Attachment C

Seismic Walkdown Checklists (SWCs)

Sheet 1 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-001

Equipment ID No. MS MVAAA106-A Equip. Class[1] Other

-OR- 2MS-R613A

Equipment Description Main Steam Line 1 Safety #1

Location: Bldg. RB Floor El. +46 Room, Area Room R1, Col 3A, Line M

Manufacturer, Model, Etc. (optional but recommended) Crosby 8T12x12 HA-75

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 component

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☒ N☐ U☐ N/A☐
   - In-line component
   - Visible hardware on valve outlet is accounted for and in good condition. Covered hardware on valve inlet is considered acceptable based on this visible hardware.

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☒ N☐ U☐ N/A☐
   - In-line component
   - Mild corrosion on visible hardware, covered hardware on valve inlet is considered acceptable based on this visible hardware; no seismic concern

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☐ N☐ U☐ N/A☒
   - In-line component

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

Sheet 2 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-001

Equipment ID No. MS MVAAA106-A Equip. Class Other

-OR- 2MS-R613A

Equipment Description Main Steam Line 1 Safety #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☒
   - In-line component

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

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☐

Sheet 3 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-001

Equipment ID No. MS MVAAA106-A Equip. Class Other

-OR- 2MS-R613A

Equipment Description Main Steam Line 1 Safety #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)

- Mild corrosion on valve; no seismic concern; CR-WF3-2012-05230 and WR-287229 initiated for this condition.
- For area walk-by checklist see AWC-042

Evaluated by: Natalie George Date: 10/5/12

Chu-Chieh Lin 10/5/12

Sheet 4 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-001

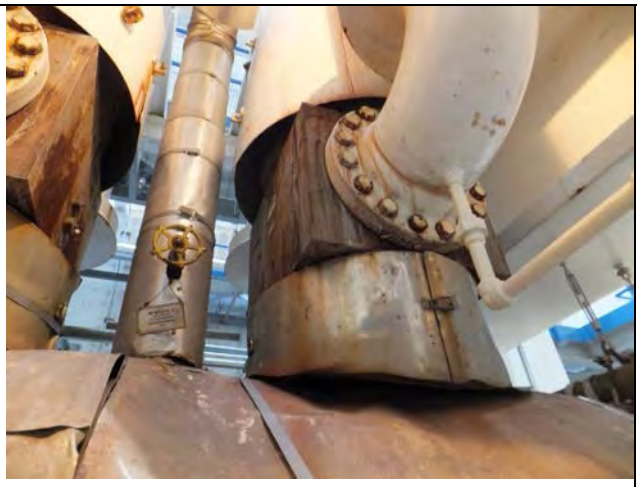
Equipment ID No. MS MVAAA106-A Equip. Class Other

-OR- 2MS-R613A

Equipment Description Main Steam Line 1 Safety #1

Photographs

Note: Mild corrosion on protective hood and cap



Note: Mild corrosion on bolts at outlet

Sheet 1 of 4

Status: Y☐ N☒ U☐

Seismic Walkdown Checklist (SWC) SWEL1-002

Equipment ID No. SSDEMCC311B Equip. Class[1] Motor Control Centers and Wall-Mounted Contactors

Equipment Description Reactor Trip Switchgear Breaker TCB-2 Compartment 2C

Location: Bldg. RAB Floor El. +21 Room, Area Room 212, Col. 8A, Line K

Manufacturer, Model, Etc. (optional but recommended) General Electric, Co., AK2-25-2

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.

Sheet 2 of 4

Status: Y☐ N☒ U☐

Seismic Walkdown Checklist (SWC) SWEL1-002

Equipment ID No. SSDEMCC311B Equip. Class Motor Control Centers and Wall-Mounted Contactors

Equipment Description Reactor Trip Switchgear Breaker TCB-2 Compartment 2C

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☐

Sheet 3 of 4

Status: Y☐ N☒ U☐

Seismic Walkdown Checklist (SWC) SWEL1-002

Equipment ID No. SSDEMCC311B Equip. Class Motor Control Centers and Wall-Mounted Contactors

Equipment Description Reactor Trip Switchgear Breaker TCB-2 Compartment 2C

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: _____ Date: _____

Sheet 4 of 4

Status: Y☐ N☒ U☐

Seismic Walkdown Checklist (SWC) SWEL1-002

Equipment ID No. SSDEMCC311B Equip. Class Motor Control Centers and Wall-Mounted Contactors

Equipment Description Reactor Trip Switchgear Breaker TCB-2 Compartment 2C

Photographs

Note:		**Note:**

Sheet 1 of 5

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-003

Equipment ID No. SSDEMCC315B Equip. Class[1] Motor Control Centers and Wall-Mounted Contactors

-OR- MCC-3B315S

Equipment Description MOTOR CONTROL CENTER 315B

Location: Bldg. CTB Floor El. -35 Room, Area Room B59A, Col. 12A, Line R

Manufacturer, Model, Etc. (optional but recommended) Rowan Controller Company, 5640V4A82111102000

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☒
   - Anchorage on back side of MCC is not accessible, so this cannot be a part of the 50% verification.

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☒ N☐ U☐ N/A☐
   - All accessible anchorage is free of bent, broken, missing, or loose hardware. Anchorage on back side of MCC is not accessible. Based on the condition of the anchorage on the front of the MCC, the anchorage on the back is considered to be acceptable. Also, the anchorage was verified to be acceptable during IPEEE walkdown.

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☒ N☐ U☐ N/A☐
   - Mild surface corrosion of anchor bolts. Not a seismic concern.

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☒ N☐ U☐ N/A☐
   - No visible cracks near the anchors on the front side of the MCC.

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

Sheet 2 of 5

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-003

Equipment ID No. SSDEMCC315B Equip. Class Motor Control Centers and Wall-Mounted Contactors

-OR- MCC-3B315S

Equipment Description MOTOR CONTROL CENTER 315B

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☒
   - Item is not one of the 50% of SWEL items requiring verification

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☒ N☐ U☐
   - Questions 2-4 satisfied; no seismic concern

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☐
   - Conduit is rigidly attached to equipment. This is acceptable per drawing no. B288, S19-1.

10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y☒ N☐ U☐
    - Questions 7-9 satisfied.

