above seismic interaction evaluations, is equipment free
of potentially adverse seismic interaction effects? Y N U

² Enter the equipment class name from Appendix B: Classes of Equipment.

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 3 of 4

Status: Y N U

Seismic Walkdown Checklist (SWC) SWC- 72

Equipment ID No. CH-143 Equip. Class³ 8, MOTOR-OPERATED AND SOLENOID-OPERATED VALVES

Equipment Description BORIC ACID PUMPS CH-4A & B DISCH TO CHARGING SUCT HDR CHECK VLV

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

Comments (Additional pages may be added as necessary)

Evaluated by: John Kao *John Kao* Date: 8/23/2012

Alex Smerch *Alex Smerch* 8/23/2012

³ Enter the equipment class name from Appendix B: Classes of Equipment.

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 4 of 4

Status: Y N U

Seismic Walkdown Checklist (SWC) SWC- 72

Equipment ID No. CH-143 Equip. Class⁴ 8, MOTOR-OPERATED AND SOLENOID-OPERATED VALVES

Equipment Description BORIC ACID PUMPS CH-4A & B DISCH TO CHARGING SUCT HDR CHECK VLV

Photographs



Note: *Equipment.*

Note:

⁴ Enter the equipment class name from Appendix B: Classes of Equipment.

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 1 of 4

Status: Y N U

Seismic Walkdown Checklist (SWC) SWC- 73

Equipment ID No. CH-172 Equip. Class¹ 8, MOTOR-OPERATED AND SOLENOID-OPERATED VALVES

Equipment Description CHARGING PUMP CH-1A SUCTION VALVE

Location: Bldg. AUX Floor El. 990' Room, Area 7, 48W'T-2N'7B

Manufacturer, Model, Etc. (optional but recommended) _____

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

2. Is the anchorage free of bent, broken, missing or loose hardware? Y N U N/A

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

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

¹ Enter the equipment class name from Appendix B: Classes of Equipment.

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 2 of 4

Status: Y N U

Seismic Walkdown Checklist (SWC) SWC- 73

Equipment ID No. CH-172 Equip. Class² 8, MOTOR-OPERATED AND SOLENOID-OPERATED VALVES

Equipment Description CHARGING PUMP CH-1A SUCTION VALVE

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
6. Based on the above anchorage evaluations, is the anchorage free of
potentially adverse seismic conditions? Y N U
In-line
-

Interaction Effects

7. Are soft targets free from impact by nearby equipment or structures? Y N U N/A
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
9. Do attached lines have adequate flexibility to avoid damage? Y N U N/A
10. Based on the above seismic interaction evaluations, is equipment free
of potentially adverse seismic interaction effects? Y N U

² Enter the equipment class name from Appendix B: Classes of Equipment.

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 3 of 4

Status: Y N U

Seismic Walkdown Checklist (SWC) SWC- 73

Equipment ID No. CH-172 Equip. Class³ 8. MOTOR-OPERATED AND SOLENOID-OPERATED VALVES

Equipment Description CHARGING PUMP CH-1A SUCTION VALVE

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

Comments (Additional pages may be added as necessary)

Evaluated by: John Kao Date: 8/20/2012

Alex Smerch 8/20/2012

³ Enter the equipment class name from Appendix B: Classes of Equipment.

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 4 of 4

Status: Y N U

Seismic Walkdown Checklist (SWC) SWC- 73

Equipment ID No. CH-172 Equip. Class⁴ 8, MOTOR-OPERATED AND SOLENOID-OPERATED VALVES

Equipment Description CHARGING PUMP CH-1A SUCTION VALVE

Photographs



Note: *Equipment*

Note:

⁴ Enter the equipment class name from Appendix B: Classes of Equipment.

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 1 of 4

Status: Y N U

Seismic Walkdown Checklist (SWC) SWC- 74

Equipment ID No. CH-193 Equip. Class¹ 8, MOTOR-OPERATED AND SOLENOID-OPERATED VALVES

Equipment Description CHARGING PUMP CH-1A DISCHARGE VALVE

Location: Bldg. AUX Floor El. 990' Room, Area 7, 5E'U-1N'7B

Manufacturer, Model, Etc. (optional but recommended) _____

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

2. Is the anchorage free of bent, broken, missing or loose hardware? Y N U N/A

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

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

¹ Enter the equipment class name from Appendix B: Classes of Equipment.

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 2 of 4

Status: Y N U

Seismic Walkdown Checklist (SWC) SWC- 74

Equipment ID No. CH-193 Equip. Class² 8, MOTOR-OPERATED AND SOLENOID-OPERATED VALVES

Equipment Description CHARGING PUMP CH-1A DISCHARGE VALVE

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
6. Based on the above anchorage evaluations, is the anchorage free of
potentially adverse seismic conditions? Y N U
In-line valve.
-

Interaction Effects

7. Are soft targets free from impact by nearby equipment or structures? Y N U N/A
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
9. Do attached lines have adequate flexibility to avoid damage? Y N U N/A
10. Based on the above seismic interaction evaluations, is equipment free
of potentially adverse seismic interaction effects? Y N U

² Enter the equipment class name from Appendix B: Classes of Equipment.

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 3 of 4

Status: Y N U

Seismic Walkdown Checklist (SWC) SWC- 74

Equipment ID No. CH-193 Equip. Class³ 8, MOTOR-OPERATED AND SOLENOID-OPERATED VALVES

Equipment Description CHARGING PUMP CH-1A DISCHARGE VALVE

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

Comments (Additional pages may be added as necessary)

Evaluated by: John Kao Date: 8/20/2012

Alex Smerch 8/20/2012

³ Enter the equipment class name from Appendix B: Classes of Equipment.

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 4 of 4

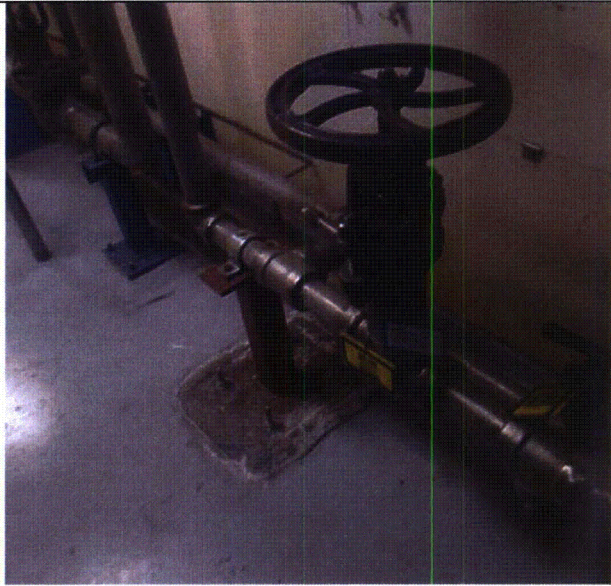
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Seismic Walkdown Checklist (SWC) SWC- 74

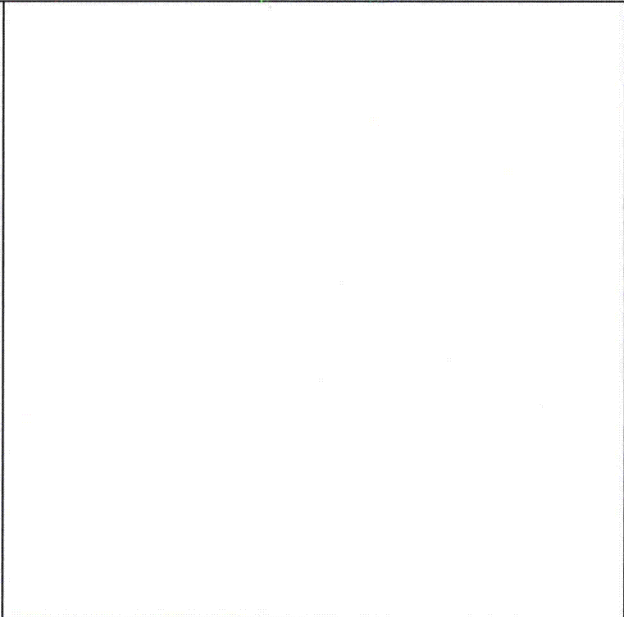
Equipment ID No. CH-193 Equip. Class⁴ 8, MOTOR-OPERATED AND SOLENOID-OPERATED VALVES

Equipment Description CHARGING PUMP CH-1A DISCHARGE VALVE

Photographs



Note: *Equipment.*



Note:

⁴ Enter the equipment class name from Appendix B: Classes of Equipment.

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 1 of 4

Status: Y N U

Seismic Walkdown Checklist (SWC) SWC- 75

Equipment ID No. CH-4A Equip. Class¹ 5, HORIZONTAL PUMPS

Equipment Description BORIC ACID PUMP

Location: Bldg. AUX Floor El. 1007' Room, Area 26, 22WT-9N'6E

Manufacturer, Model, Etc. (optional but recommended) _____

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

2. Is the anchorage free of bent, broken, missing or loose hardware? Y N U N/A

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

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

¹ Enter the equipment class name from Appendix B: Classes of Equipment.

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 2 of 4

Status: Y N U

Seismic Walkdown Checklist (SWC) SWC- 75

Equipment ID No. CH-4A Equip. Class² 5, HORIZONTAL PUMPS

Equipment Description BORIC ACID PUMP

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.)
*The anchorage configuration is consistent with drawing 11405-S-51,
Rev. 17 (File# 16436) and 11405-S-69, Rev. 5 (File# 16454).* Y N U N/A
6. Based on the above anchorage evaluations, is the anchorage free of
potentially adverse seismic conditions? Y N U

Interaction Effects

7. Are soft targets free from impact by nearby equipment or structures? Y N U N/A
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
9. Do attached lines have adequate flexibility to avoid damage? Y N U N/A
10. Based on the above seismic interaction evaluations, is equipment free
of potentially adverse seismic interaction effects? Y N U

² Enter the equipment class name from Appendix B: Classes of Equipment.

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 3 of 4

Status: Y N U

Seismic Walkdown Checklist (SWC) SWC- 75

Equipment ID No. CH-4A Equip. Class³ 5, HORIZONTAL PUMPS

Equipment Description BORIC ACID PUMP

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

Comments (Additional pages may be added as necessary)

Evaluated by: Alex Smerch *Alex Smerch* Date: 8/23/12

John Kao *John Kao* 8/23/12

³ Enter the equipment class name from Appendix B: Classes of Equipment.

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 4 of 4

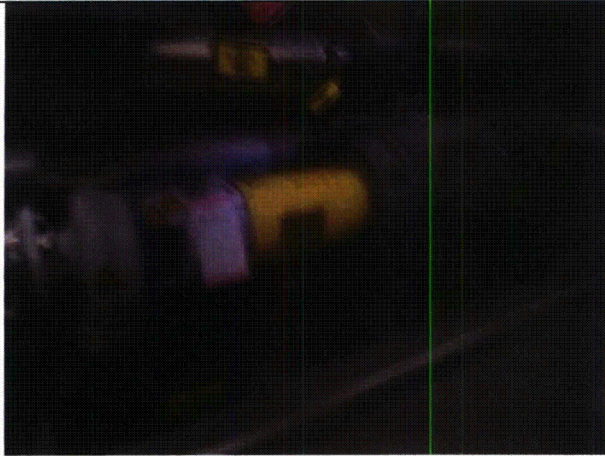
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Seismic Walkdown Checklist (SWC) SWC- 75

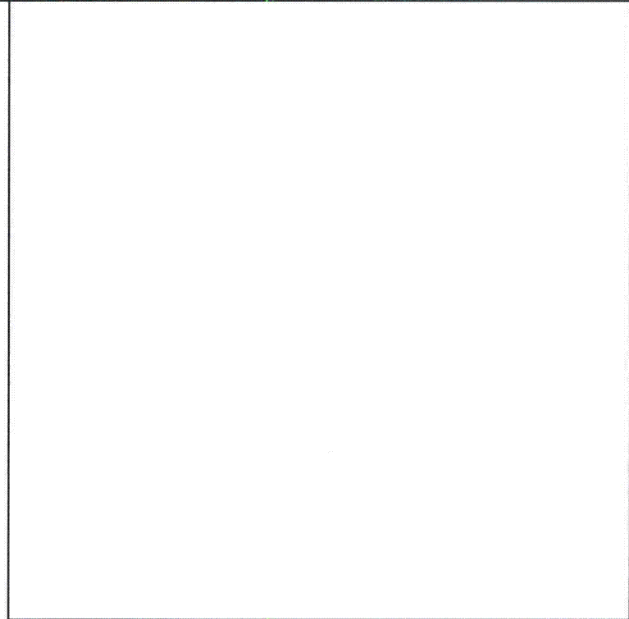
Equipment ID No. CH-4A Equip. Class⁴ 5, HORIZONTAL PUMPS

Equipment Description BORIC ACID PUMP

Photographs



Note: *Equipment.*



Note:

⁴ Enter the equipment class name from Appendix B: Classes of Equipment.

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 1 of 4

Status: Y N U

Seismic Walkdown Checklist (SWC) SWC- 76

Equipment ID No. FP-1B Equip. Class¹ 5, HORIZONTAL PUMPS

Equipment Description DIESEL FIRE PUMP

Location: Bldg. Intake Floor El. 1009' Room, Area Intake, 1E'CC-3S'105

Manufacturer, Model, Etc. (optional but recommended) _____

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

2. Is the anchorage free of bent, broken, missing or loose hardware? Y N U N/A

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

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

¹ Enter the equipment class name from Appendix B: Classes of Equipment.

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 2 of 4

Status: Y N U

Seismic Walkdown Checklist (SWC) SWC- 76

Equipment ID No. FP-1B Equip. Class² 5, HORIZONTAL PUMPS

Equipment Description DIESEL FIRE PUMP

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.)
*The anchorage configuration is consistent with drawing 3-2241, Sh. 1B,
Rev. 2 (File# 16761).* Y N U N/A
6. Based on the above anchorage evaluations, is the anchorage free of
potentially adverse seismic conditions? Y N U
-

Interaction Effects

7. Are soft targets free from impact by nearby equipment or structures?
Not a soft target Y N U N/A
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
9. Do attached lines have adequate flexibility to avoid damage? Y N U N/A
10. Based on the above seismic interaction evaluations, is equipment free
of potentially adverse seismic interaction effects? Y N U

² Enter the equipment class name from Appendix B: Classes of Equipment.

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 3 of 4

Status: Y N U

Seismic Walkdown Checklist (SWC) SWC- 76

Equipment ID No. FP-1B Equip. Class³ 5, HORIZONTAL PUMPS

Equipment Description DIESEL FIRE PUMP

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

Comments (Additional pages may be added as necessary)

Evaluated by: John Kao *John Kao* Date: 8/17/2012

Alex Smerch *Alex Smerch* 8/17/2012

³ Enter the equipment class name from Appendix B: Classes of Equipment.

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 4 of 4

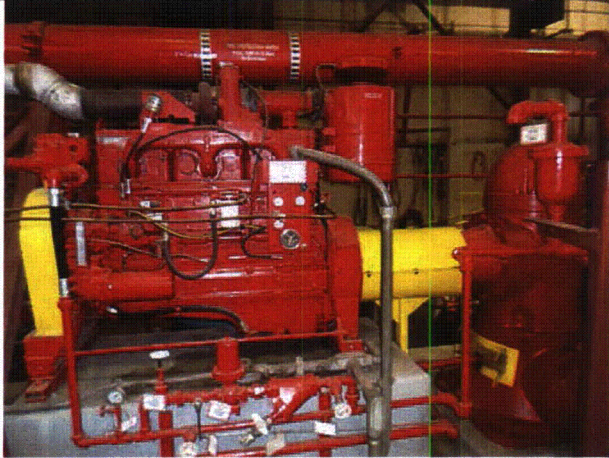
Status: Y N U

Seismic Walkdown Checklist (SWC) SWC- 76

Equipment ID No. FP-1B Equip. Class⁴ 5, HORIZONTAL PUMPS

Equipment Description DIESEL FIRE PUMP

Photographs



Note: *Equipment.*

Note:

⁴ Enter the equipment class name from Appendix B: Classes of Equipment.

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 1 of 4

Status: Y N U

Seismic Walkdown Checklist (SWC) SWC- 77

Equipment ID No. FP-456 Equip. Class¹ 8, MOTOR-OPERATED AND SOLENOID-OPERATED VALVES

Equipment Description FIRE HOSE CABINET FP-10D 2 1/2 " AUX HOSE CONNECTION VALVE

Location: Bldg. AUX Floor El. 1039' Room, Area 81, 1W'K-0N'2B

Manufacturer, Model, Etc. (optional but recommended) _____

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

2. Is the anchorage free of bent, broken, missing or loose hardware? Y N U N/A

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

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

¹ Enter the equipment class name from Appendix B: Classes of Equipment.

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 2 of 4

Status: Y N U

Seismic Walkdown Checklist (SWC) SWC- 77

Equipment ID No. FP-456 Equip. Class² 8, MOTOR-OPERATED AND SOLENOID-OPERATED VALVES

Equipment Description FIRE HOSE CABINET FP-10D 2 1/2 " AUX HOSE CONNECTION VALVE

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
6. Based on the above anchorage evaluations, is the anchorage free of
potentially adverse seismic conditions? Y N U
N/A – Inline Valve

Interaction Effects

7. Are soft targets free from impact by nearby equipment or structures? Y N U N/A
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
9. Do attached lines have adequate flexibility to avoid damage? Y N U N/A
10. Based on the above seismic interaction evaluations, is equipment free
of potentially adverse seismic interaction effects? Y N U

² Enter the equipment class name from Appendix B: Classes of Equipment.

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 3 of 4

Status: Y N U

Seismic Walkdown Checklist (SWC) SWC- 77


Equipment ID No. FP-456 Equip. Class³ 8, MOTOR-OPERATED AND SOLENOID-OPERATED VALVES

Equipment Description FIRE HOSE CABINET FP-10D 2 1/2 " AUX HOSE CONNECTION VALVE

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

Comments (Additional pages may be added as necessary)

Evaluated by: Alex Smerch  Date: 8/18/2012

John Kao  8/18/2012

³ Enter the equipment class name from Appendix B: Classes of Equipment.

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 4 of 4

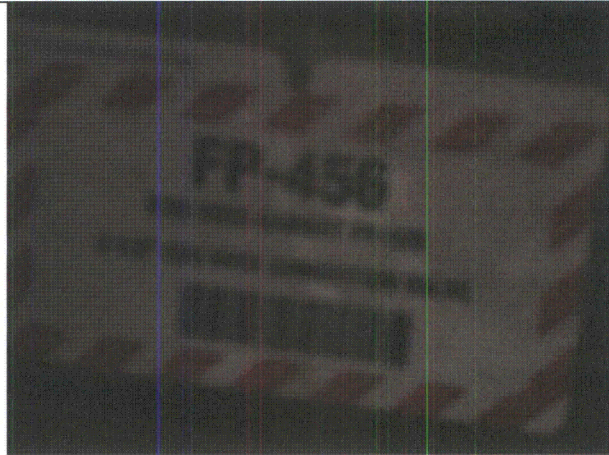
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Seismic Walkdown Checklist (SWC) SWC- 77

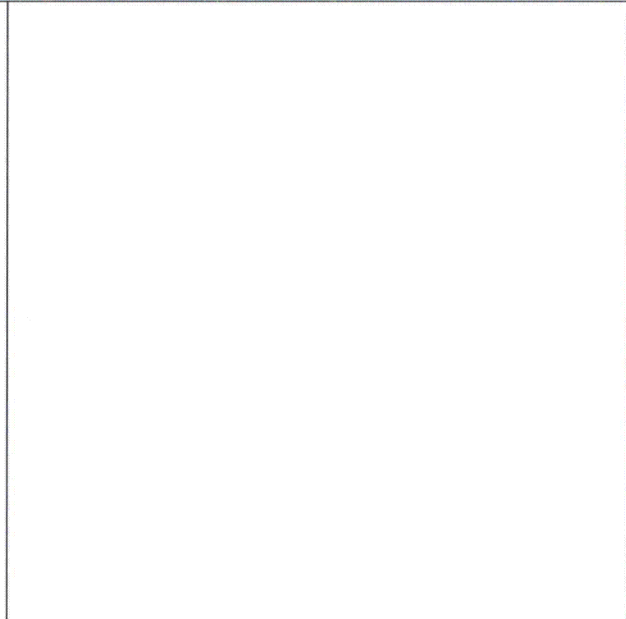
Equipment ID No. FP-456 Equip. Class⁴ 8, MOTOR-OPERATED AND SOLENOID-OPERATED VALVES

Equipment Description FIRE HOSE CABINET FP-10D 2 1/2 " AUX HOSE CONNECTION VALVE

Photographs



Note: *Equipment Tag.*



Note:

⁴ Enter the equipment class name from Appendix B: Classes of Equipment.

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 1 of 4

Status: Y N U

Seismic Walkdown Checklist (SWC) SWC- 78

Equipment ID No. FW-164 Equip. Class¹ 8, MOTOR-OPERATED AND SOLENOID-OPERATED VALVES

Equipment Description STEAM GENERATOR RC-2A AUXILIARY FEEDWATER INLET CHECK VALVE

Location: Bldg. CONT Floor El. 1048' Room, Area CONT, 20W'BB-7N'II

Manufacturer, Model, Etc. (optional but recommended) _____

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

2. Is the anchorage free of bent, broken, missing or loose hardware? Y N U N/A

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

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

¹ Enter the equipment class name from Appendix B: Classes of Equipment.

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 2 of 4

Status: Y N U

Seismic Walkdown Checklist (SWC) SWC- 78

Equipment ID No. FW-164 Equip. Class² 8, MOTOR-OPERATED AND SOLENOID-OPERATED VALVES

Equipment Description STEAM GENERATOR RC-2A AUXILIARY FEEDWATER INLET CHECK VALVE

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
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y N U
N/A In-line valve.

Interaction Effects

7. Are soft targets free from impact by nearby equipment or structures? Y N U N/A
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
9. Do attached lines have adequate flexibility to avoid damage? Y N U N/A
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y N U

² Enter the equipment class name from Appendix B: Classes of Equipment.

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 3 of 4

Status: Y N U

Seismic Walkdown Checklist (SWC) SWC- 78

Equipment ID No. FW-164 Equip. Class³ 8, MOTOR-OPERATED AND SOLENOID-OPERATED VALVES

Equipment Description STEAM GENERATOR RC-2A AUXILIARY FEEDWATER INLET CHECK VALVE

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

Comments (Additional pages may be added as necessary)

Evaluated by: Alex Smerch *Alex Smerch* Date: 8/27/12

Kevin Bessell *Kevin Bessell* 8/27/12

³ Enter the equipment class name from Appendix B: Classes of Equipment.

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 4 of 4

Status: Y N U

Seismic Walkdown Checklist (SWC) SWC- 78

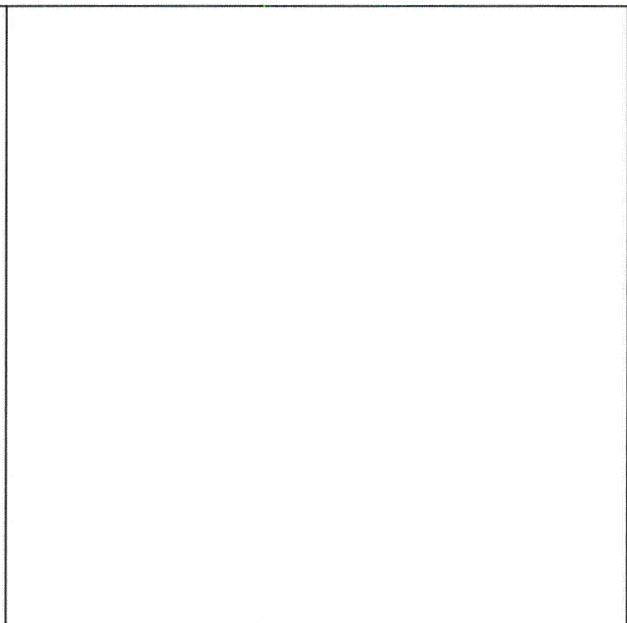
Equipment ID No. FW-164 Equip. Class⁴ 8, MOTOR-OPERATED AND SOLENOID-OPERATED VALVES

Equipment Description STEAM GENERATOR RC-2A AUXILIARY FEEDWATER INLET CHECK VALVE

Photographs



Note: *Equipment.*



Note:

⁴ Enter the equipment class name from Appendix B: Classes of Equipment.

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 1 of 4

Status: Y N U

Seismic Walkdown Checklist (SWC) SWC- 79

Equipment ID No. FW-171 Equip. Class¹ 8, MOTOR-OPERATED AND SOLENOID-OPERATED VALVES

Equipment Description MOTOR-DRIVEN AUX FEED PUMP FW-6 DISCHARGE VALVE

Location: Bldg. AUX Floor El. 997' Room, Area 19, 7W'C-16N'3A

Manufacturer, Model, Etc. (optional but recommended) _____

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

2. Is the anchorage free of bent, broken, missing or loose hardware? Y N U N/A

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

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

¹ Enter the equipment class name from Appendix B: Classes of Equipment.

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 2 of 4

Status: Y N U

Seismic Walkdown Checklist (SWC) SWC- 79

Equipment ID No. FW-171 Equip. Class² 8. MOTOR-OPERATED AND SOLENOID-OPERATED VALVES

Equipment Description MOTOR-DRIVEN AUX FEED PUMP FW-6 DISCHARGE VALVE

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
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y N U
N/A

Interaction Effects

7. Are soft targets free from impact by nearby equipment or structures? Y N U N/A
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
Light Fixture was examined overhead. It was determined after further discussion that the looselightbulbs falling would not damage component.
9. Do attached lines have adequate flexibility to avoid damage? Y N U N/A
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y N U
Nearby line has close supports and would not displace enough between supports in seismic event to contact component.

² Enter the equipment class name from Appendix B: Classes of Equipment.

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 3 of 4

Status: Y N U

Seismic Walkdown Checklist (SWC) SWC- 79

Equipment ID No. FW-171 Equip. Class³ 8. MOTOR-OPERATED AND SOLENOID-OPERATED VALVES

Equipment Description MOTOR-DRIVEN AUX FEED PUMP FW-6 DISCHARGE VALVE

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

Comments (Additional pages may be added as necessary)

Evaluated by: Alex Smerch  Date: 8/13/12

John Kao  8/13/12

³ Enter the equipment class name from Appendix B: Classes of Equipment.

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 4 of 4

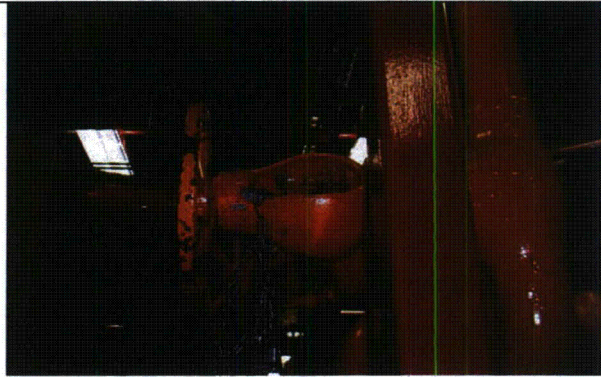
Status: Y N U

Seismic Walkdown Checklist (SWC) SWC- 79

Equipment ID No. FW-171 Equip. Class⁴ 8, MOTOR-OPERATED AND SOLENOID-OPERATED VALVES

Equipment Description MOTOR-DRIVEN AUX FEED PUMP FW-6 DISCHARGE VALVE

Photographs



Note: *Equipment*

Note:

⁴ Enter the equipment class name from Appendix B: Classes of Equipment.

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 1 of 4

Status: Y N U

Seismic Walkdown Checklist (SWC) SWC- 80

Equipment ID No. FW-172 Equip. Class¹ 8, MOTOR-OPERATED AND SOLENOID-OPERATED VALVES

Equipment Description TURB-DRIVEN AUX FEED PUMP FW-10 DISCHARGE VALVE

Location: Bldg. AUX Floor El. 997' Room, Area 19, 7W/C-7N'3A

Manufacturer, Model, Etc. (optional but recommended) _____

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

2. Is the anchorage free of bent, broken, missing or loose hardware? Y N U N/A

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

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

¹ Enter the equipment class name from Appendix B: Classes of Equipment.

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 2 of 4

Status: Y N U

Seismic Walkdown Checklist (SWC) SWC- 80

Equipment ID No. FW-172 Equip. Class² 8, MOTOR-OPERATED AND SOLENOID-OPERATED VALVES

Equipment Description TURB-DRIVEN AUX FEED PUMP FW-10 DISCHARGE VALVE

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

6. Based on the above anchorage evaluations, is the anchorage free of
potentially adverse seismic conditions? Y N U
N/A Inline Valve

Interaction Effects

7. Are soft targets free from impact by nearby equipment or structures?
Valve is not a soft target. Y N U N/A

8. Are overhead equipment, distribution systems, ceiling tiles and lighting,
and masonry block walls not likely to collapse onto the equipment?
There is a protective cage surrounding the item. Y N U N/A

9. Do attached lines have adequate flexibility to avoid damage?
There are multiple elbows for attached line showing flexibility. Y N U N/A

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

² Enter the equipment class name from Appendix B: Classes of Equipment.

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 3 of 4

Status: Y N U

Seismic Walkdown Checklist (SWC) SWC- 80

Equipment ID No. FW-172 Equip. Class³ 8, MOTOR-OPERATED AND SOLENOID-OPERATED VALVES

Equipment Description TURB-DRIVEN AUX FEED PUMP FW-10 DISCHARGE VALVE

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

There is a chain attached. This item is not seen as a credible source as it does not have much mass.

Comments (Additional pages may be added as necessary)

Evaluated by: Alex Smerch *Alex Smerch* Date: 8/13/12

John Kao *John Kao* 8/13/12

³ Enter the equipment class name from Appendix B: Classes of Equipment.

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 4 of 4

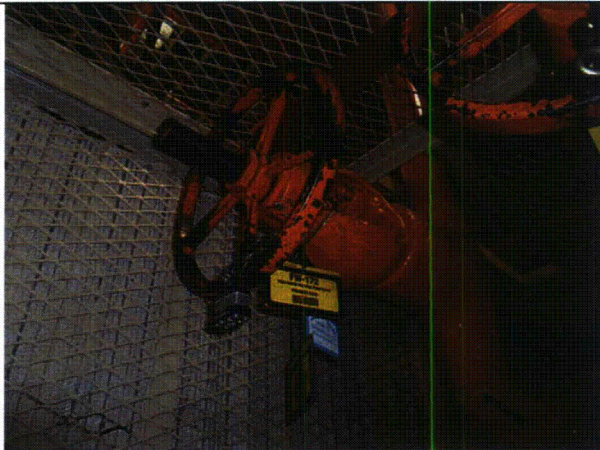
Status: Y N U

Seismic Walkdown Checklist (SWC) SWC- 80

Equipment ID No. FW-172 Equip. Class⁴ 8. MOTOR-OPERATED AND SOLENOID-OPERATED VALVES

Equipment Description TURB-DRIVEN AUX FEED PUMP FW-10 DISCHARGE VALVE

Photographs



Note: *Equipment.*

Note:

⁴ Enter the equipment class name from Appendix B: Classes of Equipment.

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 1 of 5

Status: Y N U

Seismic Walkdown Checklist (SWC) SWC- 81

Equipment ID No. HCV-1040 Equip. Class: 7, PNEUMATIC-OPERATED VALVES

Equipment Description MAIN STEAM ATMOSPHERIC DUMP VALVE

Location: Bldg. AUX Floor El. 1044' Room, Area 81, 10W'D-10S'5B

Manufacturer, Model, Etc. (optional but recommended) _____

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

2. Is the anchorage free of bent, broken, missing or loose hardware? Y N U N/A

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

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

¹ Enter the equipment class name from Appendix B: Classes of Equipment.

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 2 of 5

Status: Y N U

Seismic Walkdown Checklist (SWC) SWC- 81

Equipment ID No. HCV-1040 Equip. Class² 7, PNEUMATIC-OPERATED VALVES

Equipment Description MAIN STEAM ATMOSPHERIC DUMP VALVE

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
Requires plant documentation to verify. Snubber strut tag #'s: MSS-45A, MSS-45B. See sketch in photos section. Licensing Basis Evaluation is required.
6. Based on the above anchorage evaluations, is the anchorage free of
potentially adverse seismic conditions? Y N U
-

Interaction Effects

7. Are soft targets free from impact by nearby equipment or structures? Y N U N/A
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
Lighting overhead looked at but was examined to be sturdily secured.
9. Do attached lines have adequate flexibility to avoid damage? Y N U N/A
10. Based on the above seismic interaction evaluations, is equipment free
of potentially adverse seismic interaction effects? Y N U

² Enter the equipment class name from Appendix B: Classes of Equipment.

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 3 of 5

Status: Y N U

Seismic Walkdown Checklist (SWC) SWC- 81

Equipment ID No. HCV-1040 Equip. Class³ 7, PNEUMATIC-OPERATED VALVES

Equipment Description MAIN STEAM ATMOSPHERIC DUMP VALVE

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

Comments (Additional pages may be added as necessary)

Evaluated by: Alex Smerch  Date: 8/18/2012

John Kao  8/18/2012

³ Enter the equipment class name from Appendix B: Classes of Equipment.

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 4 of 5

Status: Y N U

Seismic Walkdown Checklist (SWC) SWC- 81

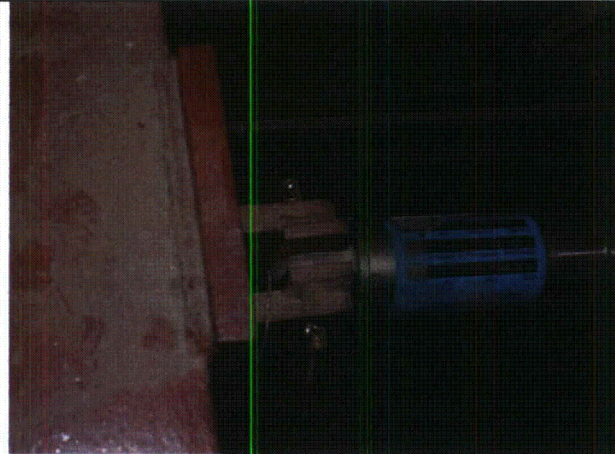
Equipment ID No. HCV-1040 Equip. Class⁴ 7, PNEUMATIC-OPERATED VALVES

Equipment Description MAIN STEAM ATMOSPHERIC DUMP VALVE

Photographs



Note: Overview of equipment.



Note: Support plate, I-beam, and strut

⁴ Enter the equipment class name from Appendix B: Classes of Equipment.

SEISMIC WALKDOWN CHECKLIST FORM

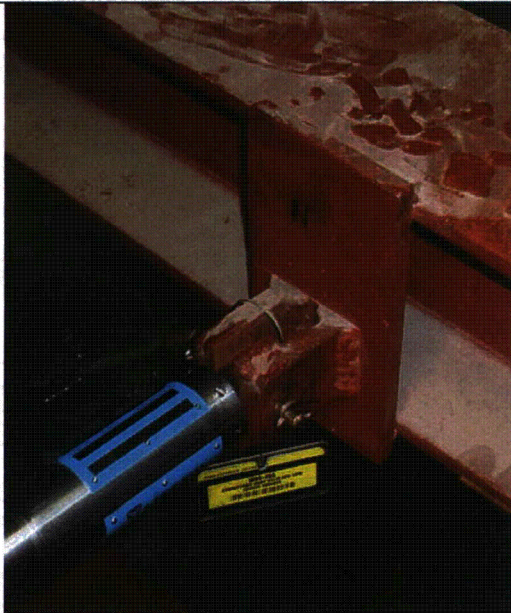
Sheet 5 of 5

Status: Y N U

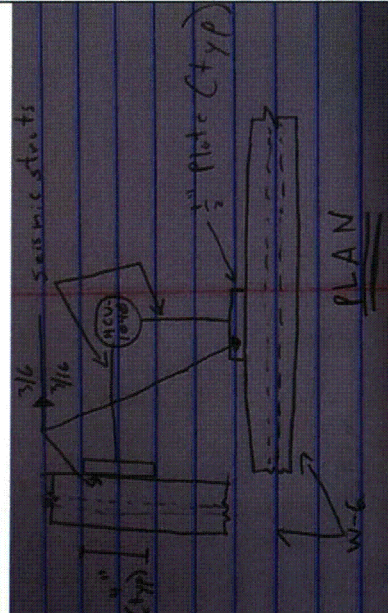
Seismic Walkdown Checklist (SWC) SWC- 81

Equipment ID No. HCV-1040 Equip. Class⁵ 7, PNEUMATIC-OPERATED VALVES

Equipment Description MAIN STEAM ATMOSPHERIC DUMP VALVE



Note: Equipment strut support anchorage.
(Welded to I-Beam)



Note: Sketch of seismic supports.

