SEISMIC WALKDOWN CHECKLIST FORM

Sheet 1 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWC- 53

Equipment ID No. LT-1183 Equip. Class[1] 18, INSTRUMENT RACKS

Equipment Description EMGY FEEDWATER STORAGE TNK FW-19 LEVEL TRANSMITTER

Location: Bldg. AUX Floor El. 1039' Room, Area 81, 18W'C-13N'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- 53

Equipment ID No. LT-1183 Equip. Class[2] 18, INSTRUMENT RACKS

Equipment Description EMGY FEEDWATER STORAGE TNK FW-19 LEVEL TRANSMITTER

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 C-4467, Sh. 1, Rev. 1 (File# 64132) and C-4467, Sh. 2, Rev. 0 (File# 64133).

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- 53

Equipment ID No. LT-1183 Equip. Class[3] 18, INSTRUMENT RACKS

Equipment Description EMGY FEEDWATER STORAGE TNK FW-19 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: 8/18/2012

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- 53

Equipment ID No. LT-1183 Equip. Class[4] 18, INSTRUMENT RACKS

Equipment Description EMGY FEEDWATER STORAGE TNK FW-19 LEVEL TRANSMITTER

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- 54

Equipment ID No. B/LT-911 Equip. Class[1] 18, INSTRUMENT RACKS

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

Location: Bldg. CONT Floor El. 1011' Room, Area *CONT, 15W'CC-3N'I*

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- 54

Equipment ID No. B/LT-911 Equip. Class[2] 18, INSTRUMENT RACKS

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

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☐
   There is a cable tray above which is adequately braced and not a credible source for seismic interaction.

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- 54

Equipment ID No. B/LT-911 Equip. Class[3] 18, INSTRUMENT RACKS

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

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- 54

Equipment ID No. B/LT-911 Equip. Class[4] 18, INSTRUMENT RACKS

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

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- 55

Equipment ID No. B/PT-913 Equip. Class[1] 18, INSTRUMENT RACKS

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

Location: Bldg. CONT Floor El. 1002' Room, Area *CONT, 15W'CC-3N'I*

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- 55

Equipment ID No. B/PT-913 Equip. Class[2] 18, INSTRUMENT RACKS

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

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- 55

Equipment ID No. B/PT-913 Equip. Class[3] 18, INSTRUMENT RACKS

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

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- 55

Equipment ID No. B/PT-913 Equip. Class[4] 18, INSTRUMENT RACKS

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

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- 56

Equipment ID No. A/PT-120 Equip. Class[1] 18, INSTRUMENT RACKS

Equipment Description PRESSURIZER RC-4 PRESSURE TRANSMITTER

Location: Bldg. CONT Floor El. 1018' 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☐

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- 56

Equipment ID No. A/PT-120 Equip. Class[2] 18, INSTRUMENT RACKS

Equipment Description PRESSURIZER RC-4 PRESSURE TRANSMITTER

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- 56

Equipment ID No. A/PT-120 Equip. Class[3] 18, INSTRUMENT RACKS

Equipment Description PRESSURIZER RC-4 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 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- 56

Equipment ID No. A/PT-120 Equip. Class[4] 18, INSTRUMENT RACKS

Equipment Description PRESSURIZER RC-4 PRESSURE TRANSMITTER

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- 57

Equipment ID No. PI-2855-1 Equip. Class[1] *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. Class[2] *18, INSTRUMENT RACKS*

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

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. 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. Class[3] *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* Date: *8/17/12*

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☐

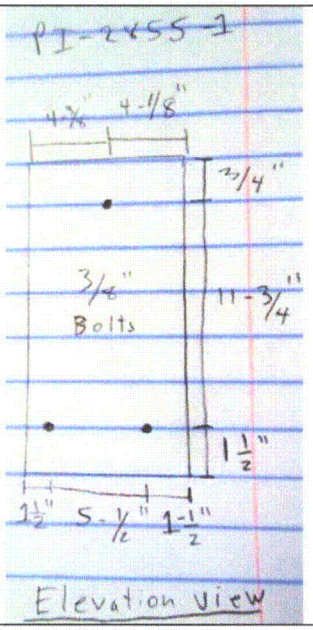
Seismic Walkdown Checklist (SWC) SWC- 57

Equipment ID No. PI-2855-1 Equip. Class[4] *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. Class[5] *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. Class[1] *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. Class[2] *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. Class[3] *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* Date: *8/16/12*

John Kao John Kao *8/16/12*

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

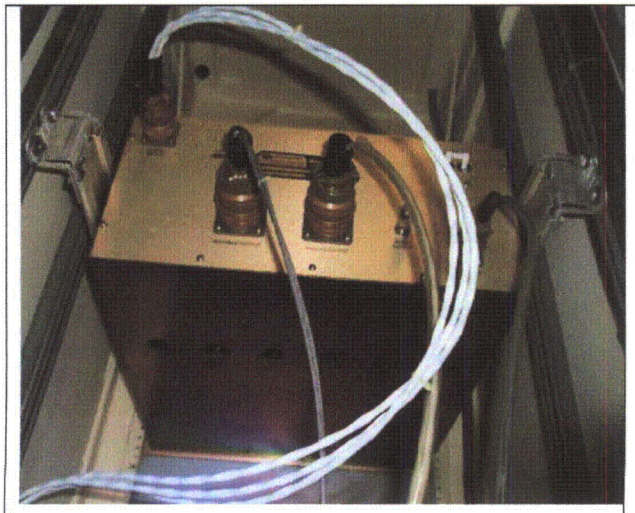
Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWC- 58

Equipment ID No. NI-001-DA1 Equip. Class[4] *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

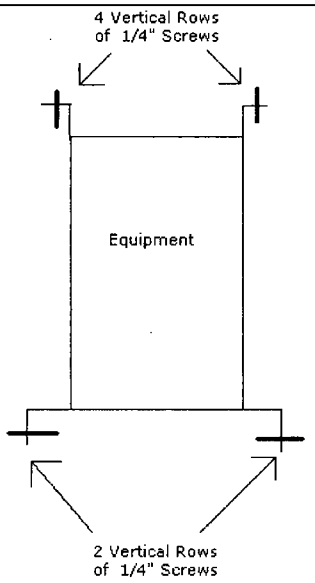
Sheet 5 of 5

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWC- 58

Equipment ID No. NI-001-DA1 Equip. Class[5] *20, INSTRUMENTATION AND CONTROL PANELS*

Equipment Description INSTRUMENT MODULE FOR NUETRON FLUX MONITORING



Plan View

Note:
Plan sketch of equipment and mounting brackets showing mounting screws.

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- 59

Equipment ID No. AC-1A Equip. Class[1] 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. Class[2] 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? Y☐ N☐ U☐ N/A☒

   Large heat exchanger not 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- 59

Equipment ID No. AC-1A Equip. Class[3] 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 8/20/2012

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

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 4 of 4

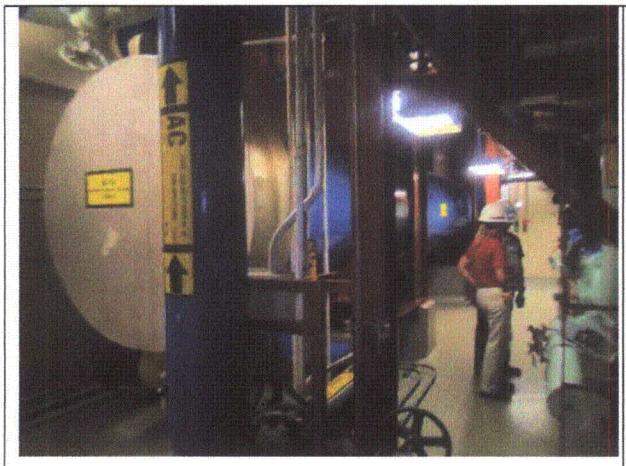
Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWC- 59

Equipment ID No. AC-1A Equip. Class[4] 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. Class[1] *21, TANKS AND HEAT EXCHANGERS*

Equipment Description SHUTDOWN COOLING HEATER EXCHANGER

Location: Bldg. *AUX* Floor El. 994' Room, Area *15, 13W'E-17S'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☐
   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 conrete 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. Class[2] *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? 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 5

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWC- 60

Equipment ID No. *AC-4B* Equip. Class[3] *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* 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

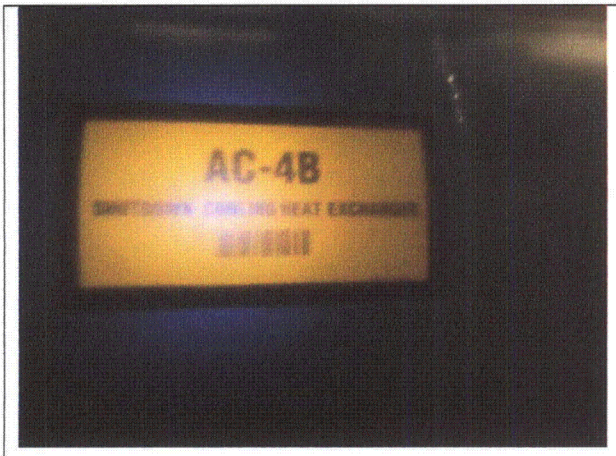
Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWC- 60

Equipment ID No. *AC-4B* Equip. Class[4] *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

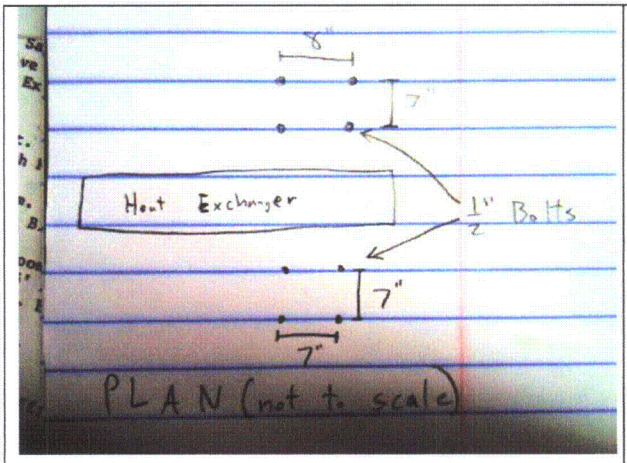
Sheet 5 of 5

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWC- 60

Equipment ID No. *AC-4B* Equip. Class[5] *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. Class[1] 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. Class[2] 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. Class[3] 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

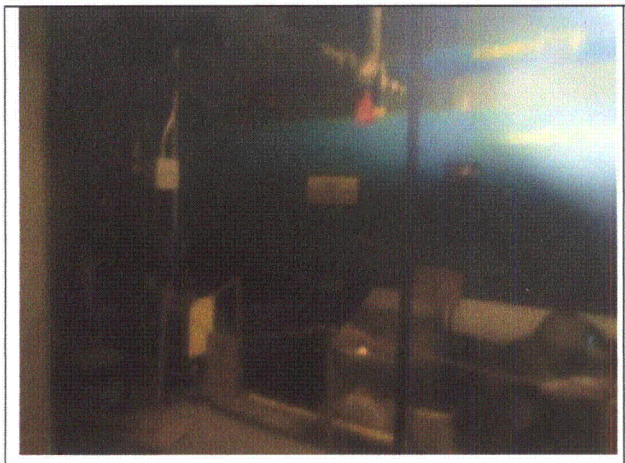
Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWC- 61

Equipment ID No. AC-8 Equip. Class[4] 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. Class[1] 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. Class[2] 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.) Y☒ N☐ U☐ N/A☐

   The anchorage is consistent with drawing B120D06002, Sh. 1, Rev. 5 (File# 17382) and 370 (File# 18080).