Sheet 3 of 5

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-003

Equipment ID No. SSDEMCC315B Equip. Class Motor Control Centers and Wall-Mounted Contactors

-OR- MCC-3B315S

Equipment Description MOTOR CONTROL CENTER 315B

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☐
    - A light switch located inside the weather enclosure is not secured. It is attached at the top, but has the potential to swing or break off and hit the MCC during a seismic event. See photo.

Comments (Additional pages may be added as necessary)

- Mild surface corrosion on weather enclosure; no seismic concern
- On corner of MCC weather enclosure, the top angle is split and coming apart. Not a seismic concern.
- CR-WF3-2012-04931 initiated to address mild surface corrosion on weather enclosure
- CR-WF3-2012-05743 initiated to address unsecured light switch inside weather enclosure
- For area walk-by checklist see AWC-014

Evaluated by: Brian Pace Date: 10/15/2012

Dinesh Patel 10/15/2012

Sheet 4 of 5

Status: Y☒ N☐ U☐

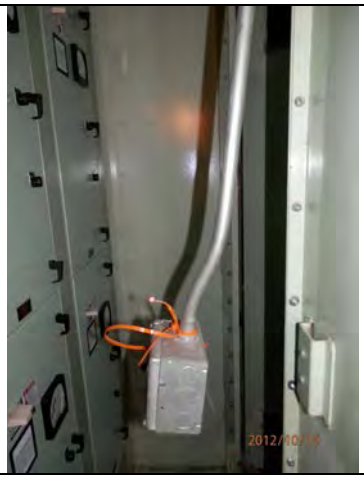
Seismic Walkdown Checklist (SWC) SWEL1-003

Equipment ID No. SSDEMCC315B Equip. Class Motor Control Centers and Wall-Mounted Contactors

-OR- MCC-3B315S

Equipment Description MOTOR CONTROL CENTER 315B

Photographs



Note: Light switch not attached at bottom. Potential seismic concern.

Note: Anchorage mild surface corrosion

Note: Mild surface corrosion on weather enclosure.

Note: Anchorage mild surface corrosion

Sheet 5 of 5

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-003

Equipment ID No. SSDEMCC315B Equip. Class Motor Control Centers and Wall-Mounted Contactors

-OR- MCC-3B315S

Equipment Description MOTOR CONTROL CENTER 315B

Photographs

Note: On corner of MCC weather enclosure, the top angle is split and coming apart

Sheet 1 of 4

Status: Y☐ N☒ U☐

Seismic Walkdown Checklist (SWC) SWEL1-004

Equipment ID No. CEDEBKR3918-B Equip. Class[1] Low Voltage Switchgears and Breaker Panels

Equipment Description REACTOR TRIP SWGR BREAKER TCB-2 COMPARMENT 2C

Location: Bldg. RAB Floor El. +21 Room, Area Room 212, Col. 8A, Line K

Manufacturer, Model, Etc. (optional but recommended) General Electric Co., AK2-25-2

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.

Sheet 2 of 4

Status: Y☐ N☒ U☐

Seismic Walkdown Checklist (SWC) SWEL1-004

Equipment ID No. CEDEBKR3918-B Equip. Class Low Voltage Switchgears and Breaker Panels

Equipment Description REACTOR TRIP SWGR BREAKER TCB-2 COMPARMENT 2C

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☐

Sheet 3 of 4

Status: Y☐ N☒ U☐

Seismic Walkdown Checklist (SWC) SWEL1-004

Equipment ID No. CEDEBKR3918-B Equip. Class Low Voltage Switchgears and Breaker Panels

Equipment Description REACTOR TRIP SWGR BREAKER TCB-2 COMPARMENT 2C

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: _____ Date: _____

Sheet 4 of 4

Status: Y☐ N☒ U☐

Seismic Walkdown Checklist (SWC) SWEL1-004

Equipment ID No. CEDEBKR3918-B Equip. Class Low Voltage Switchgears and Breaker Panels

Equipment Description REACTOR TRIP SWGR BREAKER TCB-2 COMPARMENT 2C

Photographs

Note:		**Note:**

Sheet 1 of 4

Status: Y☐ N☒ U☐

Seismic Walkdown Checklist (SWC) SWEL1-005

Equipment ID No. SSDESWGR31AB Equip. Class[1] Low Voltage Switchgear and Breaker Panels

-OR- SWGR-3AB31S)

Equipment Description Switchgear 31AB

Location: Bldg. RAB Floor El. +21 Room, Area Room 212B, Col. 11A-J

Manufacturer, Model, Etc. (optional but recommended) General Electric Co., AKD6

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.

Sheet 2 of 4

Status: Y☐ N☒ U☐

Seismic Walkdown Checklist (SWC) SWEL1-005

Equipment ID No. SSDESWGR31AB Equip. Class Low Voltage Switchgear and Breaker Panels

-OR- SWGR-3AB31S)

Equipment Description Switchgear 31AB

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☐

Sheet 3 of 4

Status: Y☐ N☒ U☐

Seismic Walkdown Checklist (SWC) SWEL1-005

Equipment ID No. SSDESWGR31AB Equip. Class Low Voltage Switchgear and Breaker Panels

-OR- SWGR-3AB31S)

Equipment Description Switchgear 31AB

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: _____ Date: _____

_____ _____

Sheet 4 of 4

Status: Y☐ N☒ U☐

Seismic Walkdown Checklist (SWC) SWEL1-005

Equipment ID No. SSDESWGR31AB Equip. Class Low Voltage Switchgear and Breaker Panels
-OR- SWGR-3AB31S)

Equipment Description Switchgear 31AB

Photographs

Note:	**Note:**

Sheet 1 of 4

Status: Y☐ N☒ U☐

Seismic Walkdown Checklist (SWC) SWEL1-006

Equipment ID No. 4KVESWGR3A Equip. Class[1] Medium Voltage, Metal-Clad Switchgear

-OR- SWGR-3A3S

Equipment Description Switchgear 3A

Location: Bldg. RAB Floor El. +21 Room, Area 212A, Column 9A

Manufacturer, Model, Etc. (optional but recommended) General Electric, Co., AM4163502H

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.