⁵ Enter the equipment class name from Appendix B: Classes of Equipment.

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 1 of 4

Status: Y N U

Seismic Walkdown Checklist (SWC) SWC- 82

Equipment ID No. HCV-2917 Equip. Class¹ 7, PNEUMATIC-OPERATED VALVES

Equipment Description HPSI PUMP 2C SUCTION ISOLATION VALVE

Location: Bldg. AUX Floor El. 979' Room, Area 21, 43W'T-32N'6E

Manufacturer, Model, Etc. (optional but recommended) _____

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

2. Is the anchorage free of bent, broken, missing or loose hardware? Y N U N/A

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

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

¹ Enter the equipment class name from Appendix B: Classes of Equipment.

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 2 of 4

Status: Y N U

Seismic Walkdown Checklist (SWC) SWC- 82

Equipment ID No. HCV-2917 Equip. Class² 7, PNEUMATIC-OPERATED VALVES

Equipment Description HPSI PUMP 2C SUCTION ISOLATION VALVE

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

Interaction Effects

7. Are soft targets free from impact by nearby equipment or structures? Y N U N/A
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
9. Do attached lines have adequate flexibility to avoid damage? Y N U N/A
10. Based on the above seismic interaction evaluations, is equipment free
of potentially adverse seismic interaction effects? Y N U

² Enter the equipment class name from Appendix B: Classes of Equipment.

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 3 of 4

Status: Y N U

Seismic Walkdown Checklist (SWC) SWC- 82

Equipment ID No. HCV-2917 Equip. Class³ 7, PNEUMATIC-OPERATED VALVES

Equipment Description HPSI PUMP 2C SUCTION ISOLATION VALVE

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

Comments (Additional pages may be added as necessary)

Evaluated by: John Kao *John Kao* Date: 8/23/2012

Alex Smerch *Alex Smerch* 8/23/2012

³ Enter the equipment class name from Appendix B: Classes of Equipment.

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 4 of 4

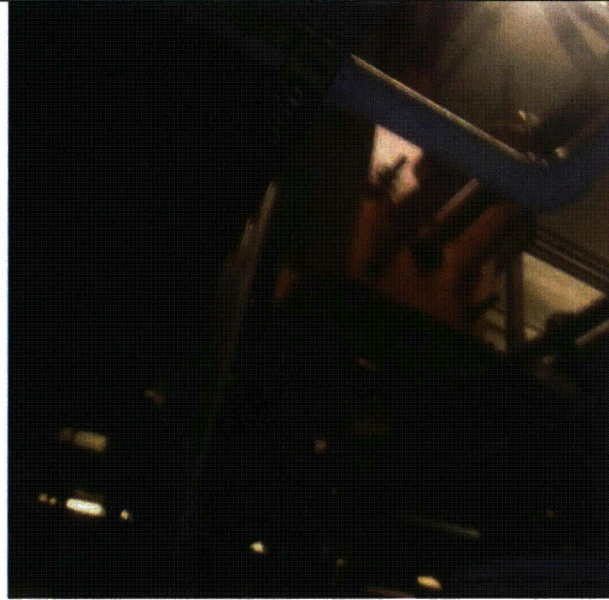
Status: Y N U

Seismic Walkdown Checklist (SWC) SWC- 82

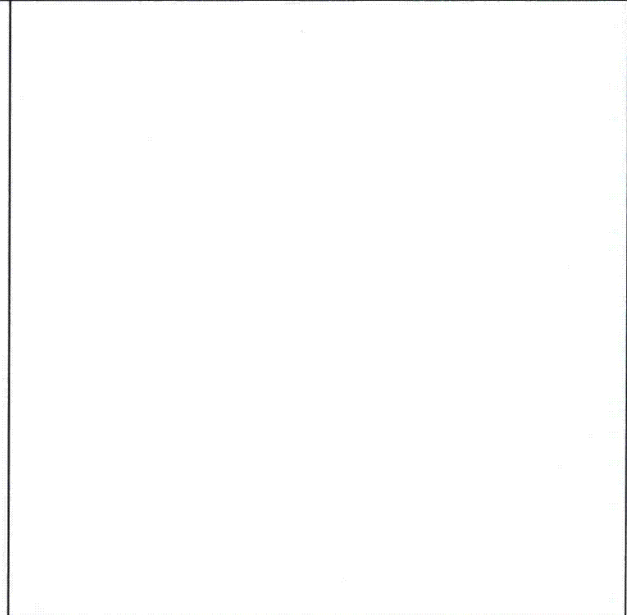
Equipment ID No. HCV-2917 Equip. Class⁴ 7, PNEUMATIC-OPERATED VALVES

Equipment Description HPSI PUMP 2C SUCTION ISOLATION VALVE

Photographs



Note: *Equipment.*



Note:

⁴ Enter the equipment class name from Appendix B: Classes of Equipment.

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 1 of 5

Status: Y N U

Seismic Walkdown Checklist (SWC) SWC- 83

Equipment ID No. HCV-2918 Equip. Class¹ 7, PNEUMATIC-OPERATED VALVES

Equipment Description HPSI PUMP 2C DISCHARGE ISOLATION VALVE

Location: Bldg. AUX Floor El. 979' Room, Area 21, 46W'T-27N'6E

Manufacturer, Model, Etc. (optional but recommended) _____

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

2. Is the anchorage free of bent, broken, missing or loose hardware? Y N U N/A

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

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

¹ Enter the equipment class name from Appendix B: Classes of Equipment.

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 2 of 5

Status: Y N U

Seismic Walkdown Checklist (SWC) SWC- 83

Equipment ID No. HCV-2918 Equip. Class² 7, PNEUMATIC-OPERATED VALVES

Equipment Description HPSI PUMP 2C DISCHARGE ISOLATION VALVE

5. Is the anchorage configuration consistent with plant documentation? Y N U N/A
(Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)
Needs plant documentation to confirm. See sketch in photos section below. Licensing Basis Evaluation is required.
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y N U

Interaction Effects

7. Are soft targets free from impact by nearby equipment or structures? Y N U N/A
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
9. Do attached lines have adequate flexibility to avoid damage? Y N U N/A
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y N U

² Enter the equipment class name from Appendix B: Classes of Equipment.

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 3 of 5

Status: Y N U

Seismic Walkdown Checklist (SWC) SWC- 83

Equipment ID No. HCV-2918 Equip. Class³ 7, PNEUMATIC-OPERATED VALVES

Equipment Description HPSI PUMP 2C DISCHARGE ISOLATION VALVE

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

Comments (Additional pages may be added as necessary)

Evaluated by: John Kao Date: 8/23/12

Alex Smerch 8/23/12

³ Enter the equipment class name from Appendix B: Classes of Equipment.

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 4 of 5

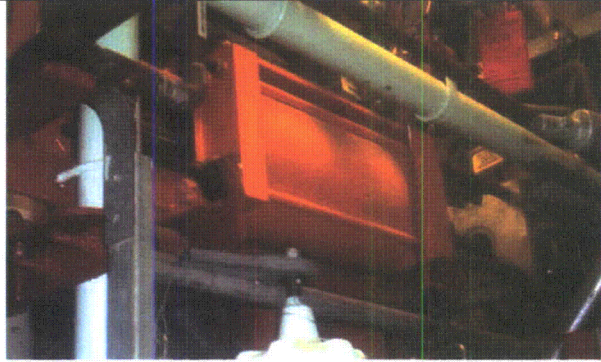
Status: Y N U

Seismic Walkdown Checklist (SWC) SWC- 83

Equipment ID No. HCV-2918 Equip. Class⁴ 7, PNEUMATIC-OPERATED VALVES

Equipment Description HPSI PUMP 2C DISCHARGE ISOLATION VALVE

Photographs



Note: *Equipment.*



Note: *View of anchorage.*

⁴ Enter the equipment class name from Appendix B: Classes of Equipment.

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 5 of 5

Status: Y N U

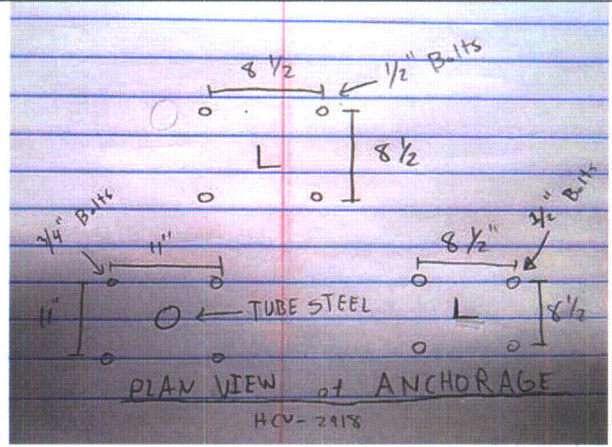
Seismic Walkdown Checklist (SWC) SWC- 83

Equipment ID No. HCV-2918 Equip. Class⁵ 7, PNEUMATIC-OPERATED VALVES

Equipment Description HPSI PUMP 2C DISCHARGE ISOLATION VALVE



Note: View of anchorage



Note: Sketch of anchorage.

⁵ Enter the equipment class name from Appendix B: Classes of Equipment.

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 1 of 5

Status: Y N U

Seismic Walkdown Checklist (SWC) SWC- 84

Equipment ID No. HCV-2947 Equip. Class¹ 7, PNEUMATIC-OPERATED VALVES

Equipment Description LPSI PUMP SI-1A SUCTION VALVE

Location: Bldg. AUX Floor El. 981' Room, Area 21, 9E'U-7N'6C

Manufacturer, Model, Etc. (optional but recommended) _____

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

2. Is the anchorage free of bent, broken, missing or loose hardware? Y N U N/A

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

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

¹ Enter the equipment class name from Appendix B: Classes of Equipment.

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 2 of 5

Status: Y N U

Seismic Walkdown Checklist (SWC) SWC- 84

Equipment ID No. HCV-2947 Equip. Class² 7, PNEUMATIC-OPERATED VALVES

Equipment Description LPSI PUMP SI-1A SUCTION VALVE

5. Is the anchorage configuration consistent with plant documentation? Y N U N/A
(Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)
Did not find the valve support drawings. A sketch showing the anchorage configuration is provided in the photos section below. Licensing Basis Evaluation is required.
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y N U
Based on the missing documentation (see item #5 above).

Interaction Effects

7. Are soft targets free from impact by nearby equipment or structures? Y N U N/A
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
9. Do attached lines have adequate flexibility to avoid damage? Y N U N/A
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y N U

² Enter the equipment class name from Appendix B: Classes of Equipment.

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 3 of 5

Status: Y N U

Seismic Walkdown Checklist (SWC) SWC- 84

Equipment ID No. HCV-2947 Equip. Class³ 7, PNEUMATIC-OPERATED VALVES

Equipment Description LPSI PUMP SI-1A SUCTION VALVE

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

Comments (Additional pages may be added as necessary)

Evaluated by: John Kao *John Kao* Date: 8/23/2012

Alex Smerch *Alex Smerch* 8/23/2012

³ Enter the equipment class name from Appendix B: Classes of Equipment.

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 4 of 5

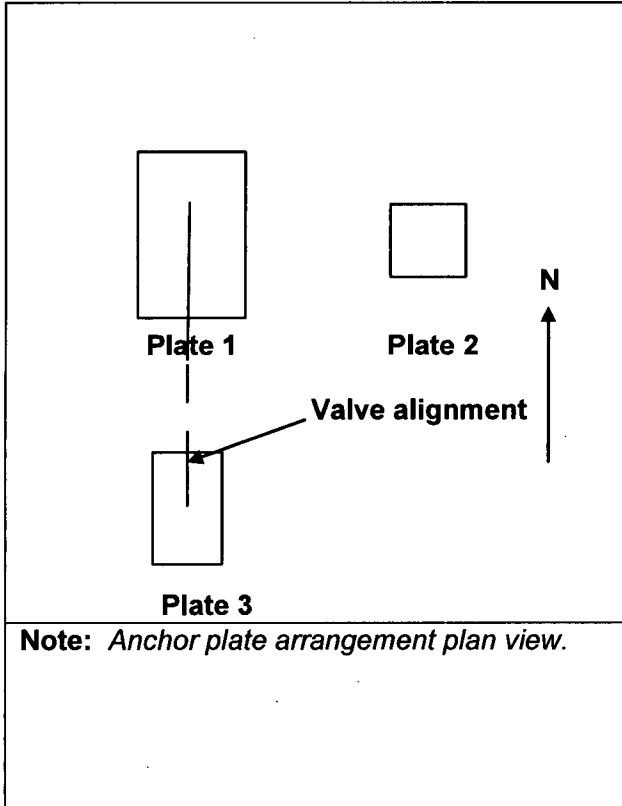
Status: Y N U

Seismic Walkdown Checklist (SWC) SWC- 84

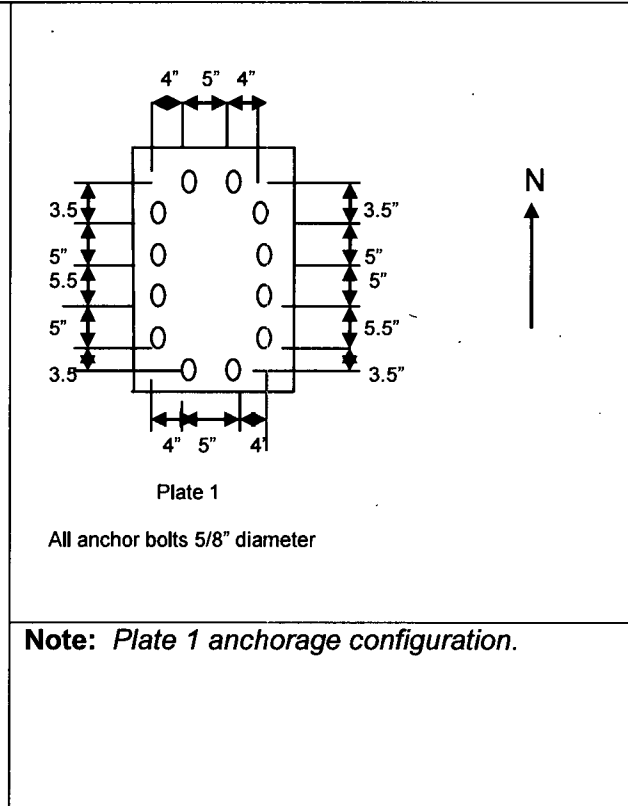
Equipment ID No. HCV-2947 Equip. Class⁴ 7, PNEUMATIC-OPERATED VALVES

Equipment Description LPSI PUMP SI-1A SUCTION VALVE

Photographs



Note: Anchor plate arrangement plan view.



All anchor bolts 5/8" diameter

Note: Plate 1 anchorage configuration.

⁴ Enter the equipment class name from Appendix B: Classes of Equipment.

SEISMIC WALKDOWN CHECKLIST FORM

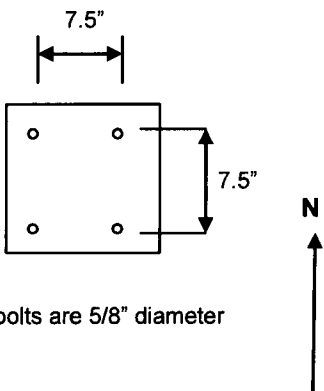
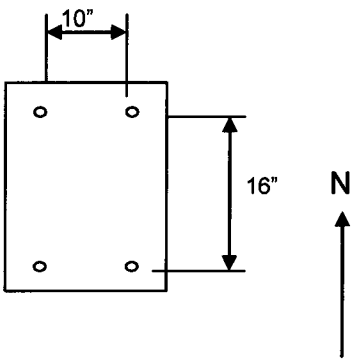
Sheet 5 of 5

Status: Y N U

Seismic Walkdown Checklist (SWC) SWC- 84

Equipment ID No. HCV-2947 Equip. Class⁵ 7, PNEUMATIC-OPERATED VALVES

Equipment Description LPSI PUMP SI-1A SUCTION VALVE

 <p>All anchor bolts are 5/8" diameter</p> <p><u>Plate 2</u></p>	 <p>All anchor bolts are 3/4" diameter</p> <p><u>Plate 3</u></p>
<p>Note: <i>Plate 2 anchorage configuration.</i></p>	<p>Note: <i>Plate 3 anchorage configuration.</i></p>

⁵ Enter the equipment class name from Appendix B: Classes of Equipment.

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 1 of 5

Status: Y N U

Seismic Walkdown Checklist (SWC) SWC- 85

Equipment ID No. HCV-2948 Equip. Class¹ 7, PNEUMATIC-OPERATED VALVES

Equipment Description LPSI PUMP SI-1A DISCHARGE VALVE

Location: Bldg. AUX Floor El. 980' Room, Area 21, 42W'T-4N'6E

Manufacturer, Model, Etc. (optional but recommended) _____

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

2. Is the anchorage free of bent, broken, missing or loose hardware? Y N U N/A

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

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

¹ Enter the equipment class name from Appendix B: Classes of Equipment.

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 2 of 5

Status: Y N U

Seismic Walkdown Checklist (SWC) SWC- 85

Equipment ID No. HCV-2948 Equip. Class² 7, PNEUMATIC-OPERATED VALVES

Equipment Description LPSI PUMP SI-1A DISCHARGE VALVE

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.)
*Needs to be confirmed with plant documentation. See sketch in photos
section. Licensing Basis Evaluation is required.* Y N U N/A
6. Based on the above anchorage evaluations, is the anchorage free of
potentially adverse seismic conditions? Y N U

Interaction Effects

7. Are soft targets free from impact by nearby equipment or structures? Y N U N/A
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
9. Do attached lines have adequate flexibility to avoid damage? Y N U N/A
10. Based on the above seismic interaction evaluations, is equipment free
of potentially adverse seismic interaction effects? Y N U

² Enter the equipment class name from Appendix B: Classes of Equipment.

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 3 of 5

Status: Y N U

Seismic Walkdown Checklist (SWC) SWC- 85

Equipment ID No. HCV-2948 Equip. Class³ 7, PNEUMATIC-OPERATED VALVES

Equipment Description LPSI PUMP SI-1A DISCHARGE VALVE

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

Comments (Additional pages may be added as necessary)

Evaluated by: Alex Smerch *Alex Smerch* Date: 8/23/12

John Kao *John Kao* 8/23/12

³ Enter the equipment class name from Appendix B: Classes of Equipment.

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 4 of 5

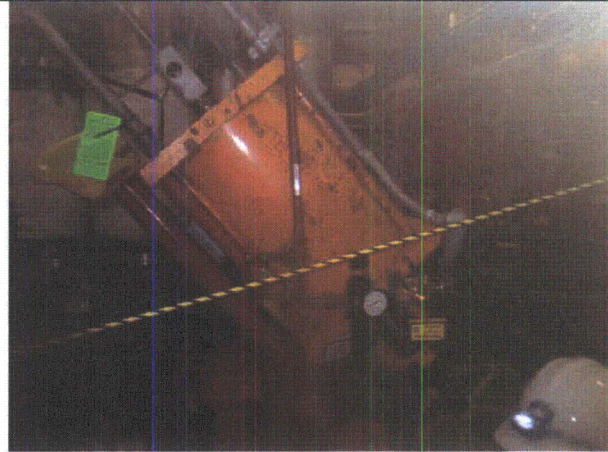
Status: Y N U

Seismic Walkdown Checklist (SWC) SWC- 85

Equipment ID No. HCV-2948 Equip. Class⁴ 7, PNEUMATIC-OPERATED VALVES

Equipment Description LPSI PUMP SI-1A DISCHARGE VALVE

Photographs



Note: *Equipment.*



Note: *Plan view of anchorage.*

⁴ Enter the equipment class name from Appendix B: Classes of Equipment.

SEISMIC WALKDOWN CHECKLIST FORM

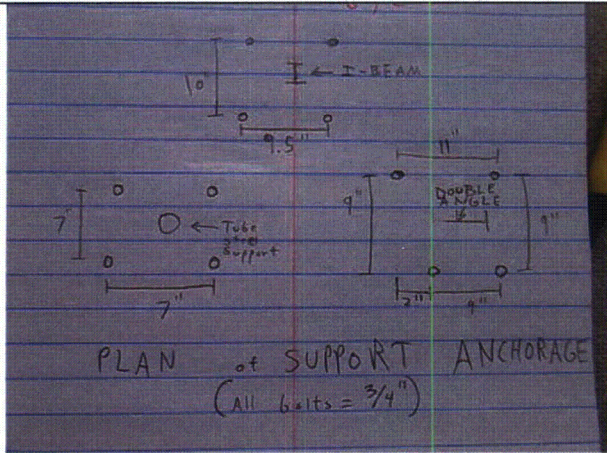
Sheet 5 of 5

Status: Y N U

Seismic Walkdown Checklist (SWC) SWC- 85

Equipment ID No. HCV-2948 Equip. Class⁵ 7, PNEUMATIC-OPERATED VALVES

Equipment Description LPSI PUMP SI-1A DISCHARGE VALVE



Note: Sketch of anchorage.

Note:

⁵ Enter the equipment class name from Appendix B: Classes of Equipment.

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 1 of 5

Status: Y N U

Seismic Walkdown Checklist (SWC) SWC- 86

Equipment ID No. HCV-305 Equip. Class¹ 7, PNEUMATIC-OPERATED VALVES

Equipment Description HPSI PUMP SI-2A/2C DISCHARGE CROSSCONNECT VALVE

Location: Bldg. AUX Floor El. 980' Room, Area 21, 39W'T-16N'6E

Manufacturer, Model, Etc. (optional but recommended) _____

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

2. Is the anchorage free of bent, broken, missing or loose hardware? Y N U N/A

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

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

¹ Enter the equipment class name from Appendix B: Classes of Equipment.

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 2 of 5

Status: Y N U

Seismic Walkdown Checklist (SWC) SWC- 86

Equipment ID No. HCV-305 Equip. Class² 7, PNEUMATIC-OPERATED VALVES

Equipment Description HPSI PUMP SI-2A/2C DISCHARGE CROSSCONNECT VALVE

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.)
Needs to be confirmed with plant documentation. See sketch in photos section. Licensing Basis Evaluation is required. Y N U N/A
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y N U
-

Interaction Effects

7. Are soft targets free from impact by nearby equipment or structures? Y N U N/A
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
9. Do attached lines have adequate flexibility to avoid damage? Y N U N/A
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y N U

² Enter the equipment class name from Appendix B: Classes of Equipment.

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 3 of 5

Status: Y N U

Seismic Walkdown Checklist (SWC) SWC- 86

Equipment ID No. HCV-305 Equip. Class³ 7, PNEUMATIC-OPERATED VALVES

Equipment Description HPSI PUMP SI-2A/2C DISCHARGE CROSSCONNECT VALVE

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

Comments (Additional pages may be added as necessary)

Evaluated by: Alex Smerch  Date: 8/23/12

John Kao  8/23/12

³ Enter the equipment class name from Appendix B: Classes of Equipment.

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 4 of 5

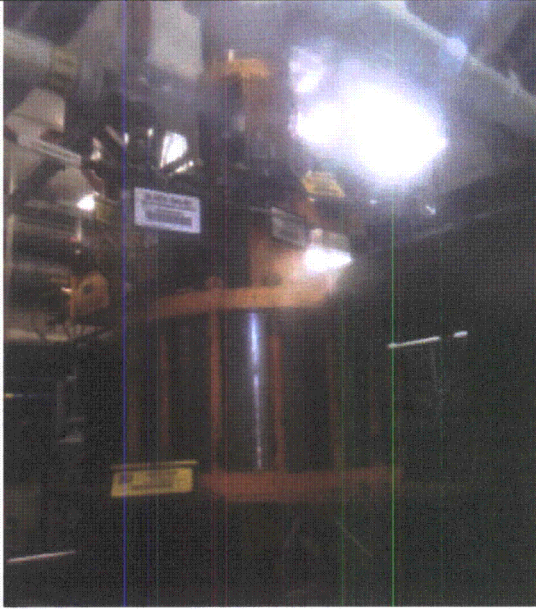
Status: Y N U

Seismic Walkdown Checklist (SWC) SWC- 86

Equipment ID No. HCV-305 Equip. Class⁴ 7, PNEUMATIC-OPERATED VALVES

Equipment Description HPSI PUMP SI-2A/2C DISCHARGE CROSSCONNECT VALVE

Photographs



Note: *Equipment*



Note: *View of base and anchorage.*

⁴ Enter the equipment class name from Appendix B: Classes of Equipment.

SEISMIC WALKDOWN CHECKLIST FORM

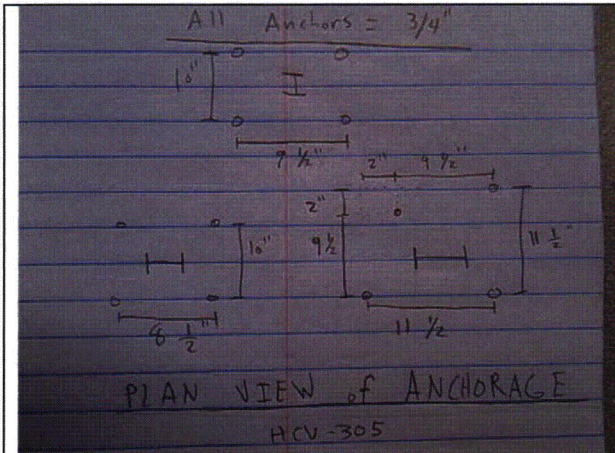
Sheet 5 of 5

Status: Y N U

Seismic Walkdown Checklist (SWC) SWC- 86

Equipment ID No. HCV-305 Equip. Class⁵ 7, PNEUMATIC-OPERATED VALVES

Equipment Description HPSI PUMP SI-2A/2C DISCHARGE CROSSCONNECT VALVE



Note: Anchorage Sketch

Note:

⁵ Enter the equipment class name from Appendix B: Classes of Equipment.

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 1 of 4

Status: Y N U

Seismic Walkdown Checklist (SWC) SWC- 87

Equipment ID No. IA-12 Equip. Class¹ 21, TANKS AND HEAT EXCHANGERS

Equipment Description HCV-240 INSTRUMENT AIR AIR ACCUMULATOR

Location: Bldg. CONT Floor El. 1045' Room, Area CONT, 18W/DD-12N/II

Manufacturer, Model, Etc. (optional but recommended) _____

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

2. Is the anchorage free of bent, broken, missing or loose hardware? Y N U N/A

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y N U N/A
Mild corrosion noted and discussed. Not of concern.

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

¹ Enter the equipment class name from Appendix B: Classes of Equipment.

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 2 of 4

Status: Y N U

Seismic Walkdown Checklist (SWC) SWC- 87

Equipment ID No. IA-12 Equip. Class² 21, TANKS AND HEAT EXCHANGERS

Equipment Description HCV-240 INSTRUMENT AIR AIR ACCUMULATOR

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

Interaction Effects

7. Are soft targets free from impact by nearby equipment or structures? Y N U N/A
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
*The accumulator is touching insulation for a nearby pipe, though there
appears to be a 3"-6" gap between the accumulator and the OD of the
nearby pipe. There will be no credible interaction effects from seismic
activity because the insulation is not a rigid component.*
9. Do attached lines have adequate flexibility to avoid damage? Y N U N/A
10. Based on the above seismic interaction evaluations, is equipment free
of potentially adverse seismic interaction effects? Y N U

² Enter the equipment class name from Appendix B: Classes of Equipment.

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 3 of 4

Status: Y N U

Seismic Walkdown Checklist (SWC) SWC- 87

Equipment ID No. IA-12 Equip. Class³ 21, TANKS AND HEAT EXCHANGERS

Equipment Description HCV-240 INSTRUMENT AIR AIR ACCUMULATOR

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

Comments (Additional pages may be added as necessary)

Evaluated by: Alex Smerch *Alex Smerch* Date: 8/27/12

Kevin Bessell *Kevin Bessell* 8/27/12

³ Enter the equipment class name from Appendix B: Classes of Equipment.

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 4 of 4

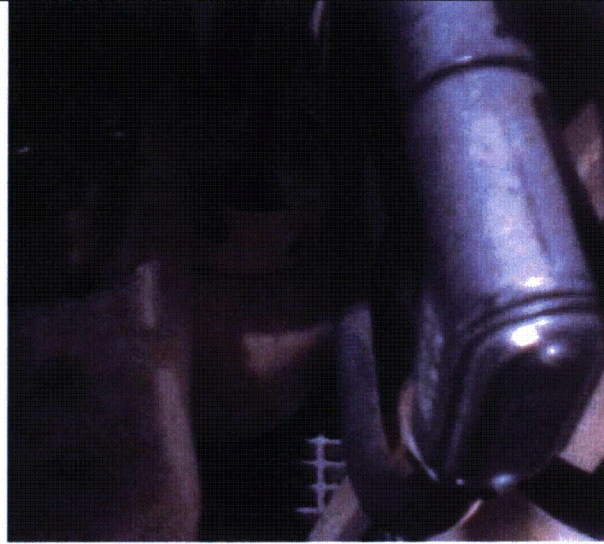
Status: Y N U

Seismic Walkdown Checklist (SWC) SWC- 87

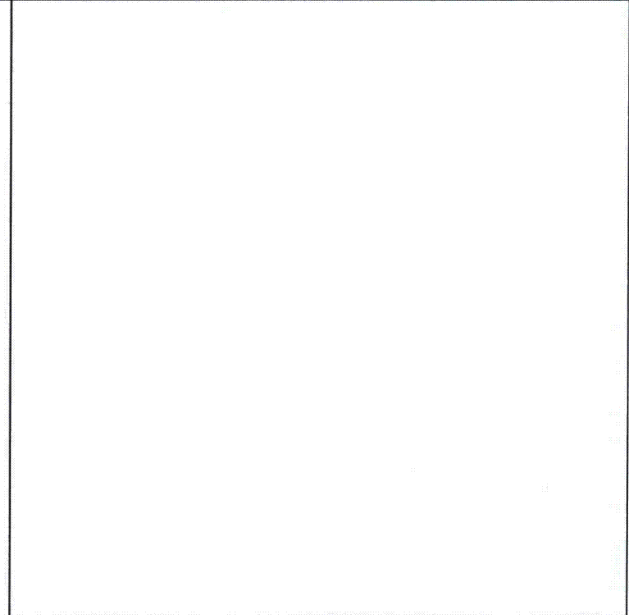
Equipment ID No. IA-12 Equip. Class⁴ 21, TANKS AND HEAT EXCHANGERS

Equipment Description HCV-240 INSTRUMENT AIR AIR ACCUMULATOR

Photographs



Note: *Equipment (canister).*



Note:

⁴ Enter the equipment class name from Appendix B: Classes of Equipment.

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 1 of 4

Status: Y N U

Seismic Walkdown Checklist (SWC) SWC- 88

Equipment ID No. RM-051 Equip. Class¹ 18, INSTRUMENT RACKS

Equipment Description CONTAINMENT NOBLE GAS RADIATION MONITOR REMOTE RATEMETER

Location: Bldg. AUX Floor El. 1036' Room, Area 77, AI-33A

Manufacturer, Model, Etc. (optional but recommended) _____

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

2. Is the anchorage free of bent, broken, missing or loose hardware? Y N U N/A

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

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

¹ Enter the equipment class name from Appendix B: Classes of Equipment.

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 2 of 4

Status: Y N U

Seismic Walkdown Checklist (SWC) SWC- 88

Equipment ID No. RM-051 Equip. Class² 18, INSTRUMENT RACKS

Equipment Description CONTAINMENT NOBLE GAS RADIATION MONITOR REMOTE RATEMETER

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.)
*The anchorage configuration is consistent with drawing 703816-001,
Rev. 0 (File# 42973)* Y N U N/A
6. Based on the above anchorage evaluations, is the anchorage free of
potentially adverse seismic conditions? Y N U
-

Interaction Effects

7. Are soft targets free from impact by nearby equipment or structures? Y N U N/A
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
9. Do attached lines have adequate flexibility to avoid damage? Y N U N/A
10. Based on the above seismic interaction evaluations, is equipment free
of potentially adverse seismic interaction effects? Y N U

² Enter the equipment class name from Appendix B: Classes of Equipment.

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 3 of 4

Status: Y N U

Seismic Walkdown Checklist (SWC) SWC- 88

Equipment ID No. RM-051 Equip. Class³ 18, INSTRUMENT RACKS

Equipment Description CONTAINMENT NOBLE GAS RADIATION MONITOR REMOTE RATEMETER

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

Comments (Additional pages may be added as necessary)

Evaluated by: John Kao

John Kao

Date: 8/18/2012

Alex Smerch

Alex Smerch

8/18/2012

³ Enter the equipment class name from Appendix B: Classes of Equipment.

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 4 of 4

Status: Y N U

Seismic Walkdown Checklist (SWC) SWC- 88

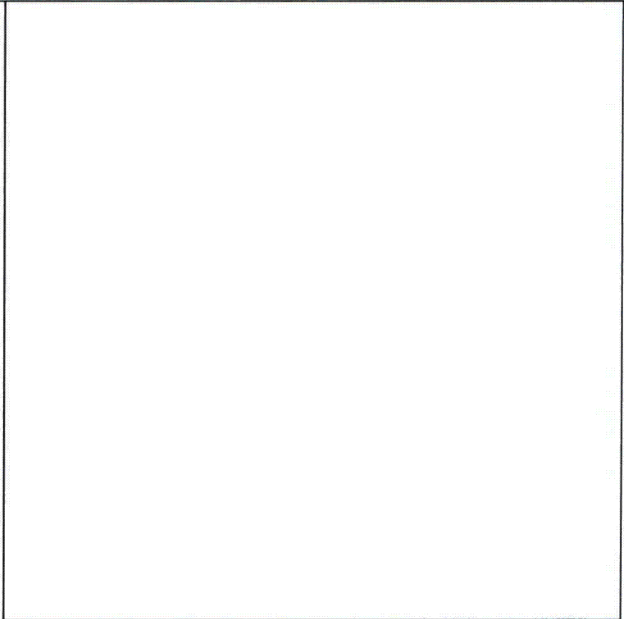
Equipment ID No. RM-051 Equip. Class⁴ 18. INSTRUMENT RACKS

Equipment Description CONTAINMENT NOBLE GAS RADIATION MONITOR REMOTE RATEMETER

Photographs



Note: *Equipment.*



Note:

⁴ Enter the equipment class name from Appendix B: Classes of Equipment.

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 1 of 4

Status: Y N U

Seismic Walkdown Checklist (SWC) SWC- 89

Equipment ID No. SI-6A Equip. Class¹ 21, TANKS AND HEAT EXCHANGERS

Equipment Description SAFETY INJECTION TANK

Location: Bldg. CONT Floor El. 1013' Room, Area CONT, 3W'DD-6N'II

Manufacturer, Model, Etc. (optional but recommended) _____

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

2. Is the anchorage free of bent, broken, missing or loose hardware? Y N U N/A

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

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

¹ Enter the equipment class name from Appendix B: Classes of Equipment.

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 2 of 4

Status: Y N U

Seismic Walkdown Checklist (SWC) SWC- 89

Equipment ID No. SI-6A Equip. Class² 21, TANKS AND HEAT EXCHANGERS

Equipment Description SAFETY INJECTION TANK

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
*The anchorage configuration is consistent with drawing 11405-S-35,
Sh. 1, Rev. 8 (File# 16415) and 11405-S-18, Rev. 4 (File# 16397).*
6. Based on the above anchorage evaluations, is the anchorage free of
potentially adverse seismic conditions? Y N U

Interaction Effects

7. Are soft targets free from impact by nearby equipment or structures?
Not a soft target. Y N U N/A
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
9. Do attached lines have adequate flexibility to avoid damage? Y N U N/A
10. Based on the above seismic interaction evaluations, is equipment free
of potentially adverse seismic interaction effects? Y N U

² Enter the equipment class name from Appendix B: Classes of Equipment.