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. Class[3] 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. Class[4] 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. Class[1] 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. Class[2] 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.) Y☒ N☐ U☐ N/A☐

   The anchorage configuration is consistent with drawing 80048, Rev. 8 (File# 2377).

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. Class[3] 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 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. Class[4] 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[1] *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. Class[2] *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. Class[3] *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 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. Class[4] *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. Class[1] *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. Class[2] *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. Class[3] *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

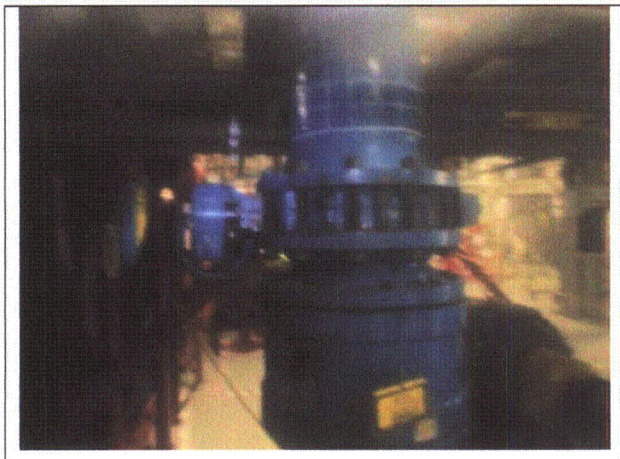
Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWC- 65

Equipment ID No. *AC-100* Equip. Class[4] *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. Class[1] *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. Class[2] *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? 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- 66

Equipment ID No. *AC-102* Equip. Class[3] *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 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. Class[4] *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. Class[1] 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. Class[2] 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. Class[3] 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 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. Class[4] 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. Class[1] *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. Class[2] *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. Class[3] *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 8/18/2012

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

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 4 of 4

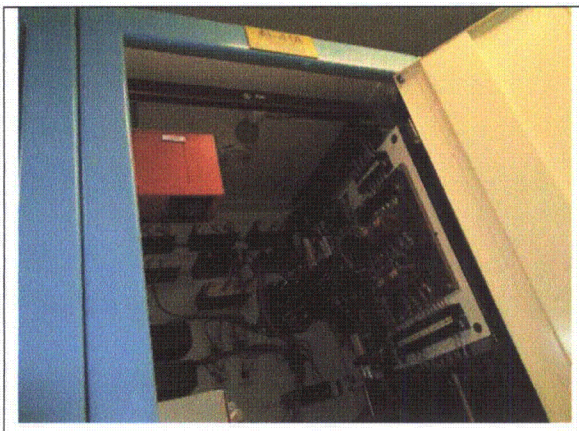
Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWC- 68

Equipment ID No. AI-41A Equip. Class[4] *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. Class[1] 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'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- 69

Equipment ID No. C/LT-911 Equip. Class[2] 20, INSTRUMENTATION AND CONTROL PANELS

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

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☐
   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. Class[3] 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 8/22/2012

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

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 4 of 4

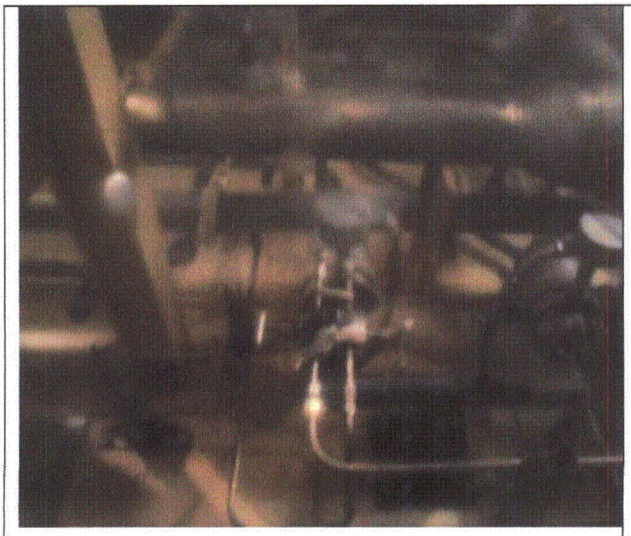
Status: Y☒ N☐ U☐

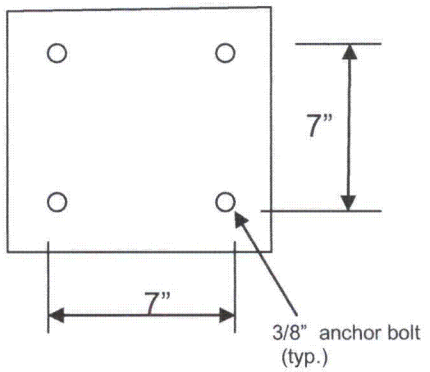
Seismic Walkdown Checklist (SWC) SWC- 69

Equipment ID No. C/LT-911 Equip. Class[4] 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. Class[1] 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*

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. Class[2] 20, INSTRUMENTATION AND CONTROL PANELS

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

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☐
   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. Class[3] 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 8/22/2012

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

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 4 of 4

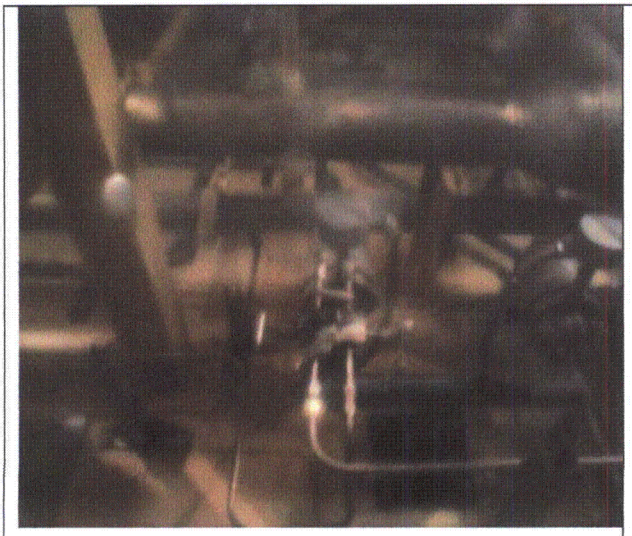
Status: Y☒ N☐ U☐

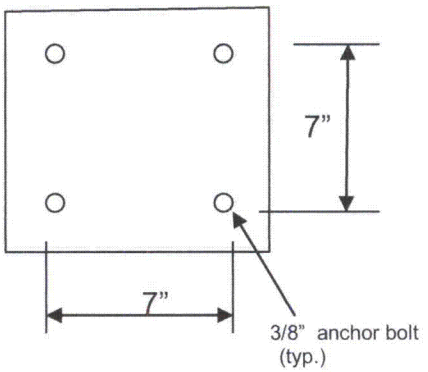
Seismic Walkdown Checklist (SWC) SWC- 70

Equipment ID No. C/PT-913 Equip. Class[4] 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. Class[1] 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. Class[2] 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. Class[3] 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 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. Class[4] 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. Class[1] 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. Class[2] 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. Class[3] 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 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. Class[4] 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. Class[1] 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. Class[2] 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. Class[3] 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 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. Class[4] 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. Class[1] 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. Class[2] 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. Class[3] 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 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

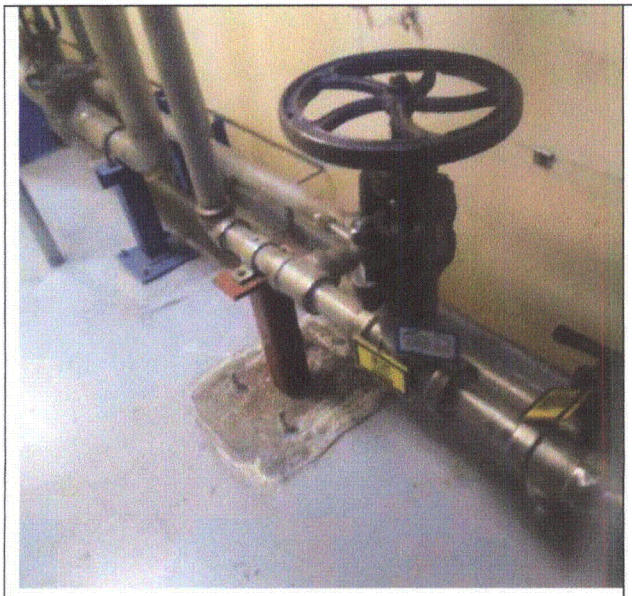
Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWC- 74

Equipment ID No. CH-193 Equip. Class[4] 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. Class[1] 5, HORIZONTAL PUMPS

Equipment Description BORIC ACID PUMP

Location: Bldg. AUX Floor El. 1007' Room, Area 26, 22W'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- 75

Equipment ID No. CH-4A Equip. Class[2] 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.) Y☒ N☐ U☐ N/A☐

   The anchorage configuration is consistent with drawing 11405-S-51, Rev. 17 (File# 16436) and 11405-S-69, Rev. 5 (File# 16454).

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. Class[3] 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* 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

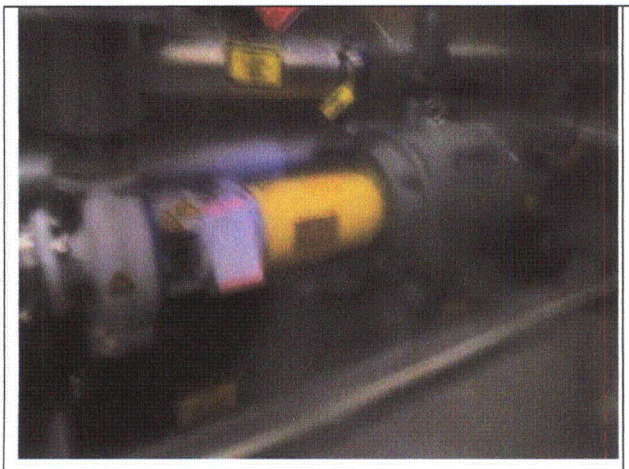
Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWC- 75

Equipment ID No. CH-4A Equip. Class[4] 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. Class[1] *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. Class[2] *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.) Y☒ N☐ U☐ N/A☐
   The anchorage configuration is consistent with drawing 3-2241, Sh. 1B, Rev. 2 (File# 16761).
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☒
   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- 76

Equipment ID No. FP-1B Equip. Class[3] *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 8/17/2012

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

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 4 of 4

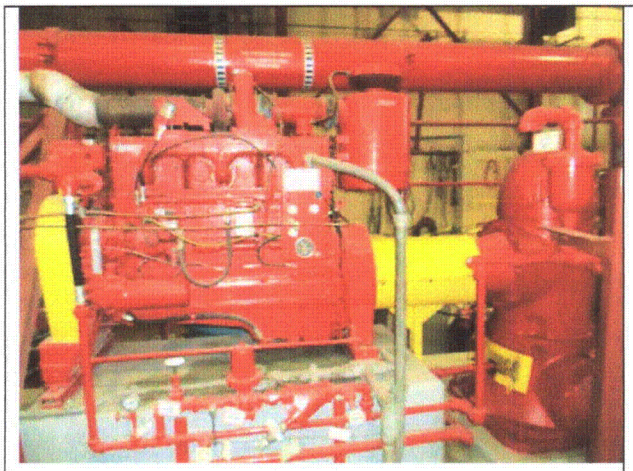
Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWC- 76