Sheet 2 of 4

Status: Y☐ N☒ U☐

Seismic Walkdown Checklist (SWC) SWEL1-006

Equipment ID No. 4KVESWGR3A Equip. Class Medium Voltage, Metal-Clad Switchgear

-OR- SWGR-3A3S

Equipment Description Switchgear 3A

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☐

Sheet 3 of 4

Status: Y☐ N☒ U☐

Seismic Walkdown Checklist (SWC) SWEL1-006

Equipment ID No. 4KVESWGR3A Equip. Class Medium Voltage, Metal-Clad Switchgear

-OR- SWGR-3A3S

Equipment Description Switchgear 3A

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: _____ Date:

Sheet 4 of 4

Status: Y☐ N☒ U☐

Seismic Walkdown Checklist (SWC) SWEL1-006

Equipment ID No. 4KVESWGR3A Equip. Class Medium Voltage, Metal-Clad Switchgear

-OR- SWGR-3A3S

Equipment Description Switchgear 3A

Photographs

Note:	**Note:**

Sheet 1 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-007

Equipment ID No. ID EMTMD-B Equip. Class[1] Transformers

Equipment Description SUPS INVERTER MD AC INPUT MAIN TRANSFORMER

Location: Bldg. RAB Floor El. +21 Room, Area Room 212A, Col. 10A, Line K

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☐
   - All bolts mounting transformer to panel 3MD-S are in good condition.
   - All anchor bolts mounting panel 3MD-S to concrete are in good condition.

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☒ N☐ U☐ N/A☐
   - No corrosion found on any bolts mounting the transformer to the panel or the panel to the concrete.

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☒ N☐ U☐ N/A☐
   - No visible cracks in concrete.

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

Sheet 2 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-007

Equipment ID No. ID EMTMD-B Equip. Class Transformers

Equipment Description SUPS INVERTER MD AC INPUT MAIN TRANSFORMER

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☐
   - Refer to drawing G574, S05 for anchorage detail.

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☒ N☐ U☐
   - Questions 2-5 satisfied.

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☐
   - All conduits attached to transformer are flexible.

10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y☒ N☐ U☐
    - Questions 7-9 are satisfied.

Sheet 3 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-007

Equipment ID No. ID EMTMD-B Equip. Class Transformers

Equipment Description SUPS INVERTER MD AC INPUT MAIN TRANSFORMER

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)

- For area walk-by checklist see AWC-018

Evaluated by: Dinesh Patel Date: 10-19-2012

Brian Pace 10-19-2012

Sheet 4 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-007

Equipment ID No. ID EMTMD-B Equip. Class Transformers

Equipment Description SUPS INVERTER MD AC INPUT MAIN TRANSFORMER

Photographs

	
Note: Anchor bolts for 3MD-S panel are in good condition.	**Note:** Transformer and its bolts are in good condition. All other internals mounted properly.

Sheet 1 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-008

Equipment ID No. SSDEMT315B Equip. Class[1] Transformers

Equipment Description (4160-480/277V XFMR) STA SERVICE XFMR-3B315-S

Location: Bldg. CTB Floor El. -35 Room, Area Room B59A, Col. 12A, Line S

Manufacturer, Model, Etc. (optional but recommended) General Electric Co., SD315B4360

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☐
   - Four 7/8" diameter anchor bolts present and all in good condition.

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☒ N☐ U☐ N/A☐
   - The four anchor bolts have no corrosion.

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☒ N☐ U☐ N/A☐
   - No visible cracks were found near the anchors.

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

Sheet 2 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-008

Equipment ID No. SSDEMT315B Equip. Class Transformers

Equipment Description (4160-480/277V XFMR) STA SERVICE XFMR-3B315-S

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 observed in field is consistent with plant documentation (See drawing G501, S03 for anchorage detail).
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☒ N☐ U☐
   - Questions 2-5 are satisfied.

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☐
   - Rigid conduits are attached to the transformer. These conduits are acceptable per drawing B288, S19-1.
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y☒ N☐ U☐
    - Questions 7-9 are satisfied.

Sheet 3 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-008

Equipment ID No. SSDEMT315B Equip. Class Transformers

Equipment Description (4160-480/277V XFMR) STA SERVICE XFMR-3B315-S

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)

- Missing bolt on housing cover (1 of 8 on side); no seismic concern
- Mild corrosion on housing cover, bolts; no seismic concern
- CR-WF3-2012-04932 and WR 285894 initiated to address missing bolt on housing cover (1 of 8) and mild corrosion on housing cover and bolts
- For area walk-by checklist see AWC-008

Evaluated by: Dinesh Patel Date: 10/10/2012

Brian Pace 10/10/2012

Sheet 4 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-008

Equipment ID No. SSDEMT315B Equip. Class Transformers

Equipment Description (4160-480/277V XFMR) STA SERVICE XFMR-3B315-S

Photographs

Note: Missing bolt on the housing cover (1 of 8)

Note: Example of anchorage in good condition.

Sheet 1 of 5

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-009

Equipment ID No. CC MPMP0001-B Equip. Class[1] Horizontal Pumps

Equipment Description Component Cooling Water Pump B

Location: Bldg. RAB Floor El. +21 Room, Area Room 233, Col. 7A, Line K

Manufacturer, Model, Etc. (optional but recommended) Babcock & Wilcox, Co., 12X14X16

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☐
   - Anchorage that mounts pump and motor skid to concrete pad is in good condition.

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☒ N☐ U☐ N/A☐
   - No corrosion on the anchors.

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☒ N☐ U☐ N/A☐
   - No visible cracks on the concrete pad.

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

Sheet 2 of 5

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-009

Equipment ID No. CC MPMP0001-B Equip. Class Horizontal Pumps

Equipment Description Component Cooling Water Pump B

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 is consistent with plant documentation. See drawing G574, S02.
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☒ N☐ U☐
   - Questions 2-4 satisfied; no seismic concern

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☐
   - Flexible conduits attached and lines are well supported
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y☒ N☐ U☐
    - Questions 7-9 satisfied

Sheet 3 of 5

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-009

Equipment ID No. CC MPMP0001-B Equip. Class Horizontal Pumps

Equipment Description Component Cooling Water Pump B

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)

- Very mild surface corrosion on shaft lubrication unit bolts. No seismic concern. CR-WF3-2012-05230 and WR-287232 initiated for this condition.
- Minor leak from rear motor housing. Rag dated 6-26-12. No seismic concern. Condition previously addressed in CR-WF3-2012-01473 and WR-267573.
- For area walk-by checklist see AWC-020

Evaluated by: Brian Pace Date: 10-12-2012

Dinesh Patel 10-12-2012

Sheet 4 of 5

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-009

Equipment ID No. CC MPMP0001-B Equip. Class Horizontal Pumps

Equipment Description Component Cooling Water Pump B

Photographs

Note: Component Cooling Water Pump B

Note: Example of anchor bolt in good condition.