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 3 of 4

Status: Y N U

Seismic Walkdown Checklist (SWC) SWC- 89

Equipment ID No. SI-6A Equip. Class³ 21, TANKS AND HEAT EXCHANGERS

Equipment Description SAFETY INJECTION TANK

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

Comments (Additional pages may be added as necessary)

Evaluated by: John Kao

John Kao

Date: 8/22/2012

Alex Smerch

Alex Smerch

8/22/2012

³ Enter the equipment class name from Appendix B: Classes of Equipment.

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 4 of 4

Status: Y N U

Seismic Walkdown Checklist (SWC) SWC- 89

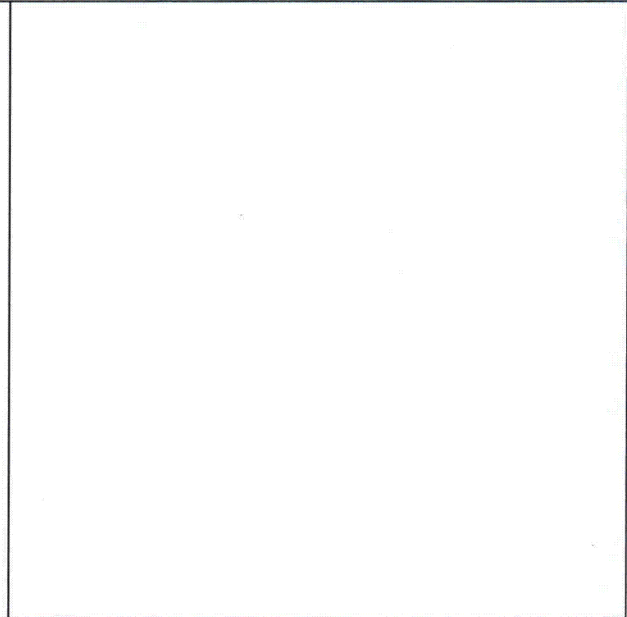
Equipment ID No. SI-6A Equip. Class⁴ 21, TANKS AND HEAT EXCHANGERS

Equipment Description SAFETY INJECTION TANK

Photographs



Note: *Photo of tank.*



Note:

⁴ Enter the equipment class name from Appendix B: Classes of Equipment.

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 1 of 4

Status: Y N U

Seismic Walkdown Checklist (SWC) SWC- 90

Equipment ID No. VA-280 Equip. Class¹ 8, MOTOR-OPERATED AND SOLENOID-OPERATED VALVES

Equipment Description CNTMT H2 PURGE OUTBOARD ISOL VALVE TO CNTMT H2 PURGE FAN VA-80B

Location: Bldg. AUX Floor El. 1020' Room, Area 59, 9E'P-0N'6C

Manufacturer, Model, Etc. (optional but recommended) _____

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
In-line valve

2. Is the anchorage free of bent, broken, missing or loose hardware? Y N U N/A

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

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

¹ Enter the equipment class name from Appendix B: Classes of Equipment.

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 2 of 4

Status: Y N U

Seismic Walkdown Checklist (SWC) SWC- 90

Equipment ID No. VA-280 Equip. Class² 8, MOTOR-OPERATED AND SOLENOID-OPERATED VALVES

Equipment Description CNTMT H2 PURGE OUTBOARD ISOL VALVE TO CNTMT H2 PURGE FAN VA-80B

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.)
In-line valve Y N U N/A
6. Based on the above anchorage evaluations, is the anchorage free of
potentially adverse seismic conditions? Y N U

Interaction Effects

7. Are soft targets free from impact by nearby equipment or structures? Y N U N/A
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
9. Do attached lines have adequate flexibility to avoid damage? Y N U N/A
10. Based on the above seismic interaction evaluations, is equipment free
of potentially adverse seismic interaction effects? Y N U

² Enter the equipment class name from Appendix B: Classes of Equipment.

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 3 of 4

Status: Y N U

Seismic Walkdown Checklist (SWC) SWC- 90

Equipment ID No. VA-280 Equip. Class³ 8, MOTOR-OPERATED AND SOLENOID-OPERATED VALVES

Equipment Description CNTMT H2 PURGE OUTBOARD ISOL VALVE TO CNTMT H2 PURGE FAN VA-80B

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

Comments (Additional pages may be added as necessary)

Evaluated by: John Kao Date: 8/23/2012

Alex Smerch 8/23/2012

³ Enter the equipment class name from Appendix B: Classes of Equipment.

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 4 of 4

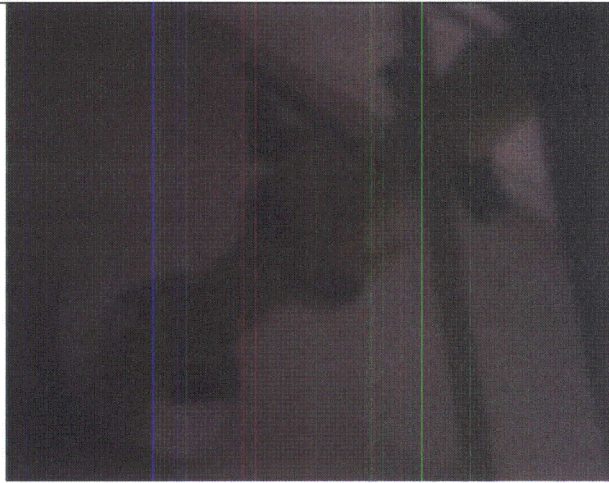
Status: Y N U

Seismic Walkdown Checklist (SWC) SWC- 90

Equipment ID No. VA-280 Equip. Class⁴ 8, MOTOR-OPERATED AND SOLENOID-OPERATED VALVES

Equipment Description CNTMT H2 PURGE OUTBOARD ISOL VALVE TO CNTMT H2 PURGE FAN VA-80B

Photographs



Note: *Equipment.*

Note:

⁴ Enter the equipment class name from Appendix B: Classes of Equipment.

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 1 of 4

Status: Y N U

Seismic Walkdown Checklist (SWC) SWC- 27

Equipment ID No. HCV-484 Equip. Class¹ 7, PNEUMATIC-OPERATED VALVES

Equipment Description SHUTDOWN COOLING HT EXCH AC-4A CCW OUTLET VALVE

Location: Bldg. AUX Floor El. 993' Room, Area 4, 2E'E-22N'5B

Manufacturer, Model, Etc. (optional but recommended) _____

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

2. Is the anchorage free of bent, broken, missing or loose hardware? Y N U N/A

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

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

¹ Enter the equipment class name from Appendix B: Classes of Equipment.

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 2 of 4

Status: Y N U

Seismic Walkdown Checklist (SWC) SWC- 27

Equipment ID No. HCV-484 Equip. Class² 7, PNEUMATIC-OPERATED VALVES

Equipment Description SHUTDOWN COOLING HT EXCH AC-4A CCW OUTLET VALVE

5. Is the anchorage configuration consistent with plant documentation? Y N U N/A
(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
In-line valve

Interaction Effects

7. Are soft targets free from impact by nearby equipment or structures? Y N U N/A
Not a soft target

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

9. Do attached lines have adequate flexibility to avoid damage? Y N U N/A

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

² Enter the equipment class name from Appendix B: Classes of Equipment.

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 3 of 4

Status: Y N U

Seismic Walkdown Checklist (SWC) SWC- 27

Equipment ID No. HCV-484 Equip. Class³ 7, PNEUMATIC-OPERATED VALVES

Equipment Description SHUTDOWN COOLING HT EXCH AC-4A CCW OUTLET VALVE

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

Comments (Additional pages may be added as necessary)

Evaluated by: John Kao

John Kao

Date: 8/20/2012

Alex Smerch

Alex Smerch

8/20/2012

³ Enter the equipment class name from Appendix B: Classes of Equipment.

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 4 of 4

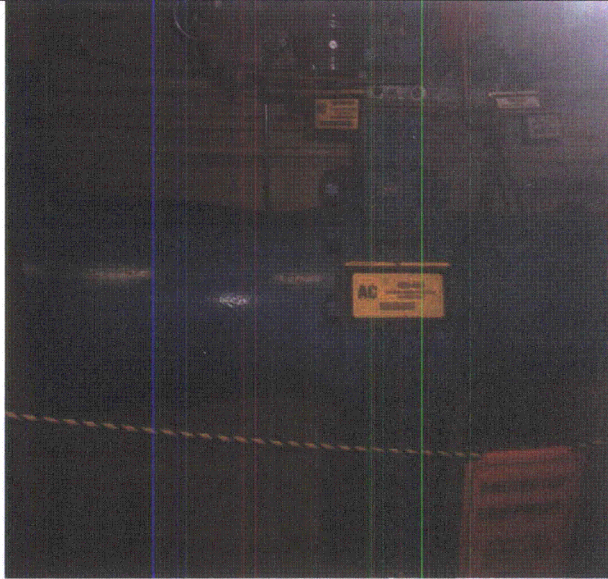
Status: Y N U

Seismic Walkdown Checklist (SWC) SWC- 27

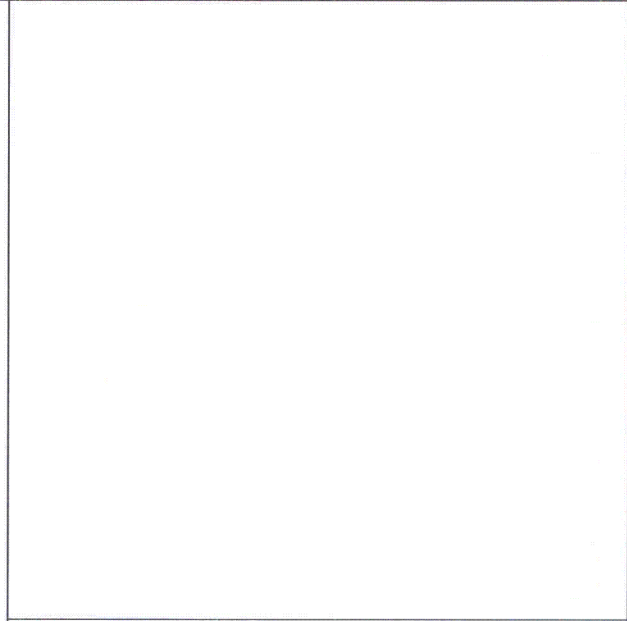
Equipment ID No. HCV-484 Equip. Class⁴ 7, PNEUMATIC-OPERATED VALVES

Equipment Description SHUTDOWN COOLING HT EXCH AC-4A CCW OUTLET VALVE

Photographs



Note: *Equipment.*



Note:

⁴ Enter the equipment class name from Appendix B: Classes of Equipment.

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 1 of 4

Status: Y N U

Seismic Walkdown Checklist (SWC) SWC- 92

Equipment ID No. AC-5A Equip. Class¹ 5, HORIZONTAL PUMPS

Equipment Description SPENT FUEL POOL CIRCULATING PUMP

Location: Bldg. Aux. Floor El. 989' Room, Area 5, 10E'T-3N'5D

Manufacturer, Model, Etc. (optional but recommended) _____

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

2. Is the anchorage free of bent, broken, missing or loose hardware? Y N U N/A

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

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

¹ Enter the equipment class name from Appendix B: Classes of Equipment.

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 2 of 4

Status: Y N U

Seismic Walkdown Checklist (SWC) SWC- 92

Equipment ID No. AC-5A Equip. Class² 5, HORIZONTAL PUMPS

Equipment Description SPENT FUEL POOL CIRCULATING PUMP

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.)
Anchorage Check verifies that plant has "Gould Pump 789A701 Storage Circulation Pump" installed with "Bed Plate No. 3", but vendor drawing suggests that design is for "Bed Plate #1" See OPPD Rev. SH 36510 (File# 10331). Licensing Basis Evaluation is required. Y N U N/A
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y N U

Interaction Effects

7. Are soft targets free from impact by nearby equipment or structures?
Block wall may not have proper lateral restraint due to gap between wall and steel angle brace. CR 2012-10915 has been initiated. Y N U N/A
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
9. Do attached lines have adequate flexibility to avoid damage? Y N U N/A
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y N U

² Enter the equipment class name from Appendix B: Classes of Equipment.

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 3 of 4

Status: Y N U

Seismic Walkdown Checklist (SWC) SWC- 92

Equipment ID No. AC-5A Equip. Class³ 5, HORIZONTAL PUMPS

Equipment Description SPENT FUEL POOL CIRCULATING PUMP

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

Comments (Additional pages may be added as necessary)

Evaluated by: John Kao *John Kao* Date: 8/20/2012

Alex Smerch *Alex Smerch* Date: 8/20/2012

³ Enter the equipment class name from Appendix B: Classes of Equipment.

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 4 of 4

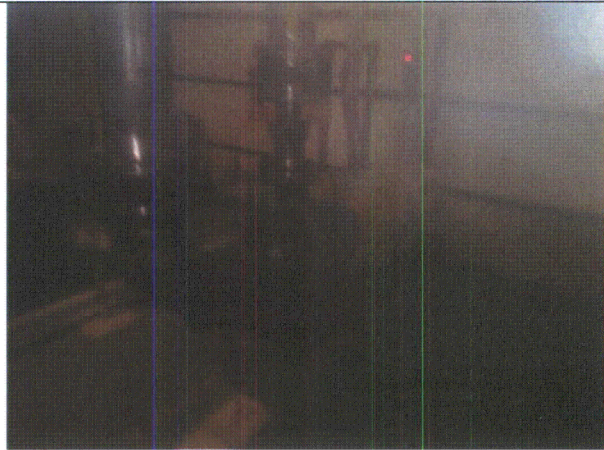
Status: Y N U

Seismic Walkdown Checklist (SWC) SWC- 92

Equipment ID No. AC-5A Equip. Class⁴ 5, HORIZONTAL PUMPS

Equipment Description SPENT FUEL POOL CIRCULATING PUMP

Photographs



Note: *Equipment*



Note: *Gap between masonry wall and steel lateral support.*

⁴ Enter the equipment class name from Appendix B: Classes of Equipment.

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 1 of 4

Status: Y N U

Seismic Walkdown Checklist (SWC) SWC- 93

Equipment ID No. AC-5B Equip. Class¹ 5, HORIZONTAL PUMPS

Equipment Description SPENT FUEL POOL CIRCULATING PUMP

Location: Bldg. Aux. Floor El. 989' Room, Area 5, 14E'T-3N'5D

Manufacturer, Model, Etc. (optional but recommended) _____

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

2. Is the anchorage free of bent, broken, missing or loose hardware? Y N U N/A

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

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

¹ Enter the equipment class name from Appendix B: Classes of Equipment.

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 2 of 4

Status: Y N U

Seismic Walkdown Checklist (SWC) SWC- 93

Equipment ID No. AC-5B Equip. Class² 5, HORIZONTAL PUMPS

Equipment Description SPENT FUEL POOL CIRCULATING PUMP

5. Is the anchorage configuration consistent with plant documentation? Y N U N/A
(Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)
Anchorage Check verifies that plant has "Gould Pump 789A701 Storage Poop Circulation Pump" installed with "Bed Plate No. 3", but vendor drawing suggests that design is for "Bed Plate #1" See OPPD Rev. SH 36510 (File# 10331). Licensing Basis Evaluation is required.
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y N U

Interaction Effects

7. Are soft targets free from impact by nearby equipment or structures? Y N U N/A
Block wall may not have proper lateral restraint due to gap between wall and steel angle brace. CR 2012-10915 has been initiated.
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
9. Do attached lines have adequate flexibility to avoid damage? Y N U N/A
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y N U

² Enter the equipment class name from Appendix B: Classes of Equipment.

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 3 of 4

Status: Y N U

Seismic Walkdown Checklist (SWC) SWC- 93

Equipment ID No. AC-5B Equip. Class³ 5. HORIZONTAL PUMPS

Equipment Description SPENT FUEL POOL CIRCULATING PUMP

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

Comments (Additional pages may be added as necessary)

Evaluated by: Alex Smerch *Alex Smerch* Date: 8/20/12

John Kao *John Kao* 8/20/12

³ Enter the equipment class name from Appendix B: Classes of Equipment.

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 4 of 4

Status: Y N U

Seismic Walkdown Checklist (SWC) SWC- 93

Equipment ID No. AC-5B Equip. Class⁴ 5, HORIZONTAL PUMPS

Equipment Description SPENT FUEL POOL CIRCULATING PUMP

Photographs



Note: *Equipment.*



Note: *Gap between masonry wall and steel lateral support.*

⁴ Enter the equipment class name from Appendix B: Classes of Equipment.

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 1 of 4

Status: Y N U

Seismic Walkdown Checklist (SWC) SWC- 94

Equipment ID No. AC-7 Equip. Class¹ 21, TANKS AND HEAT EXCHANGERS

Equipment Description STORAGE POOL DEMINERALIZER

Location: Bldg. Aux. Floor El. 990' Room, Area 5, 1E'T-3S'5A

Manufacturer, Model, Etc. (optional but recommended) _____

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

2. Is the anchorage free of bent, broken, missing or loose hardware? Y N U N/A
One anchor bolt was noted in each baseplate for each of the 4 support legs.

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y N U N/A
Baseplate and bolts appeared to be covered with a blue paint

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

¹ Enter the equipment class name from Appendix B: Classes of Equipment.

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 2 of 4

Status: Y N U

Seismic Walkdown Checklist (SWC) SWC- 94

Equipment ID No. AC-7 Equip. Class² 21, TANKS AND HEAT EXCHANGERS

Equipment Description STORAGE POOL DEMINERALIZER

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

Interaction Effects

7. Are soft targets free from impact by nearby equipment or structures? Y N U N/A
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
Light fixture noted overhead with one support on a hook, see AWC-33.
Block wall shields equipment, however, wall is seismically restrained
with plates and through bolts and judged not to cause interaction
issues.
9. Do attached lines have adequate flexibility to avoid damage? Y N U N/A
10. Based on the above seismic interaction evaluations, is equipment free
of potentially adverse seismic interaction effects? Y N U

² Enter the equipment class name from Appendix B: Classes of Equipment.

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 3 of 4

Status: Y N U

Seismic Walkdown Checklist (SWC) SWC- 94

Equipment ID No. AC-7 Equip. Class³ 21, TANKS AND HEAT EXCHANGERS

Equipment Description STORAGE POOL DEMINERALIZER

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

Comments (Additional pages may be added as necessary)

Evaluated by: Kevin Bessell  Date: 8/28/2012

Alex Smerch  8/28/2012

³ Enter the equipment class name from Appendix B: Classes of Equipment.

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 4 of 4

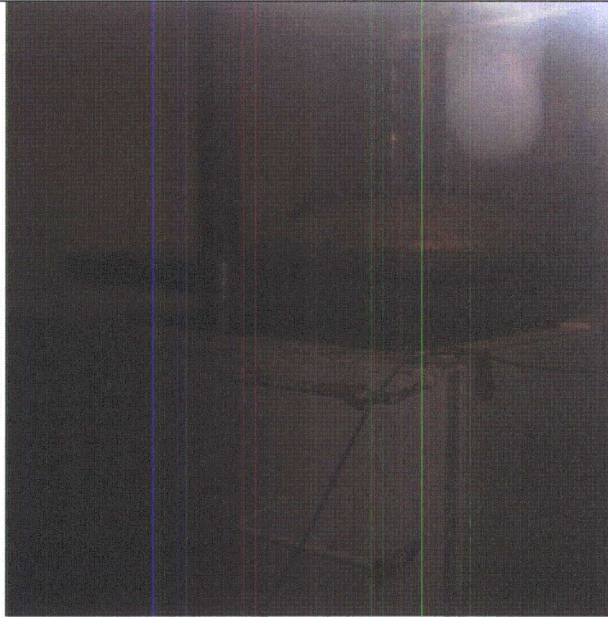
Status: Y N U

Seismic Walkdown Checklist (SWC) SWC- 94

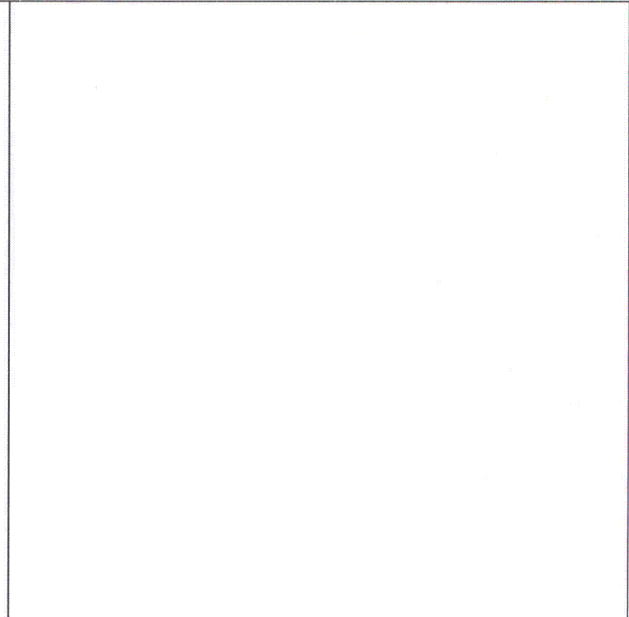
Equipment ID No. AC-7 Equip. Class⁴ 21, TANKS AND HEAT EXCHANGERS

Equipment Description STORAGE POOL DEMINERALIZER

Photographs



Note: *Equipment located behind block wall.
Anchorage not shown.*



Note:

⁴ Enter the equipment class name from Appendix B: Classes of Equipment.

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 1 of 4

Status: Y N U

Seismic Walkdown Checklist (SWC) SWC- 95

Equipment ID No. AC-6 Equip. Class¹ 21, TANKS AND HEAT EXCHANGERS

Equipment Description STORAGE POOL FILTER

Location: Bldg. Aux. Floor El. 990' Room, Area 5, 1E'T-12N'4B

Manufacturer, Model, Etc. (optional but recommended) _____

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

2. Is the anchorage free of bent, broken, missing or loose hardware? Y N U N/A

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

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

¹ Enter the equipment class name from Appendix B: Classes of Equipment.

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 2 of 4

Status: Y N U

Seismic Walkdown Checklist (SWC) SWC- 95

Equipment ID No. AC-6 Equip. Class² 21, TANKS AND HEAT EXCHANGERS

Equipment Description STORAGE POOL FILTER

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

Interaction Effects

7. Are soft targets free from impact by nearby equipment or structures? Y N U N/A
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
9. Do attached lines have adequate flexibility to avoid damage? Y N U N/A
10. Based on the above seismic interaction evaluations, is equipment free
of potentially adverse seismic interaction effects? Y N U

² Enter the equipment class name from Appendix B: Classes of Equipment.

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 3 of 4

Status: Y N U

Seismic Walkdown Checklist (SWC) SWC- 95

Equipment ID No. AC-6 Equip. Class³ 21, TANKS AND HEAT EXCHANGERS

Equipment Description STORAGE POOL FILTER

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

Comments (Additional pages may be added as necessary)

Evaluated by: Kevin Bessell *Kevin Bessell* Date: 8/28/2012

Alex Smerch *Alex Smerch* 8/28/2012

³ Enter the equipment class name from Appendix B: Classes of Equipment.

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 4 of 4

Status: Y N U

Seismic Walkdown Checklist (SWC) SWC- 95

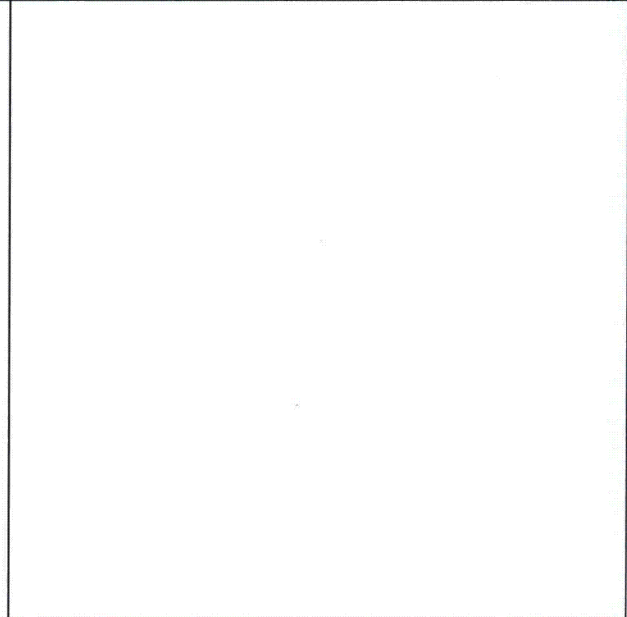
Equipment ID No. AC-6 Equip. Class⁴ 21, TANKS AND HEAT EXCHANGERS

Equipment Description STORAGE POOL FILTER

Photographs



Note: *Equipment and anchorage support.*



Note:

⁴ Enter the equipment class name from Appendix B: Classes of Equipment.

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 1 of 4

Status: Y N U

Seismic Walkdown Checklist (SWC) SWC- 96

Equipment ID No. RW-262 Equip. Class¹ 8, MOTOR-OPERATED AND SOLENOID-OPERATED VALVES

Equipment Description EMERGENCY FEEDWATER TANK FW-19 RAW WATER BACKUP CONNECTION VALVE

Location: Bldg. AUX Floor El. 1040' Room, Area 81, 4W'C-3N'5B

Manufacturer, Model, Etc. (optional but recommended) _____

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

2. Is the anchorage free of bent, broken, missing or loose hardware? Y N U N/A

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

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

¹ Enter the equipment class name from Appendix B: Classes of Equipment.

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 2 of 4

Status: Y N U

Seismic Walkdown Checklist (SWC) SWC- 96

Equipment ID No. RW-262 Equip. Class² 8, MOTOR-OPERATED AND SOLENOID-OPERATED VALVES

Equipment Description EMERGENCY FEEDWATER TANK FW-19 RAW WATER BACKUP CONNECTION VALVE

5. Is the anchorage configuration consistent with plant documentation? Y N U N/A
(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
In-Line Valve

Interaction Effects

7. Are soft targets free from impact by nearby equipment or structures? Y N U N/A
Not a soft target

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

9. Do attached lines have adequate flexibility to avoid damage? Y N U N/A

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

² Enter the equipment class name from Appendix B: Classes of Equipment.

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 3 of 4

Status: Y N U

Seismic Walkdown Checklist (SWC) SWC- 96

Equipment ID No. RW-262 Equip. Class³ 8, MOTOR-OPERATED AND SOLENOID-OPERATED VALVES

Equipment Description EMERGENCY FEEDWATER TANK FW-19 RAW WATER BACKUP CONNECTION VALVE

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

Comments (Additional pages may be added as necessary)

Evaluated by: John Kao *John Kao* Date: 8/18/2012

Alex Smerch *Alex Smerch* 8/18/2012

³ Enter the equipment class name from Appendix B: Classes of Equipment.

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 4 of 4

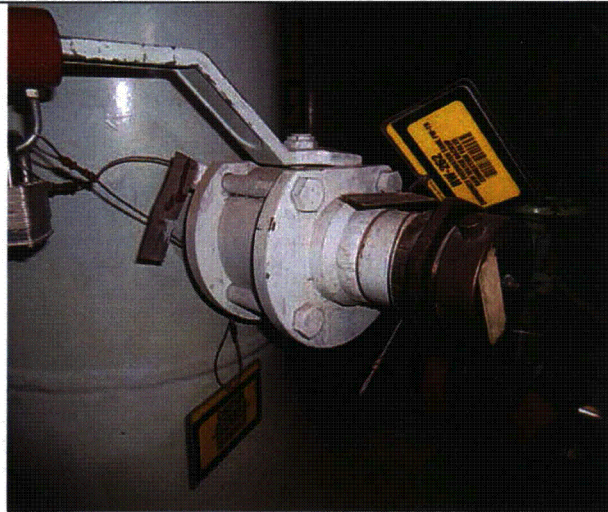
Status: Y N U

Seismic Walkdown Checklist (SWC) SWC- 96

Equipment ID No. RW-262 Equip. Class⁴ 8. MOTOR-OPERATED AND SOLENOID-OPERATED VALVES

Equipment Description EMERGENCY FEEDWATER TANK FW-19 RAW WATER BACKUP CONNECTION VALVE

Photographs



Note: *Equipment.*

Note:

⁴ Enter the equipment class name from Appendix B: Classes of Equipment.

AREA WALK-BY CHECKLIST

Sheet 1 of 5

Status: Y N U

Area Walk-By Checklist (AWC) AWC-1

Location: Bldg. AUX Floor El. 989 Room, Area¹ 19, Near FT-1368; FW-6; FW-171

Instructions for Completing Checklist

This checklist may be used to document the results of the Area Walk-By near one or more SWEL items. 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.

1. Does anchorage of equipment in the area appear to be free of potentially adverse seismic conditions (if visible without necessarily opening cabinets)? Y N U N/A

2. Does anchorage of equipment in the area appear to be free of significant degraded conditions? Y N U N/A

3. Based on a visual inspection from the floor, do the cable/conduit raceways and HVAC ducting appear to be free of potentially adverse seismic conditions (e.g., condition of supports is adequate and fill conditions of cable trays appear to be inside acceptable limits)? Y N U N/A

¹ If the room in which the SWEL item is located is very large (e.g., Turbine Hall), the area selected should be described. This selected area should be based on judgment, e.g., on the order of about 35 feet from the SWEL item.

AREA WALK-BY CHECKLIST

Sheet 2 of 5

Status: Y N U

Area Walk-By Checklist (AWC) AWC- 1

Location: Bldg. AUX Floor El. 989 Room, Area² 19, Near FT-1368; FW-6; FW-171

4. Does it appear that the area is free of potentially adverse seismic spatial interactions with other equipment in the area (e.g., ceiling tiles and lighting)? Y N U N/A

5. Does it appear that the area is free of potentially adverse seismic interactions that could cause flooding or spray in the area? Y N U N/A
Spray Shields attached to piping to block any spray.

6. Does it appear that the area is free of potentially adverse seismic interactions that could cause a fire in the area? Y N U N/A
Possibly combustible rags in area (Picture Shown). SO-G-91 allows for small amount of combustibles in work area.

7. Does it appear that the area is free of potentially adverse seismic interactions associated with housekeeping practices, storage of portable equipment, and temporary installations (e.g., scaffolding, lead shielding)? Y N U N/A
Scaffold in area has seismic design tag (Picture Shown). Scaffold # = 2011-441

² If the room in which the SWEL item is located is very large (e.g., Turbine Hall), the area selected should be described. This selected area should be based on judgment, e.g., on the order of about 35 feet from the SWEL item.

AREA WALK-BY CHECKLIST

Sheet 3 of 5

Status: Y N U

Area Walk-By Checklist (AWC) AWC- 1

Location: Bldg. AUX Floor El. 989 Room, Area³ 19, Near FT-1368; FW-6; FW-171

8. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment in the area? Y N U

Comments (Additional pages may be added as necessary)

Housekeeping items for area under maintenance per SO-G-91.

Evaluated by: John Kao *John Kao* Date: 8/13/2012

Alex Smerch *Alex Smerch* 8/13/2012

³ If the room in which the SWEL item is located is very large (e.g., Turbine Hall), the area selected should be described. This selected area should be based on judgment, e.g., on the order of about 35 feet from the SWEL item.

AREA WALK-BY CHECKLIST

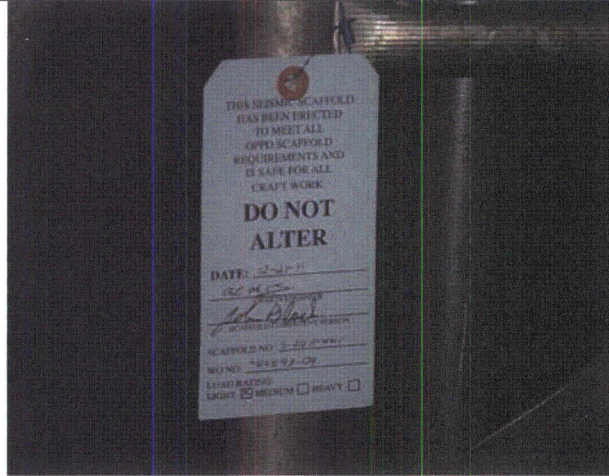
Sheet 4 of 5

Status: Y N U

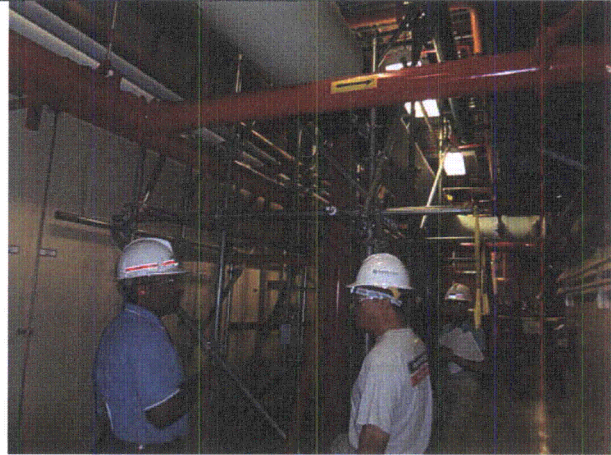
Area Walk-By Checklist (AWC) AWC- 1

Location: Bldg. AUX Floor El. 989 Room, Area⁴ 19, Near FT-1368; FW-6; FW-171

Photographs



Note: Scaffold Design Tag.



Note: Temp Scaffolding.

⁴ If the room in which the SWEL item is located is very large (e.g., Turbine Hall), the area selected should be described. This selected area should be based on judgment, e.g., on the order of about 35 feet from the SWEL item.

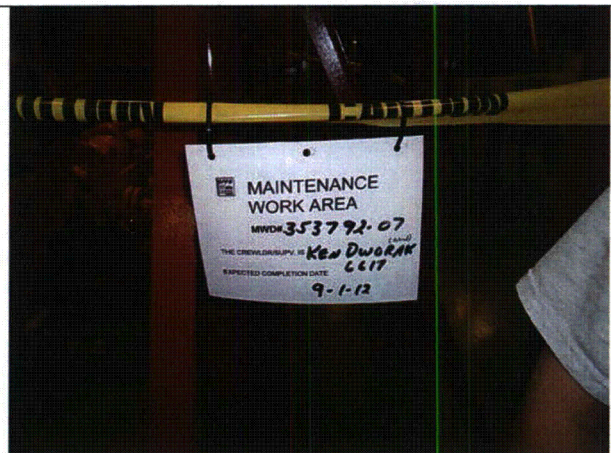
AREA WALK-BY CHECKLIST

Sheet 5 of 5

Status: Y N U

Area Walk-By Checklist (AWC) AWC- 1

Location: Bldg. AUX Floor El. 989 Room, Area⁵ 19, Near FT-1368; FW-6; FW-171



Note: Roped Off Maintenance Area



Note: Loose and combustible equipment.

⁵ If the room in which the SWEL item is located is very large (e.g., Turbine Hall), the area selected should be described. This selected area should be based on judgment, e.g., on the order of about 35 feet from the SWEL item.

AREA WALK-BY CHECKLIST

Sheet 1 of 5

Status: Y N U

Area Walk-By Checklist (AWC) AWC- 2

Location: Bldg. AUX Floor El. 1007' Room, Area¹ Misl Room 63, Near YCV-871H-20; YCV-871H

Instructions for Completing Checklist

This checklist may be used to document the results of the Area Walk-By near one or more SWEL items. 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.

-
1. Does anchorage of equipment in the area appear to be free of potentially adverse seismic conditions (if visible without necessarily opening cabinets)? Y N U N/A
2. Does anchorage of equipment in the area appear to be free of significant degraded conditions? Y N U N/A
3. Based on a visual inspection from the floor, do the cable/conduit raceways and HVAC ducting appear to be free of potentially adverse seismic conditions (e.g., condition of supports is adequate and fill conditions of cable trays appear to be inside acceptable limits)? Y N U N/A

¹ If the room in which the SWEL item is located is very large (e.g., Turbine Hall), the area selected should be described. This selected area should be based on judgment, e.g., on the order of about 35 feet from the SWEL item.