Equipment ID No. FP-1B Equip. Class[4] *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. Class[1] 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. Class[2] 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. Class[3] 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

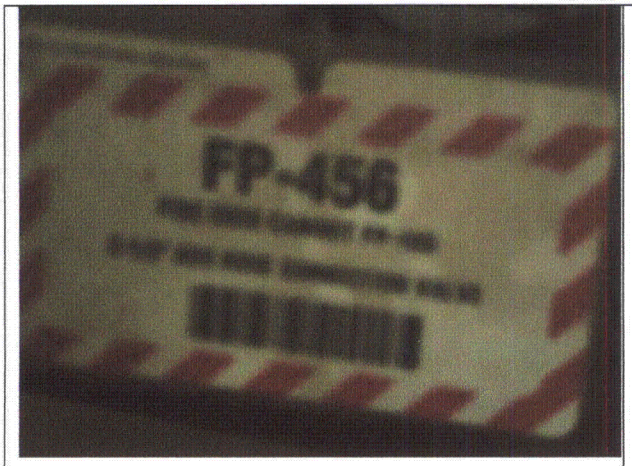
Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWC- 77

Equipment ID No. FP-456 Equip. Class[4] 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. Class[1] 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. Class[2] 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. Class[3] 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* Date: *8/27/12*

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. Class[4] 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. Class[1] *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. Class[2] *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 looselightbulls 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 enought 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. Class[3] *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 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

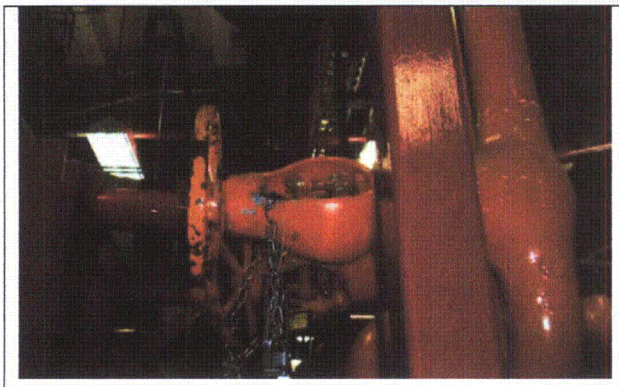
Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWC- 79

Equipment ID No. *FW-171* Equip. Class[4] *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. Class[1] *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. Class[2] *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? Y☐ N☐ U☐ N/A☒
   Valve is 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☐
   There is a protective cage surrounding the item.

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

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. Class[3] *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* 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

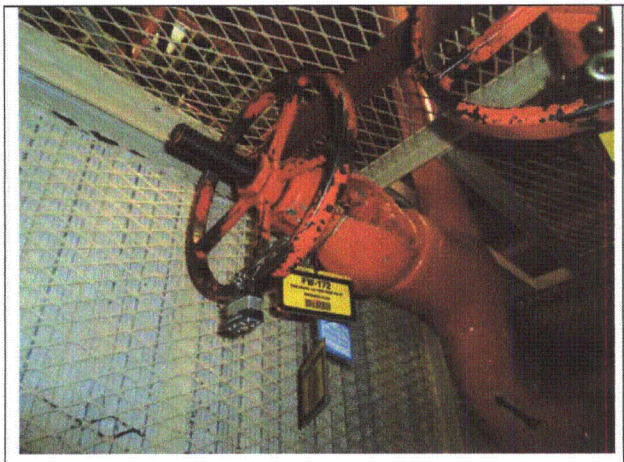
Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWC- 80

Equipment ID No. *FW-172* Equip. Class[4] *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[1] 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. Class[2] 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. Class[3] 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 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

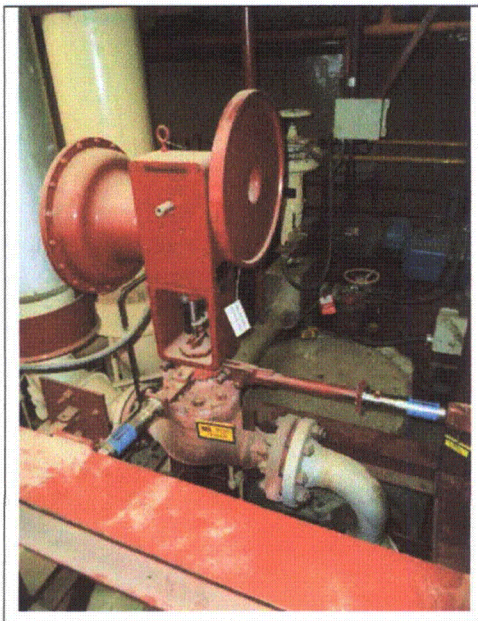
Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWC- 81

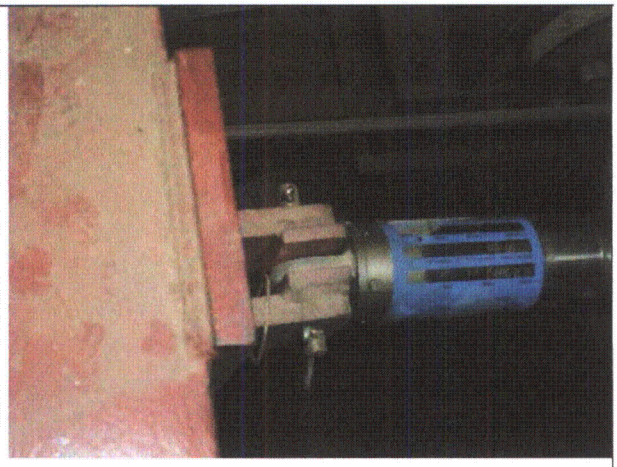
Equipment ID No. HCV-1040 Equip. Class[4] 7, PNEUMATIC-OPERATED VALVES

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

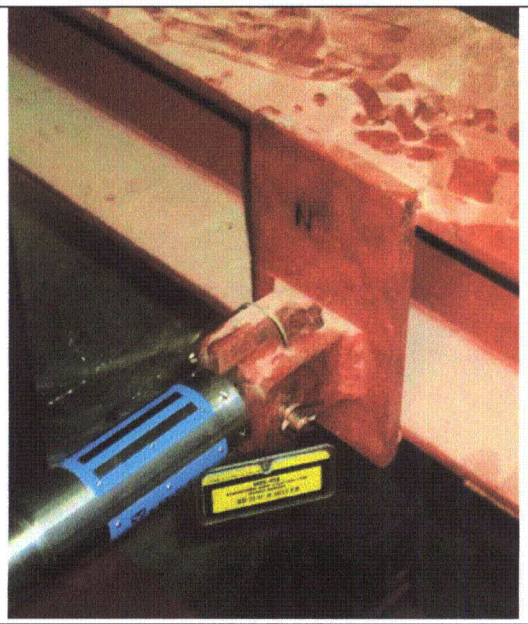
Sheet 5 of 5

Status: Y☒ N☐ U☐

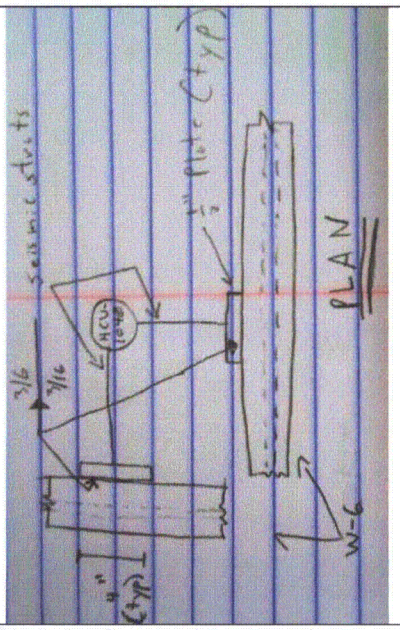
Seismic Walkdown Checklist (SWC) SWC- 81

Equipment ID No. HCV-1040 Equip. Class[5] 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. Class[1] 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. Class[2] 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. Class[3] 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 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. Class[4] 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. Class[1] 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. Class[2] 7, PNEUMATIC-OPERATED VALVES

Equipment Description HPSI PUMP 2C DISCHARGE 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☐

   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. Class[3] 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* 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

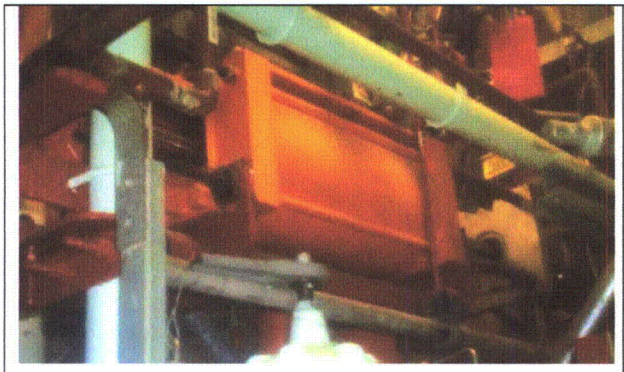
Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWC- 83

Equipment ID No. HCV-2918 Equip. Class[4] 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

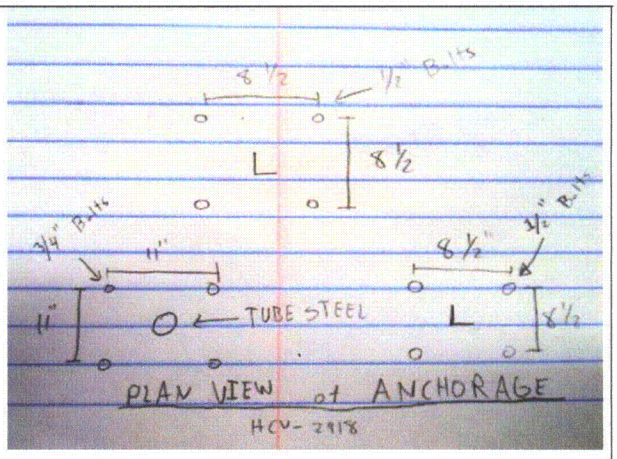
Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWC- 83

Equipment ID No. HCV-2918 Equip. Class[5] 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. Class[1] 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. Class[2] 7, PNEUMATIC-OPERATED VALVES

Equipment Description LPSI PUMP SI-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☐

   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. Class[3] 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 8/23/2012

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

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 4 of 5

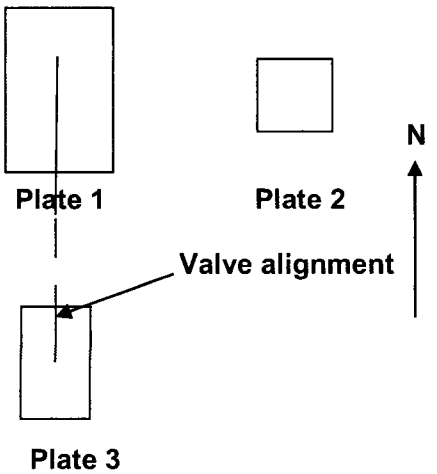
Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWC- 84