Sheet 5 of 5

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-009

Equipment ID No. CC MPMP0001-B Equip. Class Horizontal Pumps

Equipment Description Component Cooling Water Pump B

Note: Minor leak from rear motor housing

Note: Very mild surface corrosion on lubrication unit bolts

Sheet 1 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-010

Equipment ID No. EFWMPMP0001-AB Equip. Class[1] Horizontal Pumps

Equipment Description Emergency Feedwater Pump AB

Location: Bldg. RAB Floor El. -35 Room, Area Room B49, Col. 4A, Line L

Manufacturer, Model, Etc. (optional but recommended) Sulzer Bingham Pumps, Inc., 3X6X9CMSDD

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☐

   - All anchorage is accounted for and in good condition

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

   - All anchorage is corrosion free

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

   - No cracks were observed in the concrete

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

Sheet 2 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-010

Equipment ID No. EFWMPMP0001-AB Equip. Class Horizontal Pumps

Equipment Description Emergency Feedwater Pump AB

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☐

   - Plant documentation is consistent with observations in the field (See drawing no. G501, Sh. 1)

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

   - No seismic concern

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☐

Sheet 3 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-010

Equipment ID No. EFWMPMP0001-AB Equip. Class Horizontal Pumps

Equipment Description Emergency Feedwater Pump AB

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)

- Oil leak, fluid under equipment; no seismic concern. Previously addressed in CR-WF3-2011-05119 and WR-243506.
- For area walk-by checklist see AWC-007

Evaluated by: Dinesh Patel Date: 10/2/12

Natalie George 10/2/12

Sheet 4 of 4

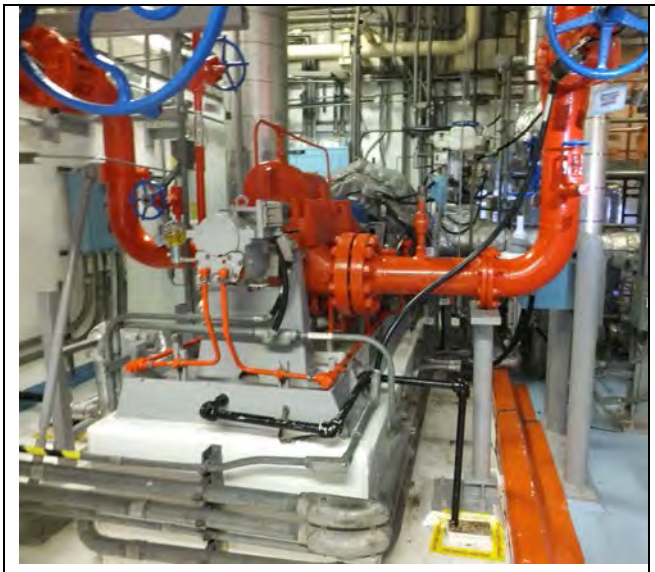
Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-010

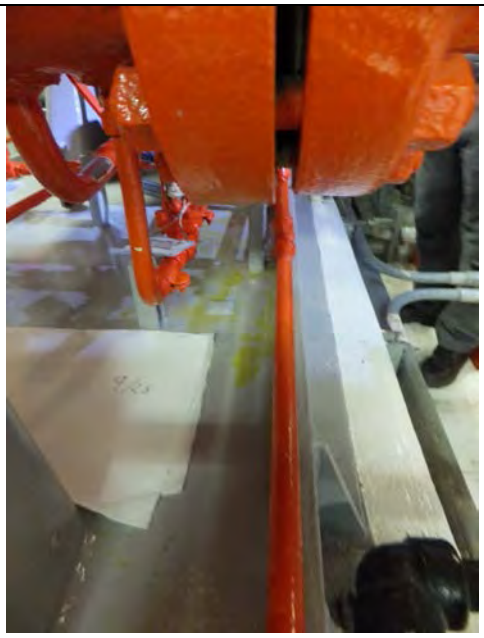
Equipment ID No. EFWMPMP0001-AB Equip. Class Horizontal Pumps

Equipment Description Emergency Feedwater Pump AB

Photographs



Note: Emergency Feedwater Pump AB



Note: Oil leak, fluid under equipment

Sheet 1 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-011

Equipment ID No. EGFMPMP0001-A Equip. Class[1] HORIZIONTAL PUMP

Equipment Description DIESEL OIL TRANSFER PUMP A

Location: Bldg. RB Floor El. -35 Room, Area ROOM B52, COL 2A, LINE L

Manufacturer, Model, Etc. (optional but recommended) GOULDS PUMPS INC, 3736

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☐
   - All anchorage is accounted for and in good condition

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☒ N☐ U☐ N/A☐
   - Mild surface corrosion on anchorage; no seismic concern

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☒ N☐ U☐ N/A☐
   - No visible cracks in the concrete

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

Sheet 2 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-011

Equipment ID No. EGFMPMP0001-A Equip. Class HORIZIONTAL PUMP

Equipment Description DIESEL OIL TRANSFER PUMP 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☐
   - Anchorage configuration consistent with plant documentation (Drawing no. G501 sh. 2 and IPEEE pg. E-89)
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☒ N☐ U☐
   - Questions 2-4 satisfied; no seismic concern

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☐
   - Flexible conduit attached
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y☒ N☐ U☐
    - Questions 7-9 satisfied

Sheet 3 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-011

Equipment ID No. EGFMPMP0001-A Equip. Class HORIZIONTAL PUMP

Equipment Description DIESEL OIL TRANSFER PUMP 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)

- Mild surface corrosion on pump body; no seismic concern. CR-WF3-2012-05275 and WR-287626 written to address this condition.
- For area walk-by checklist see AWC-029