AREA WALK-BY CHECKLIST

Sheet 2 of 5

Status: Y N U

Area Walk-By Checklist (AWC) AWC- 2

Location: Bldg. AUX Floor El. 1007' Room, Area² Misl Room 63, Near YCV-871H-20, YCV-871H

4. Does it appear that the area is free of potentially adverse seismic spatial interactions with other equipment in the area (e.g., ceiling tiles and lighting)? Y N U N/A

5. Does it appear that the area is free of potentially adverse seismic interactions that could cause flooding or spray in the area? Y N U N/A

6. Does it appear that the area is free of potentially adverse seismic interactions that could cause a fire in the area? Y N U N/A

7. Does it appear that the area is free of potentially adverse seismic interactions associated with housekeeping practices, storage of portable equipment, and temporary installations (e.g., scaffolding, lead shielding)? Y N U N/A

*Broom improperly supported by piping and conduit lines (see picture).
CR 2012-10195 initiated.*

² If the room in which the SWEL item is located is very large (e.g., Turbine Hall), the area selected should be described. This selected area should be based on judgment, e.g., on the order of about 35 feet from the SWEL item.

AREA WALK-BY CHECKLIST

Sheet 3 of 5

Status: Y N U

Area Walk-By Checklist (AWC) AWC- 2

Location: Bldg. AUX Floor El. 1007' Room, Area³ Misl Room 63, Near YCV-871H-20, YCV-871H

8. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment in the area? Y N U

Comments (Additional pages may be added as necessary)

Evaluated by: John Kao

John Kao

Date: 8/14/2012

Alex Smerch

Alex Smerch

8/14/2012

³ If the room in which the SWEL item is located is very large (e.g., Turbine Hall), the area selected should be described. This selected area should be based on judgment, e.g., on the order of about 35 feet from the SWEL item.

AREA WALK-BY CHECKLIST

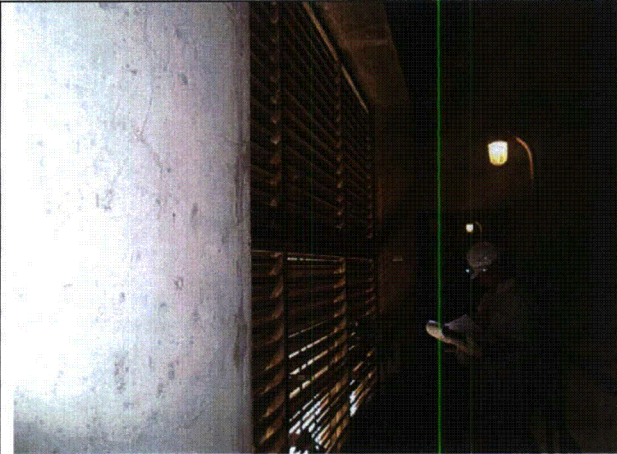
Sheet 4 of 5

Status: Y N U

Area Walk-By Checklist (AWC) AWC- 2

Location: Bldg. AUX Floor El. 1007' Room, Area⁴ Misl Room 63, Near YCV-871H-20, YCV-871H

Photographs



Note: Area



Note: Broom being Supported by Pipe.

⁴ If the room in which the SWEL item is located is very large (e.g., Turbine Hall), the area selected should be described. This selected area should be based on judgment, e.g., on the order of about 35 feet from the SWEL item.

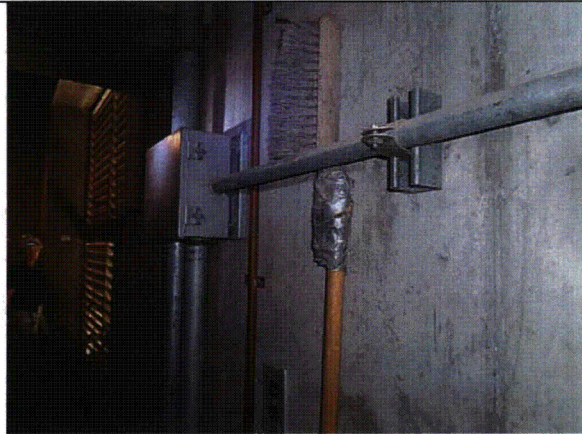
AREA WALK-BY CHECKLIST

Sheet 5 of 5

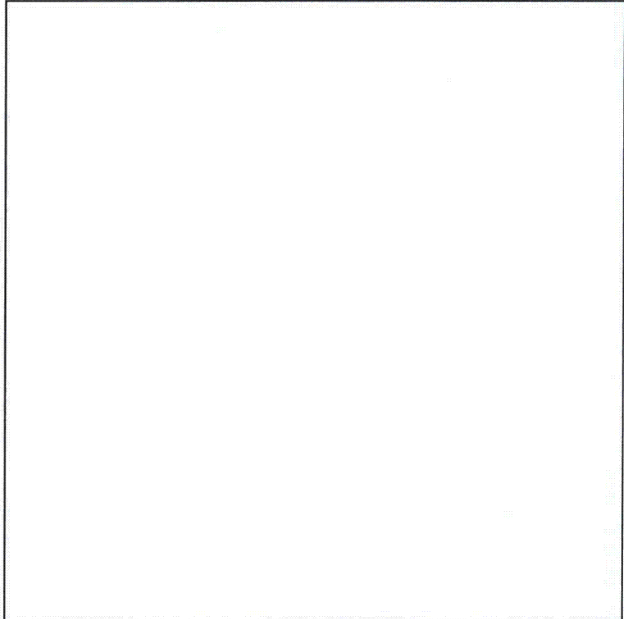
Status: Y N U

Area Walk-By Checklist (AWC) AWC- 2

Location: Bldg. AUX Floor El. 1007' Room, Area⁵ Misl Room 63, Near YCV-871H-20, YCV-871H



Note: *Broom supported by conduit.*



Note:

⁵ If the room in which the SWEL item is located is very large (e.g., Turbine Hall), the area selected should be described. This selected area should be based on judgment, e.g., on the order of about 35 feet from the SWEL item.

AREA WALK-BY CHECKLIST

Sheet 1 of 5

Status: Y N U

Area Walk-By Checklist (AWC) AWC- 3

Location: Bldg. AUX Floor El. 989' Room, Area¹ 19, Near FW10; FW172; FCV-1369

Instructions for Completing Checklist

This checklist may be used to document the results of the Area Walk-By near one or more SWEL items. 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.

-
1. Does anchorage of equipment in the area appear to be free of potentially adverse seismic conditions (if visible without necessarily opening cabinets)? Y N U N/A
2. Does anchorage of equipment in the area appear to be free of significant degraded conditions? Y N U N/A
3. Based on a visual inspection from the floor, do the cable/conduit raceways and HVAC ducting appear to be free of potentially adverse seismic conditions (e.g., condition of supports is adequate and fill conditions of cable trays appear to be inside acceptable limits)? Y N U N/A

¹ If the room in which the SWEL item is located is very large (e.g., Turbine Hall), the area selected should be described. This selected area should be based on judgment, e.g., on the order of about 35 feet from the SWEL item.

AREA WALK-BY CHECKLIST

Sheet 2 of 5

Status: Y N U

Area Walk-By Checklist (AWC) AWC- 3

Location: Bldg. AUX Floor El. 989' Room, Area² 19, Near FW10; FW172; FCV-1369

4. Does it appear that the area is free of potentially adverse seismic spatial interactions with other equipment in the area (e.g., ceiling tiles and lighting)? Y N U N/A

Scaffold is constructed very close to piping and is only supported at 1 point. Could undergo rotation about support producing larger displacements far from anchor point during seismic event. CR 2012-12399 has been initiated.

5. Does it appear that the area is free of potentially adverse seismic interactions that could cause flooding or spray in the area? Y N U N/A

6. Does it appear that the area is free of potentially adverse seismic interactions that could cause a fire in the area? Y N U N/A

Oily looking substance was found in base of FW-10 Pump. CR 2012-12400 has been initiated.

7. Does it appear that the area is free of potentially adverse seismic interactions associated with housekeeping practices, storage of portable equipment, and temporary installations (e.g., scaffolding, lead shielding)? Y N U N/A

² If the room in which the SWEL item is located is very large (e.g., Turbine Hall), the area selected should be described. This selected area should be based on judgment, e.g., on the order of about 35 feet from the SWEL item.

AREA WALK-BY CHECKLIST

Sheet 3 of 5



Status: Y N U

Area Walk-By Checklist (AWC) AWC- 3

Location: Bldg. AUX Floor El. 989' Room, Area³ 19, Near FW10; FW172; FCV-1369

8. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment in the area? Y N U

Comments (Additional pages may be added as necessary)

Evaluated by: Alex Smerch  Date: 8/13/2012
John Kao  8/13/2012

³ If the room in which the SWEL item is located is very large (e.g., Turbine Hall), the area selected should be described. This selected area should be based on judgment, e.g., on the order of about 35 feet from the SWEL item.

AREA WALK-BY CHECKLIST

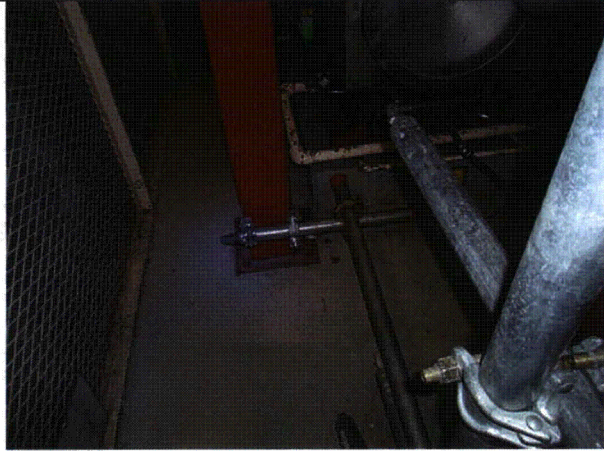
Sheet 4 of 5

Status: Y N U

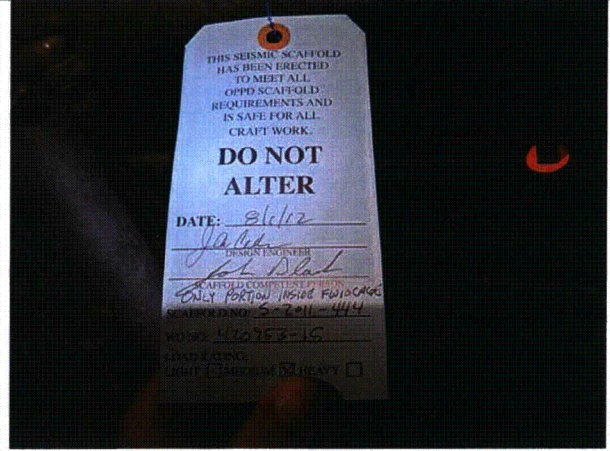
Area Walk-By Checklist (AWC) AWC- 3

Location: Bldg. AUX Floor El. 989' Room, Area⁴ 19, Near FW10; FW172; FCV-1369

Photographs



Note: Scaffold Anchor Point



Note: Scaffold Seismic Requirements Tag.

⁴ If the room in which the SWEL item is located is very large (e.g., Turbine Hall), the area selected should be described. This selected area should be based on judgment, e.g., on the order of about 35 feet from the SWEL item.

AREA WALK-BY CHECKLIST

Sheet 5 of 5

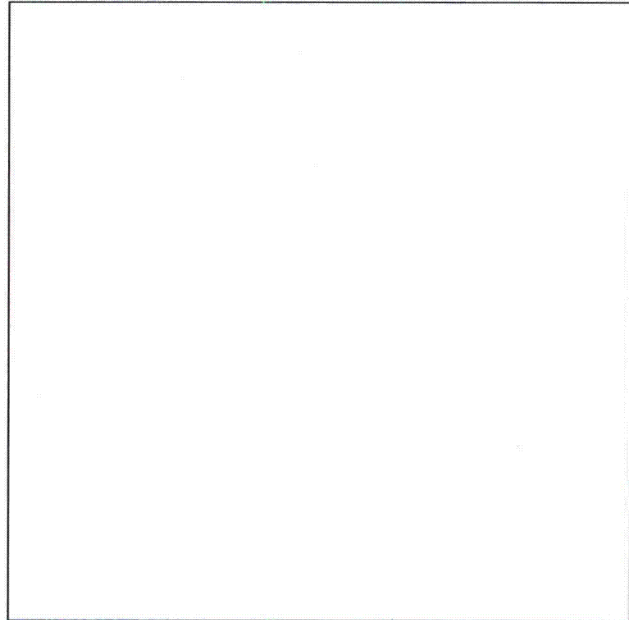
Status: Y N U

Area Walk-By Checklist (AWC) AWC- 3

Location: Bldg. AUX Floor El. 989' Room, Area⁵ 19, Near FW10; FW172; FCV-1369



Note: *Pump baseplate.*



Note:

⁵ If the room in which the SWEL item is located is very large (e.g., Turbine Hall), the area selected should be described. This selected area should be based on judgment, e.g., on the order of about 35 feet from the SWEL item.

AREA WALK-BY CHECKLIST

Sheet 1 of 4

Status: Y N U

Area Walk-By Checklist (AWC) AWC-4

Location: Bldg. AUX Floor El. 1007' Room, Area: 64 and 65, Near FO-17-2; FO-4A-2; SA-193; DG-2; FO-2-2; LO-32-2

Instructions for Completing Checklist

This checklist may be used to document the results of the Area Walk-By near one or more SWEL items. 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.

-
1. Does anchorage of equipment in the area appear to be free of potentially adverse seismic conditions (if visible without necessarily opening cabinets)? Y N U N/A
2. Does anchorage of equipment in the area appear to be free of significant degraded conditions? Y N U N/A
3. Based on a visual inspection from the floor, do the cable/conduit raceways and HVAC ducting appear to be free of potentially adverse seismic conditions (e.g., condition of supports is adequate and fill conditions of cable trays appear to be inside acceptable limits)? Y N U N/A

¹ If the room in which the SWEL item is located is very large (e.g., Turbine Hall), the area selected should be described. This selected area should be based on judgment, e.g., on the order of about 35 feet from the SWEL item.

AREA WALK-BY CHECKLIST

Sheet 2 of 4

Status: Y N U

Area Walk-By Checklist (AWC) AWC- 4

Location: Bldg. AUX Floor El. 1007' Room, Area² 64 and 65, Near FO-17-2; FO-4A-2; SA-193; DG-2; FO-2-2; LO-32-2

4. Does it appear that the area is free of potentially adverse seismic spatial interactions with other equipment in the area (e.g., ceiling tiles and lighting)? Y N U N/A

There is a 2" Fire Protection line near fuel oil tank that has a 1/2" gap between it and adjacent piping at one point. There was a robust (relative to line size and support length) lateral and vertical strut at this point so it was determined that this was not a potentially adverse seismic condition.

5. Does it appear that the area is free of potentially adverse seismic interactions that could cause flooding or spray in the area? Y N U N/A

6. Does it appear that the area is free of potentially adverse seismic interactions that could cause a fire in the area? Y N U N/A

7. Does it appear that the area is free of potentially adverse seismic interactions associated with housekeeping practices, storage of portable equipment, and temporary installations (e.g., scaffolding, lead shielding)? Y N U N/A

There is a moveable tool storage bin that does not have anything prohibiting wheel movement and it could potentially roll into adjacent lines attached to a nearby wall connected to valve #'s (IA-3081, IA-3080). See photo. CR 2012-10368 has been initiated.

² If the room in which the SWEL item is located is very large (e.g., Turbine Hall), the area selected should be described. This selected area should be based on judgment, e.g., on the order of about 35 feet from the SWEL item.

AREA WALK-BY CHECKLIST

Sheet 3 of 4

Status: Y N U

Area Walk-By Checklist (AWC) AWC- 4

Location: Bldg. AUX Floor El. 1007' Room, Area³ 64 and 65, Near FO-17-2; FO-4A-2; SA-193; DG-2; FO-2-2; LO-32-2

8. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment in the area? Y N U

Comments (Additional pages may be added as necessary)

Evaluated by: John Kao

John Kao

Date: 8/15/2012

Alex Smerch

Alex Smerch

8/15/2012

³ If the room in which the SWEL item is located is very large (e.g., Turbine Hall), the area selected should be described. This selected area should be based on judgment, e.g., on the order of about 35 feet from the SWEL item.

AREA WALK-BY CHECKLIST

Sheet 4 of 4

Status: Y N U

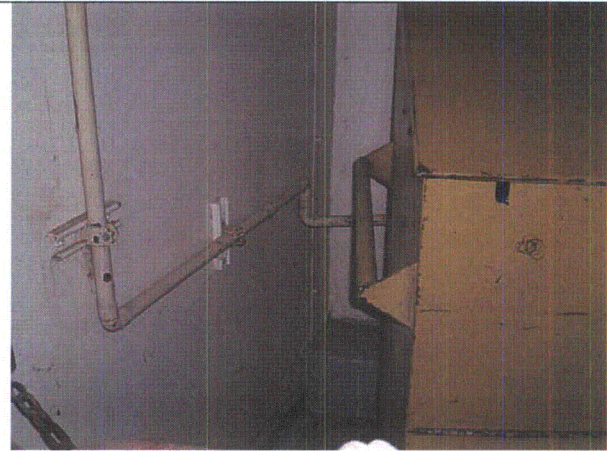
Area Walk-By Checklist (AWC) AWC- 4

Location: Bldg. AUX Floor El. 1007' Room, Area⁴ 64 and 65, Near FO-17-2; FO-4A-2; SA-193; DG-2; FO-2-2; LO-32-2

Photographs



Note: *Unlocked storage cart wheel.*



Note: *Cart near line.*

⁴ If the room in which the SWEL item is located is very large (e.g., Turbine Hall), the area selected should be described. This selected area should be based on judgment, e.g., on the order of about 35 feet from the SWEL item.

AREA WALK-BY CHECKLIST

Sheet 1 of 3

Status: Y N U

Area Walk-By Checklist (AWC) AWC- 5

Location: Bldg. AUX Floor El. 1011' Room, Area¹ 54, Near EE-8A

Instructions for Completing Checklist

This checklist may be used to document the results of the Area Walk-By near one or more SWEL items. 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.

-
1. Does anchorage of equipment in the area appear to be free of potentially adverse seismic conditions (if visible without necessarily opening cabinets)? Y N U N/A
2. Does anchorage of equipment in the area appear to be free of significant degraded conditions? Y N U N/A
3. Based on a visual inspection from the floor, do the cable/conduit raceways and HVAC ducting appear to be free of potentially adverse seismic conditions (e.g., condition of supports is adequate and fill conditions of cable trays appear to be inside acceptable limits)? Y N U N/A

¹ If the room in which the SWEL item is located is very large (e.g., Turbine Hall), the area selected should be described. This selected area should be based on judgment, e.g., on the order of about 35 feet from the SWEL item.

AREA WALK-BY CHECKLIST

Sheet 2 of 3

Status: Y N U

Area Walk-By Checklist (AWC) AWC- 5

Location: Bldg. AUX Floor El. 1011' Room, Area² 54, Near EE-8A

4. Does it appear that the area is free of potentially adverse seismic spatial interactions with other equipment in the area (e.g., ceiling tiles and lighting)? Y N U N/A

5. Does it appear that the area is free of potentially adverse seismic interactions that could cause flooding or spray in the area? Y N U N/A

6. Does it appear that the area is free of potentially adverse seismic interactions that could cause a fire in the area? Y N U N/A

7. Does it appear that the area is free of potentially adverse seismic interactions associated with housekeeping practices, storage of portable equipment, and temporary installations (e.g., scaffolding, lead shielding)? Y N U N/A

² If the room in which the SWEL item is located is very large (e.g., Turbine Hall), the area selected should be described. This selected area should be based on judgment, e.g., on the order of about 35 feet from the SWEL item.

AREA WALK-BY CHECKLIST

Sheet 3 of 3

Status: Y N U

Area Walk-By Checklist (AWC) AWC- 5

Location: Bldg. AUX Floor El. 1011' Room, Area³ 54, Near EE-8A

8. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment in the area? Y N U

Comments (Additional pages may be added as necessary)

Evaluated by: John Kao *John Kao* Date: 8/15/2012

Alex Smerch *Alex Smerch* 8/15/2012

³ If the room in which the SWEL item is located is very large (e.g., Turbine Hall), the area selected should be described. This selected area should be based on judgment, e.g., on the order of about 35 feet from the SWEL item.

AREA WALK-BY CHECKLIST

Sheet 1 of 4

Status: Y N U

Area Walk-By Checklist (AWC) AWC- 6

Location: Bldg. AUX Floor El. 1011' Room, Area¹ 56, Near 1B4A; 1B4B; 1B4C; 1A4-11; 1A4

Instructions for Completing Checklist

This checklist may be used to document the results of the Area Walk-By near one or more SWEL items. 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.

-
1. Does anchorage of equipment in the area appear to be free of potentially adverse seismic conditions (if visible without necessarily opening cabinets)? Y N U N/A
2. Does anchorage of equipment in the area appear to be free of significant degraded conditions? Y N U N/A
3. Based on a visual inspection from the floor, do the cable/conduit raceways and HVAC ducting appear to be free of potentially adverse seismic conditions (e.g., condition of supports is adequate and fill conditions of cable trays appear to be inside acceptable limits)? Y N U N/A

¹ If the room in which the SWEL item is located is very large (e.g., Turbine Hall), the area selected should be described. This selected area should be based on judgment, e.g., on the order of about 35 feet from the SWEL item.

AREA WALK-BY CHECKLIST

Sheet 2 of 4

Status: Y N U

Area Walk-By Checklist (AWC) AWC- 6

Location: Bldg. AUX Floor El. 1011' Room, Area² 56, Near 1B4A; 1B4B; 1B4C; 1A4-11; 1A4

4. Does it appear that the area is free of potentially adverse seismic spatial interactions with other equipment in the area (e.g., ceiling tiles and lighting)? Y N U N/A

There are no lightbulb coverings for the lighting fixtures in the area which could create a potentially adverse seismic condition. CR 2012-10423 has been initiated.

5. Does it appear that the area is free of potentially adverse seismic interactions that could cause flooding or spray in the area? Y N U N/A

6. Does it appear that the area is free of potentially adverse seismic interactions that could cause a fire in the area? Y N U N/A

Wooden blocks were discovered inside the cabinet. This was justified due to the Danger out of service tag on the equipment associated with SO-G20A, and Procedure OI-EE-1A Att 1 Step 5B, Att 6 Step 6B, Att 8 Step 6B which shows that this transient material will be removed before equipment is energized and brought to service.

7. Does it appear that the area is free of potentially adverse seismic interactions associated with housekeeping practices, storage of portable equipment, and temporary installations (e.g., scaffolding, lead shielding)? Y N U N/A

There was a wheeled cart discovered in the area without anything restraining lateral motion that could contact the cabinet during a seismic event. CR 2012-10425 has been initiated.

² If the room in which the SWEL item is located is very large (e.g., Turbine Hall), the area selected should be described. This selected area should be based on judgment, e.g., on the order of about 35 feet from the SWEL item.

AREA WALK-BY CHECKLIST

Sheet 3 of 4

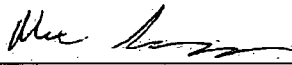
Status: Y N U

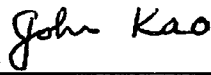
Area Walk-By Checklist (AWC) AWC- 6

Location: Bldg. AUX Floor El. 1011' Room, Area³ 56, Near 1B4A; 1B4B; 1B4C; 1A4-11; 1A4

8. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment in the area? Y N U

Comments (Additional pages may be added as necessary)

Evaluated by: Alex Smerch  Date: 8/16/2012

John Kao  8/16/2012.

³ If the room in which the SWEL item is located is very large (e.g., Turbine Hall), the area selected should be described. This selected area should be based on judgment, e.g., on the order of about 35 feet from the SWEL item.

AREA WALK-BY CHECKLIST

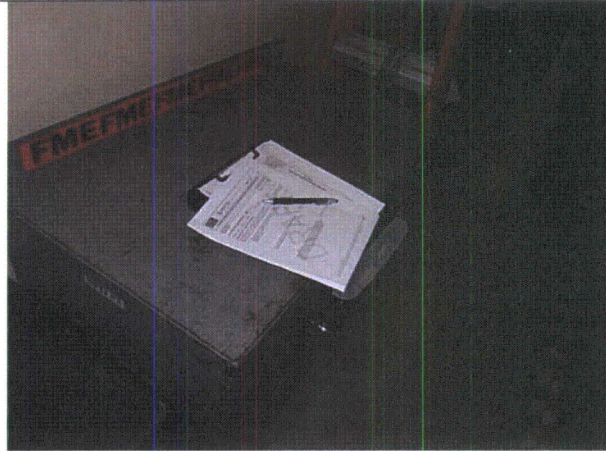
Sheet 4 of 4

Status: Y N U

Area Walk-By Checklist (AWC) AWC- 6

Location: Bldg. AUX Floor El. 1011' Room, Area⁴ 56, Near 1B4A; 1B4B; 1B4C; 1A4-11; 1A4

Photographs



Note: *Mobile storage cart.*



Note: *Light fixture without light bulb enclosure.*

⁴ If the room in which the SWEL item is located is very large (e.g., Turbine Hall), the area selected should be described. This selected area should be based on judgment, e.g., on the order of about 35 feet from the SWEL item.

AREA WALK-BY CHECKLIST

Sheet 1 of 4

Status: Y N U

Area Walk-By Checklist (AWC) AWC-7

Location: Bldg. Aux. Floor El. 1011' Room, Area: 56 East, Near 1B3A; 1B3B; 1B3C; 1A3; EE-4S; T1B-3C; EE-8F; EE-8C; EE-8H

Instructions for Completing Checklist

This checklist may be used to document the results of the Area Walk-By near one or more SWEL items. 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.

1. Does anchorage of equipment in the area appear to be free of potentially adverse seismic conditions (if visible without necessarily opening cabinets)? Y N U N/A
2. Does anchorage of equipment in the area appear to be free of significant degraded conditions? Y N U N/A
3. Based on a visual inspection from the floor, do the cable/conduit raceways and HVAC ducting appear to be free of potentially adverse seismic conditions (e.g., condition of supports is adequate and fill conditions of cable trays appear to be inside acceptable limits)? Y N U N/A

¹ If the room in which the SWEL item is located is very large (e.g., Turbine Hall), the area selected should be described. This selected area should be based on judgment, e.g., on the order of about 35 feet from the SWEL item.

AREA WALK-BY CHECKLIST

Sheet 2 of 4

Status: Y N U

Area Walk-By Checklist (AWC) AWC-7

Location: Bldg. Aux. Floor El. 1011' Room, Area 56 East, Near 1B3A; 1B3B; 1B3C; 1A3; EE-4S; T1B-3C; EE-8F; EE-8C; EE-8H

4. Does it appear that the area is free of potentially adverse seismic spatial interactions with other equipment in the area (e.g., ceiling tiles and lighting)? Y N U N/A

There are fluorescent light bulbs in hallways near equipment that are not caged which could cause a potentially adverse seismic condition with nearby equipment. CR 2012-10423 has been initiated.

5. Does it appear that the area is free of potentially adverse seismic interactions that could cause flooding or spray in the area? Y N U N/A

6. Does it appear that the area is free of potentially adverse seismic interactions that could cause a fire in the area? Y N U N/A

7. Does it appear that the area is free of potentially adverse seismic interactions associated with housekeeping practices, storage of portable equipment, and temporary installations (e.g., scaffolding, lead shielding)? Y N U N/A
-

AREA WALK-BY CHECKLIST

Sheet 3 of 4

Status: Y N U

Area Walk-By Checklist (AWC) AWC-7

Location: Bldg. Aux. Floor El. 1011' Room, Area 56 East, Near 1B3A; 1B3B; 1B3C; 1A3;
EE-4S; T1B-3C; EE-8F; EE-8C; EE-8H

8. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment in the area? Y N U

Comments (Additional pages may be added as necessary)

Evaluated by: John Kao

John Kao

Date: 8/16/2012

Alex Smerch

Alex Smerch

8/16/2012

AREA WALK-BY CHECKLIST

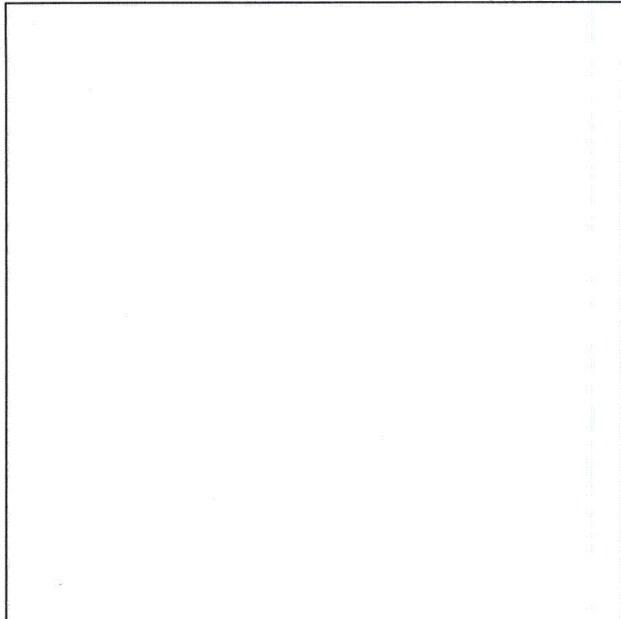
Sheet 4 of 4

Status: Y N U

Area Walk-By Checklist (AWC) AWC-7

Location: Bldg. Aux. Floor El. 1011' Room, Area 56 East, Near 1B3A; 1B3B; 1B3C; 1A3; EE-4S; T1B-3C; EE-8F; EE-8C; EE-8H

Photographs



Note:



Note: *Fluorescent light bulbs with no cage.*

AREA WALK-BY CHECKLIST

Sheet 1 of 4

Status: Y N U

Area Walk-By Checklist (AWC) AWC- 8

Location: Bldg. Aux. Floor El. 1011' Room, Area¹ 57, Near NI-001-DA1

Instructions for Completing Checklist

This checklist may be used to document the results of the Area Walk-By near one or more SWEL items. 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.

1. Does anchorage of equipment in the area appear to be free of potentially adverse seismic conditions (if visible without necessarily opening cabinets)? Y N U N/A

2. Does anchorage of equipment in the area appear to be free of significant degraded conditions? Y N U N/A

3. Based on a visual inspection from the floor, do the cable/conduit raceways and HVAC ducting appear to be free of potentially adverse seismic conditions (e.g., condition of supports is adequate and fill conditions of cable trays appear to be inside acceptable limits)? Y N U N/A

¹ If the room in which the SWEL item is located is very large (e.g., Turbine Hall), the area selected should be described. This selected area should be based on judgment, e.g., on the order of about 35 feet from the SWEL item.

AREA WALK-BY CHECKLIST

Sheet 2 of 4

Status: Y N U

Area Walk-By Checklist (AWC) AWC- 8

Location: Bldg. Aux. Floor El. 1011' Room, Area 57, Near NI-001-DA1

4. Does it appear that the area is free of potentially adverse seismic spatial interactions with other equipment in the area (e.g., ceiling tiles and lighting)? Y N U N/A

There are fluorescent light bulbs in hallways near equipment that are not caged which could cause a potentially adverse seismic condition with nearby equipment. CR 2012-10423 has been initiated.

5. Does it appear that the area is free of potentially adverse seismic interactions that could cause flooding or spray in the area? Y N U N/A

6. Does it appear that the area is free of potentially adverse seismic interactions that could cause a fire in the area? Y N U N/A

7. Does it appear that the area is free of potentially adverse seismic interactions associated with housekeeping practices, storage of portable equipment, and temporary installations (e.g., scaffolding, lead shielding)? Y N U N/A
-

AREA WALK-BY CHECKLIST

Sheet 3 of 4

Status: Y N U

Area Walk-By Checklist (AWC) AWC- 8

Location: Bldg. Aux. Floor El. 1011' Room, Area 57, Near NI-001-DA1

8. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment in the area? Y N U

Comments (Additional pages may be added as necessary)

Evaluated by: Alex Smerch *Alex Smerch* Date: 8/16/2012

John Kao *John Kao* 8/16/2012

AREA WALK-BY CHECKLIST

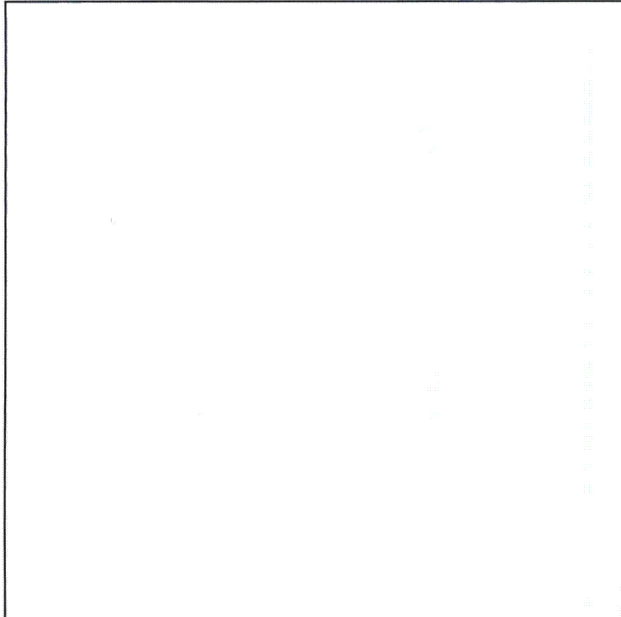
Sheet 4 of 4

Status: Y N U

Area Walk-By Checklist (AWC) AWC- 8

Location: Bldg. Aux. Floor El. 1011' Room, Area 57, Near NI-001-DA1

Photographs



Note:



Note: *Fluorescent light bulbs with no cage.*

AREA WALK-BY CHECKLIST

Sheet 1 of 4

Status: Y N U

Area Walk-By Checklist (AWC) AWC- 9

Location: Bldg. Aux. Floor El. 1011' Room, Area¹ 57, Near MCC-3B1-C2R

Instructions for Completing Checklist

This checklist may be used to document the results of the Area Walk-By near one or more SWEL items. 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.

-
1. Does anchorage of equipment in the area appear to be free of potentially adverse seismic conditions (if visible without necessarily opening cabinets)? Y N U N/A
-
2. Does anchorage of equipment in the area appear to be free of significant degraded conditions? Y N U N/A
-
3. Based on a visual inspection from the floor, do the cable/conduit raceways and HVAC ducting appear to be free of potentially adverse seismic conditions (e.g., condition of supports is adequate and fill conditions of cable trays appear to be inside acceptable limits)? Y N U N/A

¹ If the room in which the SWEL item is located is very large (e.g., Turbine Hall), the area selected should be described. This selected area should be based on judgment, e.g., on the order of about 35 feet from the SWEL item.

AREA WALK-BY CHECKLIST

Sheet 2 of 4

Status: Y N U

Area Walk-By Checklist (AWC) AWC- 9

Location: Bldg. Aux. Floor El. 1011' Room, Area 57, Near MCC-3B1-C2R

4. Does it appear that the area is free of potentially adverse seismic spatial interactions with other equipment in the area (e.g., ceiling tiles and lighting)?

Y N U N/A

There are fluorescent light bulbs in hallways near equipment that are not caged which could cause a potentially adverse seismic condition with nearby equipment. CR 2012-10423 has been initiated.

5. Does it appear that the area is free of potentially adverse seismic interactions that could cause flooding or spray in the area?

Y N U N/A

6. Does it appear that the area is free of potentially adverse seismic interactions that could cause a fire in the area?

Y N U N/A

7. Does it appear that the area is free of potentially adverse seismic interactions associated with housekeeping practices, storage of portable equipment, and temporary installations (e.g., scaffolding, lead shielding)?