Equipment ID No. HCV-2947 Equip. Class[4] 7, PNEUMATIC-OPERATED VALVES

Equipment Description LPSI PUMP SI-1A SUCTION VALVE

Photographs



Note: *Anchor plate arrangement plan view.*

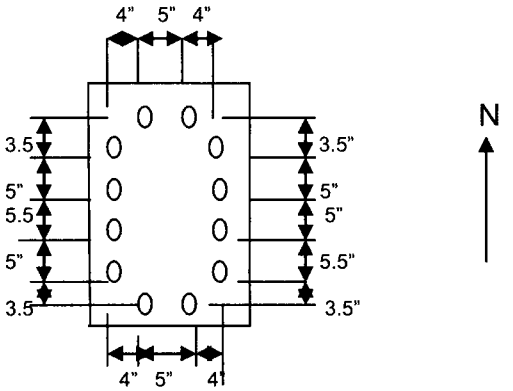


Plate 1

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

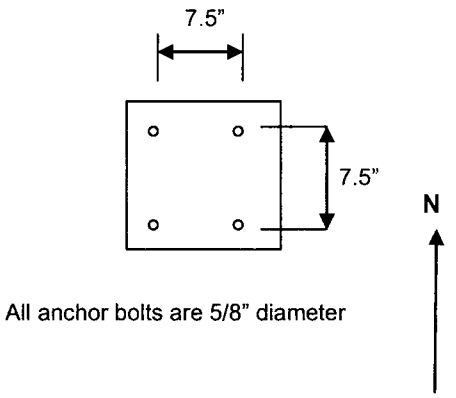
Sheet 5 of 5

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWC- 84

Equipment ID No. HCV-2947 Equip. Class[5] 7, PNEUMATIC-OPERATED VALVES

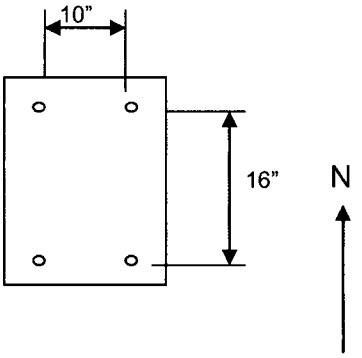
Equipment Description LPSI PUMP SI-1A SUCTION VALVE



All anchor bolts are 5/8" diameter

Plate 2

Note: *Plate 2 anchorage configuration.*



All anchor bolts are ¾" diameter

Plate 3

Note: *Plate 3 anchorage configuration.*

[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. Class[1] 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. Class[2] 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.) Y☐ N☒ U☐ N/A☐

   Needs to be confirmed with plant documentation. 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- 85

Equipment ID No. HCV-2948 Equip. Class[3] 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* 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

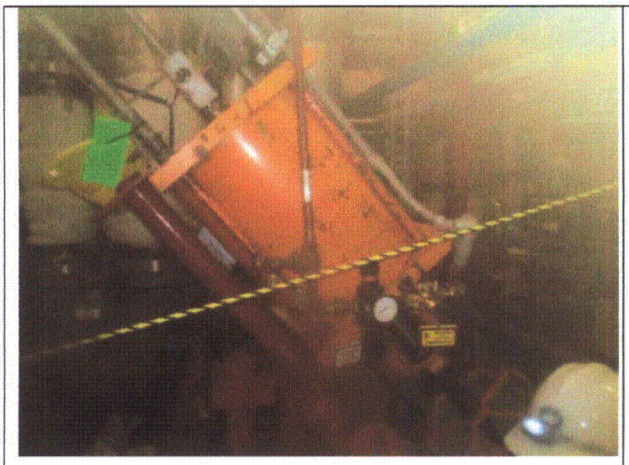
Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWC- 85

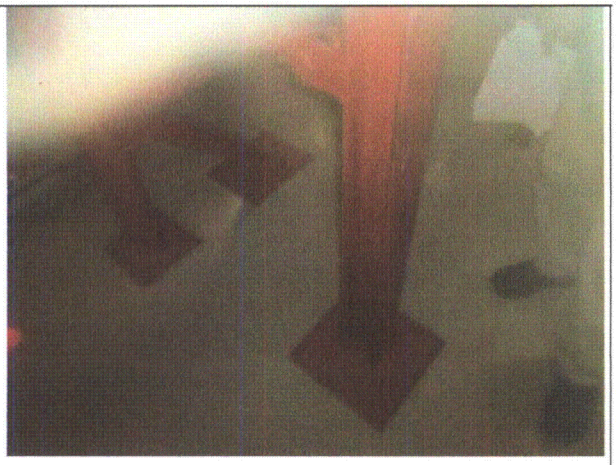
Equipment ID No. HCV-2948 Equip. Class[4] 7, PNEUMATIC-OPERATED VALVES

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

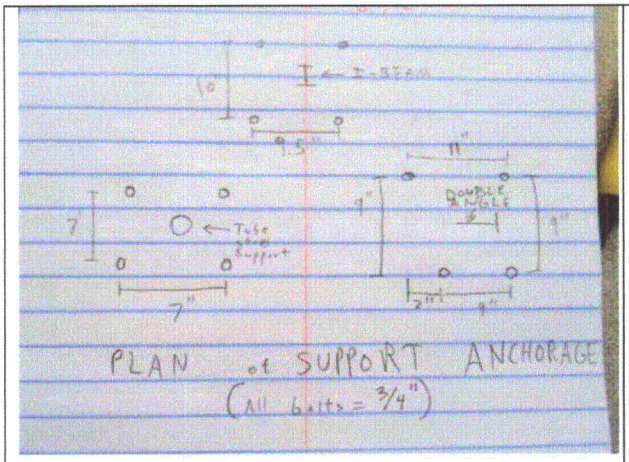
Sheet 5 of 5

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWC- 85

Equipment ID No. HCV-2948 Equip. Class[5] 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. Class[1] 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. Class[2] 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.) Y☐ N☒ U☐ N/A☐

   Needs to be confirmed with plant documentation. 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- 86

Equipment ID No. HCV-305 Equip. Class[3] 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 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. Class[4] 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

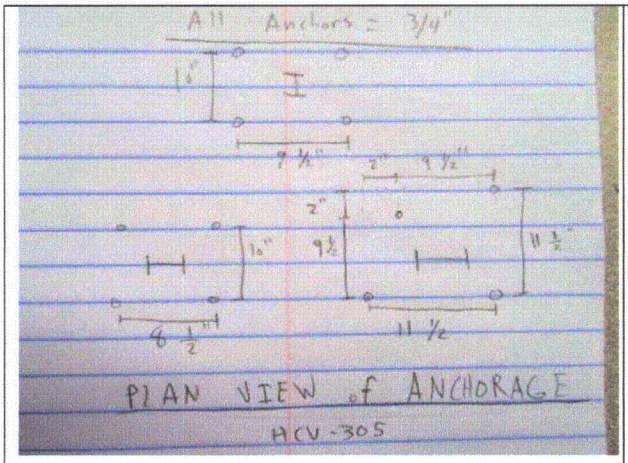
Sheet 5 of 5

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWC- 86

Equipment ID No. HCV-305 Equip. Class[5] 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. Class[1] 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. Class[2] 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. Class[3] 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* Date: *8/27/12*

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

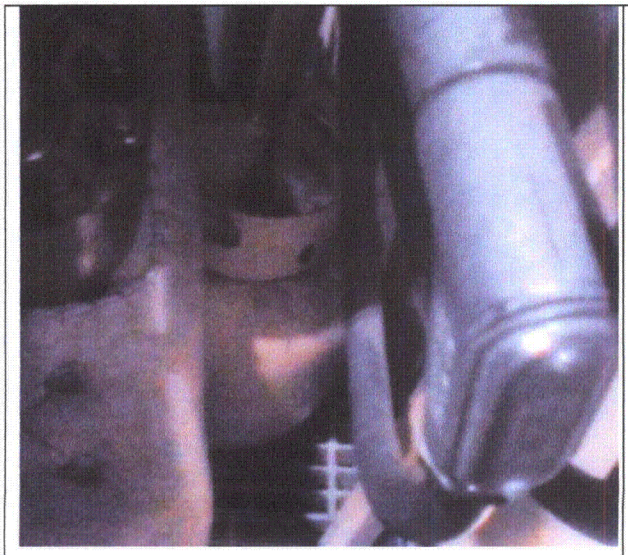
Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWC- 87

Equipment ID No. IA-12 Equip. Class[4] 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. Class[1] *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. Class[2] *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.) Y☒ N☐ U☐ N/A☐

   The anchorage configuration is consistent with drawing 703816-001, Rev. 0 (File# 42973)

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. Class[3] *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 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. Class[4] *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. Class[1] 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. Class[2] 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? 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- 89

Equipment ID No. SI-6A Equip. Class[3] 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 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. Class[4] 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. Class[1] 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. Class[2] 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.) Y☐ N☐ U☐ N/A☒
   In-line valve

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. Class[3] 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 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. Class[4] 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- 91

Equipment ID No. HCV-478 Equip. Class[1] 7, PNEUMATIC-OPERATED VALVES

Equipment Description SPENT FUEL POOL HT EXCH AC-8 CCW OUTLET VALVE

Location: Bldg. AUX Floor El. 993' Room, Area 5, 6W'R-8N'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☒

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- 91

Equipment ID No. HCV-478 Equip. Class[2] 7, PNEUMATIC-OPERATED VALVES

Equipment Description SPENT FUEL POOL HT EXCH AC-8 CCW 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?
   In-line 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- 91

Equipment ID No. HCV-478 Equip. Class[3] 7, PNEUMATIC-OPERATED VALVES

Equipment Description SPENT FUEL POOL HT EXCH AC-8 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 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- 91

Equipment ID No. HCV-478 Equip. Class[4] 7, PNEUMATIC-OPERATED VALVES

Equipment Description SPENT FUEL POOL HT EXCH AC-8 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. Class[1] 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. Class[2] 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.) Y☐ N☒ U☐ N/A☐

   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.

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- 92

Equipment ID No. AC-5A Equip. Class[3] 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 Date: 8/20/2012

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

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 4 of 4

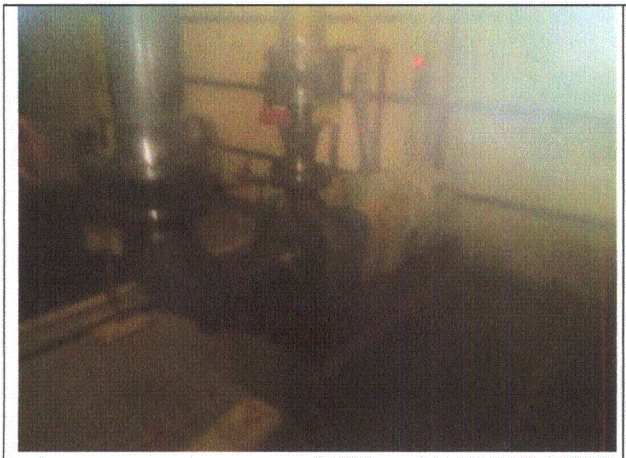
Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWC- 92

Equipment ID No. AC-5A Equip. Class[4] 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. Class[1] 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. Class[2] 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.) Y☐ N☒ U☐ N/A☐

   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. Class[3] 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* 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- 93

Equipment ID No. AC-5B Equip. Class[4] 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. Class[1] 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. Class[2] 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. Class[3] 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