Evaluated by: Brian Pace Date: 10/5/12

Dinesh Patel 10/5/12

Sheet 4 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-011

Equipment ID No. EGFMPMP0001-A Equip. Class HORIZIONTAL PUMP

Equipment Description DIESEL OIL TRANSFER PUMP A

Photographs

Note: Mild corrosion on Diesel Oil Transfer Pump A

Note: Mild corrosion on anchorage

Sheet 1 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-012

Equipment ID No. SI MPMP0002-B Equip. Class[1] Horizontal Pumps

Equipment Description High Pressure Safety Injection Pump B

Location: Bldg. RAB Floor El. -35 Room, Area Room B16, Col. 7A, Line K

Manufacturer, Model, Etc. (optional but recommended) Ingersoll-Rand, 4X9C9

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☐
   - All anchorage is accounted for and in good condition

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☒ N☐ U☐ N/A☐
   - All anchorage is free of corrosion, painted

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☒ N☐ U☐ N/A☐
   - No visible cracks in the concrete

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

Sheet 2 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-012

Equipment ID No. SI MPMP0002-B Equip. Class Horizontal Pumps

Equipment Description High Pressure Safety Injection Pump B

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 configuration consistent with plant documentation (Drawing no. G501 sh. 1 and IPEEE pg. E-4)
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☒ N☐ U☐
   - No seismic concern

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☐

Sheet 3 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-012

Equipment ID No. SI MPMP0002-B Equip. Class Horizontal Pumps

Equipment Description High Pressure Safety Injection Pump B

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)

- For area walk-by checklist see AWC-001

Evaluated by: Dinesh Patel Date: 10/2/12

Natalie George 10/2/12

Sheet 4 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-012

Equipment ID No. SI MPMP0002-B Equip. Class Horizontal Pumps

Equipment Description High Pressure Safety Injection Pump B

Photographs

Note: High Pressure Safety Injection Pump B

Note: High Pressure Safety Injection Pump B anchorage

Sheet 1 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-013

Equipment ID No. SI MPMP0001-A Equip. Class[1] Vertical Pumps

Equipment Description Low Pressure Safety Injection Pump A

Location: Bldg. RAB Floor El. -35 Room, Area B15, Col. 9A, Line K

Manufacturer, Model, Etc. (optional but recommended) Ingersoll-Rand, 8X20WD

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☒
   - Item not one of the 50% of SWEL items requiring anchorage configuration verification
   - Pump bolted to structural frame. Frame welded to embed plate at 4 locations.
2. Is the anchorage free of bent, broken, missing or loose hardware? Y☒ N☐ U☐ N/A☐
   - Bolts mounting pump to frame are accounted for and in good condition
3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☒ N☐ U☐ N/A☐
   - No corrosion on bolts
4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☒ N☐ U☐ N/A☐
   - No visible cracks in concrete around the embed plate

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

Sheet 2 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-013

Equipment ID No. SI MPMP0001-A Equip. Class Vertical Pumps

Equipment Description Low Pressure Safety Injection Pump 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☒
   - Item not one of the 50% of SWEL items requiring anchorage configuration verification
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☒ N☐ U☐
   - Questions 2-4 satisfied; no seismic concerns

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☐
   - Several flexible conduits attached. Attached lines well connected.

10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y☒ N☐ U☐
    - Questions 7-9 satisfied.

Sheet 3 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-013

Equipment ID No. SI MPMP0001-A Equip. Class Vertical Pumps

Equipment Description Low Pressure Safety Injection Pump 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)

- For area walk-by checklist see ACW-002

Evaluated by: Dinesh Patel Date: 10-03-2012

Brian Pace 10-03-2012

Sheet 4 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-013

Equipment ID No. SI MPMP0001-A Equip. Class Vertical Pumps

Equipment Description Low Pressure Safety Injection Pump A

Photographs

Note: Low Pressure Safety Injection Pump A

Note: Pump and frame

Sheet 1 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-014

Equipment ID No. ACCMVAAA126-B Equip. Class[1] Pneumatic-Operated Valves

-OR- 3CC-TM291B

Equipment Description ACC HEADER B CCS HX OUTL TEMPERATURE CONTROL VALVE

Location: Bldg. RAB Floor El. +21 Room, Area Room 236, Col. 3A, Line K

Manufacturer, Model, Etc. (optional but recommended) Fisher Controls Co., Inc., 9211

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 component

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☒ N☐ U☐ N/A☐
   - In-line component
   - All valve hardware accounted for and in good condition

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☒ N☐ U☐ N/A☐
   - In-line component
   - No corrosion on painted hardware
   - Mild corrosion on hardware without paint; no seismic concern

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☐ N☐ U☐ N/A☒
   - In-line component

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

Sheet 2 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-014

Equipment ID No. ACCMVAAA126-B Equip. Class Pneumatic-Operated Valves

-OR- 3CC-TM291B

Equipment Description ACC HEADER B CCS HX OUTL TEMPERATURE CONTROL 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☒
   - In-line component

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

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☐

Sheet 3 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-014

Equipment ID No. ACCMVAAA126-B Equip. Class Pneumatic-Operated Valves

-OR- 3CC-TM291B

Equipment Description ACC HEADER B CCS HX OUTL TEMPERATURE CONTROL 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)

- Valve is leaking, previously documented and a funnel is in place; no seismic concern
- For area walk-by checklist see AWC-024

Evaluated by: Natalie George Date: 10/15/12

Chu-Chieh Lin 10/15/12

Sheet 4 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-014

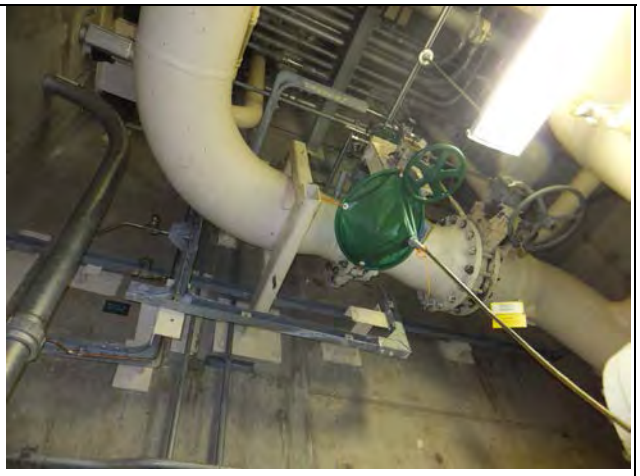
Equipment ID No. ACCMVAAA126-B Equip. Class Pneumatic-Operated Valves