Y N U N/A

AREA WALK-BY CHECKLIST

Sheet 3 of 4

Status: Y N U

Area Walk-By Checklist (AWC) AWC- 9

Location: Bldg. Aux. Floor El. 1011' Room, Area 57, Near MCC-3B1-C2R

8. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment in the area? Y N U

Comments (Additional pages may be added as necessary)

Evaluated by: Alex Smerch *Alex Smerch* Date: 8/16/2012

John Kao *John Kao* 8/16/2012

AREA WALK-BY CHECKLIST

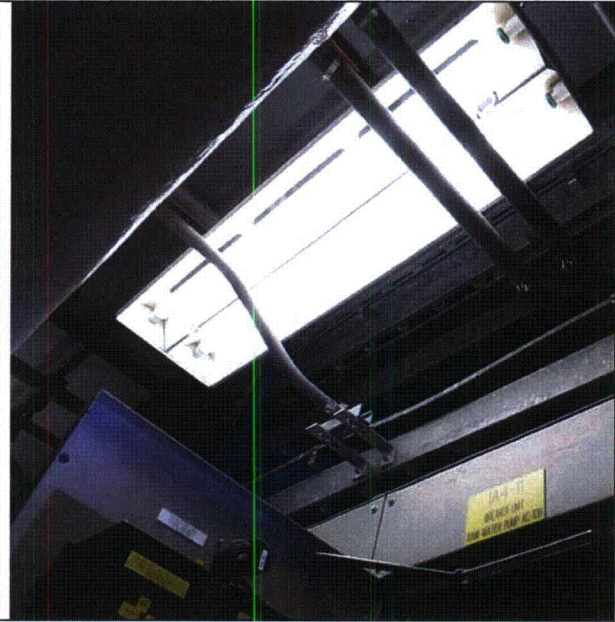
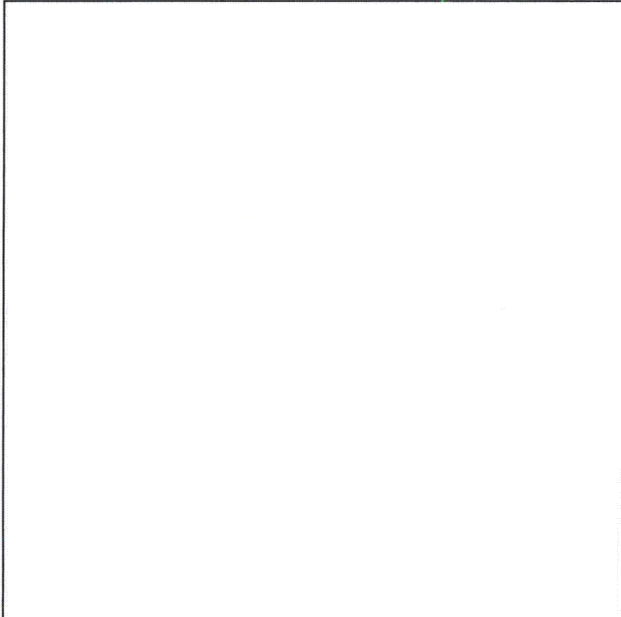
Sheet 4 of 4

Status: Y N U

Area Walk-By Checklist (AWC) AWC- 9

Location: Bldg. Aux. Floor El. 1011' Room, Area 57, Near MCC-3B1-C2R

Photographs



Note:

Note: *Fluorescent light bulbs with no cage.*

AREA WALK-BY CHECKLIST

Sheet 1 of 4

Status: Y N U

Area Walk-By Checklist (AWC) AWC- 10

Location: Bldg. Intake Floor El. 1007'-6" Room, Area¹ Grade Floor, Near FP-1B
Structure

Instructions for Completing Checklist

This checklist may be used to document the results of the Area Walk-By near one or more SWEL items. 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.

1. Does anchorage of equipment in the area appear to be free of potentially adverse seismic conditions (if visible without necessarily opening cabinets)? Y N U N/A

2. Does anchorage of equipment in the area appear to be free of significant degraded conditions? Y N U N/A

3. Based on a visual inspection from the floor, do the cable/conduit raceways and HVAC ducting appear to be free of potentially adverse seismic conditions (e.g., condition of supports is adequate and fill conditions of cable trays appear to be inside acceptable limits)? Y N U N/A

¹ If the room in which the SWEL item is located is very large (e.g., Turbine Hall), the area selected should be described. This selected area should be based on judgment, e.g., on the order of about 35 feet from the SWEL item.

AREA WALK-BY CHECKLIST

Sheet 2 of 4

Status: Y N U

Area Walk-By Checklist (AWC) AWC- 10

Location: Bldg. Intake Floor El. 1007'-6" Room, Area² Grade Floor, Near FP-1B
Structure

4. Does it appear that the area is free of potentially adverse seismic spatial interactions with other equipment in the area (e.g., ceiling tiles and lighting)? Y N U N/A

5. Does it appear that the area is free of potentially adverse seismic interactions that could cause flooding or spray in the area? Y N U N/A

6. Does it appear that the area is free of potentially adverse seismic interactions that could cause a fire in the area? Y N U N/A

7. Does it appear that the area is free of potentially adverse seismic interactions associated with housekeeping practices, storage of portable equipment, and temporary installations (e.g., scaffolding, lead shielding)? Y N U N/A

Pieces of transient material (possibly hose connectors) left in non-storage area (See photo). CR 2012-10630 has been initiated.

² If the room in which the SWEL item is located is very large (e.g., Turbine Hall), the area selected should be described. This selected area should be based on judgment, e.g., on the order of about 35 feet from the SWEL item.

AREA WALK-BY CHECKLIST

Sheet 3 of 4

Status: Y N U

Area Walk-By Checklist (AWC) AWC- 10

Location: Bldg. Intake Floor El. 1007'-6" Room, Area³ Grade Floor, Near FP-1B
Structure

8. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment in the area? Y N U

Comments (Additional pages may be added as necessary)

Evaluated by: John Kao

John Kao

Date: 8/17/2012

Alex Smerch

Alex Smerch

8/17/2012

³ If the room in which the SWEL item is located is very large (e.g., Turbine Hall), the area selected should be described. This selected area should be based on judgment, e.g., on the order of about 35 feet from the SWEL item.

AREA WALK-BY CHECKLIST

Sheet 4 of 4

Status: Y N U

Area Walk-By Checklist (AWC) AWC- 11

Location: Bldg. Intake Floor El. 1007'-6" Room, Area⁴ Grade Floor, Near FP-1B
Structure

Photographs



Note: *Piece of transient material left in non-storage area.*

Note:

⁴ If the room in which the SWEL item is located is very large (e.g., Turbine Hall), the area selected should be described. This selected area should be based on judgment, e.g., on the order of about 35 feet from the SWEL item.

AREA WALK-BY CHECKLIST

Sheet 1 of 5

Status: Y N U

Area Walk-By Checklist (AWC) AWC- 11

Location: Bldg. Intake Structure Floor El. 993'-6" Room, Area¹ North Basement Room, Near AC-12B; AC-12B-M; AC-10D

Instructions for Completing Checklist

This checklist may be used to document the results of the Area Walk-By near one or more SWEL items. 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.

1. Does anchorage of equipment in the area appear to be free of potentially adverse seismic conditions (if visible without necessarily opening cabinets)? Y N U N/A

2. Does anchorage of equipment in the area appear to be free of significant degraded conditions? Y N U N/A

3. Based on a visual inspection from the floor, do the cable/conduit raceways and HVAC ducting appear to be free of potentially adverse seismic conditions (e.g., condition of supports is adequate and fill conditions of cable trays appear to be inside acceptable limits)? Y N U N/A

¹ If the room in which the SWEL item is located is very large (e.g., Turbine Hall), the area selected should be described. This selected area should be based on judgment, e.g., on the order of about 35 feet from the SWEL item.

AREA WALK-BY CHECKLIST

Sheet 2 of 5

Status: Y N U

Area Walk-By Checklist (AWC) AWC- 11

Location: Bldg. Intake Structure Floor El. 993'-6" Room, Area North Basement Room, Near AC-12B; AC-12B-M; AC-10D

4. Does it appear that the area is free of potentially adverse seismic spatial interactions with other equipment in the area (e.g., ceiling tiles and lighting)? Y N U N/A

5. Does it appear that the area is free of potentially adverse seismic interactions that could cause flooding or spray in the area? Y N U N/A

6. Does it appear that the area is free of potentially adverse seismic interactions that could cause a fire in the area? Y N U N/A

7. Does it appear that the area is free of potentially adverse seismic interactions associated with housekeeping practices, storage of portable equipment, and temporary installations (e.g., scaffolding, lead shielding)? Y N U N/A

Portable light hung and not secured over an open sump pump could lead to electrical issues (See photos). CR 2012-10628 has been initiated.

AREA WALK-BY CHECKLIST

Sheet 3 of 5

Status: Y N U

Area Walk-By Checklist (AWC) AWC- 11

Location: Bldg. Intake Floor El. 993'-6" Room, Area North Basement Room, Near AC-12B; AC-12B-M; AC-10D
Structure

8. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment in the area? Y N U

Comments (Additional pages may be added as necessary)

Evaluated by: John Kao

John Kao

Date: 8/17/2012

Alex Smerch

Alex Smerch

8/17/2012

AREA WALK-BY CHECKLIST

Sheet 4 of 5

Status: Y N U

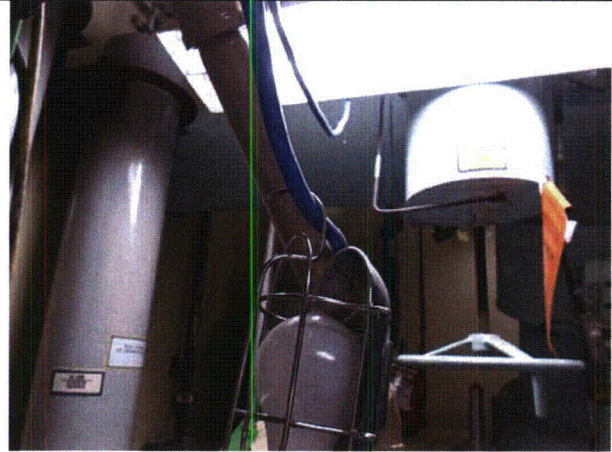
Area Walk-By Checklist (AWC) AWC- 11

Location: Bldg. Intake Structure Floor El. 993'-6" Room, Area North Basement Room, Near AC-12B; AC-12B-M; AC-10D

Photographs



Note: Blue extension cord and portable light loosely hung above sump pit.



Note: Loose fitting on cord.

AREA WALK-BY CHECKLIST

Sheet 5 of 5

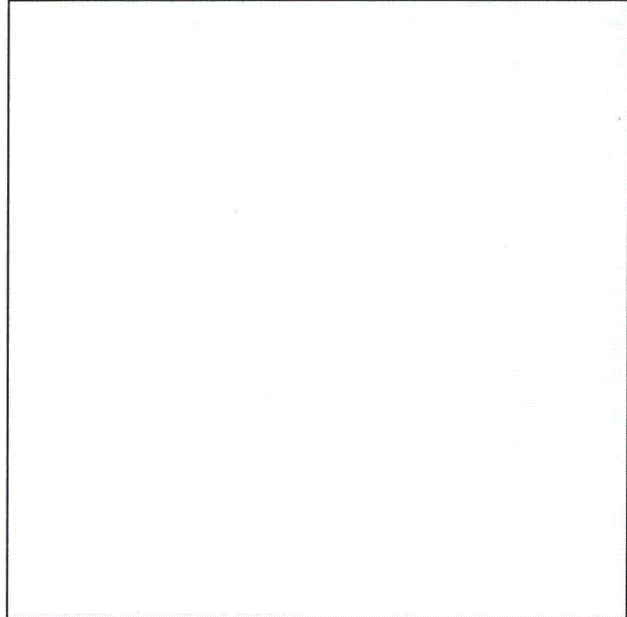
Status: Y N U

Area Walk-By Checklist (AWC) AWC- 11

Location: Bldg. Intake Structure Floor El. 993'-6" Room, Area North Basement Room, Near AC-12B; AC-12B-M; AC-10D



Note: *Device plugged in hanging over water.*



Note:

AREA WALK-BY CHECKLIST

Sheet 1 of 4

Status: Y N U

Area Walk-By Checklist (AWC) AWC- 12

Location: Bldg. Intake Structure Floor El. 994' Room, Area: Middle Basement Room, Near AC-10B; HCV-2875A; PI-2855-1

Instructions for Completing Checklist

This checklist may be used to document the results of the Area Walk-By near one or more SWEL items. 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.

-
1. Does anchorage of equipment in the area appear to be free of potentially adverse seismic conditions (if visible without necessarily opening cabinets)? Y N U N/A
2. Does anchorage of equipment in the area appear to be free of significant degraded conditions? Y N U N/A
3. Based on a visual inspection from the floor, do the cable/conduit raceways and HVAC ducting appear to be free of potentially adverse seismic conditions (e.g., condition of supports is adequate and fill conditions of cable trays appear to be inside acceptable limits)? Y N U N/A

¹ If the room in which the SWEL item is located is very large (e.g., Turbine Hall), the area selected should be described. This selected area should be based on judgment, e.g., on the order of about 35 feet from the SWEL item.

AREA WALK-BY CHECKLIST

Sheet 2 of 4

Status: Y N U

Area Walk-By Checklist (AWC) AWC- 12

Location: Bldg. Intake Structure Floor El. 994' Room, Area² Middle Basement Room, Near AC-10B; HCV-2875A; PI-2855-1

4. Does it appear that the area is free of potentially adverse seismic spatial interactions with other equipment in the area (e.g., ceiling tiles and lighting)? Y N U N/A

Light bent around equipment and hung very close to small line creating seismic spatial interaction. CR 2012-10631 has been initiated.

5. Does it appear that the area is free of potentially adverse seismic interactions that could cause flooding or spray in the area? Y N U N/A

6. Does it appear that the area is free of potentially adverse seismic interactions that could cause a fire in the area? Y N U N/A

7. Does it appear that the area is free of potentially adverse seismic interactions associated with housekeeping practices, storage of portable equipment, and temporary installations (e.g., scaffolding, lead shielding)? Y N U N/A

Wooden stairs possibly extra transient fire load to building. Licensing Basis Evaluation is required.

² If the room in which the SWEL item is located is very large (e.g., Turbine Hall), the area selected should be described. This selected area should be based on judgment, e.g., on the order of about 35 feet from the SWEL item.

AREA WALK-BY CHECKLIST

Sheet 3 of 4

Status: Y N U

Area Walk-By Checklist (AWC) AWC- 12

Location: Bldg. Intake Structure Floor El. 994' Room, Area³ Middle Basement Room, Near AC-10B; HCV-2875A; PI-2855-1

8. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment in the area? Y N U

Comments (Additional pages may be added as necessary)

Evaluated by: Alex Smerch  Date: 8/17/2012

John Kao  8/17/2012

³ If the room in which the SWEL item is located is very large (e.g., Turbine Hall), the area selected should be described. This selected area should be based on judgment, e.g., on the order of about 35 feet from the SWEL item.

AREA WALK-BY CHECKLIST

Sheet 4 of 4

Status: Y N U

Area Walk-By Checklist (AWC) AWC- 12

Location: Bldg. Intake Structure Floor El. 994' Room, Area⁴ Middle Basement Room, Near AC-10B; HCV-2875A; PI-2855-1

Photographs



Note: *Wooden stairs.*



Note: *Seismic Spatial interaction between light and small piping.*

⁴ If the room in which the SWEL item is located is very large (e.g., Turbine Hall), the area selected should be described. This selected area should be based on judgment, e.g., on the order of about 35 feet from the SWEL item.

AREA WALK-BY CHECKLIST

Sheet 1 of 4

Status: Y N U

Area Walk-By Checklist (AWC) AWC- 13

Location: Bldg. Intake Floor El. 994' Room, Area¹ South Basement Room, Near HCV-2874A

Instructions for Completing Checklist

This checklist may be used to document the results of the Area Walk-By near one or more SWEL items. 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.

1. Does anchorage of equipment in the area appear to be free of potentially adverse seismic conditions (if visible without necessarily opening cabinets)? Y N U N/A
AC-12A, like AC-12B, looks to have a lack of thread engagement between 1.25" diameter anchor bolts and nuts. CR 2012-10553 has been initiated.

2. Does anchorage of equipment in the area appear to be free of significant degraded conditions? Y N U N/A

3. Based on a visual inspection from the floor, do the cable/conduit raceways and HVAC ducting appear to be free of potentially adverse seismic conditions (e.g., condition of supports is adequate and fill conditions of cable trays appear to be inside acceptable limits)? Y N U N/A

¹ If the room in which the SWEL item is located is very large (e.g., Turbine Hall), the area selected should be described. This selected area should be based on judgment, e.g., on the order of about 35 feet from the SWEL item.

AREA WALK-BY CHECKLIST

Sheet 2 of 4

Status: Y N U

Area Walk-By Checklist (AWC) AWC- 13

Location: Bldg. Intake Floor El. 994' Room, Area South Basement Room, Near HCV-2874A

4. Does it appear that the area is free of potentially adverse seismic spatial interactions with other equipment in the area (e.g., ceiling tiles and lighting)? Y N U N/A

5. Does it appear that the area is free of potentially adverse seismic interactions that could cause flooding or spray in the area? Y N U N/A

6. Does it appear that the area is free of potentially adverse seismic interactions that could cause a fire in the area? Y N U N/A

7. Does it appear that the area is free of potentially adverse seismic interactions associated with housekeeping practices, storage of portable equipment, and temporary installations (e.g., scaffolding, lead shielding)? Y N U N/A

The entrance to the south basement room has wooden staircase that could pose a fire hazard. Licensing basis evaluation required.

AREA WALK-BY CHECKLIST

Sheet 3 of 4

Status: Y N U

Area Walk-By Checklist (AWC) AWC- 13

Location: Bldg. Intake Floor El. 994' Room, Area South Basement Room, Near HCV-2874A

8. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment in the area? Y N U

Comments (Additional pages may be added as necessary)

Evaluated by: John Kao *John Kao* Date: 8/17/2012

Alex Smerch *Alex Smerch* 8/17/2012

AREA WALK-BY CHECKLIST

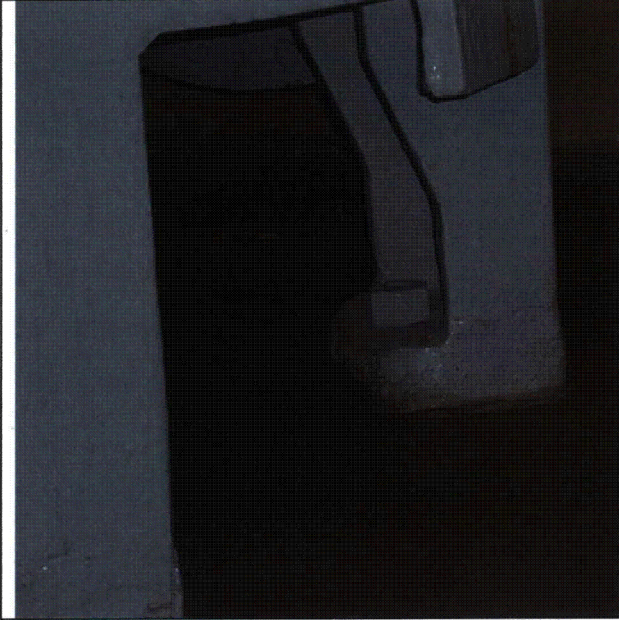
Sheet 4 of 4

Status: Y N U

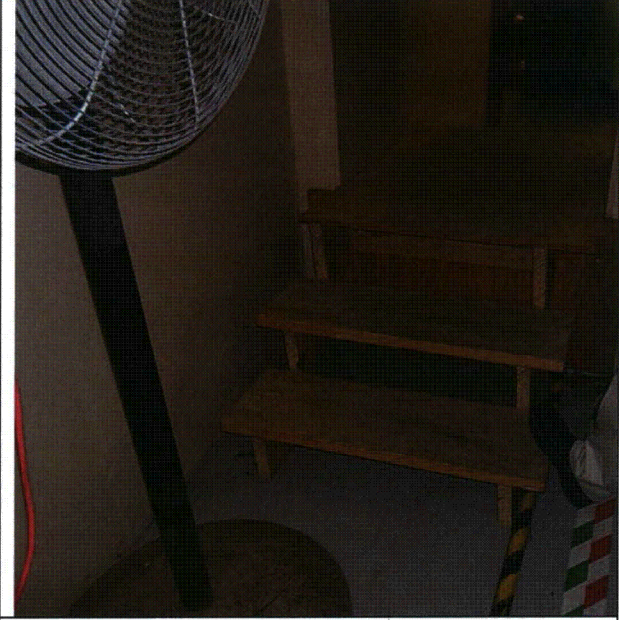
Area Walk-By Checklist (AWC) AWC- 13

Location: Bldg. Intake Floor El. 994' Room, Area South Basement Room, Near HCV-2874A

Photographs



Note: Lack of thread engagement in Raw Water Strainer AC-12A



Note: Wooden staircase into room

AREA WALK-BY CHECKLIST

Sheet 1 of 4

Status: Y N U

Area Walk-By Checklist (AWC) AWC- 14

Location: Bldg. AUX Floor El. 1036' Room, Area: 77, Near DC-BUS-AI-41A; I-BUS-A; AI-40A; AI-41A; RM-051

Instructions for Completing Checklist

This checklist may be used to document the results of the Area Walk-By near one or more SWEL items. 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.

-
1. Does anchorage of equipment in the area appear to be free of potentially adverse seismic conditions (if visible without necessarily opening cabinets)? Y N U N/A
2. Does anchorage of equipment in the area appear to be free of significant degraded conditions? Y N U N/A
3. Based on a visual inspection from the floor, do the cable/conduit raceways and HVAC ducting appear to be free of potentially adverse seismic conditions (e.g., condition of supports is adequate and fill conditions of cable trays appear to be inside acceptable limits)? Y N U N/A

¹ If the room in which the SWEL item is located is very large (e.g., Turbine Hall), the area selected should be described. This selected area should be based on judgment, e.g., on the order of about 35 feet from the SWEL item.

AREA WALK-BY CHECKLIST

Sheet 2 of 4

Status: Y N U

Area Walk-By Checklist (AWC) AWC- 14

Location: Bldg. AUX Floor El. 1036' Room, Area² 77, Near DC-BUS-AI-41A; I-BUS-A; AI-40A; AI-41A; RM-051

4. Does it appear that the area is free of potentially adverse seismic spatial interactions with other equipment in the area (e.g., ceiling tiles and lighting)? Y N U N/A

5. Does it appear that the area is free of potentially adverse seismic interactions that could cause flooding or spray in the area? Y N U N/A

6. Does it appear that the area is free of potentially adverse seismic interactions that could cause a fire in the area? Y N U N/A

7. Does it appear that the area is free of potentially adverse seismic interactions associated with housekeeping practices, storage of portable equipment, and temporary installations (e.g., scaffolding, lead shielding)? Y N U N/A

There is a mobile white board that does not have any locking mechanism on its wheels and could impact safety related components during a seismic event. There is also a water cooler with a relatively high center of gravity and no restraint. It could contact safety related equipment in a seismic event. CR 2012-10684 has been initiated.

² If the room in which the SWEL item is located is very large (e.g., Turbine Hall), the area selected should be described. This selected area should be based on judgment, e.g., on the order of about 35 feet from the SWEL item.

AREA WALK-BY CHECKLIST

Sheet 3 of 4

Status: Y N U

Area Walk-By Checklist (AWC) AWC- 14

Location: Bldg. AUX Floor El. 1036' Room, Area³ 77, Near DC-BUS-AI-41A; I-BUS-A; AI-40A; AI-41A; RM-051

8. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment in the area? Y N U

Comments (Additional pages may be added as necessary)

Evaluated by: John Kao

John Kao

Date: 8/18/2012

Alex Smerch

Alex Smerch

8/18/2012

³ If the room in which the SWEL item is located is very large (e.g., Turbine Hall), the area selected should be described. This selected area should be based on judgment, e.g., on the order of about 35 feet from the SWEL item.

AREA WALK-BY CHECKLIST

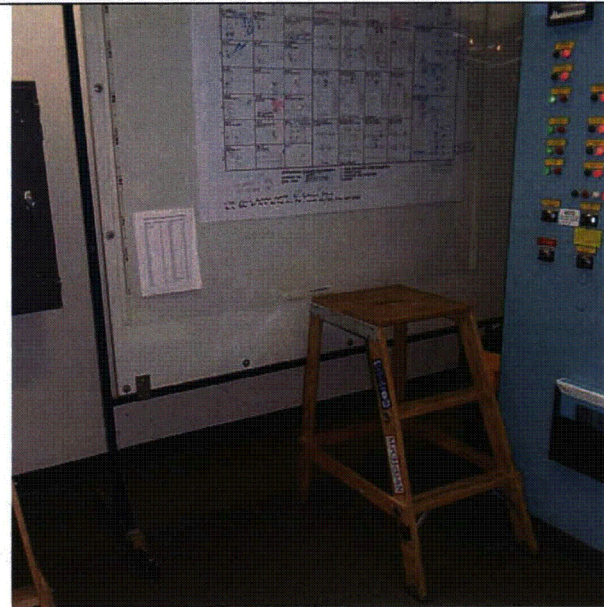
Sheet 4 of 4

Status: Y N U

Area Walk-By Checklist (AWC) AWC- 14

Location: Bldg. AUX Floor El. 1036' Room, Area⁴ 77, Near DC-BUS-AI-41A; I-BUS-A; AI-40A; AI-41A; RM-051

Photographs



Note: Mobile white board with no wheel restraint.



Note: Top heavy water cooler near SR equipment.

⁴ If the room in which the SWEL item is located is very large (e.g., Turbine Hall), the area selected should be described. This selected area should be based on judgment, e.g., on the order of about 35 feet from the SWEL item.

AREA WALK-BY CHECKLIST

Sheet 1 of 4

Status: Y N U

Area Walk-By Checklist (AWC) AWC- 15

Location: Bldg. AUX Floor El. 1036' Room, Area: 72, Near TCV-893; VA-46A

Instructions for Completing Checklist

This checklist may be used to document the results of the Area Walk-By near one or more SWEL items. 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.

1. Does anchorage of equipment in the area appear to be free of potentially adverse seismic conditions (if visible without necessarily opening cabinets)? Y N U N/A

2. Does anchorage of equipment in the area appear to be free of significant degraded conditions? Y N U N/A

3. Based on a visual inspection from the floor, do the cable/conduit raceways and HVAC ducting appear to be free of potentially adverse seismic conditions (e.g., condition of supports is adequate and fill conditions of cable trays appear to be inside acceptable limits)? Y N U N/A

¹ If the room in which the SWEL item is located is very large (e.g., Turbine Hall), the area selected should be described. This selected area should be based on judgment, e.g., on the order of about 35 feet from the SWEL item.

AREA WALK-BY CHECKLIST

Sheet 2 of 4

Status: Y N U

Area Walk-By Checklist (AWC) AWC- 15

Location: Bldg. AUX Floor El. 1036' Room, Area² 72, Near TCV-893; VA-46A

4. Does it appear that the area is free of potentially adverse seismic spatial interactions with other equipment in the area (e.g., ceiling tiles and lighting)? Y N U N/A

Hanging rope with metal clamp on it could impact manifold valve for FT-6683 and FT-6684 (see attached photos). CR 2012-10672 has been initiated.

5. Does it appear that the area is free of potentially adverse seismic interactions that could cause flooding or spray in the area? Y N U N/A

6. Does it appear that the area is free of potentially adverse seismic interactions that could cause a fire in the area? Y N U N/A

7. Does it appear that the area is free of potentially adverse seismic interactions associated with housekeeping practices, storage of portable equipment, and temporary installations (e.g., scaffolding, lead shielding)? Y N U N/A

² If the room in which the SWEL item is located is very large (e.g., Turbine Hall), the area selected should be described. This selected area should be based on judgment, e.g., on the order of about 35 feet from the SWEL item.

AREA WALK-BY CHECKLIST

Sheet 3 of 4

Status: Y N U

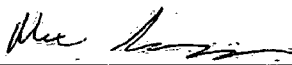
Area Walk-By Checklist (AWC) AWC- 15

Location: Bldg. AUX Floor El. 1036' Room, Area³ 72, Near TCV-893; VA-46A

8. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment in the area? Y N U

A beam was connected to a ~1" embed plate with slotted holes in the vertical direction, thus potentially putting the bolts in bending under gravity loads (see attached photos). CR 2012-10676 has been initiated.

Comments (Additional pages may be added as necessary)

Evaluated by: Alex Smerch  Date: 8/21/2012

John Kao  8/21/2012

³ If the room in which the SWEL item is located is very large (e.g., Turbine Hall), the area selected should be described. This selected area should be based on judgment, e.g., on the order of about 35 feet from the SWEL item.

AREA WALK-BY CHECKLIST

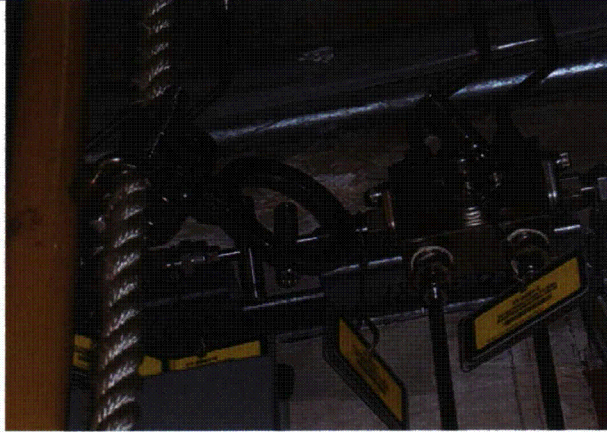
Sheet 4 of 4

Status: Y N U

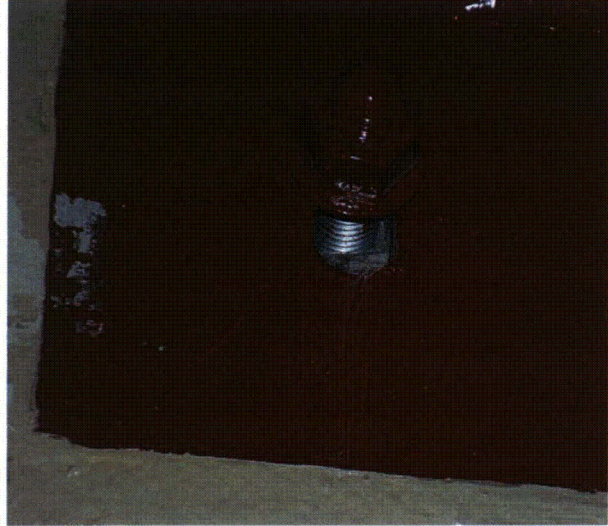
Area Walk-By Checklist (AWC) AWC- 15

Location: Bldg. AUX Floor El. 1036' Room, Area⁴ 72, Near TCV-893; VA-46A

Photographs



Note: *Rope clamp near SR equipment.*



Note: *Bolt with slotted hole in vertical direction.*

⁴ If the room in which the SWEL item is located is very large (e.g., Turbine Hall), the area selected should be described. This selected area should be based on judgment, e.g., on the order of about 35 feet from the SWEL item.

AREA WALK-BY CHECKLIST

Sheet 1 of 3

Status: Y N U

Area Walk-By Checklist (AWC) AWC- 16

Location: Bldg. AUX Floor El. 1036' Room, Area: 81, Near HCV-1107B; HCV-1384; LT-1183; FW-19; FP-456; HCV-1040; RW-262

Instructions for Completing Checklist

This checklist may be used to document the results of the Area Walk-By near one or more SWEL items. 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.

-
1. Does anchorage of equipment in the area appear to be free of potentially adverse seismic conditions (if visible without necessarily opening cabinets)? Y N U N/A
2. Does anchorage of equipment in the area appear to be free of significant degraded conditions? Y N U N/A
3. Based on a visual inspection from the floor, do the cable/conduit raceways and HVAC ducting appear to be free of potentially adverse seismic conditions (e.g., condition of supports is adequate and fill conditions of cable trays appear to be inside acceptable limits)? Y N U N/A

¹ If the room in which the SWEL item is located is very large (e.g., Turbine Hall), the area selected should be described. This selected area should be based on judgment, e.g., on the order of about 35 feet from the SWEL item.

AREA WALK-BY CHECKLIST

Sheet 2 of 3

Status: Y N U

Area Walk-By Checklist (AWC) AWC- 16

Location: Bldg. AUX Floor El. 1036' Room, Area² 81, Near HCV-1107B; HCV-1384; LT-1183; FW-19; FP-456; HCV-1040; RW-262

4. Does it appear that the area is free of potentially adverse seismic spatial interactions with other equipment in the area (e.g., ceiling tiles and lighting)? Y N U N/A

5. Does it appear that the area is free of potentially adverse seismic interactions that could cause flooding or spray in the area? Y N U N/A

6. Does it appear that the area is free of potentially adverse seismic interactions that could cause a fire in the area? Y N U N/A

7. Does it appear that the area is free of potentially adverse seismic interactions associated with housekeeping practices, storage of portable equipment, and temporary installations (e.g., scaffolding, lead shielding)? Y N U N/A

² If the room in which the SWEL item is located is very large (e.g., Turbine Hall), the area selected should be described. This selected area should be based on judgment, e.g., on the order of about 35 feet from the SWEL item.

AREA WALK-BY CHECKLIST

Sheet 3 of 3

Status: Y N U

Area Walk-By Checklist (AWC) AWC-16

Location: Bldg. AUX Floor El. 1036' Room, Area³ 81, Near HCV-1107B; HCV-1384; LT-1183; FW-19; FP-456; HCV-1040; RW-262

8. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment in the area? Y N U

Comments (Additional pages may be added as necessary)

Evaluated by: John Kao

John Kao

Date: 8/18/2012

Alex Smerch

Alex Smerch

8/18/2012

³ If the room in which the SWEL item is located is very large (e.g., Turbine Hall), the area selected should be described. This selected area should be based on judgment, e.g., on the order of about 35 feet from the SWEL item.

AREA WALK-BY CHECKLIST

Sheet 1 of 4

Status: Y N U

Area Walk-By Checklist (AWC) AWC- 17

Location: Bldg. AUX Floor El. 989' Room, Area¹ 6, near CH-1A; HCV-474

Instructions for Completing Checklist

This checklist may be used to document the results of the Area Walk-By near one or more SWEL items. 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.

-
1. Does anchorage of equipment in the area appear to be free of potentially adverse seismic conditions (if visible without necessarily opening cabinets)? Y N U N/A
2. Does anchorage of equipment in the area appear to be free of significant degraded conditions? Y N U N/A
3. Based on a visual inspection from the floor, do the cable/conduit raceways and HVAC ducting appear to be free of potentially adverse seismic conditions (e.g., condition of supports is adequate and fill conditions of cable trays appear to be inside acceptable limits)? Y N U N/A

¹ If the room in which the SWEL item is located is very large (e.g., Turbine Hall), the area selected should be described. This selected area should be based on judgment, e.g., on the order of about 35 feet from the SWEL item.

AREA WALK-BY CHECKLIST

Sheet 2 of 4

Status: Y N U

Area Walk-By Checklist (AWC) AWC- 17

Location: Bldg. AUX Floor El. 989' Room, Area² 6, near CH-1A; HCV-474

4. Does it appear that the area is free of potentially adverse seismic spatial interactions with other equipment in the area (e.g., ceiling tiles and lighting)? Y N U N/A

5. Does it appear that the area is free of potentially adverse seismic interactions that could cause flooding or spray in the area? Y N U N/A

6. Does it appear that the area is free of potentially adverse seismic interactions that could cause a fire in the area? Y N U N/A

7. Does it appear that the area is free of potentially adverse seismic interactions associated with housekeeping practices, storage of portable equipment, and temporary installations (e.g., scaffolding, lead shielding)? Y N U N/A

Table with tools is not tied down and ladder is in red zone (possibly marked as unsuitable zone for equipment storage). CR 2012-12401 has been initiated.

² If the room in which the SWEL item is located is very large (e.g., Turbine Hall), the area selected should be described. This selected area should be based on judgment, e.g., on the order of about 35 feet from the SWEL item.