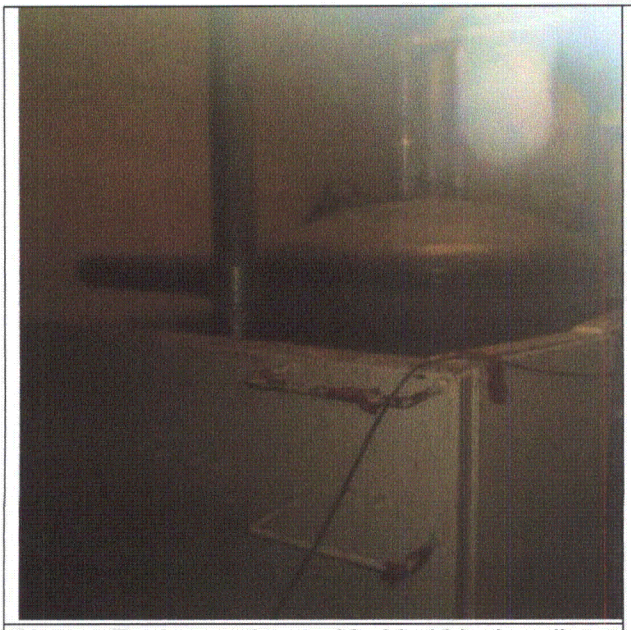
Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWC- 94

Equipment ID No. AC-7 Equip. Class[4] 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. Class[1] 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. Class[2] 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. Class[3] 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* 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

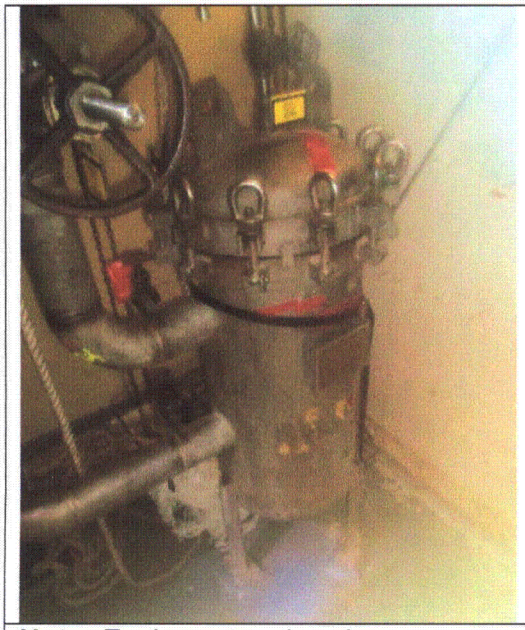
Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWC- 95

Equipment ID No. AC-6 Equip. Class[4] 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. Class[1] 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. Class[2] 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? (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☒
   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. Class[3] 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 8/18/2012

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

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 4 of 4

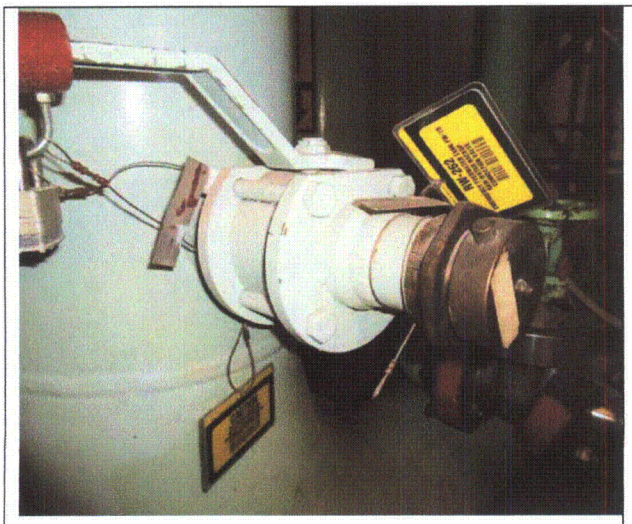
Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWC- 96

Equipment ID No. RW-262 Equip. Class[4] 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.

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	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
68	SWC-13	1A3	There are wood cribbing blocks inside cubicles 1A3-6, 7, 9, 13, 14, 15 and 16	CR Initiated	See CR	CR 2013-00522

POTENTIALLY ADVERSE SEISMIC CONDITIONS FORM						
LB #	SWC/AWC #	TAG ID (if applicable)	IDENTIFIED CONDITION	LICENSING BASIS EVALUATION CONCLUSION	RESOLUTION	CR # (If Applicable)
69	SWC-13	1A3	Cubicle 1A3-4 contains a steel plate that separates the interior of the cabinet. This plate appears to be missing a bolt. This is not a structural concern since this plate does not provide structural resistance of the cabinet and there are additional bolts that keep the plate in place.	CR Initiated	See CR	CR 2013-08401
70	SWC-9	1B4A	Interconnecting bolts were missing which connect panels on 1B4A with 69/1B4A. It appears as if the bolts were there once. There are 3 bolts one side and 4 the other side remaining, and the stability and connection is judged to be adequate. CR 2013-07194 was issued to resolve the issue.	CR Initiated	See CR	CR 2013-07194

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* Date *10/11/2012*
Licensing Basis Reviewer

Reviewed by: *Kevin Bessell* Date *10/12/2012*
Peer Reviewer

Licensing Basis (LB) Evaluation Form

LB Evaluation No.: *LB-02* Originating SWC/AWC: *SWC-38*

Equipment ID No.: *FCV-1369* Equip. Class: *7, PNEUMATIC-OPERATED VALVES*

Equipment Description: *TURB-DRIVEN AUX FEED PUMP FW-10 RECIRCULATION VALVE*

Location: Bldg. *AUX* Floor El. *991'* Room, Area *19, 3W'C-7N'3AA*

Condition

Missing clamp attaching unistrut and pipe. The unistrut holds the instrument line.

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): *2012-10198*

Prepared by: *Ryan Rymarczyk* Date *10/11/2012*

Licensing Basis Reviewer

Reviewed by: *Kevin Bessell* Date *10/12/2012*

Peer Reviewer

Licensing Basis (LB) Evaluation Form

LB Evaluation No.: *LB-03* Originating SWC/AWC: *SWC-21*

Equipment ID No.: *FO-4A-2* Equip. Class: *5, HORIZONTAL PUMPS*

Equipment Description: *D2 FUEL OIL TRANSFER PUMP #1*

Location: Bldg. *AUX* Floor El. *1012'* Room, Area *64, 3W'K-6S'2B*

Condition

Potentially missing fan clip above fuel oil transfer 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): *2012-10367*

Prepared by: *Ryan Rymarczyk* Date *10/11/2012*

Licensing Basis Reviewer

Reviewed by: *Kevin Bessell* Date *10/12/2012*

Peer Reviewer

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* Date *10/11/2012*
Licensing Basis Reviewer

Reviewed by: *Kevin Bessell* Date *10/12/2012*
Peer Reviewer

Licensing Basis (LB) Evaluation Form

LB Evaluation No.: *LB-05* Originating SWC/AWC: *SWC-51*

Equipment ID No.: *DG-2* Equip. Class: *17, ENGINE GENERATORS*

Equipment Description: *EMERGENCY DIESEL GENERATOR #2*

Location: Bldg. *AUX* Floor El. *1010'* Room, Area *64, 3E'F-7S'2B*

Condition

Insulation on a pipe above the diesel generator whose mass was not accounted for in seismic qualification report.

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): *2012-10369*

Prepared by: *Ryan Rymarczyk* Date *10/11/2012*

Licensing Basis Reviewer

Reviewed by: *Kevin Bessell* Date *10/12/2012*

Peer Reviewer

Licensing Basis (LB) Evaluation Form

LB Evaluation No.: *LB-06* Originating SWC/AWC: *SWC-16*

Equipment ID No.: *T1B-3C* Equip. Class: *4, TRANSFORMERS*

Equipment Description: *4160/480 TRANSFORMER BUS 1B3C*

Location: Bldg. *AUX* Floor El. *1011'* Room, Area *56, 7W'C-17N'4A*

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* Date *10/11/2012*

Licensing Basis Reviewer

Reviewed by: *Kevin Bessell* Date *10/12/2012*

Peer Reviewer

Licensing Basis (LB) Evaluation Form

LB Evaluation No.: *LB-07* 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

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* Date *10/11/2012*

Licensing Basis Reviewer

Reviewed by: *Kevin Bessell* Date *10/12/2012*

Peer Reviewer

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* Date *10/11/2012*
Licensing Basis Reviewer

Reviewed by: *Kevin Bessell* Date *10/12/2012*
Peer Reviewer

Licensing Basis (LB) Evaluation Form

LB Evaluation No.: *LB-09* Originating SWC/AWC: *AWC-6*

Equipment ID No.: *N/A* Equip. Class: *N/A*

Equipment Description: *N/A*

Location: Bldg. *AUX* Floor El. *1011'* Room, Area *56, Near 1B4A; 1B4B; 1B4C; 1A4-11; 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* Date *10/11/2012*
Licensing Basis Reviewer

Reviewed by: *Kevin Bessell* Date *10/12/2012*
Peer Reviewer

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* Date *10/11/2012*
Licensing Basis Reviewer

Reviewed by: *Kevin Bessell* Date *10/12/2012*
Peer Reviewer

Licensing Basis (LB) Evaluation Form

LB Evaluation No.: *LB-11* Originating SWC/AWC: *AWC-8*

Equipment ID No.: *N/A* Equip. Class: *N/A*

Equipment Description: *N/A*

Location: Bldg. *AUX* Floor El. *1011'* Room, Area *57, Near NI-001-DA1*

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* Date *10/11/2012*

Licensing Basis Reviewer

Reviewed by: *Kevin Bessell* Date *10/12/2012*

Peer Reviewer

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* Date *10/11/2012*

Licensing Basis Reviewer

Reviewed by: *Kevin Bessell* Date *10/12/2012*

Peer Reviewer

Licensing Basis (LB) Evaluation Form

LB Evaluation No.: *LB-13* Originating SWC/AWC: *SWC-15*

Equipment ID No.: *EE-4S* Equip. Class: *4, TRANSFORMERS*

Equipment Description: *INVERTER #1, EE-8P BYPASS TRANSFORMER*

Location: Bldg. *AUX* Floor El. *1011'* Room, Area *56, 0W'C-11N'6D*

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* Date *10/11/2012*
Licensing Basis Reviewer

Reviewed by: *Kevin Bessell* Date *10/12/2012*
Peer Reviewer

Licensing Basis (LB) Evaluation Form

LB Evaluation No.: *LB-14* Originating SWC/AWC: *SWC-50*

Equipment ID No.: *EE-8H* Equip. Class: *16, BATTERY CHARGERS AND INVERTERS*

Equipment Description: *INSTRUMENT BUS "A" INVERTER "A"*

Location: Bldg. *AUX* Floor El. *1011'* Room, Area *56, 7W'C-6N'6D*

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* Date *10/11/2012*
Licensing Basis Reviewer

Reviewed by: *Kevin Bessell* Date *10/12/2012*
Peer Reviewer

Licensing Basis (LB) Evaluation Form

LB Evaluation No.: *LB-15* Originating SWC/AWC: *AWC-6*

Equipment ID No.: *N/A* Equip. Class: *N/A*

Equipment Description: *N/A*

Location: Bldg. *AUX* Floor El. *1011'* Room, Area *56, Near 1B4A; 1B4B; 1B4C; 1A4-11; 1A4*

Condition

Rollable FME storage cart unrestrained near cabinets.