-OR- 3CC-TM291B

Equipment Description ACC HEADER B CCS HX OUTL TEMPERATURE CONTROL VALVE

Photographs

Note: Mild corrosion on hardware without paint



Note: Valve is leaking, previously documented and a funnel is in place

Sheet 1 of 5

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-015

Equipment ID No. ACCMVAAA138-A Equip. Class[1] Pneumatic-Operated Valves

-OR-3CC-F284A

Equipment Description ACC WET COOLING TOWER A CROSS-CONNECT ISOLATION

Location: Bldg. CTA Floor El. -35 Room, Area COL 1M LINE P1

Manufacturer, Model, Etc. (optional but recommended) JAMESBURY CORP, 8126EAMODB

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 component

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☒ N☐ U☐ N/A☐
   - In-line component
   - Valve hardware is covered by insulation. However, anchorage is acceptable based on Inservice Testing (Program Section No. SEP-WF3-IST-3)

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☒ N☐ U☐ N/A☐
   - In-line component
   - Valve hardware is covered by insulation. However, anchorage is acceptable based on Inservice Testing (Program Section No. SEP-WF3-IST-3)

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☐ N☐ U☐ N/A☒
   - In-line component

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

Sheet 2 of 5

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-015

Equipment ID No. ACCMVAAA138-A -OR-3CC-F284A Equip. Class Pneumatic-Operated Valves

Equipment Description ACC WET COOLING TOWER A CROSS-CONNECT ISOLATION

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 component

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

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☐

Sheet 3 of 5

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-015

Equipment ID No. ACCMVAAA138-A -OR-3CC-F284A Equip. Class Pneumatic-Operated Valves

Equipment Description ACC WET COOLING TOWER A CROSS-CONNECT ISOLATION

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)

- Yoke and bolt display moderate corrosion
- CR-WF3-2012-05269 and WR 287619 initiated to address moderate corrosion on yoke and bolt
- For area walk-by checklist see AWC-013

Evaluated by: Brian Pace Date: 10/5/12

Dinesh Patel 10/5/12

Sheet 4 of 5

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-015

Equipment ID No. ACCMVAAA138-A -OR-3CC-F284A Equip. Class Pneumatic-Operated Valves

Equipment Description ACC WET COOLING TOWER A CROSS-CONNECT ISOLATION

Photographs

Note: ACC wet cooling tower A cross-connect isolation

Note: Corrosion on yoke and bolt

Sheet 5 of 5

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-015

Equipment ID No. ACCMVAAA138-A -OR-3CC-F284A Equip. Class Pneumatic-Operated Valves

Equipment Description ACC WET COOLING TOWER A CROSS-CONNECT ISOLATION

Note: Corrosion on valve

Sheet 1 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-016

Equipment ID No. BAMMVAAA126-A Equip. Class[1] Pneumatic-Operated Valves

-OR- 3CH-F170A

Equipment Description Boric Acid Makeup Pump A Recirc Valve

Location: Bldg. RAB Floor El. -35 Room, Area B38, Col. 4A, Line H

Manufacturer, Model, Etc. (optional but recommended) Fisher Controls Co., Inc., Model 667ES

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 component

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☒ N☐ U☐ N/A☐
   - In-line component
   - All valve hardware accounted for and in good condition

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☒ N☐ U☐ N/A☐
   - In-line component
   - Valve hardware free of corrosion

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☐ N☐ U☐ N/A☒
   - In-line component

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

Sheet 2 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-016

Equipment ID No. BAMMVAAA126-A Equip. Class Pneumatic-Operated Valves

-OR- 3CH-F170A

Equipment Description Boric Acid Makeup Pump A Recirc 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☒
   - In-line component

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☒ N☐ U☐
   - No seismic concern

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☐

Sheet 3 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-016

Equipment ID No. BAMMVAAA126-A Equip. Class Pneumatic-Operated Valves

-OR- 3CH-F170A

Equipment Description Boric Acid Makeup Pump A Recirc 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)

- Mild surface corrosion at bottom of yoke and bolt holding the limit switch; no seismic concern. CR-WF3-2012-05230 and WR-287244 initiated to address this condition.
- For area walk-by checklist see ACW-005

Evaluated by: Dinesh Patel Date: 10/3/12

Natalie George 10/3/12

Sheet 4 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-016

Equipment ID No. BAMMVAAA126-A Equip. Class Pneumatic-Operated Valves

-OR- 3CH-F170A

Equipment Description Boric Acid Makeup Pump A Recirc Valve

Photographs

Note: Boric Acid Makeup Pump A Recirc Valve

Note: Mild surface corrosion at bottom of yoke and bolt holding the limit switch

Sheet 1 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-017

Equipment ID No. BD MVAAA103-A Equip. Class[1] PNEUMATIC OPERATED VALVES

-OR-

2BD-F604

Equipment Description S/G 1 BLOWDOWN OUTSIDE CONTAINMENT ISOLATION

Location: Bldg. RB Floor El. -4 Room, Area ROOM B100, COL 3A, LINE N

Manufacturer, Model, Etc. (optional but recommended) MASONEILAN INTL INC, 38-41421

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 component

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☒ N☐ U☐ N/A☐
   - In-line component
   - Valve hardware is covered by insulation. However, anchorage is acceptable based on Inservice Testing (Program Section No. SEP-WF3-IST-3)

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☒ N☐ U☐ N/A☐
   - In-line component
   - Valve hardware is covered by insulation. However, anchorage is acceptable based on Inservice Testing (Program Section No. SEP-WF3-IST-3)

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☐ N☐ U☐ N/A☒
   - In-line component

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

Sheet 2 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-017

Equipment ID No. BD MVAAA103-A Equip. Class PNEUMATIC OPERATED VALVES

-OR-

2BD-F604

Equipment Description S/G 1 BLOWDOWN OUTSIDE CONTAINMENT ISOLATION

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 component

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

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☐

Sheet 3 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-017

Equipment ID No. BD MVAAA103-A Equip. Class PNEUMATIC OPERATED VALVES

-OR-

2BD-F604

Equipment Description S/G 1 BLOWDOWN OUTSIDE CONTAINMENT ISOLATION

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)