AREA WALK-BY CHECKLIST

Sheet 3 of 4

Status: Y N U

Area Walk-By Checklist (AWC) AWC- 17

Location: Bldg. AUX Floor El. 989' Room, Area³ 6, near CH-1A; HCV-474

8. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment in the area? Y N U

Comments (Additional pages may be added as necessary)

Evaluated by: John Kao *John Kao* Date: 8/20/2012

Alex Smerch *Alex Smerch* 8/20/2012

³ If the room in which the SWEL item is located is very large (e.g., Turbine Hall), the area selected should be described. This selected area should be based on judgment, e.g., on the order of about 35 feet from the SWEL item.

AREA WALK-BY CHECKLIST

Sheet 4 of 4

Status: Y N U

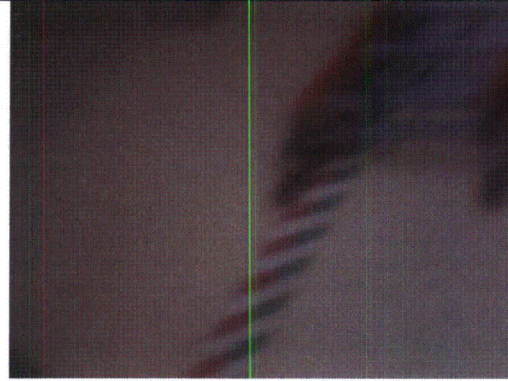
Area Walk-By Checklist (AWC) AWC- 17

Location: Bldg. AUX Floor El. 989' Room, Area⁴ 6, near CH-1A; HCV-474

Photographs



Note: *Table with wrench on it.*



Note: *Ladder laying in red zone.*

⁴ If the room in which the SWEL item is located is very large (e.g., Turbine Hall), the area selected should be described. This selected area should be based on judgment, e.g., on the order of about 35 feet from the SWEL item.

AREA WALK-BY CHECKLIST

Sheet 1 of 4

Status: Y N U

Area Walk-By Checklist (AWC) AWC- 18

Location: Bldg. AUX Floor El. 989' Room, Area¹ 5, Near AC-5A; AC-5B; HCV-478; AC-8

Instructions for Completing Checklist

This checklist may be used to document the results of the Area Walk-By near one or more SWEL items. 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.

-
1. Does anchorage of equipment in the area appear to be free of potentially adverse seismic conditions (if visible without necessarily opening cabinets)? Y N U N/A
2. Does anchorage of equipment in the area appear to be free of significant degraded conditions? Y N U N/A
3. Based on a visual inspection from the floor, do the cable/conduit raceways and HVAC ducting appear to be free of potentially adverse seismic conditions (e.g., condition of supports is adequate and fill conditions of cable trays appear to be inside acceptable limits)? Y N U N/A

¹ If the room in which the SWEL item is located is very large (e.g., Turbine Hall), the area selected should be described. This selected area should be based on judgment, e.g., on the order of about 35 feet from the SWEL item.

AREA WALK-BY CHECKLIST

Sheet 2 of 4

Status: Y N U

Area Walk-By Checklist (AWC) AWC- 18

Location: Bldg. AUX Floor El. 989' Room, Area² 5, Near AC-5A; AC-5B; HCV-478; AC-8

4. Does it appear that the area is free of potentially adverse seismic spatial interactions with other equipment in the area (e.g., ceiling tiles and lighting)? Y N U N/A

Gray color support adjacent to Junction box JB1301A a potential seismic interaction issue. CR 2012-12402 has been initiated.

5. Does it appear that the area is free of potentially adverse seismic interactions that could cause flooding or spray in the area? Y N U N/A

6. Does it appear that the area is free of potentially adverse seismic interactions that could cause a fire in the area? Y N U N/A

7. Does it appear that the area is free of potentially adverse seismic interactions associated with housekeeping practices, storage of portable equipment, and temporary installations (e.g., scaffolding, lead shielding)? Y N U N/A

² If the room in which the SWEL item is located is very large (e.g., Turbine Hall), the area selected should be described. This selected area should be based on judgment, e.g., on the order of about 35 feet from the SWEL item.

AREA WALK-BY CHECKLIST

Sheet 3 of 4

Status: Y N U

Area Walk-By Checklist (AWC) AWC- 18

Location: Bldg. AUX Floor El. 989' Room, Area³ 5, Near AC-5A; AC-5B; HCV-478; AC-8

8. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment in the area? Y N U

*Block wall is ungrouted and appears not to be laterally restrained. CR
2012-10915 has been initiated.*

Comments (Additional pages may be added as necessary)

Evaluated by: John Kao *John Kao* Date: 8/20/2012

Alex Smerch *Alex Smerch* 8/20/2012

³ If the room in which the SWEL item is located is very large (e.g., Turbine Hall), the area selected should be described. This selected area should be based on judgment, e.g., on the order of about 35 feet from the SWEL item.

AREA WALK-BY CHECKLIST

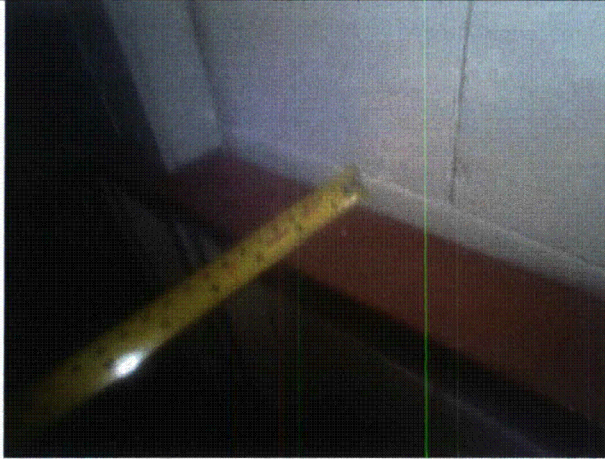
Sheet 4 of 4

Status: Y N U

Area Walk-By Checklist (AWC) AWC- 18

Location: Bldg. AUX Floor El. 989' Room, Area⁴ 5, Near AC-5A; AC-5B; HCV-478; AC-8

Photographs



Note: *Gap between steel angle L2x2 and block wall.*

Note:

⁴ If the room in which the SWEL item is located is very large (e.g., Turbine Hall), the area selected should be described. This selected area should be based on judgment, e.g., on the order of about 35 feet from the SWEL item.

AREA WALK-BY CHECKLIST

Sheet 1 of 5

Status: Y N U

Area Walk-By Checklist (AWC) AWC- 19

Location: Bldg. AUX Floor El. 989' Room, Area¹ 7, Near CH-193; LCV-218-3; CH-172

Instructions for Completing Checklist

This checklist may be used to document the results of the Area Walk-By near one or more SWEL items. 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.

1. Does anchorage of equipment in the area appear to be free of potentially adverse seismic conditions (if visible without necessarily opening cabinets)? Y N U N/A

2. Does anchorage of equipment in the area appear to be free of significant degraded conditions? Y N U N/A
There was pitting of concrete underneath pipe supports on the wall. CR 2012-10919 has been initiated.

3. Based on a visual inspection from the floor, do the cable/conduit raceways and HVAC ducting appear to be free of potentially adverse seismic conditions (e.g., condition of supports is adequate and fill conditions of cable trays appear to be inside acceptable limits)? Y N U N/A

¹ If the room in which the SWEL item is located is very large (e.g., Turbine Hall), the area selected should be described. This selected area should be based on judgment, e.g., on the order of about 35 feet from the SWEL item.

AREA WALK-BY CHECKLIST

Sheet 2 of 5

Status: Y N U

Area Walk-By Checklist (AWC) AWC- 19

Location: Bldg. AUX Floor El. 989' Room, Area² 7, Near CH-193; LCV-218-3; CH-172

4. Does it appear that the area is free of potentially adverse seismic spatial interactions with other equipment in the area (e.g., ceiling tiles and lighting)? Y N U N/A

5. Does it appear that the area is free of potentially adverse seismic interactions that could cause flooding or spray in the area? Y N U N/A

6. Does it appear that the area is free of potentially adverse seismic interactions that could cause a fire in the area? Y N U N/A
Electrical cords hanging loosely over area could cause a fire. CR 2012-12403 has been initiated.

7. Does it appear that the area is free of potentially adverse seismic interactions associated with housekeeping practices, storage of portable equipment, and temporary installations (e.g., scaffolding, lead shielding)? Y N U N/A
Cart with wheels loaded with wrenches and chemical cleaners could roll and strike safety related equipment. CR 2012-10916 has been initiated.

² If the room in which the SWEL item is located is very large (e.g., Turbine Hall), the area selected should be described. This selected area should be based on judgment, e.g., on the order of about 35 feet from the SWEL item.

AREA WALK-BY CHECKLIST

Sheet 3 of 5

Status: Y N U

Area Walk-By Checklist (AWC) AWC- 19

Location: Bldg. AUX Floor El. 989' Room, Area³ 7, Near CH-193; LCV-218-3; CH-172

8. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment in the area? Y N U

Comments (Additional pages may be added as necessary)

Evaluated by: John Kao *John Kao* Date: 8/20/2012

Alex Smerch *Alex Smerch* 8/20/2012

³ If the room in which the SWEL item is located is very large (e.g., Turbine Hall), the area selected should be described. This selected area should be based on judgment, e.g., on the order of about 35 feet from the SWEL item.

AREA WALK-BY CHECKLIST

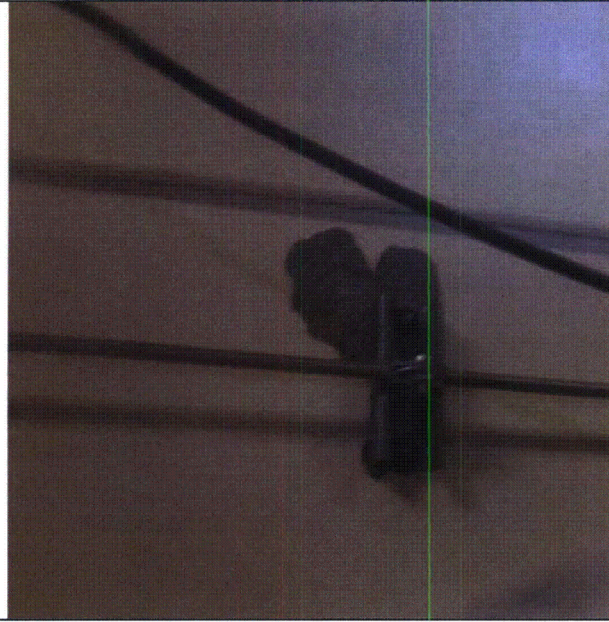
Sheet 4 of 5

Status: Y N U

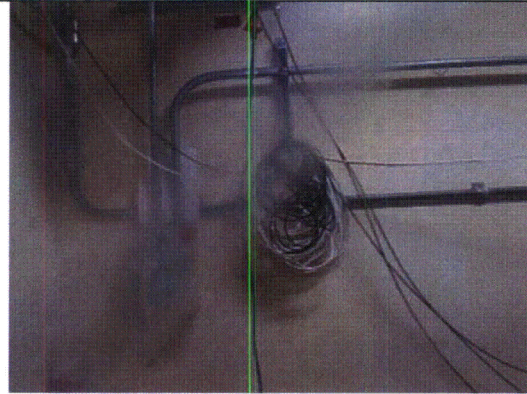
Area Walk-By Checklist (AWC) AWC- 19

Location: Bldg. AUX Floor El. 989' Room, Area⁴ 7, Near CH-193; LCV-218-3; CH-172

Photographs



Note: Concrete pitting and spalling, needs repair.



Note: Electrical cords over area.

⁴ If the room in which the SWEL item is located is very large (e.g., Turbine Hall), the area selected should be described. This selected area should be based on judgment, e.g., on the order of about 35 feet from the SWEL item.

AREA WALK-BY CHECKLIST

Sheet 5 of 5

Status: Y N U

Area Walk-By Checklist (AWC) AWC- 19

Location: Bldg. AUX Floor El. 989' Room, Area⁵ 7, Near CH-193; LCV-218-3; CH-172



Note: *Cart on wheels with tools and cleaners on top of it.*



Note:

⁵ If the room in which the SWEL item is located is very large (e.g., Turbine Hall), the area selected should be described. This selected area should be based on judgment, e.g., on the order of about 35 feet from the SWEL item.

AREA WALK-BY CHECKLIST

Sheet 1 of 5

Status: Y N U

Area Walk-By Checklist (AWC) AWC-20

Location: Bldg. AUX Floor El. 989' Room, Area¹ 4, Near AC-1A; HCV-484; HCV-497; HCV-489B

Instructions for Completing Checklist

This checklist may be used to document the results of the Area Walk-By near one or more SWEL items. 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.

-
1. Does anchorage of equipment in the area appear to be free of potentially adverse seismic conditions (if visible without necessarily opening cabinets)? Y N U N/A
2. Does anchorage of equipment in the area appear to be free of significant degraded conditions? Y N U N/A
3. Based on a visual inspection from the floor, do the cable/conduit raceways and HVAC ducting appear to be free of potentially adverse seismic conditions (e.g., condition of supports is adequate and fill conditions of cable trays appear to be inside acceptable limits)? Y N U N/A

¹ If the room in which the SWEL item is located is very large (e.g., Turbine Hall), the area selected should be described. This selected area should be based on judgment, e.g., on the order of about 35 feet from the SWEL item.

AREA WALK-BY CHECKLIST

Sheet 2 of 5

Status: Y N U

Area Walk-By Checklist (AWC) AWC- 20

Location: Bldg. AUX Floor El. 989' Room, Area² 4, Near AC-1A; HCV-484; HCV-497; HCV-489B

4. Does it appear that the area is free of potentially adverse seismic spatial interactions with other equipment in the area (e.g., ceiling tiles and lighting)? Y N U N/A

Clearance between a pipe and a different vertical pipe support is less than 2" that could lead to possible seismic spatial interaction issues. CR 2012-12404 has been initiated.

5. Does it appear that the area is free of potentially adverse seismic interactions that could cause flooding or spray in the area? Y N U N/A

6. Does it appear that the area is free of potentially adverse seismic interactions that could cause a fire in the area? Y N U N/A

7. Does it appear that the area is free of potentially adverse seismic interactions associated with housekeeping practices, storage of portable equipment, and temporary installations (e.g., scaffolding, lead shielding)? Y N U N/A

Chain from trolley above AC-1A is not securely tied, thereby possibly capable of striking safety related equipment nearby. CR 2012-10917 has been initiated.

² If the room in which the SWEL item is located is very large (e.g., Turbine Hall), the area selected should be described. This selected area should be based on judgment, e.g., on the order of about 35 feet from the SWEL item.

AREA WALK-BY CHECKLIST

Sheet 3 of 5

Status: Y N U

Area Walk-By Checklist (AWC) AWC- 20

Location: Bldg. AUX Floor El. 989' Room, Area³ 4, Near AC-1A; HCV-484; HCV-497; HCV-489B

8. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment in the area? Y N U

Comments (Additional pages may be added as necessary)

Evaluated by: John Kao

John Kao

Date: 8/20/2012

Alex Smerch

Alex Smerch

8/20/2012

³ If the room in which the SWEL item is located is very large (e.g., Turbine Hall), the area selected should be described. This selected area should be based on judgment, e.g., on the order of about 35 feet from the SWEL item.

AREA WALK-BY CHECKLIST

Sheet 4 of 5

Status: Y N U

Area Walk-By Checklist (AWC) AWC- 20

Location: Bldg. AUX Floor El. 989' Room, Area⁴ 4, Near AC-1A; HCV-484; HCV-497; HCV-489B

Photographs



Note: *Equipment.*



Note: *Spatial interaction between pipe and vertical pipe support is < 2".*

⁴ If the room in which the SWEL item is located is very large (e.g., Turbine Hall), the area selected should be described. This selected area should be based on judgment, e.g., on the order of about 35 feet from the SWEL item.

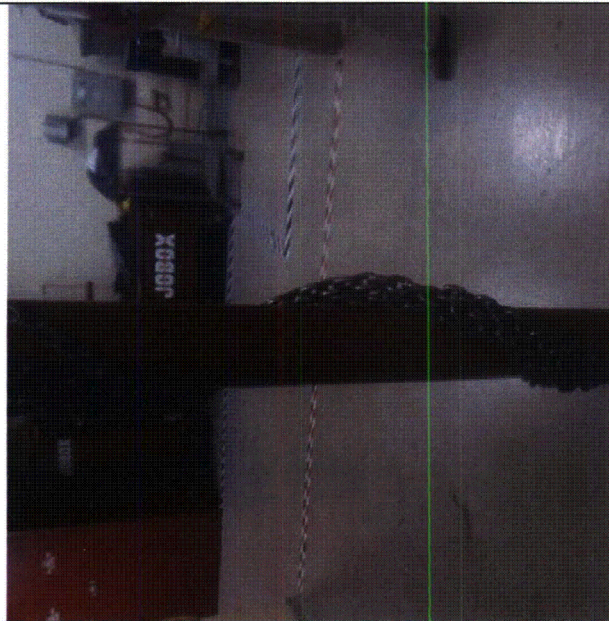
AREA WALK-BY CHECKLIST

Sheet 5 of 5

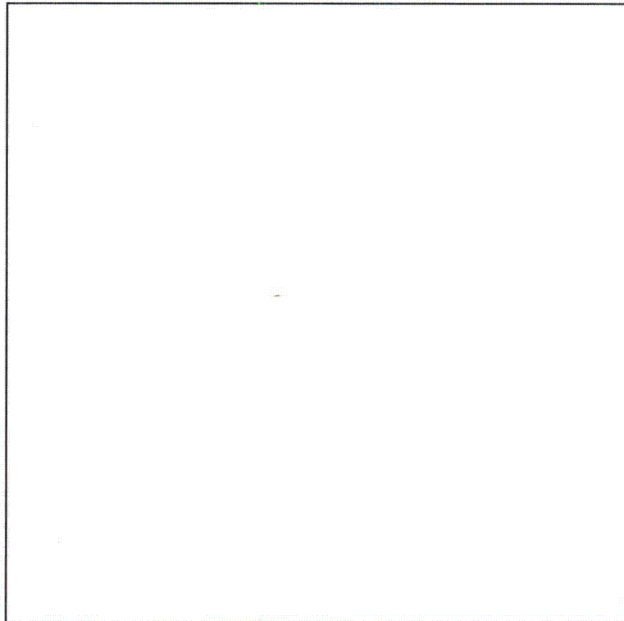
Status: Y N U

Area Walk-By Checklist (AWC) AWC- 20

Location: Bldg. AUX Floor El. 989' Room, Area⁵ 4, Near AC-1A; HCV-484; HCV-497; HCV-489B



Note: Chain from trolley above AC-1A is not secure and could impact safety related equipment in area.



Note:

⁵ If the room in which the SWEL item is located is very large (e.g., Turbine Hall), the area selected should be described. This selected area should be based on judgment, e.g., on the order of about 35 feet from the SWEL item.

AREA WALK-BY CHECKLIST

Sheet 1 of 3

Status: Y N U

Area Walk-By Checklist (AWC) AWC- 21

Location: Bldg. AUX Floor El. 1025' Room, Area¹ 69, Near AC-3C; AC-3B; AC-100; AC-102

Instructions for Completing Checklist

This checklist may be used to document the results of the Area Walk-By near one or more SWEL items. 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.

-
1. Does anchorage of equipment in the area appear to be free of potentially adverse seismic conditions (if visible without necessarily opening cabinets)? Y N U N/A
2. Does anchorage of equipment in the area appear to be free of significant degraded conditions? Y N U N/A
3. Based on a visual inspection from the floor, do the cable/conduit raceways and HVAC ducting appear to be free of potentially adverse seismic conditions (e.g., condition of supports is adequate and fill conditions of cable trays appear to be inside acceptable limits)? Y N U N/A

¹ If the room in which the SWEL item is located is very large (e.g., Turbine Hall), the area selected should be described. This selected area should be based on judgment, e.g., on the order of about 35 feet from the SWEL item.

AREA WALK-BY CHECKLIST

Sheet 2 of 3

Status: Y N U

Area Walk-By Checklist (AWC) AWC- 21

Location: Bldg. AUX Floor El. 1025' Room, Area² 69, Near AC-3C; AC-3B; AC-100; AC-102

4. Does it appear that the area is free of potentially adverse seismic spatial interactions with other equipment in the area (e.g., ceiling tiles and lighting)? Y N U N/A

5. Does it appear that the area is free of potentially adverse seismic interactions that could cause flooding or spray in the area? Y N U N/A

6. Does it appear that the area is free of potentially adverse seismic interactions that could cause a fire in the area? Y N U N/A

7. Does it appear that the area is free of potentially adverse seismic interactions associated with housekeeping practices, storage of portable equipment, and temporary installations (e.g., scaffolding, lead shielding)? Y N U N/A

² If the room in which the SWEL item is located is very large (e.g., Turbine Hall), the area selected should be described. This selected area should be based on judgment, e.g., on the order of about 35 feet from the SWEL item.

AREA WALK-BY CHECKLIST

Sheet 3 of 3

Status: Y N U

Area Walk-By Checklist (AWC) AWC- 21

Location: Bldg. AUX Floor El. 1025' Room, Area³ 69, Near AC-3C; AC-3B; AC-100; AC-102

8. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment in the area? Y N U

Comments (Additional pages may be added as necessary)

Evaluated by: John Kao *John Kao* Date: 8/21/2012

Alex Smerch *Alex Smerch* 8/21/2012

³ If the room in which the SWEL item is located is very large (e.g., Turbine Hall), the area selected should be described. This selected area should be based on judgment, e.g., on the order of about 35 feet from the SWEL item.

AREA WALK-BY CHECKLIST

Sheet 1 of 4

Status: Y N U

Area Walk-By Checklist (AWC) AWC- 22

Location: Bldg. AUX Floor El. 989' Room, Area: 18, Near HCV-2877A; HCV-2880A; HCV-2893

Instructions for Completing Checklist

This checklist may be used to document the results of the Area Walk-By near one or more SWEL items. 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.

1. Does anchorage of equipment in the area appear to be free of potentially adverse seismic conditions (if visible without necessarily opening cabinets)? Y N U N/A

2. Does anchorage of equipment in the area appear to be free of significant degraded conditions? Y N U N/A

3. Based on a visual inspection from the floor, do the cable/conduit raceways and HVAC ducting appear to be free of potentially adverse seismic conditions (e.g., condition of supports is adequate and fill conditions of cable trays appear to be inside acceptable limits)? Y N U N/A

¹ If the room in which the SWEL item is located is very large (e.g., Turbine Hall), the area selected should be described. This selected area should be based on judgment, e.g., on the order of about 35 feet from the SWEL item.

AREA WALK-BY CHECKLIST

Sheet 2 of 4

Status: Y N U

Area Walk-By Checklist (AWC) AWC- 22

Location: Bldg. AUX Floor El. 989' Room, Area² 18, Near HCV-2877A; HCV-2880A; HCV-2893

4. Does it appear that the area is free of potentially adverse seismic spatial interactions with other equipment in the area (e.g., ceiling tiles and lighting)? Y N U N/A

5. Does it appear that the area is free of potentially adverse seismic interactions that could cause flooding or spray in the area? Y N U N/A

6. Does it appear that the area is free of potentially adverse seismic interactions that could cause a fire in the area? Y N U N/A

7. Does it appear that the area is free of potentially adverse seismic interactions associated with housekeeping practices, storage of portable equipment, and temporary installations (e.g., scaffolding, lead shielding)? Y N U N/A

Chains from hoists near AC-1C and AC-1D are not tied down or secured, and could possibly swing into safety related equipment. CR 2012-11041 has been initiated.

² If the room in which the SWEL item is located is very large (e.g., Turbine Hall), the area selected should be described. This selected area should be based on judgment, e.g., on the order of about 35 feet from the SWEL item.

AREA WALK-BY CHECKLIST

Sheet 3 of 4

Status: Y N U

Area Walk-By Checklist (AWC) AWC-22

Location: Bldg. AUX Floor El. 989' Room, Area³ 18, Near HCV-2877A; HCV-2880A; HCV-2893

8. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment in the area? Y N U

Comments (Additional pages may be added as necessary)

Evaluated by: John Kao

John Kao

Date: 8/21/2012

Alex Smerch

Alex Smerch

8/21/2012

³ If the room in which the SWEL item is located is very large (e.g., Turbine Hall), the area selected should be described. This selected area should be based on judgment, e.g., on the order of about 35 feet from the SWEL item.

AREA WALK-BY CHECKLIST

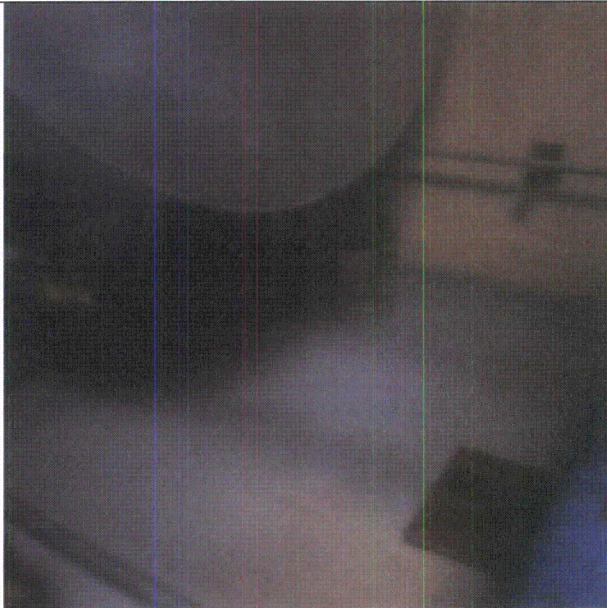
Sheet 4 of 4

Status: Y N U

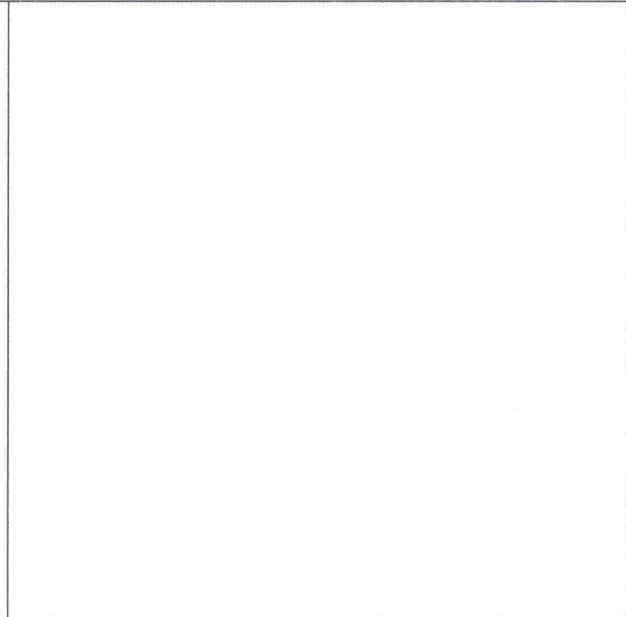
Area Walk-By Checklist (AWC) AWC- 22

Location: Bldg. AUX Floor El. 989' Room, Area⁴ 18, Near HCV-2877A; HCV-2880A; HCV-2893

Photographs



Note: Photo showing unsecured chains near AC-1C and AC-1D.



Note:

⁴ If the room in which the SWEL item is located is very large (e.g., Turbine Hall), the area selected should be described. This selected area should be based on judgment, e.g., on the order of about 35 feet from the SWEL item.

AREA WALK-BY CHECKLIST

Sheet 1 of 3

Status: Y N U

Area Walk-By Checklist (AWC) AWC- 23

Location: Bldg. AUX Floor El. 989' Room, Area¹ 15, Near AC-4B

Instructions for Completing Checklist

This checklist may be used to document the results of the Area Walk-By near one or more SWEL items. 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.

-
1. Does anchorage of equipment in the area appear to be free of potentially adverse seismic conditions (if visible without necessarily opening cabinets)? Y N U N/A
2. Does anchorage of equipment in the area appear to be free of significant degraded conditions? Y N U N/A
3. Based on a visual inspection from the floor, do the cable/conduit raceways and HVAC ducting appear to be free of potentially adverse seismic conditions (e.g., condition of supports is adequate and fill conditions of cable trays appear to be inside acceptable limits)? Y N U N/A

¹ If the room in which the SWEL item is located is very large (e.g., Turbine Hall), the area selected should be described. This selected area should be based on judgment, e.g., on the order of about 35 feet from the SWEL item.

AREA WALK-BY CHECKLIST

Sheet 2 of 3

Status: Y N U

Area Walk-By Checklist (AWC) AWC- 23

Location: Bldg. AUX Floor El. 989' Room, Area² 15, Near AC-4B

4. Does it appear that the area is free of potentially adverse seismic spatial interactions with other equipment in the area (e.g., ceiling tiles and lighting)? Y N U N/A

5. Does it appear that the area is free of potentially adverse seismic interactions that could cause flooding or spray in the area? Y N U N/A

6. Does it appear that the area is free of potentially adverse seismic interactions that could cause a fire in the area? Y N U N/A

7. Does it appear that the area is free of potentially adverse seismic interactions associated with housekeeping practices, storage of portable equipment, and temporary installations (e.g., scaffolding, lead shielding)? Y N U N/A

² If the room in which the SWEL item is located is very large (e.g., Turbine Hall), the area selected should be described. This selected area should be based on judgment, e.g., on the order of about 35 feet from the SWEL item.

AREA WALK-BY CHECKLIST

Sheet 3 of 3

Status: Y N U

Area Walk-By Checklist (AWC) AWC- 23

Location: Bldg. AUX Floor El. 989' Room, Area³ 15, Near AC-4B

8. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment in the area? Y N U

Comments (Additional pages may be added as necessary)

Evaluated by: John Kao *John Kao* Date: 8/21/2012

Alex Smerch *Alex Smerch* 8/21/2012

³ If the room in which the SWEL item is located is very large (e.g., Turbine Hall), the area selected should be described. This selected area should be based on judgment, e.g., on the order of about 35 feet from the SWEL item.

AREA WALK-BY CHECKLIST

Sheet 1 of 3

Status: Y N U

Area Walk-By Checklist (AWC) AWC- 24

Location: Bldg. Cont. Floor El. 993' Room, Area¹ Cont., Near C/LT-911; C/PT-913

Instructions for Completing Checklist

This checklist may be used to document the results of the Area Walk-By near one or more SWEL items. 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.

-
1. Does anchorage of equipment in the area appear to be free of potentially adverse seismic conditions (if visible without necessarily opening cabinets)? Y N U N/A

2. Does anchorage of equipment in the area appear to be free of significant degraded conditions? Y N U N/A
Mild oxidation noted on the anchorage.

3. Based on a visual inspection from the floor, do the cable/conduit raceways and HVAC ducting appear to be free of potentially adverse seismic conditions (e.g., condition of supports is adequate and fill conditions of cable trays appear to be inside acceptable limits)? Y N U N/A

¹ If the room in which the SWEL item is located is very large (e.g., Turbine Hall), the area selected should be described. This selected area should be based on judgment, e.g., on the order of about 35 feet from the SWEL item.

AREA WALK-BY CHECKLIST

Sheet 2 of 3

Status: Y N U

Area Walk-By Checklist (AWC) AWC- 24

Location: Bldg. Cont. Floor El. 993' Room, Area² Cont., Near C/LT-911; C/PT-913

4. Does it appear that the area is free of potentially adverse seismic spatial interactions with other equipment in the area (e.g., ceiling tiles and lighting)? Y N U N/A

5. Does it appear that the area is free of potentially adverse seismic interactions that could cause flooding or spray in the area? Y N U N/A

6. Does it appear that the area is free of potentially adverse seismic interactions that could cause a fire in the area? Y N U N/A

7. Does it appear that the area is free of potentially adverse seismic interactions associated with housekeeping practices, storage of portable equipment, and temporary installations (e.g., scaffolding, lead shielding)? Y N U N/A

² If the room in which the SWEL item is located is very large (e.g., Turbine Hall), the area selected should be described. This selected area should be based on judgment, e.g., on the order of about 35 feet from the SWEL item.

AREA WALK-BY CHECKLIST

Sheet 3 of 3


Status: Y N U

Area Walk-By Checklist (AWC) AWC- 24

Location: Bldg. Cont. Floor El. 993' Room, Area³ Cont., Near C/LT-911; C/PT-913

8. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment in the area? Y N U

Comments (Additional pages may be added as necessary)

Evaluated by: Alex Smerch  Date: 8/22/2012

John Kao  8/22/2012

³ If the room in which the SWEL item is located is very large (e.g., Turbine Hall), the area selected should be described. This selected area should be based on judgment, e.g., on the order of about 35 feet from the SWEL item.

AREA WALK-BY CHECKLIST

Sheet 1 of 3

Status: Y N U

Area Walk-By Checklist (AWC) AWC- 25

Location: Bldg. Cont Floor El. 1045' Room, Area¹ Cont., Near HCV-240; HCV-1107A; FW-164

Instructions for Completing Checklist

This checklist may be used to document the results of the Area Walk-By near one or more SWEL items. 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.

-
1. Does anchorage of equipment in the area appear to be free of potentially adverse seismic conditions (if visible without necessarily opening cabinets)? Y N U N/A
2. Does anchorage of equipment in the area appear to be free of significant degraded conditions? Y N U N/A
3. Based on a visual inspection from the floor, do the cable/conduit raceways and HVAC ducting appear to be free of potentially adverse seismic conditions (e.g., condition of supports is adequate and fill conditions of cable trays appear to be inside acceptable limits)? Y N U N/A

¹ If the room in which the SWEL item is located is very large (e.g., Turbine Hall), the area selected should be described. This selected area should be based on judgment, e.g., on the order of about 35 feet from the SWEL item.

AREA WALK-BY CHECKLIST

Sheet 2 of 3

Status: Y N U

Area Walk-By Checklist (AWC) AWC- 25

Location: Bldg. Cont Floor El. 1045' Room, Area² Cont., Near HCV-240; HCV-1107A; FW-164

4. Does it appear that the area is free of potentially adverse seismic spatial interactions with other equipment in the area (e.g., ceiling tiles and lighting)? Y N U N/A

5. Does it appear that the area is free of potentially adverse seismic interactions that could cause flooding or spray in the area? Y N U N/A

6. Does it appear that the area is free of potentially adverse seismic interactions that could cause a fire in the area? Y N U N/A

7. Does it appear that the area is free of potentially adverse seismic interactions associated with housekeeping practices, storage of portable equipment, and temporary installations (e.g., scaffolding, lead shielding)? Y N U N/A

² If the room in which the SWEL item is located is very large (e.g., Turbine Hall), the area selected should be described. This selected area should be based on judgment, e.g., on the order of about 35 feet from the SWEL item.

AREA WALK-BY CHECKLIST

Sheet 3 of 3

Status: Y N U

Area Walk-By Checklist (AWC) AWC- 25

Location: Bldg. Cont Floor El. 1045' Room, Area³ Cont., Near HCV-240; HCV-1107A; FW-164

8. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment in the area? Y N U

Comments (Additional pages may be added as necessary)

Evaluated by: John Kao

John Kao

Date: 8/22/2012

Alex Smerch

Alex Smerch

8/22/2012

³ If the room in which the SWEL item is located is very large (e.g., Turbine Hall), the area selected should be described. This selected area should be based on judgment, e.g., on the order of about 35 feet from the SWEL item.

AREA WALK-BY CHECKLIST

Sheet 1 of 3

Status: Y N U

Area Walk-By Checklist (AWC) AWC- 26

Location: Bldg. Cont. Floor El. 1013' Room, Area: Cont., Near APT-120; SI-6A

Instructions for Completing Checklist

This checklist may be used to document the results of the Area Walk-By near one or more SWEL items. 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.

1. Does anchorage of equipment in the area appear to be free of potentially adverse seismic conditions (if visible without necessarily opening cabinets)? Y N U N/A

2. Does anchorage of equipment in the area appear to be free of significant degraded conditions? Y N U N/A

3. Based on a visual inspection from the floor, do the cable/conduit raceways and HVAC ducting appear to be free of potentially adverse seismic conditions (e.g., condition of supports is adequate and fill conditions of cable trays appear to be inside acceptable limits)? Y N U N/A

¹ If the room in which the SWEL item is located is very large (e.g., Turbine Hall), the area selected should be described. This selected area should be based on judgment, e.g., on the order of about 35 feet from the SWEL item.