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): *2012-10425*

Prepared by: *Ryan Rymarczyk* Date *10/11/2012*
Licensing Basis Reviewer

Reviewed by: *Kevin Bessell* Date *10/12/2012*
Peer Reviewer

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* Date *10/11/2012*
Licensing Basis Reviewer

Reviewed by: *Kevin Bessell* Date *10/12/2012*
Peer Reviewer

Licensing Basis (LB) Evaluation Form

LB Evaluation No.: *LB-17* 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

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* Date *10/11/2012*
Licensing Basis Reviewer

Reviewed by: *Kevin Bessell* Date *10/12/2012*
Peer Reviewer

Licensing Basis (LB) Evaluation Form

LB Evaluation No.: *LB-18* Originating SWC/AWC: *SWC-1*

Equipment ID No.: *AC-12B* Equip. Class: *0, OTHER*

Equipment Description: *RAW WATER PUMP*

Location: Bldg. *INTAKE* Floor El. *994'* Room, Area *INTAKE, 1E'CC-1N'104*

Condition

Anchor bolts from strainer base to concrete lack thread engagement with their nuts.

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): *2012-10553*

Prepared by: *Ryan Rymarczyk* Date *10/11/2012*

Licensing Basis Reviewer

Reviewed by: *Kevin Bessell* Date *10/12/2012*

Peer Reviewer

Licensing Basis (LB) Evaluation Form

LB Evaluation No.: *LB-19* Originating SWC/AWC: *AWC-13*

Equipment ID No.: *AC-12A* Equip. Class: *0, OTHER*

Equipment Description: *Raw Water Strainer*

Location: Bldg. *INTAKE* Floor El. *994'* Room, Area *INTAKE*

Condition

Anchor bolts from strainer base to concrete lack thread engagement with their nuts.

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): *2012-10553*

Prepared by: *Ryan Rymarczyk* Date *10/11/2012*
Licensing Basis Reviewer

Reviewed by: *Kevin Bessell* Date *10/12/2012*
Peer Reviewer

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* Date *10/11/2012*

Licensing Basis Reviewer

Reviewed by: *Kevin Bessell* Date *10/12/2012*

Peer Reviewer

Licensing Basis (LB) Evaluation Form

LB Evaluation No.: *LB-21* Originating SWC/AWC: *SWC-57*

Equipment ID No.: *PI-2855-1* Equip. Class: *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*

Condition

Light bulbs could fall and damage gauge.

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): *2012-10629*

Prepared by: *Ryan Rymarczyk* Date *10/11/2012*

Licensing Basis Reviewer

Reviewed by: *Kevin Bessell* Date *10/12/2012*

Peer Reviewer

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* Date *10/11/2012*

Licensing Basis Reviewer

Reviewed by: *Kevin Bessell* Date *10/12/2012*

Peer Reviewer

Licensing Basis (LB) Evaluation Form

LB Evaluation No.: *LB-23* Originating SWC/AWC: *AWC-12*

Equipment ID No.: *N/A* Equip. Class: *N/A*

Equipment Description: *N/A*

Location: Bldg. *INTAKE* Floor El. *994'* Room, Area *Middle Basement Room, Near AC-10B; HCV-2875A; PI-2855-1*

Condition

Light bent around equipment and hung very close to small line creating seismic spatial interaction.

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): *2012-10631*

Prepared by: *Ryan Rymarczyk* Date *10/11/2012*

Licensing Basis Reviewer

Reviewed by: *Kevin Bessell* Date *10/12/2012*

Peer Reviewer

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* Date *10/11/2012*
Licensing Basis Reviewer

Reviewed by: *Kevin Bessell* Date *10/12/2012*
Peer Reviewer

Licensing Basis (LB) Evaluation Form

LB Evaluation No.: *LB-25* 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 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.

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): *2012-10676*

Prepared by: *Ryan Rymarczyk* Date *10/11/2012*
Licensing Basis Reviewer

Reviewed by: *Kevin Bessell* Date *10/12/2012*
Peer Reviewer

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* Date *10/11/2012*
Licensing Basis Reviewer

Reviewed by: *Kevin Bessell* Date *10/12/2012*
Peer Reviewer

Licensing Basis (LB) Evaluation Form

LB Evaluation No.: *LB-27* 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

Water cooler with high C.G. could move and impact SR 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): *2012-10684*

Prepared by: *Ryan Rymarczyk* Date *10/11/2012*

Licensing Basis Reviewer

Reviewed by: *Kevin Bessell* Date *10/12/2012*

Peer Reviewer

Licensing Basis (LB) Evaluation Form

LB Evaluation No.: *LB-28* Originating SWC/AWC: *SWC-92*

Equipment ID No.: *AC-5A* Equip. Class: *5, HORIZONTAL PUMPS*

Equipment Description: *SPENT FUEL POOL CIRCULATING PUMP*

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

Condition

Block wall lateral restraint is not in contact with block wall and is possibly not restraining block wall in current state.

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): *2012-10915*

Prepared by: *Ryan Rymarczyk* Date *10/11/2012*
Licensing Basis Reviewer

Reviewed by: *Kevin Bessell* Date *10/12/2012*
Peer Reviewer

Licensing Basis (LB) Evaluation Form

LB Evaluation No.: *LB-29* Originating SWC/AWC: *SWC-93*

Equipment ID No.: *AC-5B* Equip. Class: *5, HORIZONTAL PUMPS*

Equipment Description: *SPENT FUEL POOL CIRCULATING PUMP*

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

Condition

Block wall lateral restraint is not in contact with block wall and is possibly not restraining block wall in current state.

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): *2012-10915*

Prepared by: *Ryan Rymarczyk* Date *10/11/2012*

Licensing Basis Reviewer

Reviewed by: *Kevin Bessell* Date *10/12/2012*

Peer Reviewer

Licensing Basis (LB) Evaluation Form

LB Evaluation No.: *LB-30* Originating SWC/AWC: *AWC-18*

Equipment ID No.: *N/A* Equip. Class: *N/A*

Equipment Description: *N/A*

Location: Bldg. *AUX* Floor El. *989'* Room, Area *5, Near AC-5A; AC-5B; HCV-478; AC-8*

Condition

Block wall lateral restraint is not in contact with block wall and is possibly not restraining block wall in current state.

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): *2012-10915*

Prepared by: *Ryan Rymarczyk* Date *10/11/2012*
Licensing Basis Reviewer

Reviewed by: *Kevin Bessell* Date *10/12/2012*
Peer Reviewer

Licensing Basis (LB) Evaluation Form

LB Evaluation No.: *LB-31* 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

Cart on wheels with tools and chemical cleaners on it could roll and strike safety related 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): *2012-10916*

Prepared by: *Ryan Rymarczyk* Date *10/11/2012*
Licensing Basis Reviewer

Reviewed by: *Kevin Bessell* Date *10/12/2012*
Peer Reviewer

Licensing Basis (LB) Evaluation Form

LB Evaluation No.: *LB-32* Originating SWC/AWC: *AWC-20*

Equipment ID No.: *N/A* Equip. Class: *N/A*

Equipment Description: *N/A*

Location: Bldg. *AUX* Floor El. *989'* Room, Area *4, Near AC-1A; HCV-484; HCV-497; HCV-489B*

Condition

Chain from trolley above AC-1A is not securely tied down, therefore it could possibly strike safety related equipment during seismic event.

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): *2012-10917*

Prepared by: *Ryan Rymarczyk* Date *10/11/2012*
Licensing Basis Reviewer

Reviewed by: *Kevin Bessell* Date *10/12/2012*
Peer Reviewer

Licensing Basis (LB) Evaluation Form

LB Evaluation No.: *LB-33* 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

Concrete pitting near support.

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): *2012-10919*

Prepared by: *Ryan Rymarczyk* Date *10/11/2012*

Licensing Basis Reviewer

Reviewed by: *Kevin Bessell* Date *10/12/2012*

Peer Reviewer

Licensing Basis (LB) Evaluation Form

LB Evaluation No.: *LB-34* Originating SWC/AWC: *SWC-60*

Equipment ID No.: *AC-4B* Equip. Class: *21, TANKS AND HEAT EXCHANGERS*

Equipment Description: *SHUTDOWN COOLING HEAT EXCHANGER*

Location: Bldg. *AUX* Floor El. *994'* Room, Area *15, 13W'E-17S'7A*

Condition

Missing chunks of concrete around anchors and anchors possibly cut negating capabilities of anchorage.

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): *2012-11039*

Prepared by: *Ryan Rymarczyk* Date *10/11/2012*

Licensing Basis Reviewer

Reviewed by: *Kevin Bessell* Date *10/12/2012*

Peer Reviewer

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* Date *10/11/2012*
Licensing Basis Reviewer

Reviewed by: *Kevin Bessell* Date *10/12/2012*
Peer Reviewer

Licensing Basis (LB) Evaluation Form

LB Evaluation No.: *LB-36* Originating SWC/AWC: *AWC-29*

Equipment ID No.: *N/A* Equip. Class: *N/A*

Equipment Description: *N/A*

Location: Bldg. *AUX* Floor El. *971'* Room, Area *21, Near HCV-2917; HCV-2918; HCV-2947; HCV-2948; HCV-305*

Condition

Missing bolt on pipe support for line SI-1A.

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): *2012-11277*

Prepared by: *Ryan Rymarczyk* Date *10/11/2012*

Licensing Basis Reviewer

Reviewed by: *Kevin Bessell* Date *10/12/2012*

Peer Reviewer

Licensing Basis (LB) Evaluation Form

LB Evaluation No.: *LB-37* Originating SWC/AWC: *AWC-30*

Equipment ID No.: *P/B-249C* Equip. Class: *N/A*

Equipment Description: *N/A*

Location: Bldg. *CONT* Floor El. *994'* Room, Area *Cont., Near B/LT-911; B/PT-913*

Condition

Anchor bolts on the baseplate for support posts are severely corroded and need to be replaced.

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): *2012-11879*

Prepared by: *Ryan Rymarczyk* Date *10/11/2012*

Licensing Basis Reviewer

Reviewed by: *Kevin Bessell* Date *10/12/2012*

Peer Reviewer

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* Date *10/11/2012*
Licensing Basis Reviewer

Reviewed by: *Kevin Bessell* Date *10/12/2012*
Peer Reviewer

Licensing Basis (LB) Evaluation Form

LB Evaluation No.: *LB-39* Originating SWC/AWC: *AWC-30*

Equipment ID No.: *A/LT-911* Equip. Class: *18, INSTRUMENT RACKS*

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

Location: Bldg. *CONT* Floor El. *1013'* Room, Area *Cont., Near B/LT-911; B/PT-913*

Condition

Hanging light from a flexible rod poses a seismic interaction concern 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): *2012-11973*

Prepared by: *Ryan Rymarczyk* Date *10/11/2012*

Licensing Basis Reviewer

Reviewed by: *Kevin Bessell* Date *10/12/2012*

Peer Reviewer

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* Date *10/11/2012*
Licensing Basis Reviewer

Reviewed by: *Kevin Bessell* Date *10/12/2012*
Peer Reviewer

Licensing Basis (LB) Evaluation Form

LB Evaluation No.: *LB-41* 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

Substance was found accumulated in the base of FW-10 that could potentially be oil and a 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): *2012-12400*

Prepared by: *Ryan Rymarczyk* Date *10/11/2012*

Licensing Basis Reviewer

Reviewed by: *Kevin Bessell* Date *10/12/2012*

Peer Reviewer

Licensing Basis (LB) Evaluation Form

LB Evaluation No.: *LB-42* Originating SWC/AWC: *AWC-20*

Equipment ID No.: *N/A* Equip. Class: *N/A*

Equipment Description: *N/A*

Location: Bldg. *AUX* Floor El. *989'* Room, Area *4, Near AC-1A; HCV-484; HCV-497; HCV-489B*

Condition

Spatial interaction observed between pipe and column near AC-1A and HCV-489A.