- For area walk-by checklist see AWC-030

Evaluated by: Natalie George Date: 10/5/12

Chu-Chieh Lin 10/5/12

Sheet 4 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-017

Equipment ID No. BD MVAAA103-A Equip. Class PNEUMATIC OPERATED VALVES

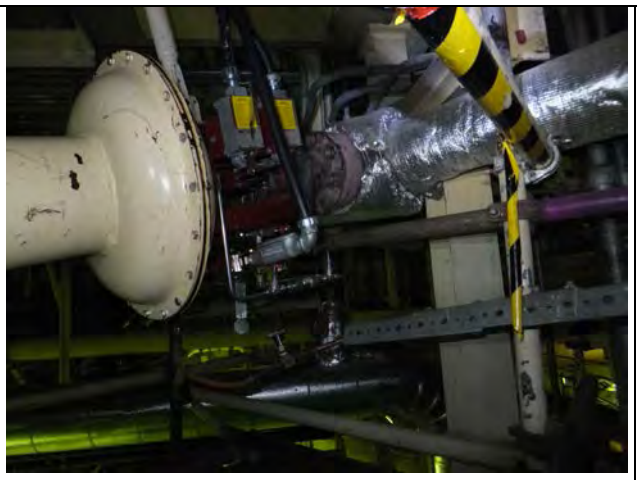
-OR-

2BD-F604

Equipment Description S/G 1 BLOWDOWN OUTSIDE CONTAINMENT ISOLATION

Photographs

Note: S/G 1 blowdown outside containment isolation BD MVAAA103-A



Note: S/G 1 blowdown outside containment isolation BD MVAAA103-A

Sheet 1 of 4

Status: Y☐ N☒ U☐

Seismic Walkdown Checklist (SWC) SWEL1-018

Equipment ID No. BM MVAAA109 Equip. Class[1] Pneumatic-Operated Valves

-OR- 2BM-F108A/B

Equipment Description Reactor Drain Tank Outlet Inside Containment Isolation

Location: Bldg. RCB Floor El. -11 Room, Area Room 421

Manufacturer, Model, Etc. (optional but recommended) ITT Grinnell, 3225

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.

Sheet 2 of 4

Status: Y☐ N☒ U☐

Seismic Walkdown Checklist (SWC) SWEL1-018

Equipment ID No. BM MVAAA109 Equip. Class Pneumatic-Operated Valves

-OR- 2BM-F108A/B

Equipment Description Reactor Drain Tank Outlet Inside Containment Isolation

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☐

Sheet 3 of 4

Status: Y☐ N☒ U☐

Seismic Walkdown Checklist (SWC) SWEL1-018

Equipment ID No. BM MVAAA109 Equip. Class Pneumatic-Operated Valves

-OR- 2BM-F108A/B

Equipment Description Reactor Drain Tank Outlet Inside Containment Isolation

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: _____ Date: _____

_____ _____

Sheet 4 of 4

Status: Y☐ N☒ U☐

Seismic Walkdown Checklist (SWC) SWEL1-018

Equipment ID No. BM MVAAA109 Equip. Class Pneumatic-Operated Valves

-OR- 2BM-F108A/B

Equipment Description Reactor Drain Tank Outlet Inside Containment Isolation

Photographs

Note:		**Note:**

Sheet 1 of 4

Status: Y☐ N☒ U☐

Seismic Walkdown Checklist (SWC) SWEL1-019

Equipment ID No. CAPMVAAA103 Equip. Class[1] Pneumatic-Operated Valves

-OR- 2HV-B151A

Equipment Description Containment Purge Inlet Inside Annulus

Location: Bldg. ANN Floor El. +21 Room, Area Room 420

Manufacturer, Model, Etc. (optional but recommended) Fisher Controls Company, Inc., 9220-48IN

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.

Sheet 2 of 4

Status: Y☐ N☒ U☐

Seismic Walkdown Checklist (SWC) SWEL1-019

Equipment ID No. CAPMVAAA103 Equip. Class Pneumatic-Operated Valves

-OR- 2HV-B151A

Equipment Description Containment Purge Inlet Inside Annulus

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☐

Sheet 3 of 4

Status: Y☐ N☒ U☐

Seismic Walkdown Checklist (SWC) SWEL1-019

Equipment ID No. CAPMVAAA103 Equip. Class Pneumatic-Operated Valves

-OR- 2HV-B151A

Equipment Description Containment Purge Inlet Inside Annulus

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: _____ Date: _____

_____ _____

Sheet 4 of 4

Status: Y☐ N☒ U☐

Seismic Walkdown Checklist (SWC) SWEL1-019

Equipment ID No. CAPMVAAA103 Equip. Class Pneumatic-Operated Valves

-OR- 2HV-B151A

Equipment Description Containment Purge Inlet Inside Annulus

Photographs

Note:	**Note:**

Sheet 1 of 5

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-020

Equipment ID No. CC MVAAA135-B Equip. Class[1] Pneumatic-Operated Valves

-OR- 3CC-B203B

Equipment Description DRY COOLING TOWER B CCW INLET ISOLATION

Location: Bldg. CTB Floor El. -35 Room, Area ROOM B60A COL 12A LINE S

Manufacturer, Model, Etc. (optional but recommended) JAMESBURY CORP, 8026E

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 component

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☒ N☐ U☐ N/A☐
   - In-line component
   - All valve hardware connecting valve to pipe is accounted for and in good condition

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☒ N☐ U☐ N/A☐
   - In-line component
   - All valve hardware connecting valve to pipe is free of corrosion, painted

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☐ N☐ U☐ N/A☒
   - In-line component

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

Sheet 2 of 5

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-020

Equipment ID No. CC MVAAA135-B Equip. Class Pneumatic-Operated Valves

-OR- 3CC-B203B

Equipment Description DRY COOLING TOWER B CCW INLET ISOLATION

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 component

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

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☐

Sheet 3 of 5

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-020

Equipment ID No. CC MVAAA135-B Equip. Class Pneumatic-Operated Valves

-OR- 3CC-B203B

Equipment Description DRY COOLING TOWER B CCW INLET ISOLATION

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☐
    - Bolts do not have sufficient thread interaction on plate that connects solenoid to valve
    - Nuts are missing on connection plate
    - CR-WF3-2012-04905, WR 285749, and EC 40135 initiated to address insufficient thread interaction of bolts on plate that connects solenoid to valve.