AREA WALK-BY CHECKLIST

Sheet 2 of 3

Status: Y N U

Area Walk-By Checklist (AWC) AWC- 26

Location: Bldg. Cont. Floor El. 1013' Room, Area² Cont., Near APT-120; SI-6A

4. Does it appear that the area is free of potentially adverse seismic spatial interactions with other equipment in the area (e.g., ceiling tiles and lighting)? Y N U N/A

5. Does it appear that the area is free of potentially adverse seismic interactions that could cause flooding or spray in the area? Y N U N/A

6. Does it appear that the area is free of potentially adverse seismic interactions that could cause a fire in the area? Y N U N/A

7. Does it appear that the area is free of potentially adverse seismic interactions associated with housekeeping practices, storage of portable equipment, and temporary installations (e.g., scaffolding, lead shielding)? Y N U N/A

² If the room in which the SWEL item is located is very large (e.g., Turbine Hall), the area selected should be described. This selected area should be based on judgment, e.g., on the order of about 35 feet from the SWEL item.

AREA WALK-BY CHECKLIST

Sheet 3 of 3

Status: Y N U

Area Walk-By Checklist (AWC) AWC- 26

Location: Bldg. Cont. Floor El. 1013' Room, Area³ Cont., Near AVPT-120; SI-6A

8. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment in the area? Y N U

Comments (Additional pages may be added as necessary)

Evaluated by: John Kao *John Kao* Date: 8/22/2012

Alex Smerch *Alex Smerch* 8/22/2012

³ If the room in which the SWEL item is located is very large (e.g., Turbine Hall), the area selected should be described. This selected area should be based on judgment, e.g., on the order of about 35 feet from the SWEL item.

AREA WALK-BY CHECKLIST

Sheet 1 of 4

Status: Y N U

Area Walk-By Checklist (AWC) AWC- 27

Location: Bldg. AUX Floor El. 1007' Room, Area¹ 26, Near CH-115; CH-143; CH-4A

Instructions for Completing Checklist

This checklist may be used to document the results of the Area Walk-By near one or more SWEL items. 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.

1. Does anchorage of equipment in the area appear to be free of potentially adverse seismic conditions (if visible without necessarily opening cabinets)? Y N U N/A

2. Does anchorage of equipment in the area appear to be free of significant degraded conditions? Y N U N/A

3. Based on a visual inspection from the floor, do the cable/conduit raceways and HVAC ducting appear to be free of potentially adverse seismic conditions (e.g., condition of supports is adequate and fill conditions of cable trays appear to be inside acceptable limits)? Y N U N/A

¹ If the room in which the SWEL item is located is very large (e.g., Turbine Hall), the area selected should be described. This selected area should be based on judgment, e.g., on the order of about 35 feet from the SWEL item.

AREA WALK-BY CHECKLIST

Sheet 2 of 4

Status: Y N U

Area Walk-By Checklist (AWC) AWC- 27

Location: Bldg. AUX Floor El. 1007' Room, Area² 26, Near CH-115; CH-143; CH-4A

4. Does it appear that the area is free of potentially adverse seismic spatial interactions with other equipment in the area (e.g., ceiling tiles and lighting)? Y N U N/A

There is a bent rod hanger supporting sensing line FT-269X. CR 2012-12405 has been initiated.

5. Does it appear that the area is free of potentially adverse seismic interactions that could cause flooding or spray in the area? Y N U N/A

6. Does it appear that the area is free of potentially adverse seismic interactions that could cause a fire in the area? Y N U N/A

7. Does it appear that the area is free of potentially adverse seismic interactions associated with housekeeping practices, storage of portable equipment, and temporary installations (e.g., scaffolding, lead shielding)? Y N U N/A

² If the room in which the SWEL item is located is very large (e.g., Turbine Hall), the area selected should be described. This selected area should be based on judgment, e.g., on the order of about 35 feet from the SWEL item.

AREA WALK-BY CHECKLIST

Sheet 3 of 4

Status: Y N U

Area Walk-By Checklist (AWC) AWC- 27

Location: Bldg. AUX Floor El. 1007' Room, Area³ 26, Near CH-115; CH-143; CH-4A

8. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment in the area? Y N U

Comments (Additional pages may be added as necessary)

Evaluated by: John Kao *John Kao* Date: 8/23/2012

Alex Smerch *Alex Smerch* 8/23/2012

³ If the room in which the SWEL item is located is very large (e.g., Turbine Hall), the area selected should be described. This selected area should be based on judgment, e.g., on the order of about 35 feet from the SWEL item.

AREA WALK-BY CHECKLIST

Sheet 4 of 4

Status: Y N U

Area Walk-By Checklist (AWC) AWC- 27

Location: Bldg. AUX Floor El. 1007' Room, Area⁴ 26, Near CH-115; CH-143; CH-4A

Photographs



Note: Bent rod hanger for sensing line FT-269X, near Boric Acid Storage Tank CH-11A Outlet Valve CH-115

Note:

⁴ If the room in which the SWEL item is located is very large (e.g., Turbine Hall), the area selected should be described. This selected area should be based on judgment, e.g., on the order of about 35 feet from the SWEL item.

AREA WALK-BY CHECKLIST

Sheet 1 of 3

Status: Y N U

Area Walk-By Checklist (AWC) AWC- 28

Location: Bldg. AUX Floor El. 1007' Room, Area: 59, Near VA-280

Instructions for Completing Checklist

This checklist may be used to document the results of the Area Walk-By near one or more SWEL items. 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.

1. Does anchorage of equipment in the area appear to be free of potentially adverse seismic conditions (if visible without necessarily opening cabinets)? Y N U N/A

2. Does anchorage of equipment in the area appear to be free of significant degraded conditions? Y N U N/A

3. Based on a visual inspection from the floor, do the cable/conduit raceways and HVAC ducting appear to be free of potentially adverse seismic conditions (e.g., condition of supports is adequate and fill conditions of cable trays appear to be inside acceptable limits)? Y N U N/A

¹ If the room in which the SWEL item is located is very large (e.g., Turbine Hall), the area selected should be described. This selected area should be based on judgment, e.g., on the order of about 35 feet from the SWEL item.

AREA WALK-BY CHECKLIST

Sheet 2 of 3

Status: Y N U

Area Walk-By Checklist (AWC) AWC- 28

Location: Bldg. AUX Floor El. 1007' Room, Area² 59, Near VA-280

4. Does it appear that the area is free of potentially adverse seismic spatial interactions with other equipment in the area (e.g., ceiling tiles and lighting)? Y N U N/A

5. Does it appear that the area is free of potentially adverse seismic interactions that could cause flooding or spray in the area? Y N U N/A

6. Does it appear that the area is free of potentially adverse seismic interactions that could cause a fire in the area? Y N U N/A

7. Does it appear that the area is free of potentially adverse seismic interactions associated with housekeeping practices, storage of portable equipment, and temporary installations (e.g., scaffolding, lead shielding)? Y N U N/A

² If the room in which the SWEL item is located is very large (e.g., Turbine Hall), the area selected should be described. This selected area should be based on judgment, e.g., on the order of about 35 feet from the SWEL item.

AREA WALK-BY CHECKLIST

Sheet 3 of 3

Status: Y N U

Area Walk-By Checklist (AWC) AWC- 28

Location: Bldg. AUX Floor El. 1007' Room, Area³ 59, Near VA-280

8. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment in the area? Y N U

Comments (Additional pages may be added as necessary)

Evaluated by: John Kao *John Kao* Date: 8/23/2012

Alex Smerch *Alex Smerch* Date: 8/23/2012

³ If the room in which the SWEL item is located is very large (e.g., Turbine Hall), the area selected should be described. This selected area should be based on judgment, e.g., on the order of about 35 feet from the SWEL item.

AREA WALK-BY CHECKLIST

Sheet 1 of 4

Status: Y N U

Area Walk-By Checklist (AWC) AWC- 29

Location: Bldg. AUX Floor El. 971' Room, Area: 21, Near HCV-2917; HCV-2918; HCV-2947; HCV-2948; HCV-305

Instructions for Completing Checklist

This checklist may be used to document the results of the Area Walk-By near one or more SWEL items. 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.

-
1. Does anchorage of equipment in the area appear to be free of potentially adverse seismic conditions (if visible without necessarily opening cabinets)? Y N U N/A
Missing bolt on SI-1A discharge pipe support. CR 2012-11277 has been initiated.

2. Does anchorage of equipment in the area appear to be free of significant degraded conditions? Y N U N/A

3. Based on a visual inspection from the floor, do the cable/conduit raceways and HVAC ducting appear to be free of potentially adverse seismic conditions (e.g., condition of supports is adequate and fill conditions of cable trays appear to be inside acceptable limits)? Y N U N/A

¹ If the room in which the SWEL item is located is very large (e.g., Turbine Hall), the area selected should be described. This selected area should be based on judgment, e.g., on the order of about 35 feet from the SWEL item.

AREA WALK-BY CHECKLIST

Sheet 2 of 4

Status: Y N U

Area Walk-By Checklist (AWC) AWC- 29

Location: Bldg. AUX Floor El. 971' Room, Area² 21, Near HCV-2917; HCV-2918; HCV-2947; HCV-2948; HCV-305

4. Does it appear that the area is free of potentially adverse seismic spatial interactions with other equipment in the area (e.g., ceiling tiles and lighting)? Y N U N/A

5. Does it appear that the area is free of potentially adverse seismic interactions that could cause flooding or spray in the area? Y N U N/A

6. Does it appear that the area is free of potentially adverse seismic interactions that could cause a fire in the area? Y N U N/A

7. Does it appear that the area is free of potentially adverse seismic interactions associated with housekeeping practices, storage of portable equipment, and temporary installations (e.g., scaffolding, lead shielding)? Y N U N/A

Miscellaneous electrical cord in area is justified by SO-G-101

² If the room in which the SWEL item is located is very large (e.g., Turbine Hall), the area selected should be described. This selected area should be based on judgment, e.g., on the order of about 35 feet from the SWEL item.

AREA WALK-BY CHECKLIST

Sheet 3 of 4

Status: Y N U

Area Walk-By Checklist (AWC) AWC- 29

Location: Bldg. AUX Floor El. 971' Room, Area³ 21, Near HCV-2917; HCV-2918; HCV-2947; HCV-2948; HCV-305

8. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment in the area? Y N U

Comments (Additional pages may be added as necessary)

Numerous scaffolds in-place in this area during outage could possibly skew evaluation of seismic risk assessment of plant during operations.

Evaluated by: John Kao



Date: 8/23/2012

Alex Smerch



8/23/2012

³ If the room in which the SWEL item is located is very large (e.g., Turbine Hall), the area selected should be described. This selected area should be based on judgment, e.g., on the order of about 35 feet from the SWEL item.

AREA WALK-BY CHECKLIST

Sheet 4 of 4

Status: Y N U

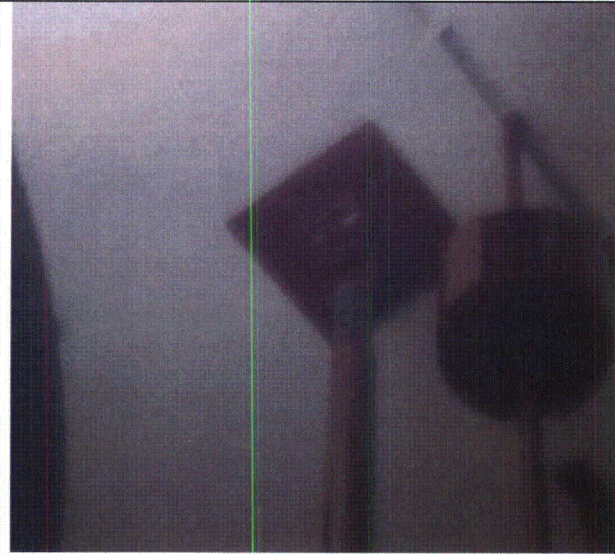
Area Walk-By Checklist (AWC) AWC- 29

Location: Bldg. AUX Floor El. 971' Room, Area⁴ 21, Near HCV-2917; HCV-2918; HCV-2947; HCV-2948; HCV-305

Photographs



Note: *House-keeping issues*



Note: *Missing bolt in pipe support on ceiling for line SI-1A*

⁴ If the room in which the SWEL item is located is very large (e.g., Turbine Hall), the area selected should be described. This selected area should be based on judgment, e.g., on the order of about 35 feet from the SWEL item.

AREA WALK-BY CHECKLIST

Sheet 1 of 5

Status: Y N U

Area Walk-By Checklist (AWC) AWC- 30

Location: Bldg. Cont Floor El. 1013' Room, Area¹ Cont., Near B/LT-911; B/PT-913

Instructions for Completing Checklist

This checklist may be used to document the results of the Area Walk-By near one or more SWEL items. 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.

-
1. Does anchorage of equipment in the area appear to be free of potentially adverse seismic conditions (if visible without necessarily opening cabinets)? Y N U N/A

One anchorbolt head above concrete appears to be bent. Bending of the bolt is judged to have occurred after construction and concrete was cured and does not effect effective embedded bolt length and corresponding anchor strength.

2. Does anchorage of equipment in the area appear to be free of significant degraded conditions? Y N U N/A

Anchorage on the baseplates of 2 vertical posts near P/B-249C appears to have severe corrosion. CR 2012-11879 has been initiated.

3. Based on a visual inspection from the floor, do the cable/conduit raceways and HVAC ducting appear to be free of potentially adverse seismic conditions (e.g., condition of supports is adequate and fill conditions of cable trays appear to be inside acceptable limits)? Y N U N/A

¹ If the room in which the SWEL item is located is very large (e.g., Turbine Hall), the area selected should be described. This selected area should be based on judgment, e.g., on the order of about 35 feet from the SWEL item.

AREA WALK-BY CHECKLIST

Sheet 2 of 5

Status: Y N U

Area Walk-By Checklist (AWC) AWC- 30

Location: Bldg. Cont Floor El. 1013' Room, Area² Cont., Near B/LT-911; B/PT-913

4. Does it appear that the area is free of potentially adverse seismic spatial interactions with other equipment in the area (e.g., ceiling tiles and lighting)? Y N U N/A

It appears that a light fixture near A/LT-911 is suspended very close and the two items could come into contact during a seismic event. CR 2012-11973 has been initiated.

5. Does it appear that the area is free of potentially adverse seismic interactions that could cause flooding or spray in the area? Y N U N/A

6. Does it appear that the area is free of potentially adverse seismic interactions that could cause a fire in the area? Y N U N/A

7. Does it appear that the area is free of potentially adverse seismic interactions associated with housekeeping practices, storage of portable equipment, and temporary installations (e.g., scaffolding, lead shielding)? Y N U N/A

Scaffolding in area above tank WD-1 does not have a seismic design tag. CR 2012-11880 has been initiated.

² If the room in which the SWEL item is located is very large (e.g., Turbine Hall), the area selected should be described. This selected area should be based on judgment, e.g., on the order of about 35 feet from the SWEL item.

AREA WALK-BY CHECKLIST

Sheet 3 of 5

Status: Y N U

Area Walk-By Checklist (AWC) AWC- 30

Location: Bldg. Cont Floor El. 1013' Room, Area³ Cont., Near B/LT-911; B/PT-913

8. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment in the area? Y N U

Comments (Additional pages may be added as necessary)

Evaluated by: Kevin Bessell  Date: 8/27/2012

Alex Smerch  8/27/2012

³ If the room in which the SWEL item is located is very large (e.g., Turbine Hall), the area selected should be described. This selected area should be based on judgment, e.g., on the order of about 35 feet from the SWEL item.

AREA WALK-BY CHECKLIST

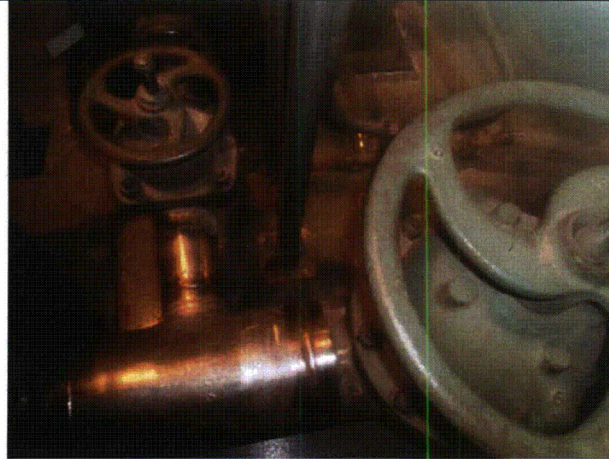
Sheet 4 of 5

Status: Y N U

Area Walk-By Checklist (AWC) AWC- 30

Location: Bldg. Cont Floor El. 1013' Room, Area⁴ Cont., Near B/LT-911; B/PT-913

Photographs



Note: Corrosion on vertical support baseplates and anchorage.



Note: Scaffolding over WD-1 (tank) in area does not have seismic design tag associated with it.

⁴ If the room in which the SWEL item is located is very large (e.g., Turbine Hall), the area selected should be described. This selected area should be based on judgment, e.g., on the order of about 35 feet from the SWEL item.

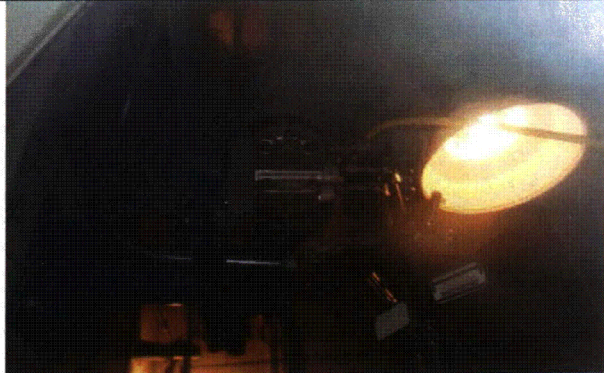
AREA WALK-BY CHECKLIST

Sheet 5 of 5

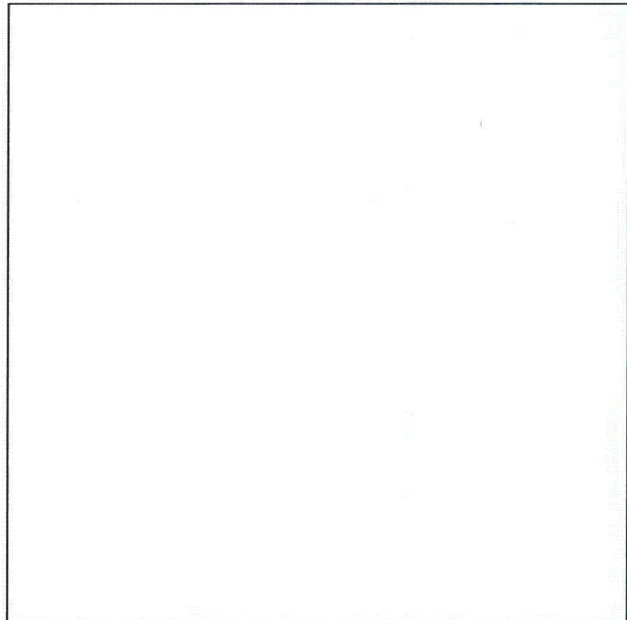
Status: Y N U

Area Walk-By Checklist (AWC) AWC- 30

Location: Bldg. Cont Floor El. 1013' Room, Area⁵ Cont., Near B/LT-911; B/PT-913



Note: *Seismic spatial interaction issue between light and A/LT-911.*



Note:

⁵ If the room in which the SWEL item is located is very large (e.g., Turbine Hall), the area selected should be described. This selected area should be based on judgment, e.g., on the order of about 35 feet from the SWEL item.

AREA WALK-BY CHECKLIST

Sheet 1 of 3

Status: Y N U

Area Walk-By Checklist (AWC) AWC- 31

Location: Bldg. Cont Floor El. 1045' Room, Area¹ Cont., Near IA-12

Instructions for Completing Checklist

This checklist may be used to document the results of the Area Walk-By near one or more SWEL items. 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.

-
1. Does anchorage of equipment in the area appear to be free of potentially adverse seismic conditions (if visible without necessarily opening cabinets)? Y N U N/A
2. Does anchorage of equipment in the area appear to be free of significant degraded conditions? Y N U N/A
3. Based on a visual inspection from the floor, do the cable/conduit raceways and HVAC ducting appear to be free of potentially adverse seismic conditions (e.g., condition of supports is adequate and fill conditions of cable trays appear to be inside acceptable limits)? Y N U N/A

¹ If the room in which the SWEL item is located is very large (e.g., Turbine Hall), the area selected should be described. This selected area should be based on judgment, e.g., on the order of about 35 feet from the SWEL item.

AREA WALK-BY CHECKLIST

Sheet 2 of 3

Status: Y N U

Area Walk-By Checklist (AWC) AWC- 31

Location: Bldg. Cont Floor El. 1045' Room, Area² Cont., Near IA-12

4. Does it appear that the area is free of potentially adverse seismic spatial interactions with other equipment in the area (e.g., ceiling tiles and lighting)? Y N U N/A

5. Does it appear that the area is free of potentially adverse seismic interactions that could cause flooding or spray in the area? Y N U N/A

6. Does it appear that the area is free of potentially adverse seismic interactions that could cause a fire in the area? Y N U N/A

7. Does it appear that the area is free of potentially adverse seismic interactions associated with housekeeping practices, storage of portable equipment, and temporary installations (e.g., scaffolding, lead shielding)? Y N U N/A

² If the room in which the SWEL item is located is very large (e.g., Turbine Hall), the area selected should be described. This selected area should be based on judgment, e.g., on the order of about 35 feet from the SWEL item.

AREA WALK-BY CHECKLIST

Sheet 3 of 3


Status: Y N U

Area Walk-By Checklist (AWC) AWC- 31

Location: Bldg. Cont Floor El. 1045' Room, Area³ Cont., Near IA-12

8. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment in the area? Y N U

Comments (Additional pages may be added as necessary)

Evaluated by: Alex Smerch  Date: 8/27/2012

Kevin Bessell  8/27/2012

³ If the room in which the SWEL item is located is very large (e.g., Turbine Hall), the area selected should be described. This selected area should be based on judgment, e.g., on the order of about 35 feet from the SWEL item.

AREA WALK-BY CHECKLIST

Sheet 1 of 3

Status: Y N U

Area Walk-By Checklist (AWC) AWC- 32

Location: Bldg. Cont Floor El. 1060' Room, Area Cont., Near VA-15B

Instructions for Completing Checklist

This checklist may be used to document the results of the Area Walk-By near one or more SWEL items. 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.

1. Does anchorage of equipment in the area appear to be free of potentially adverse seismic conditions (if visible without necessarily opening cabinets)? Y N U N/A

2. Does anchorage of equipment in the area appear to be free of significant degraded conditions? Y N U N/A

3. Based on a visual inspection from the floor, do the cable/conduit raceways and HVAC ducting appear to be free of potentially adverse seismic conditions (e.g., condition of supports is adequate and fill conditions of cable trays appear to be inside acceptable limits)? Y N U N/A

AREA WALK-BY CHECKLIST

Sheet 2 of 3

Status: Y N U

Area Walk-By Checklist (AWC) AWC- 32

Location: Bldg. Cont Floor El. 1060' Room, Area Cont., Near VA-15B

4. Does it appear that the area is free of potentially adverse seismic spatial interactions with other equipment in the area (e.g., ceiling tiles and lighting)? Y N U N/A

Edge of vertical steel bracing close to center of nearby ducting. Cross steel bracing is very rigid and would not deflect large enough to strike duct during seismic event.

5. Does it appear that the area is free of potentially adverse seismic interactions that could cause flooding or spray in the area? Y N U N/A

6. Does it appear that the area is free of potentially adverse seismic interactions that could cause a fire in the area? Y N U N/A

7. Does it appear that the area is free of potentially adverse seismic interactions associated with housekeeping practices, storage of portable equipment, and temporary installations (e.g., scaffolding, lead shielding)? Y N U N/A

Loose materials stored on floor. Not a credible seismic threat.

AREA WALK-BY CHECKLIST

Sheet 3 of 3

Status: Y N U

Area Walk-By Checklist (AWC) AWC- 32

Location: Bldg. Cont Floor El. 1060' Room, Area Cont., Near VA-15B

8. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment in the area? Y N U

Comments (Additional pages may be added as necessary)

Evaluated by: Alex Smerch *Alex Smerch* Date: 8/27/2012

Kevin Bessell *Kevin Bessell* 8/27/2012

AREA WALK-BY CHECKLIST

Sheet 1 of 3

Status: Y N U

Area Walk-By Checklist (AWC) AWC- 33

Location: Bldg. AUX Floor El. 989' Room, Area 5, Near AC-6; AC-7

Instructions for Completing Checklist

This checklist may be used to document the results of the Area Walk-By near one or more SWEL items. 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.

-
1. Does anchorage of equipment in the area appear to be free of potentially adverse seismic conditions (if visible without necessarily opening cabinets)? Y N U N/A
2. Does anchorage of equipment in the area appear to be free of significant degraded conditions? Y N U N/A
3. Based on a visual inspection from the floor, do the cable/conduit raceways and HVAC ducting appear to be free of potentially adverse seismic conditions (e.g., condition of supports is adequate and fill conditions of cable trays appear to be inside acceptable limits)? Y N U N/A

AREA WALK-BY CHECKLIST

Sheet 2 of 3

Status: Y N U

Area Walk-By Checklist (AWC) AWC- 33

Location: Bldg. AUX Floor El. 989' Room, Area 5, Near AC-6; AC-7

4. Does it appear that the area is free of potentially adverse seismic spatial interactions with other equipment in the area (e.g., ceiling tiles and lighting)? Y N U N/A

Lighting noted with one support containing an open hook. The vertical seismic acceleration values in the area are less than 1.0 so the self-weight of the structure would prohibit vertical movement and thus keep it engaged. Light bulbs have no cage and would not be considered a significant threat compared to the size and strength of the equipment.

5. Does it appear that the area is free of potentially adverse seismic interactions that could cause flooding or spray in the area? Y N U N/A

6. Does it appear that the area is free of potentially adverse seismic interactions that could cause a fire in the area? Y N U N/A

7. Does it appear that the area is free of potentially adverse seismic interactions associated with housekeeping practices, storage of portable equipment, and temporary installations (e.g., scaffolding, lead shielding)? Y N U N/A

A cart was noted near AC-6, however, it was on its side and had a low center of gravity making it a non-credible source for seismic interaction.

AREA WALK-BY CHECKLIST

Sheet 3 of 3

Status: Y N U

Area Walk-By Checklist (AWC) AWC- 33

Location: Bldg. AUX Floor El. 989' Room, Area 5, Near AC-6; AC-7

8. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment in the area? Y N U

Comments (Additional pages may be added as necessary)

Evaluated by: Kevin Bessell



Date: 8/28/2012

Alex Smerch



8/28/2012

POTENTIALLY ADVERSE SEISMIC CONDITIONS FORM						
LB #	SWC/AWC #	TAG ID (if applicable)	IDENTIFIED CONDITION	LICENSING BASIS EVALUATION CONCLUSION	RESOLUTION	CR # (if Applicable)
1	AWC-2	N/A	Broom in area nearby the damper solenoid	CR Initiated	See CR	CR 2012-10195
2	SWC-38	FCV-1369	Missing clamp attaching Unistrut and Pipe. The unistrut holds the instrument line.	CR Initiated	See CR	CR 2012-10198
3	SWC-21	FO-4A-2	Potentially Missing Fan Clip above Fuel Oil Transfer Pump	CR Initiated	See CR	CR 2012-10367
4	AWC-4	N/A	Equipment Storage Bins on wheels that could potentially contact a nearby wall	CR Initiated	See CR	CR 2012-10368
5	SWC-51	DG-2	Insulation on a pipe above the diesel generator whose mass was not accounted for in seismic qualification report.	CR Initiated	See CR	CR 2012-10369
6	SWC-16	T1B-3C	Overhead lighting lacking any covering for light bulbs	CR Initiated	See CR	CR 2012-10423
7	SWC-49	EE-8C	Overhead lighting lacking any covering for light bulbs	CR Initiated	See CR	CR 2012-10423
8	SWC-12	1A4-11	Overhead lighting lacking any covering for light bulbs	CR Initiated	See CR	CR 2012-10423
9	AWC-6	N/A	Overhead lighting lacking any covering for light bulbs	CR Initiated	See CR	CR 2012-10423
10	AWC-7	N/A	Overhead lighting lacking any covering for light bulbs	CR Initiated	See CR	CR 2012-10423
11	AWC-8	N/A	Overhead lighting lacking any covering for light bulbs	CR Initiated	See CR	CR 2012-10423
12	AWC-9	N/A	Overhead lighting lacking any covering for light bulbs	CR Initiated	See CR	CR 2012-10423
13	SWC-15	EE-4S	Overhead lighting lacking any covering for light bulbs	CR Initiated	See CR	CR 2012-10423
14	SWC-50	EE-8H	Overhead lighting lacking any covering for light bulbs	CR Initiated	See CR	CR 2012-10423
15	AWC-6	N/A	Rollable FME storage cart unrestrained near cabinets.	CR Initiated	See CR	CR 2012-10425
16	SWC-46	EE-8F	EE-8C has 3/8" Gap from EE-8F creating seismic interaction issue.	CR Initiated	See CR	CR 2012-10427
17	SWC-49	EE-8C	EE-8C has 3/8" Gap from EE-8F creating seismic interaction issue.	CR Initiated	See CR	CR 2012-10427
18	SWC-1	AC-12B	Anchor bolts from strainer base to concrete lack thread engagement with their nuts	CR Initiated	See CR	CR 2012-10553
19	AWC-13	AC-12A	Anchor bolts from strainer base to concrete lack thread engagement with their nuts	CR Initiated	See CR	CR 2012-10553
20	AWC-11	N/A	Portable light plugged in and hung unsecured above an open sump pump.	CR Initiated	See CR	CR 2012-10628
21	SWC-57	PI-2855-1	Light bulbs could fall and damage gauge.	CR Initiated	See CR	CR 2012-10629
22	AWC-10	N/A	Transient materials left in non-storage area	CR Initiated	See CR	CR 2012-10630
23	AWC-12	N/A	Light bent around equipment and hung very close to small line creating seismic spatial interaction.	CR Initiated	See CR	CR 2012-10631
24	AWC-15	N/A	A clamp on a rope was attached near SR equipment creating a seismic spatial interaction condition	CR Initiated	See CR	CR 2012-10672
25	AWC-15	N/A	A beam was observed installed to an embed plate via slotted holes in the vertical direction thus possibly putting the bolts in bending under gravity loading.	CR Initiated	See CR	CR 2012-10676
26	AWC-14	N/A	Large mobile white board with unlocked wheels creating a seismic spatial interaction condition.	CR Initiated	See CR	CR 2012-10684
27	AWC-14	N/A	Water cooler with high C.G. could move and impact SR equipment.	CR Initiated	See CR	CR 2012-10684
28	SWC-92	AC-5A	Block wall lateral restraint is not in contact with block wall and is possibly not restraining block wall in current state.	CR Initiated	See CR	CR 2012-10915
29	SWC-93	AC-5B	Block wall lateral restraint is not in contact with block wall and is possibly not restraining block wall in current state.	CR Initiated	See CR	CR 2012-10915
30	AWC-18	N/A	Block wall lateral restraint is not in contact with block wall and is possibly not restraining block wall in current state.	CR Initiated	See CR	CR 2012-10915
31	AWC-19	N/A	Cart on wheels with tools and chemical cleaners on it could roll and strike safety related equipment	CR Initiated	See CR	CR 2012-10916
32	AWC-20	N/A	Chain from trolley above AC-1A is not securely tied down, therefore it could possibly strike safety related equipment during seismic event	CR Initiated	See CR	CR 2012-10917
33	AWC-19	N/A	Concrete pitting near support	CR Initiated	See CR	CR 2012-10919
34	SWC-60	AC-4B	Missing chunks of concrete around anchors and anchors possibly cut negating capabilities of anchorage	CR Initiated	See CR	CR 2012-11039
35	AWC-22	N/A	Unsecured chains from hoist are located unsecured near AC-1C and AC-1D	CR Initiated	See CR	CR 2012-11041
36	AWC-29	N/A	Missing bolt on pipe support for line SI-1A	CR Initiated	See CR	CR 2012-11277
37	AWC-30	P/B-249C	Anchor bolts on the baseplate for support posts are severely corroded and need to be replaced.	CR Initiated	See CR	CR 2012-11879
38	AWC-30	WD-1	There was no tag identified for scaffolding around tank WD-1. Scaffolding could cause interaction issues with adjacent equipment	CR Initiated	See CR	CR 2012-11880

POTENTIALLY ADVERSE SEISMIC CONDITIONS FORM						
LB #	SWC/AWC #	TAG ID (if applicable)	IDENTIFIED CONDITION	LICENSING BASIS EVALUATION CONCLUSION	RESOLUTION	CR # (If Applicable)
39	AWC-30	A/LT-911	Hanging light from a flexible rod poses a seismic interaction concern with adjacent equipment.	CR Initiated	See CR	CR 2012-11973
40	AWC-3	N/A	Scaffolding in Room 19 near FW-10 point is only anchored at 1 point and could undergo significant deflection and create spatial interaction problems with near by piping	CR Initiated	See CR	CR 2012-12399
41	AWC-3	N/A	Substance was found accumulated in the base of FW-10 that could potentially be oil and a fire hazard	CR Initiated	See CR	CR 2012-12400
42	AWC-20	N/A	Spatial interaction observed between pipe and column near AC-1A and HCV-489A	CR Initiated	See CR	CR 2012-12404
43	AWC-19	N/A	Electrical chords hanging over area could pose fire hazard.	CR Initiated	See CR	CR 2012-12403
44	AWC-18	JB1301A	Spatial interaction observed between pipe and junction box JB1301A	CR Initiated	See CR	CR 2012-12402
45	AWC-17	N/A	Table with tools is unsecured and ladder is laying in red zone	CR Initiated	See CR	CR 2012-12401
46	AWC-27	N/A	Bent hanger rod supporting line.	CR Initiated	See CR	CR 2012-12405
47	SWC-48	EE-8A	Missing plant documentation to verify configuration check.	Meets the Licensing Basis through verification of plant drawings	N/A	N/A
48	SWC-49	EE-8C	Missing plant documentation to verify configuration check.	Meets the Licensing Basis through verification of plant documents	N/A	N/A
49	SWC-58	NI-001-DA1	Missing plant documentation to verify configuration check.	Meets the Licensing Basis through verification of plant documents	N/A	N/A
50	SWC-15	EE-4S	Missing plant documentation to verify configuration check.	Meets the Licensing Basis through verification of plant documents	N/A	N/A
51	SWC-50	EE-8H	Missing plant documentation to verify configuration check.	Meets the Licensing Basis through verification of plant documents	N/A	N/A
52	SWC-57	PI-2855-1	Missing plant documentation to verify configuration check.	Meets the Licensing Basis through verification of plant documents	N/A	N/A
53	AWC-12	N/A	Wooden stairs possibly extra transient fire load to building. Work is being staged for WO 370448-01.	Refer to WO 370448-01	N/A	N/A
54	AWC-13	N/A	Wooden stairs possibly extra transient fire load to building. Work is being staged for WO 370448-01.	Refer to WO 370448-01	N/A	N/A
55	SWC-81	HCV-1040	Missing plant documentation to verify configuration check.	Meets the Licensing Basis through verification of plant drawings	N/A	N/A
56	SWC-40	HCV-1107B	Missing plant documentation to verify configuration check.	Meets the Licensing Basis through verification of plant documents	N/A	N/A
57	SWC-92	AC-5A	Pump vendor document shows 4 possible configurations. In field measurements agree with one configuration, but plant vendor document highlights a different chosen configuration for design.	Meets the Licensing Basis through verification of plant documents	N/A	N/A
58	SWC-93	AC-5B	Pump vendor document shows 4 possible configurations. In field measurements agree with one configuration, but plant vendor document highlights a different chosen configuration for design.	Meets the Licensing Basis through verification of plant documents	N/A	N/A
59	SWC-37	LCV-218-3	Missing plant documentation to verify configuration check.	Meets the Licensing Basis through verification of plant documents	N/A	N/A
60	SWC-60	AC-4B	Missing Plant documentation for welded support to original saddle	Meets the Licensing Basis through verification of plant documents	N/A	N/A
61	SWC-70	C/PT-913	Missing plant documentation to verify configuration check.	Meets the Licensing Basis through verification of plant documents	N/A	N/A
62	SWC-69	C/LT-911	Missing plant documentation to verify configuration check.	Meets the Licensing Basis through verification of plant documents	N/A	N/A
63	SWC-87	HCV-2947	Missing plant documentation to verify configuration check.	Meets the Licensing Basis through verification of plant documents	N/A	N/A
64	SWC-86	HCV- 305	Missing plant documentation to verify configuration check.	Meets the Licensing Basis through verification of plant documents	N/A	N/A
65	SWC-85	HCV-2948	Missing plant documentation to verify configuration check.	Meets the Licensing Basis through verification of plant documents	N/A	N/A
66	SWC-83	HCV-2918	Missing plant documentation to verify configuration check.	Meets the Licensing Basis through verification of plant documents	N/A	N/A
67	SWC-52	FT-1368	Configuration differs from vendor configuration (bracket flipped). Drawing points to other installed drawing and needs follow up review.	Meets the Licensing Basis through verification of plant documents	N/A	N/A

Sheet 1 of 1

Licensing Basis (LB) Evaluation Form

LB Evaluation No.: LB-01

Originating SWC/AWC: AWC-2

Equipment ID No.: N/A

Equip. Class: N/A

Equipment Description: N/A

Location: Bldg. AUX

Floor El. 1024'

Room, Area MISL ROOM 63, NEAR
YCV-871H-20, YCV-871H

Condition

Broom in area nearby the damper solenoid.