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): *2012-12404*

Prepared by: *Ryan Rymarczyk* Date *10/11/2012*
Licensing Basis Reviewer

Reviewed by: *Kevin Bessell* Date *10/12/2012*
Peer Reviewer

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* Date *10/11/2012*
Licensing Basis Reviewer

Reviewed by: *Kevin Bessell* Date *10/12/2012*
Peer Reviewer

Licensing Basis (LB) Evaluation Form

LB Evaluation No.: *LB-44* Originating SWC/AWC: *AWC-18*

Equipment ID No.: *JB1301A* Equip. Class: *N/A*

Equipment Description: *N/A*

Location: Bldg. *AUX* Floor El. *989'* Room, Area *5, Near AC-5A; AC-5B; HCV-478; AC-8*

Condition

Spatial interaction observed between pipe and junction box JB1301A.

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): *2012-12402*

Prepared by: *Ryan Rymarczyk* Date *10/11/2012*

Licensing Basis Reviewer

Reviewed by: *Kevin Bessell* Date *10/12/2012*

Peer Reviewer

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* Date *10/11/2012*

Licensing Basis Reviewer

Reviewed by: *Kevin Bessell* Date *10/12/2012*

Peer Reviewer

Licensing Basis (LB) Evaluation Form

LB Evaluation No.: *LB-46* Originating SWC/AWC: *AWC-27*

Equipment ID No.: *N/A* Equip. Class: *N/A*

Equipment Description: *N/A*

Location: Bldg. *AUX* Floor El. *1007'* Room, Area *26, Near CH-115; CH-143; CH-4A*

Condition

Bent hanger rod supporting line.

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): *2012-12405*

Prepared by: *Ryan Rymarczyk* Date *10/11/2012*

Licensing Basis Reviewer

Reviewed by: *Kevin Bessell* Date *10/12/2012*

Peer Reviewer

Licensing Basis (LB) Evaluation Form

LB Evaluation No.: *LB-47* Originating SWC/AWC: *SWC-48*

Equipment ID No.: *EE-8A* Equip. Class: *15, BATTERY RACKS*

Equipment Description: *125 VDC STATION BATTERY NO. 1*

Location: Bldg. *AUX* Floor El. *1012'* Room, Area *54, 9W'C-15N'7B*

Condition

Missing plant documentation during the walkdown to verify anchorage configuration.

Documents Reviewed

D-4691 (File#41592)

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* Date *10/11/2012*

Licensing Basis Reviewer

Reviewed by: *Kevin Bessell* Date *10/12/2012*

Peer Reviewer

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* Date *10/11/2012*

Licensing Basis Reviewer

Reviewed by: *Kevin Bessell* Date *10/12/2012*

Peer Reviewer

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* Date *10/11/2012*
Licensing Basis Reviewer

Reviewed by: *Kevin Bessell* Date *10/12/2012*
Peer Reviewer

Licensing Basis (LB) Evaluation Form

LB Evaluation No.: *LB-50* Originating SWC/AWC: *SWC-15*

Equipment ID No.: *EE-4S* Equip. Class: *4, TRANSFORMERS*

Equipment Description: *INVERTER #1, EE-8P BYPASS TRANSFORMER*

Location: Bldg. *AUX* Floor El. *1011'* Room, Area *56, 0W'C-11N'6D*

Condition

Missing plant documentation during the walkdown to verify anchorage configuration.

Documents Reviewed

SEWS EE-4S, page 4 of 11

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* Date *10/11/2012*

Licensing Basis Reviewer

Reviewed by: *Kevin Bessell* Date *10/12/2012*

Peer Reviewer

Licensing Basis (LB) Evaluation Form

LB Evaluation No.: *LB-51* Originating SWC/AWC: *SWC-50*

Equipment ID No.: *EE-8H* Equip. Class: *16, BATTERY CHARGERS AND INVERTERS*

Equipment Description: *INSTRUMENT BUS "A" INVERTER "A"*

Location: Bldg. *AUX* Floor El. *1011'* Room, Area *56, 7W'C-6N'6D*

Condition

Missing plant documentation during the walkdown to verify anchorage configuration.

Documents Reviewed

SEWS EE-8H, page 4 of 5

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* Date *10/11/2012*

Licensing Basis Reviewer

Reviewed by: *Kevin Bessell* Date *10/12/2012*

Peer Reviewer

Licensing Basis (LB) Evaluation Form

LB Evaluation No.: *LB-52* Originating SWC/AWC: *SWC-57*

Equipment ID No.: *PI-2855-1* Equip. Class: *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*

Condition

Missing plant documentation during the walkdown to verify anchorage configuration.

Documents Reviewed

FC06072, Rev. 0

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* Date *10/11/2012*

Licensing Basis Reviewer

Reviewed by: *Kevin Bessell* Date *10/12/2012*

Peer Reviewer

Licensing Basis (LB) Evaluation Form

LB Evaluation No.: *LB-53* Originating SWC/AWC: *AWC-12*

Equipment ID No.: *N/A* Equip. Class: *N/A*

Equipment Description: *N/A*

Location: Bldg. *INTAKE* Floor El. *994'* Room, Area *Middle Basement Room, Near AC-10B; HCV-2875A; PI-2855-1*

Condition

Wooden stairs possibly extra transient fire load to building. Work is being staged for WO 370448-01.

Documents Reviewed

N/A - Refer to WO 370448-01.

Licensing Basis

N/A - Refer to WO 370448-01.

Evaluation

N/A - Refer to WO 370448-01.

Conclusion Condition Meets the Licensing Basis: ☒ Yes ☐ No

CR# (If applicable): *N/A*

Prepared by: *Ryan Rymarczyk* Date *10/11/2012*

Licensing Basis Reviewer

Reviewed by: *Kevin Bessell* Date *10/12/2012*

Peer Reviewer

Licensing Basis (LB) Evaluation Form

LB Evaluation No.: *LB-54* Originating SWC/AWC: *AWC-13*

Equipment ID No.: *N/A* Equip. Class: *N/A*

Equipment Description: *N/A*

Location: Bldg. *INTAKE* Floor El. *994'* Room, Area *South Basement Room, Near HCV-2874A*

Condition

Wooden stairs possibly extra transient fire load to building. Work is being staged for WO 370448-01.

Documents Reviewed

N/A - Refer to WO 370448-01.

Licensing Basis

N/A - Refer to WO 370448-01.

Evaluation

N/A - Refer to WO 370448-01.

Conclusion Condition Meets the Licensing Basis: ☒ Yes ☐ No

CR# (If applicable): *N/A*

Prepared by: *Ryan Rymarczyk* Date *10/11/2012*
Licensing Basis Reviewer

Reviewed by: *Kevin Bessell* Date *10/12/2012*
Peer Reviewer

Licensing Basis (LB) Evaluation Form

LB Evaluation No.: *LB-55* Originating SWC/AWC: *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*

Condition

Missing plant documentation during the walkdown to verify anchorage configuration.

Documents Reviewed

D-4758, Sh. 3

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* Date *10/11/2012*

Licensing Basis Reviewer

Reviewed by: *Kevin Bessell* Date *10/12/2012*

Peer Reviewer

Licensing Basis (LB) Evaluation Form

LB Evaluation No.: *LB-56* Originating SWC/AWC: *SWC-40*

Equipment ID No.: *HCV-1107B* Equip. Class: *7, PNEUMATIC-OPERATED VALVES*

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

Location: Bldg. *AUX* Floor El. *1038'* Room, Area *81, 0W'H-4N'3A*

Condition

Missing plant documentation during the walkdown to verify anchorage configuration.

Documents Reviewed

D-4238 Sh. 7 (File#22298), A-4554 (File#37257), 6340 Sh. 1 (File#27608), 6340 Sh. 2 (File#27609), 6340 Sh. 4 (File#27611).

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

HCV-1107B is supported by FWH-224 and FWS-116 per D-4238 Sh.7 (File#22298). The field sketch of the anchorage provided for verification of configuration matches the documents identified above. Support FWH-224 has been verified under drawing A-4554 and FWS-116 has been verified under drawings 6340 Shts. 1, 2 and 4. The sketch contained in SWC-40 indicates 3/8" diameter bolts, however, 1/2" diameter bolts are indicated in the design drawings. The measurement is within 1/3" tolerance and the measurement in the field is judged to be in error, therefore configuration is acceptable.

Conclusion Condition Meets the Licensing Basis: ☒ Yes ☐ No

CR# (If applicable): *N/A*

Prepared by: *Ryan Rymarczyk* Date *10/23/2012*

Licensing Basis Reviewer

Reviewed by: *Kevin Bessell* Date *10/23/2012*

Peer Reviewer

Licensing Basis (LB) Evaluation Form

LB Evaluation No.: *LB-57* Originating SWC/AWC: *SWC-92*

Equipment ID No.: *AC-5A* Equip. Class: *5, HORIZONTAL PUMPS*

Equipment Description: *SPENT FUEL POOL CIRCULATING PUMP*

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

Condition

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.

Documents Reviewed

789A701 SH.2 (File#10331)

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

Although the vendor configuration recommends one condition, the as-installed condition matches what is provided in the plant design basis document referenced above, therefore the equipment is in conformance with the current licensing basis.

Conclusion Condition Meets the Licensing Basis: ☒ Yes ☐ No

CR# (If applicable): *N/A*

Prepared by: *Ryan Rymarczyk* Date *10/11/2012*

Licensing Basis Reviewer

Reviewed by: *Kevin Bessell* Date *10/12/2012*

Peer Reviewer

Licensing Basis (LB) Evaluation Form

LB Evaluation No.: *LB-58* Originating SWC/AWC: *SWC-93*

Equipment ID No.: *AC-5B* Equip. Class: *5*

Equipment Description: *SPENT FUEL POOL CIRCULATING PUMP*

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

Condition

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.

Documents Reviewed

789A701 SH.2 (File#10331)

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

Although the vendor configuration recommends one condition, the as-installed condition matches what is provided in the plant design basis document referenced above, therefore the equipment is in conformance with the current licensing basis.

Conclusion Condition Meets the Licensing Basis: ☒ Yes ☐ No

CR# (If applicable): *N/A*

Prepared by: *Ryan Rymarczyk* Date *10/11/2012*

Licensing Basis Reviewer

Reviewed by: *Kevin Bessell* Date *10/12/2012*

Peer Reviewer

Licensing Basis (LB) Evaluation Form

LB Evaluation No.: *LB-59* Originating SWC/AWC: *SWC-37*

Equipment ID No.: *LCV-218-3* Equip. Class: *7, PNEUMATIC-OPERATED VALVES*

Equipment Description: *CHRG PUMPS CH-1A,B&C SUCT HDR SAFETY INJ & BORIC ACID SUPPLY VLV*

Location: Bldg. *AUX* Floor El. *992'* Room, Area *7, 45W'T-2N'7B*

Condition

Missing plant documentation during the walkdown to verify anchorage configuration.

Documents Reviewed

SEWS LCV-218-3, page 5; Dwg 6439 SH.1-6 (File#'s 27031-27036).

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* Date *10/11/2012*
Licensing Basis Reviewer

Reviewed by: *Kevin Bessell* Date *10/12/2012*
Peer Reviewer

Licensing Basis (LB) Evaluation Form

LB Evaluation No.: *LB-60* Originating SWC/AWC: *SWC-60*

Equipment ID No.: *AC-4B* Equip. Class: *21, TANKS AND HEAT EXCHANGERS*

Equipment Description: *SHUTDOWN COOLING HEAT EXCHANGER*

Location: Bldg. *AUX* Floor El. *994'* Room, Area *15, 13W'E-17S'7A*

Condition

Missing plant documentation during the walkdown to verify anchorage configuration.