Documents Reviewed

N/A, CR initiated.

Licensing Basis

N/A, CR initiated.

Evaluation

N/A, CR initiated.

Conclusion Condition Meets the Licensing Basis: Yes No

CR# (If applicable): 2012-10195

Prepared by: Ryan Rymarczyk *RR*
Licensing Basis Reviewer

Date 10/11/2012

Reviewed by: Kevin Bessell *KB*
Peer Reviewer

Date 10/12/2012

LICENSING BASIS EVALUATION FORM

Sheet 1 of 1

Licensing Basis (LB) Evaluation Form

LB Evaluation No.: LB-04

Originating SWC/AWC: AWC-4

Equipment ID No.: N/A

Equip. Class: N/A

Equipment Description: N/A

Location: Bldg. AUX

Floor El. 1007'

Room, Area 64 and 65, Near FO-17-2;
FO-4A-2; SA-193; DG-2; FO-2-2; LO-32-2

Condition

Equipment Storage Bins on wheels that could potentially contact a nearby wall.

Documents Reviewed

N/A, CR initiated.

Licensing Basis

N/A, CR initiated.

Evaluation

N/A, CR initiated.

Conclusion Condition Meets the Licensing Basis: Yes No

CR# (If applicable): 2012-10368

Prepared by: Ryan Rymarczyk *R. Rymarczyk*
Licensing Basis Reviewer

Date 10/11/2012

Reviewed by: Kevin Bessell *K. Bessell*
Peer Reviewer

Date 10/12/2012

Sheet 1 of 1

Licensing Basis (LB) Evaluation Form

LB Evaluation No.: LB-08

Originating SWC/AWC: SWC-12

Equipment ID No.: 1A4-11

Equip. Class: 2, LOW VOLTAGE SWITCHGEAR AND
BREAKER PANELS

Equipment Description: BREAKER UNIT FEEDER FOR RAW WATER PUMP AC-10B

Location: Bldg. AUX

Floor El. 1011'

Room, Area 56, 1A4

Condition

Overhead lighting lacks any covering for light bulbs.

Documents Reviewed

N/A, CR initiated.

Licensing Basis

N/A, CR initiated.

Evaluation

N/A, CR initiated.

Conclusion Condition Meets the Licensing Basis: Yes No

CR# (If applicable): 2012-10423

Prepared by: Ryan Rymarczyk *RR*
Licensing Basis Reviewer

Date 10/11/2012

Reviewed by: Kevin Bessell *KB*
Peer Reviewer

Date 10/12/2012

Sheet 1 of 1

Licensing Basis (LB) Evaluation Form

LB Evaluation No.: LB-10

Originating SWC/AWC: AWC-7

Equipment ID No.: N/A

Equip. Class: N/A

Equipment Description: N/A

Location: Bldg. AUX

Floor El. 1011'

Room, Area 56 East, Near 1B3A; 1B3B;
1B3C; 1A3; EE-4S; T1B-3C; EE-8F; EE-
8C; EE-8H

Condition

Overhead lighting lacks any covering for light bulbs.

Documents Reviewed

N/A, CR initiated.

Licensing Basis

N/A, CR initiated.

Evaluation

N/A, CR initiated.

Conclusion Condition Meets the Licensing Basis: Yes No

CR# (If applicable): 2012-10423

Prepared by: Ryan Rymarczyk *RR*
Licensing Basis Reviewer

Date 10/11/2012

Reviewed by: Kevin Bessell *KB*
Peer Reviewer

Date 10/12/2012

Sheet 1 of 1

Licensing Basis (LB) Evaluation Form

LB Evaluation No.: LB-12

Originating SWC/AWC: AWC-9

Equipment ID No.: N/A

Equip. Class: N/A

Equipment Description: N/A

Location: Bldg. AUX

Floor El. 1011'

Room, Area 57, Near MCC-3B1-C2R

Condition

Overhead lighting lacks any covering for light bulbs.

Documents Reviewed

N/A, CR initiated.

Licensing Basis

N/A, CR initiated.

Evaluation

N/A, CR initiated.

Conclusion Condition Meets the Licensing Basis: Yes No

CR# (If applicable): 2012-10423

Prepared by: Ryan Rymarczyk *R. Rymarczyk*
Licensing Basis Reviewer

Date 10/11/2012

Reviewed by: Kevin Bessell *K. Bessell*
Peer Reviewer

Date 10/12/2012

Sheet 1 of 1

Licensing Basis (LB) Evaluation Form

LB Evaluation No.: LB-16

Originating SWC/AWC: SWC-46

Equipment ID No.: EE-8F

Equip. Class: 14, DISTRIBUTION PANELS AND
AUTOMATIC TRANSFER SWITCHES

Equipment Description: 125V DC NUMBER 1 MAIN DISTRIBUTION PANEL

Location: Bldg. AUX Floor El. 1011' Room, Area 56, 9W'C-0N'7A

Condition

EE-8C has 3/8" Gap from EE-8F creating seismic interaction issue.

Documents Reviewed

N/A, CR initiated.

Licensing Basis

N/A, CR initiated.

Evaluation

N/A, CR initiated.

Conclusion Condition Meets the Licensing Basis: Yes No

CR# (If applicable): 2012-10427

Prepared by: Ryan Rymarczyk *R. Rymarczyk*
Licensing Basis Reviewer

Date 10/11/2012

Reviewed by: Kevin Bessell *K. Bessell*
Peer Reviewer

Date 10/12/2012

Sheet 1 of 1

Licensing Basis (LB) Evaluation Form

LB Evaluation No.: LB-20

Originating SWC/AWC: AWC-11

Equipment ID No.: N/A

Equip. Class: N/A

Equipment Description: N/A

Location: Bldg. INTAKE

Floor El. 994'

Room, Area North Basement Room,
Near AC-12B; AC-12B-M; AC-10D

Condition

Portable light plugged in and hung unsecured above an open sump pump.

Documents Reviewed

N/A, CR initiated.

Licensing Basis

N/A, CR initiated.

Evaluation

N/A, CR initiated.

Conclusion Condition Meets the Licensing Basis: Yes No

CR# (If applicable): 2012-10628

Prepared by: Ryan Rymarczyk
Licensing Basis Reviewer

Date 10/11/2012

Reviewed by: Kevin Bessell
Peer Reviewer

Date 10/12/2012

Sheet 1 of 1

Licensing Basis (LB) Evaluation Form

LB Evaluation No.: LB-22

Originating SWC/AWC: AWC-10

Equipment ID No.: N/A

Equip. Class: N/A

Equipment Description: N/A

Location: Bldg. INTAKE

Floor El. 1007'

Room, Area Grade Floor, Near FP-1B

Condition

Transient materials left in non-storage area.

Documents Reviewed

N/A, CR initiated.

Licensing Basis

N/A, CR initiated.

Evaluation

N/A, CR initiated.

Conclusion Condition Meets the Licensing Basis: Yes No

CR# (If applicable): 2012-10630

Prepared by: Ryan Rymarczyk *R. Rymarczyk*
Licensing Basis Reviewer

Date 10/11/2012

Reviewed by: Kevin Bessell *K. Bessell*
Peer Reviewer

Date 10/12/2012

Sheet 1 of 1

Licensing Basis (LB) Evaluation Form

LB Evaluation No.: LB-24

Originating SWC/AWC: AWC-15

Equipment ID No.: N/A

Equip. Class: N/A

Equipment Description: N/A

Location: Bldg. AUX

Floor El. 1036'

Room, Area 72, Near TCV-893; VA-46A

Condition

A clamp on a rope was attached near SR equipment creating a seismic spatial interaction condition.

Documents Reviewed

N/A, CR initiated.

Licensing Basis

N/A, CR initiated.

Evaluation

N/A, CR initiated.

Conclusion Condition Meets the Licensing Basis: Yes No

CR# (If applicable): 2012-10672

Prepared by: Ryan Rymarczyk *R. Rymarczyk*
Licensing Basis Reviewer

Date 10/11/2012

Reviewed by: Kevin Bessell *K. Bessell*
Peer Reviewer

Date 10/12/2012

Sheet 1 of 1

Licensing Basis (LB) Evaluation Form

LB Evaluation No.: LB-26

Originating SWC/AWC: AWC-14

Equipment ID No.: N/A

Equip. Class: N/A

Equipment Description: N/A

Location: Bldg. AUX

Floor El. 1036'

Room, Area 77, Near DC-BUS-AI-41A;
I-BUS-A; AI-40A; AI-41A; RM-051

Condition

Large mobile white board with unlocked wheels creating a seismic spatial interaction condition.

Documents Reviewed

N/A, CR initiated.

Licensing Basis

N/A, CR initiated.

Evaluation

N/A, CR initiated.

Conclusion Condition Meets the Licensing Basis: Yes No

CR# (If applicable): 2012-10684

Prepared by: Ryan Rymarczyk *RR*
Licensing Basis Reviewer

Date 10/11/2012

Reviewed by: Kevin Bessell *KB*
Peer Reviewer

Date 10/12/2012

Sheet 1 of 1

Licensing Basis (LB) Evaluation Form

LB Evaluation No.: LB-35

Originating SWC/AWC: AWC-22

Equipment ID No.: N/A

Equip. Class: N/A

Equipment Description: N/A

Location: Bldg. AUX

Floor El. 989'

Room, Area 18, Near HCV-2877A; HCV-2880A; HCV-2893

Condition

Unsecured chains from hoist are located unsecured near AC-1C and AC-1D.

Documents Reviewed

N/A, CR initiated.

Licensing Basis

N/A, CR initiated.

Evaluation

N/A, CR initiated.

Conclusion Condition Meets the Licensing Basis: Yes No

CR# (If applicable): 2012-11041

Prepared by: Ryan Rymarczyk *RR*
Licensing Basis Reviewer

Date 10/11/2012

Reviewed by: Kevin Bessell *KB*
Peer Reviewer

Date 10/12/2012

LICENSING BASIS EVALUATION FORM

Sheet 1 of 1

Licensing Basis (LB) Evaluation Form

LB Evaluation No.: LB-38 Originating SWC/AWC: AWC-30
Equipment ID No.: WD-1 Equip. Class: N/A
Equipment Description: N/A
Location: Bldg. CONT Floor El. 1013' Room, Area Cont., Near B/LT-911;
B/PT-913

Condition

There was no tag identified for scaffolding around tank WD-1. Scaffolding could cause interaction issues with adjacent equipment.

Documents Reviewed

N/A, CR initiated.

Licensing Basis

N/A, CR initiated.

Evaluation

N/A, CR initiated.

Conclusion Condition Meets the Licensing Basis: Yes No

CR# (If applicable): 2012-11880

Prepared by: Ryan Rymarczyk *B. Rymarczyk* Date 10/11/2012
Licensing Basis Reviewer

Reviewed by: Kevin Bessell *K. Bessell* Date 10/12/2012
Peer Reviewer

LICENSING BASIS EVALUATION FORM

Sheet 1 of 1

Licensing Basis (LB) Evaluation Form

LB Evaluation No.: LB-40

Originating SWC/AWC: AWC-3

Equipment ID No.: N/A

Equip. Class: N/A

Equipment Description: N/A

Location: Bldg. AUX

Floor El. 989'

Room, Area 19, Near FW10; FW172;
FCV-1369

Condition

Scaffolding in Room 19 near FW-10 point is only anchored at 1 point and could undergo significant deflection and create spatial interaction problems with near by piping.

Documents Reviewed

N/A, CR initiated.

Licensing Basis

N/A, CR initiated.

Evaluation

N/A, CR initiated.

Conclusion Condition Meets the Licensing Basis: Yes No

CR# (If applicable): 2012-12399

Prepared by: Ryan Rymarczyk *BRB*
Licensing Basis Reviewer

Date 10/11/2012

Reviewed by: Kevin Bessell *KB*
Peer Reviewer

Date 10/12/2012

Sheet 1 of 1

Licensing Basis (LB) Evaluation Form

LB Evaluation No.: LB-43

Originating SWC/AWC: AWC-19

Equipment ID No.: N/A

Equip. Class: N/A

Equipment Description: N/A

Location: Bldg. AUX

Floor El. 989'

Room, Area 7, Near CH-193; LCV-218-3; CH-172

Condition

Electrical chords hanging over area could pose fire hazard.

Documents Reviewed

N/A, CR initiated.

Licensing Basis

N/A, CR initiated.

Evaluation

N/A, CR initiated.

Conclusion Condition Meets the Licensing Basis: Yes No

CR# (If applicable): 2012-12403

Prepared by: Ryan Rymarczyk *RR*
Licensing Basis Reviewer

Date 10/11/2012

Reviewed by: Kevin Bessell *KB*
Peer Reviewer

Date 10/12/2012

Sheet 1 of 1

Licensing Basis (LB) Evaluation Form

LB Evaluation No.: LB-45

Originating SWC/AWC: AWC-17

Equipment ID No.: N/A

Equip. Class: N/A

Equipment Description: N/A

Location: Bldg. AUX

Floor El. 989'

Room, Area 6, near CH-1A; HCV-474

Condition

Table with tools is unsecured and ladder is laying in red zone.

Documents Reviewed

N/A, CR initiated.

Licensing Basis

N/A, CR initiated.

Evaluation

N/A, CR initiated.

Conclusion Condition Meets the Licensing Basis: Yes No

CR# (If applicable): 2012-12401

Prepared by: Ryan Rymarczyk *R. Rymarczyk*
Licensing Basis Reviewer

Date 10/11/2012

Reviewed by: Kevin Bessell *K. Bessell*
Peer Reviewer

Date 10/12/2012

Sheet 1 of 1

Licensing Basis (LB) Evaluation Form

LB Evaluation No.: LB-48

Originating SWC/AWC: SWC-49

Equipment ID No.: EE-8C

Equip. Class: 16. BATTERY CHARGERS AND INVERTERS

Equipment Description: 125V DC BATTERY CHARGER NUMBER 1

Location: Bldg. AUX

Floor El. 1011'

Room, Area 56, 9W'C-13N'6D

Condition

Missing plant documentation during the walkdown to verify anchorage configuration.

Documents Reviewed

SEWS EE-8C, page 4 of 10

Licensing Basis

The licensing basis associated with the identified condition is the plant licensed design documents provided above used for configuration verification of the installed anchorage.

Evaluation

The field sketch of the anchorage provided for verification of configuration matches the document identified above, therefore the anchorage of the item meets the current licensing basis.

Conclusion Condition Meets the Licensing Basis: Yes No

CR# (If applicable): N/A

Prepared by: Ryan Rymarczyk *R. Rymarczyk*
Licensing Basis Reviewer

Date 10/11/2012

Reviewed by: Kevin Bessell *K. Bessell*
Peer Reviewer

Date 10/12/2012

Sheet 1 of 1

Licensing Basis (LB) Evaluation Form

LB Evaluation No.: LB-49

Originating SWC/AWC: SWC-58

Equipment ID No.: NI-001-DA1

Equip. Class: 20, INSTRUMENTATION AND CONTROL
PANELS

Equipment Description: INSTRUMENT MODULE FOR NUETRON FLUX MONITORING

Location: Bldg. AUX Floor El. 1013' Room, Area 57, AI-212

Condition

Missing plant documentation during the walkdown to verify anchorage configuration.

Documents Reviewed

D-4166 (File#22677)

Licensing Basis

The licensing basis associated with the identified condition is the plant licensed design documents provided above used for configuration verification of the installed anchorage.

Evaluation

The field sketch of the anchorage provided for verification of configuration matches the document identified above, therefore the anchorage of the item meets the current licensing basis.

Conclusion Condition Meets the Licensing Basis: Yes No

CR# (If applicable): N/A

Prepared by: Ryan Rymarczyk 
Licensing Basis Reviewer

Date 10/11/2012

Reviewed by: Kevin Bessell 
Peer Reviewer

Date 10/12/2012

LICENSING BASIS EVALUATION FORM

Sheet 1 of 1

Licensing Basis (LB) Evaluation Form

LB Evaluation No.: LB-61

Originating SWC/AWC: SWC-70

Equipment ID No.: C/PT-913

Equip. Class: 20, INSTRUMENTATION AND CONTROL
PANELS

Equipment Description: STEAM GENERATOR RC-2A WIDE RANGE PRESSURE TRANSMITTER

Location: Bldg. CONT

Floor El. 1002'

Room, Area CONT, 3W/BB-9N/II

Condition

Missing plant documentation during the walkdown to verify anchorage configuration.

Documents Reviewed

C-4047 SH. 2 (File # 24300)

Licensing Basis

The licensing basis associated with the identified condition is the plant licensed design documents provided above used for configuration verification of the installed anchorage.

Evaluation

The field sketch of the anchorage provided for verification of configuration matches the document identified above, therefore the anchorage of the item meets the current licensing basis.

Conclusion Condition Meets the Licensing Basis: Yes No

CR# (If applicable): N/A

Prepared by: Ryan Rymarczyk 
Licensing Basis Reviewer

Date 10/11/2012

Reviewed by: Kevin Bessell 
Peer Reviewer

Date 10/12/2012

Peer Review Checklist for SWEL

Instructions for Completing Checklist

This peer review checklist may be used to document the review of the Seismic Walkdown Equipment List (SWEL) in accordance with EPRI 1025286, Section 6: Peer Review. The space below each question in this checklist should be used to describe any findings identified during the peer review process and how the SWEL may have changed to address those findings. Additional space is provided at the end of this checklist for documenting other comments.

1. Were the five safety functions adequately represented in the SWEL 1 selection? Y N

Attached is the proposed changes to the safety functions associated with each item listed in the original SWEL.

Response: The SWEL was updated with safety function changes.

Response is accepted

2. Does SWEL 1 include an appropriate representation of items having the following sample selection attributes:

a. Various types of systems? Y N

b. Major new and replacement equipment? Y N

c. Various types of equipment? Y N

d. Various environments? Y N

Peer Review Checklist for SWEL

- e. Equipment enhanced based on the findings of the IPEEE (or equivalent) program? Y N

There is confusion on which program equipment set to use. Presently not all items are in the IPEEE. Other documents share information. Some items in the list are not analyzed in the IPEEE.

Response: As explained in the Submittal Report EA12-021 which discusses the development of the SWEL, Section 6.0, the SWEL is based on the USI A-46 SSEL augmented by additional equipment listed in the IPEEE table which was not included in the A-46 listing. There are items in the IPEEE which are not on the A-46 SSEL but were considered in the selection of items for the SWEL 1 listing. So, the A-46 SSEL, which was used as the Base List, was enhanced by the IPEEE program as intended.

Response is accepted

- f. Were risk insights considered in the development of SWEL 1? Y N

Specific discussion on risk insights are not included on selection table. No indication of risk worth was provided as part of the review package

Response: Risk insights were considered but risk avoidance worth (RAW) was not included on the SWEL itself. Risk worth is unknown for each item on the list and the development of RAW values for the entire list would require significant new analyses. Section 6.1 of the Submittal Report EA12-021 discusses the use of risk insights in developing the SWEL as follows:

To ensure that risk significant items were included, insights from the Ft. Calhoun PRA were considered. The Fort Calhoun Station (FCS) Probabilistic Risk Assessment (PRA) model includes only simplified modeling of a potential seismic initiating event. The simplified seismic model is used to support plant configuration risk assessments. It is not equivalent to a seismic PRA, and does not meet Regulatory Guide 1.200, Revision 2 with respect to modeling of seismic events. The simplified seismic model is based on a hypothetical seismic event (nominally 0.1g) that is assumed to result in failure of selected equipment that is susceptible to failure at or near the assumed g-level. The model assumes that the seismic event results in unrecoverable loss of off-site power, failure of equipment in the Turbine Building (including Auxiliary Feedwater Pump FW-54), failure of the diesel-driven fire pump in the Intake Structure and failure of all makeup sources to the Emergency Feedwater Storage Tank (EFWST) except Raw Water.

Using the existing PRA model, a list of potential seismic event accident sequences (i.e., cutsets) was generated. The list of importance measures for basic events appearing in the seismic event cutsets were sorted based on the "Risk Achievement Worth, RAW" importance measure. The equipment with the highest importance according to this approach is listed below:

- Diesel Generators (including inlet/exhaust dampers and fuel oil transfer pumps)*
- Station Batteries*
- Various 4160V Breakers*
- Air-Operated Auxiliary Feedwater Valves*

Peer Review Checklist for SWEL

- 480V Buses
- Auxiliary Feedwater Pumps FW-10 & FW-6 (including associated equipment)"

This equipment with the highest risk importance was considered in the SWEL development.

Response is accepted

3. For SWEL 2:

- a. Were spent fuel pool related items considered, and if applicable included in SWEL 2? Y N

Some of the Spent Fuel pool items selected are not part of the cooling function associated with SFP cooling. Also the SFP as a component was not selected.

Response: Not all SFP related items were selected. The intent is to select a spectrum of types of equipment not to necessarily only select components associated with the cooling function. On the other hand, the SFP itself was not selected based on the EPRI guidance (EPRI Report 1025286, Seismic Walkdown Guidance For Resolution of Fukushima Near-Term Task Force Recommendation 2.3: Seismic) which states:

"The adequacy of the SFP structure is typically assessed by analysis as a Seismic Category I structure. Therefore, the SFP structure is assumed to be seismically adequate for the purposes of this program."

Response is accepted

- b. Was an appropriate justification documented for spent fuel pool related items not included in SWEL 2? Y N

No justification for the Spent fuel pool was located in the document

Response: See item 3.a., above.

Response is accepted

4. Provide any other comments (Attachment 9.11) related to the peer review of the SWELs.

All further comments attached

Response: Attached comments related to equipment safety function were incorporated.

Response is accepted

5. Have all peer review comments been adequately addressed in the final SWEL?

Y N

Peer Review Checklist for SWEL

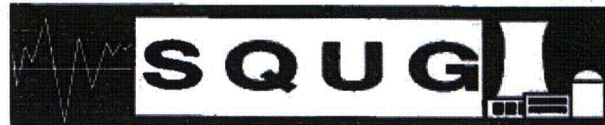
Peer Reviewer #1: Don Pier *Don Pier* Date: 11-8-12

Peer Reviewer #2: Ashwin Patel *Ashwin R. Patel* Date: 11/8/12

Comment	Resolution
Missing system for item 68-89	Added
Missing room for 91-95	Added
Missing elevation for 91-95	Added
Missing location for 64-95	Added
Item 5: Not sure why MCC- 3B1 has all safety functions listed. The only one I correlate is Containment, unless Habitability is the concern.	Revised
Item 6: 1B3A: Affected Safety functions; 1,2,3, 5. Also affects Spent Fuel Pool Cooling.	SFP cooling is not one of the five safety functions defined in ELECTRIC POWER RESEARCH INSTITUTE (EPRI) DRAFT REPORT 1025286, "SEISMIC WALKDOWN GUIDANCE". New column added to indicate SFP item
Item 7: 1B3B: Also affects Spent Fuel Pool Cooling.	SFP cooling is not one of the five safety functions defined in ELECTRIC POWER RESEARCH INSTITUTE (EPRI) DRAFT REPORT 1025286, "SEISMIC WALKDOWN GUIDANCE". New column added to indicate SFP item
Item 8: 1B3C: Affected Safety functions; 1, 2.	Revised
Item 9: 1B4A: Also affects Spent Fuel Pool Cooling.	SFP cooling is not one of the five safety functions defined in ELECTRIC POWER RESEARCH INSTITUTE (EPRI) DRAFT REPORT 1025286, "SEISMIC WALKDOWN GUIDANCE". New column added to indicate SFP item
Item 10: 1B4B: Affected Safety function; 1, 2, 3, 5.	Revised
Item 11: 1B4C: Also affects Spent Pool Cooling.	SFP cooling is not one of the five safety functions defined in ELECTRIC POWER RESEARCH INSTITUTE (EPRI) DRAFT REPORT 1025286, "SEISMIC WALKDOWN GUIDANCE". New column added to indicate SFP item
Item 12: 1A4: Also affects Spent Fuel Pool Cooling.	SFP cooling is not one of the five safety functions defined in ELECTRIC POWER RESEARCH INSTITUTE (EPRI) DRAFT REPORT 1025286, "SEISMIC WALKDOWN GUIDANCE". New column added to indicate SFP item
Item 13: 1A3: Affected Safety Function, also affects Spent Fuel Pool Cooling	SFP cooling is not one of the five safety functions defined in ELECTRIC POWER RESEARCH INSTITUTE (EPRI) DRAFT REPORT 1025286, "SEISMIC WALKDOWN GUIDANCE". New column added to indicate SFP item
Item 14: 1A4: Affected Safety Function, also affects Spent Fuel Pool Cooling	SFP cooling is not one of the five safety functions defined in ELECTRIC POWER RESEARCH INSTITUTE (EPRI) DRAFT REPORT 1025286, "SEISMIC WALKDOWN GUIDANCE". New column added to indicate SFP item
Item 15: EE-4S: No affected safety functions (inverter two is a better choice)	Revised to state no safety function
Item 16: T1B3C: Affected Safety function 1,2.	Revised
Item 17: AC-3A: Affected Safety function 3, 4, also SFP cooling	Revised to add safety fctn, SFP cooling is not one of the five safety functions defined in ELECTRIC POWER RESEARCH INSTITUTE (EPRI) DRAFT REPORT 1025286, "SEISMIC WALKDOWN GUIDANCE". ". New column added to indicate SFP item
Item 18: AC-3B: Affected Safety function 3, 4, also SFP cooling	Revised to add safety fctn, SFP cooling is not one of the five safety functions defined in ELECTRIC POWER RESEARCH INSTITUTE (EPRI) DRAFT REPORT 1025286, "SEISMIC WALKDOWN GUIDANCE". ". New column added to indicate SFP item

Comment	Resolution
Item 24: AC-10B: Affected Safety function 3, 4, also SFP cooling	Revised to add safety fctn, SFP cooling is not one of the five safety functions defined in ELECTRIC POWER RESEARCH INSTITUTE (EPRI) DRAFT REPORT 1025286, "SEISMIC WALKDOWN GUIDANCE". ". New column added to indicate SFP item
Item 25: AC10D: Affected Safety function 3,4 also SFP cooling	Revised to add safety fctn, SFP cooling is not one of the five safety functions defined in ELECTRIC POWER RESEARCH INSTITUTE (EPRI) DRAFT REPORT 1025286, "SEISMIC WALKDOWN GUIDANCE". ". New column added to indicate SFP item
Item 26: HCV-474: none	Revised to state no safety function
Item 27: Affected safety function, 4 on SDC	Changed to 4 only
Item 30: tcv-493; none	Revised to state no safety function
Item 31: HCV-2874A; Affected safety function 4,5, also SFP cooling	Revised to add safety fctn, SFP cooling is not one of the five safety functions defined in ELECTRIC POWER RESEARCH INSTITUTE (EPRI) DRAFT REPORT 1025286, "SEISMIC WALKDOWN GUIDANCE". ". New column added to indicate SFP item
Item 32: HCV-2875A; Affected Safety function 4,5, also SFP cooling	Revised to add safety fctn, SFP cooling is not one of the five safety functions defined in ELECTRIC POWER RESEARCH INSTITUTE (EPRI) DRAFT REPORT 1025286, "SEISMIC WALKDOWN GUIDANCE". ". New column added to indicate SFP item
Item 33: HCV-2877A; Affected Safety function 4,5, also SFP cooling	Revised to add safety fctn, SFP cooling is not one of the five safety functions defined in ELECTRIC POWER RESEARCH INSTITUTE (EPRI) DRAFT REPORT 1025286, "SEISMIC WALKDOWN GUIDANCE". ". New column added to indicate SFP item
Item 34: HCV-2880A; Affected Safety function 4,5, also SFP cooling	Revised to add safety fctn, SFP cooling is not one of the five safety functions defined in ELECTRIC POWER RESEARCH INSTITUTE (EPRI) DRAFT REPORT 1025286, "SEISMIC WALKDOWN GUIDANCE". ". New column added to indicate SFP item
Item 35: HCV-2893; Affected Safety function 4,5, also SFP cooling	Revised to add safety fctn, SFP cooling is not one of the five safety functions defined in ELECTRIC POWER RESEARCH INSTITUTE (EPRI) DRAFT REPORT 1025286, "SEISMIC WALKDOWN GUIDANCE". ". New column added to indicate SFP item
Item 36: LCV-218-3; Affected Safety function 1,2,3,	Revised
Item 43; VA-15A; Affected Safety function 5	Revised
Item 44; VA-46A; none	Revised to state no safety function
Item 51:EDG#2; affected Safety function 1,2,3,4,5, also SFP cooling	Revised to add safety fctn, SFP cooling is not one of the five safety functions defined in ELECTRIC POWER RESEARCH INSTITUTE (EPRI) DRAFT REPORT 1025286, "SEISMIC WALKDOWN GUIDANCE". ". New column added to indicate SFP item
Item 56; PI-2855-1; Affected Safety functions 4,5, also SFP cooling	Revised to add safety fctn, SFP cooling is not one of the five safety functions defined in ELECTRIC POWER RESEARCH INSTITUTE (EPRI) DRAFT REPORT 1025286, "SEISMIC WALKDOWN GUIDANCE". ". New column added to indicate SFP item

Comment	Resolution
Item 58: AC-1A; Affected Safety functions 4,5, also SFP cooling	Revised to add safety fctn, SFP cooling is not one of the five safety functions defined in ELECTRIC POWER RESEARCH INSTITUTE (EPRI) DRAFT REPORT 1025286, "SEISMIC WALKDOWN GUIDANCE". New column added to indicate SFP item
Item 60; SFP cooling is decay heat removal? SFP cooling	SFP cooling is not one of the five safety functions defined in ELECTRIC POWER RESEARCH INSTITUTE (EPRI) DRAFT REPORT 1025286, "SEISMIC WALKDOWN GUIDANCE". New column added to indicate SFP item
Item 64, 65: AC-100, AC-102; 4, 5 also SFP cooling	SFP cooling is not one of the five safety functions defined in ELECTRIC POWER RESEARCH INSTITUTE (EPRI) DRAFT REPORT 1025286, "SEISMIC WALKDOWN GUIDANCE". New column added to indicate SFP item
Item 70-74; Safety function affected 1,2,3.	Revised
Item 75; FP-1B; SFP cooling also.	Revised
Item 80; Safety Function affected 4.	Revised
Item 81-82, 85, 86; Safety Function affected 1,2,3,4	Revised
Item 83-84 Safety Function affected 2,3,4	Revised
Item 86: IA-12; Safety Function affected 2, 3, 4.	Revised
Item 87: AI-33A; Affected Safety function 5.	Revised
Item 88; SI-6A; Affected safety function 3, 4	Revised
Item 90-92; HCV-478; SFP cooling	SFP cooling is not one of the five safety functions defined in ELECTRIC POWER RESEARCH INSTITUTE (EPRI) DRAFT REPORT 1025286, "SEISMIC WALKDOWN GUIDANCE". New column added to indicate SFP item
Item 93, 94; none	RW-262 CHANGED TO NONE



Certificate of Achievement

This is to Certify that

John H. Kao

has Completed the SQUG Walkdown Screening
and Seismic Evaluation Training Course
Held May 3-7, 1993



David A. Freed, MPR Associates
SQUG Training Coordinator

Neil P. Smith, Commonwealth Edison
SQUG Chairman

Robert P. Kassawara, EPRI
SQUG Program Manager



Certificate of Achievement

This is to Certify that

John H. Kao

has Completed the
Seismic IPE Add-On Training Course
Held June 8-10, 1993

David A. Freed, MPR Associates
SQUG Training Coordinator

Robert P. Kassawara, EPRI
SQUG Program Manager

Certificate of Completion

Alex Smerch

**Training on Near Term Task Force
Recommendation 2.3
- Plant Seismic Walkdowns**

June 13, 2012

Date

R. P. Kassawara

Robert K. Kassawara
EPRI Manager,
Structural Reliability & Integrity

Certificate of Completion

Kevin Bessell

**Training on Near Term Task Force
Recommendation 2.3
- Plant Seismic Walkdowns**

June 13, 2012

Date

R.P. Kassawara

Robert K. Kassawara
EPRI Manager,
Structural Reliability & Integrity



Certificate of Achievement

This is to Certify that

Ashwin R. Patel

has Completed the SQUG Walkdown Screening and
Seismic Evaluation Training Course

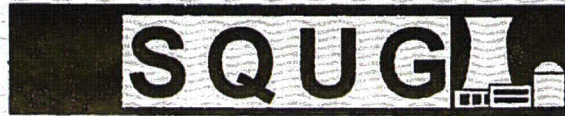
Held July 27-31, 1998



David A. Freed, MPR Associates
SQUG Training Coordinator

Neil P. Smith, Commonwealth Edison
SQUG Chairman

Robert P. Kassawara, EPRI
SQUG Program Manager



CERTIFICATE OF ACHIEVEMENT

THIS IS TO CERTIFY THAT

Ashwin B. Patel

**HAS COMPLETED THE SQUG EQUIPMENT SELECTION
AND RELAY EVALUATION TRAINING COURSE
HELD MARCH 27-28, 2000**



Richard G. Starck^{II}, MPR Associates
Instructor

Jess O. Betlack, MPR Associates
Instructor

SQUG 

CERTIFICATE OF ACHIEVEMENT

THIS IS TO CERTIFY THAT

Ashwin B. Patel

**HAS COMPLETED THE SQUG NEW AND REPLACEMENT
EQUIPMENT AND PARTS (NARE) TRAINING COURSE
HELD DECEMBER 6 & 7, 2001**



Patrick J. Butler

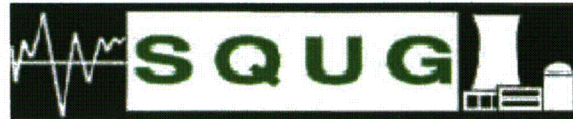
Patrick J. Butler, MPR Associates

Paul D. Baughman

Paul D. Baughman, EQE International

R.P. Kassawara

Dr. Robert P. Kassawara, EPRI



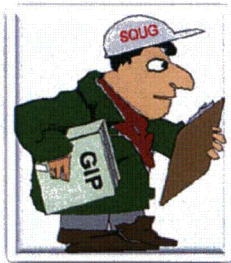
Presents this

Certificate of Achievement

To Certify That

Russell A. Placke

*has Completed the SQUG Walkdown Screening
and Seismic Evaluation Training Course
Held August 20-24, 2012*



Richard G. Starck II, MPR Associates, Inc.
SQUG Instructor

Paul D. Baughman, ARES Corporation
SQUG Instructor