Documents Reviewed

11405-S-70 (File#16455)

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* Date *10/11/2012*

Licensing Basis Reviewer

Reviewed by: *Kevin Bessell* Date *10/12/2012*

Peer Reviewer

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* Date *10/11/2012*

Licensing Basis Reviewer

Reviewed by: *Kevin Bessell* Date *10/12/2012*

Peer Reviewer

Licensing Basis (LB) Evaluation Form

LB Evaluation No.: *LB-62* Originating SWC/AWC: *SWC-69*

Equipment ID No.: *C/LT-911* Equip. Class: *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'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* Date *10/11/2012*

Licensing Basis Reviewer

Reviewed by: *Kevin Bessell* Date *10/12/2012*

Peer Reviewer

Licensing Basis (LB) Evaluation Form

LB Evaluation No.: *LB-63* Originating SWC/AWC: *SWC-84*

Equipment ID No.: *HCV-2947* Equip. Class: *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*

Condition

Missing plant documentation during the walkdown to verify anchorage configuration.

Documents Reviewed

6865 SH. 1-9 (File#'s 27754-27762)

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* Date *10/11/2012*

Licensing Basis Reviewer

Reviewed by: *Kevin Bessell* Date *10/12/2012*

Peer Reviewer

Licensing Basis (LB) Evaluation Form

LB Evaluation No.: *LB-64* Originating SWC/AWC: *SWC-86*

Equipment ID No.: *HCV- 305* Equip. Class: *7, PNEUMATIC-OPERATED VALVES*

Equipment Description: *HPSI Pump SI-2A & C Discharge Cross Connect Valve*

Location: Bldg. *AUX* Floor El. *971'* Room, Area *21, 39W'T-16N'6E*

Condition

Missing plant documentation during the walkdown to verify anchorage configuration.

Documents Reviewed

6140 SH. 1 - 13 (File#'s 30417-30429), A-4338 SH. 1 - 3 (File#'s 36961-36963)

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* Date *10/11/2012*

Licensing Basis Reviewer

Reviewed by: *Kevin Bessell* Date *10/12/2012*

Peer Reviewer

Licensing Basis (LB) Evaluation Form

LB Evaluation No.: *LB-65* Originating SWC/AWC: *SWC-85*

Equipment ID No.: *HCV-2948* Equip. Class: *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*

Condition

Missing plant documentation during the walkdown to verify anchorage configuration.

Documents Reviewed

6259 SH. 1 - 11 (File#'s 27763 - 27773)

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* Date *10/11/2012*
Licensing Basis Reviewer

Reviewed by: *Kevin Bessell* Date *10/12/2012*
Peer Reviewer

Licensing Basis (LB) Evaluation Form

LB Evaluation No.: *LB-66* Originating SWC/AWC: *SWC-83*

Equipment ID No.: *HCV-2918* Equip. Class: *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*

Condition

Missing plant documentation during the walkdown to verify anchorage configuration.

Documents Reviewed

6262 SH. 1 - 10 (File#'s 27681 - 27690)

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* Date *10/11/2012*
Licensing Basis Reviewer

Reviewed by: *Kevin Bessell* Date *10/12/2012*
Peer Reviewer

Licensing Basis (LB) Evaluation Form

LB Evaluation No.: *LB-67* Originating SWC/AWC: *SWC-52*

Equipment ID No.: *FT-1368* Equip. Class: *18, INSTRUMENT RACKS*

Equipment Description: *MOTOR-DRIVEN AUX FEED PUMP FW-6 SUCTION FLOW TRANSMITTER*

Location: Bldg. *AUX* Floor El. *993'* Room, Area *19, 1W'C-4S'4A*

Condition

Configuration differs from vendor configuration (bracket flipped). Drawing points to other installed drawing and needs follow up review.

Documents Reviewed

3143K10-058, Sh. 1 (File# 9906)

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

Note 1 in the drawing referenced above indicates that the component may also be clamped to a horizontal pipe which is what is provided in the as-installed condition, therefore meeting the design basis document.

Conclusion Condition Meets the Licensing Basis: ☒ Yes ☐ No

CR# (If applicable): *N/A*

Prepared by: *Ryan Rymarczyk* Date *10/11/2012*
Licensing Basis Reviewer

Reviewed by: *Kevin Bessell* Date *10/12/2012*
Peer Reviewer

Licensing Basis (LB) Evaluation Form

LB Evaluation No.: *LB-68* Originating SWC/AWC: *SWC-13*

Equipment ID No.: *1A3* Equip. Class: *3, MEDIUM VOLTAGE, METAL-CLAD SWITCHGEAR*

Equipment Description: *4.16KV BUS (EE-4C)*

Location: Bldg. *AUX* Floor El. *1016'* Room, Area *56, 11W'C-18N'1A*

Condition

There are wood cribbing blocks inside cubicles 1A3-6, 7, 9, 13, 14, 15 and 16. This material is combustible.

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): *CR 2013-00522*

Prepared by: *Kevin Bessell* Date *4/12/2013*
Licensing Basis Reviewer

Reviewed by: *Laura Maclay* Date *4/17/2013*
Peer Reviewer

Licensing Basis (LB) Evaluation Form

LB Evaluation No.: *LB-69* Originating SWC/AWC: *SWC-13*

Equipment ID No.: *1A3* Equip. Class: *3, MEDIUM VOLTAGE, METAL-CLAD SWITCHGEAR*

Equipment Description: *4.16KV BUS (EE-4C)*

Location: Bldg. *AUX* Floor El. *1016'* Room, Area *56, 11W'C-18N'1A*

Condition

Cubicle 1A3-4 contains a steel plate that separates the interior of the cabinet. This plate appears to be missing a bolt. This is not a structural concern since this plate does not provide structural resistance of the cabinet and there are additional bolts that keep the plate in place.

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): *CR 2013-08401*

Prepared by: *Kevin Bessell* Date *4/12/2013*
Licensing Basis Reviewer

Reviewed by: *Laura Maclay* Date *4/17/2013*
Peer Reviewer

Licensing Basis (LB) Evaluation Form

LB Evaluation No.: *LB-70* Originating SWC/AWC: *SWC-9*

Equipment ID No.: *1B4A* Equip. Class: *2, LOW VOLTAGE SWITCHGEAR AND BREAKER PANELS*

Equipment Description: *480 VOLT BUS 1B4A (EE-4G)*

Location: Bldg. *AUX* Floor El. *1011'* Room, Area *56, 10E'D-15S'6D*

Condition

Interconnecting bolts were missing which connect panels on 1B4A with 69/1B4A. It appears as if the bolts were there once. There are 3 bolts one side and 4 the other side remaining, and the stability and connection is judged to be adequate.

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): *CR 2013-07194*

Prepared by: *Kevin Bessell* Date *4/12/2013*
Licensing Basis Reviewer

Reviewed by: *Laura Maclay* Date *4/17/2013*
Peer Reviewer

SQUG

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

EPRI
Electric Power
Research Institute

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

EPRI | ELECTRIC POWER RESEARCH INSTITUTE

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

EPRI | ELECTRIC POWER RESEARCH INSTITUTE

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

SQUG

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

Neil P. Smith, Commonwealth Edison
SQUG Chairman

David A. Freed, MPR Associates
SQUG Training Coordinator

Robert P. Kassawara, EPRI
SQUG Program Manager

SQUG

CERTIFICATE OF ACHIEVEMENT

THIS IS TO CERTIFY THAT

Ashwin R. 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 R. Patel

HAS COMPLETED THE SQUG NEW AND REPLACEMENT EQUIPMENT AND PARTS (NARE) TRAINING COURSE HELD DECEMBER 6 & 7, 2001

Patrick J. Butler, MPR Associates

Paul D. Baughman, EQE International

R.P. Kassawara

Dr. Robert P. Kassawara, EPRI

SQUG

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

Lawrence Livermore National Laboratory

LLNL HAZARDS MITIGATION CENTER

May 3, 2000

Mr. James A. Carlson
Nuclear Power Engineer
Omaha Public Power District
Fort Calhoun Station
Omaha, Nebraska

To Whom It May Concern:

This letter is to certify that Jim Carlson attended and passed the Department of Energy (DOE) Seismic Evaluation Procedure Training Course given in Pleasanton California in March 1994. This was a five day course which presented material unique to the Seismic Evaluation of a DOE Facility. Much of the material presented was based on SQUG training material given to engineers conducting seismic evaluation of commercial nuclear power plants. Instructors from the SQUG Training Courses also participated in the DOE Training. The training consisted of classroom lectures, homework, graded quizzes and a Field Walk Down Exercise.

Completion of this course certified JIM CARLSON as a Seismic Capability Engineer.

If you have any questions or need additional information, please contact me at (925) 422-0308 or by email at murray6@llnl.gov.

Very truly yours,

Robert C. Murray
Co-Director
LLNL Hazards Mitigation Center

HMC00-06:RCM:ala

Recycle
7600-61230

Status of Condition Reports Listed in Attachment 11.4 of EA12-021 Rev. 0 and Rev. 1

Condition Report	Operability Determination	Resolution Status as of 6/24/13	CR Status as of 6/24/13
CR 2012-10195	Operable	Resolved	Closed
CR 2012-10198	Operable	Resolved	Closed
CR 2012-10367	Operable	Resolved	Closed
CR 2012-10368	Operable	Resolved	Closed
CR 2012-10369	Operable	Resolved	Closed
CR 2012-10423	Operable	Resolved	Closed
CR 2012-10425	Operable	Resolved	Awaiting Closure
CR 2012-10427	Operable	Resolved	Closed
CR 2012-10553	Operable	Resolution Proposed	Open
CR 2012-10628	Operable	Resolved	Closed
CR 2012-10629	Operable	Resolved	Closed
CR 2012-10630	Operable	Resolved	Closed
CR 2012-10631	Operable	Resolved	Closed
CR 2012-10672	Operable	Resolved	Closed
CR 2012-10676	Operable	Resolved	Closed
CR 2012-10684	Operable	Resolved	Open
CR 2012-10915	Operable	Resolved	Closed
CR 2012-10916	Operable	Resolved	Closed
CR 2012-10917	Operable	Resolved	Awaiting Closure
CR 2012-10919	Operable	Resolution Proposed	Open
CR 2012-11039	Operable	Resolved	Closed
CR 2012-11041	Operable	Resolved	Awaiting Closure
CR 2012-11277	Operable	Resolution Proposed	Open
CR 2012-11879	Operable	Resolved	Awaiting Closure
CR 2012-11880	Operable	Resolution Proposed	Open
CR 2012-11973	Operable	Resolved	Closed
CR 2012-12399	Operable	Resolved	Closed
CR 2012-12400	Operable	Resolution Proposed	Open
CR 2012-12401	Operable	Resolved	Closed
CR 2012-12402	Operable	Resolved	Closed
CR 2012-12403	Operable	Resolved	Closed
CR 2012-12404	Operable	Resolved	Closed
CR 2012-12405	Operable	Resolved	Closed
CR 2013-00522	Operable	Resolved	Closed
CR 2013-07194	Operable	Resolution Proposed	Open
CR 2013-08401	Operable	Resolved	Awaiting Closure