Comments (Additional pages may be added as necessary)

- Corrosion on the pipe connection; no seismic concern
- For area walk-by checklist see AWC-011

Evaluated by: Dinesh Patel Date: 10/01/2012

Chu-Chieh Lin 10/01/2012

Sheet 4 of 5

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-020

Equipment ID No. CC MVAAA135-B -OR- 3CC-B203B Equip. Class Pneumatic-Operated Valves

Equipment Description DRY COOLING TOWER B CCW INLET ISOLATION

Photographs

Note: Missing nuts on the connection plate

Note: Missing nuts on the connection plate

Sheet 5 of 5

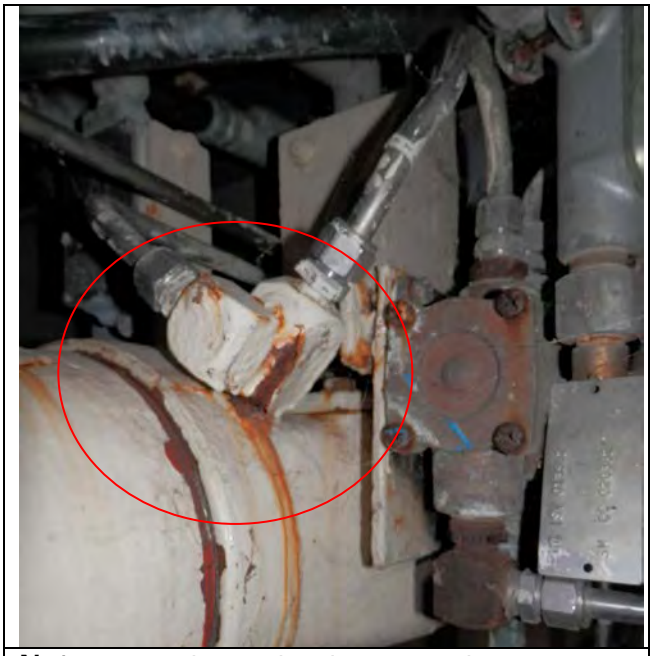
Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-020

Equipment ID No. CC MVAAA135-B Equip. Class Pneumatic-Operated Valves

-OR- 3CC-B203B

Equipment Description DRY COOLING TOWER B CCW INLET ISOLATION



Note: Corrosion on the pipe connection

Note: Dry cooling tower B CCW inlet isolation

Sheet 1 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-021

Equipment ID No. CC MVAAA322-B Equip. Class[1] Pneumatic-Operated Valves

-OR- 3CC-F275B

Equipment Description CCW HEADER B RETURN FROM ESSENTIAL CHILLERS ISOLATION

Location: Bldg. RAB Floor El. +21 Room, Area Room 236, Col. 3A, Line K

Manufacturer, Model, Etc. (optional but recommended) Jamesbury Corp., 8026

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☒
   - This is an in-line component

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☒ N☐ U☐ N/A☐
   - This is an in-line component
   - Valve hardware is accounted for and in good condition

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☒ N☐ U☐ N/A☐
   - This is an in-line component
   - Valve hardware is free of corrosion

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☐ N☐ U☐ N/A☒
   - This is an in-line component

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

Sheet 2 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-021

Equipment ID No. CC MVAAA322-B Equip. Class Pneumatic-Operated Valves

-OR- 3CC-F275B

Equipment Description CCW HEADER B RETURN FROM ESSENTIAL CHILLERS ISOLATION

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☒
   - This is an in-line component

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

9. Do attached lines have adequate flexibility to avoid damage? Y☒ N☐ U☐ N/A☐
   - Attached conduits are flexible

10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y☒ N☐ U☐
    - Questions 7-9 are satisfied

Sheet 3 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-021

Equipment ID No. CC MVAAA322-B Equip. Class Pneumatic-Operated Valves

-OR- 3CC-F275B

Equipment Description CCW HEADER B RETURN FROM ESSENTIAL CHILLERS ISOLATION

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)

- There is a leak on the valve, but it is monitored. A funnel is installed, which leads to a floor drain. This poses no seismic concern.
- For area walk-by checklist see AWC-024

Evaluated by: Brian Pace Date: 10-12-2012

Dinesh Patel 10-12-2012

Sheet 4 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-021

Equipment ID No. CC MVAAA322-B Equip. Class Pneumatic-Operated Valves

-OR- 3CC-F275B

Equipment Description CCW HEADER B RETURN FROM ESSENTIAL CHILLERS ISOLATION

Photographs

Note: CC MVAAA322-B

Note: Funnel for monitored leak

Sheet 1 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-022

Equipment ID No. CC MVAAA835-A Equip. Class[1] PNEUMATIC OPERATED VALVES

-OR-

3CC-TM148A

Equipment Description CNTMT FAN COOLERS TRAIN A TEMPERATURE CONTROL

Location: Bldg. RB Floor El. -4 Room, Area ROOM B100, COL 5A, LINE L

Manufacturer, Model, Etc. (optional but recommended) FISHER CONTROLS CO INC, 9211

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☐
   - All valve hardware is accounted for and in good condition

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☒ N☐ U☐ N/A☐
   - All valve hardware is corrosion free and painted

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☐ N☐ U☐ N/A☒
   - In-line component

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

Sheet 2 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-022

Equipment ID No. CC MVAAA835-A Equip. Class PNEUMATIC OPERATED VALVES

-OR-

3CC-TM148A

Equipment Description CNTMT FAN COOLERS TRAIN A TEMPERATURE CONTROL

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 component

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☐

Sheet 3 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-022

Equipment ID No. CC MVAAA835-A Equip. Class PNEUMATIC OPERATED VALVES

-OR-

3CC-TM148A

Equipment Description CNTMT FAN COOLERS TRAIN A TEMPERATURE CONTROL

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)

- For area walk-by checklist see AWC-030

Evaluated by: Natalie George Date: 10/5/12

Chu-Chieh Lin 10/5/12

Sheet 4 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-022

Equipment ID No. CC MVAAA835-A Equip. Class PNEUMATIC OPERATED VALVES

-OR-

3CC-TM148A

Equipment Description CNTMT FAN COOLERS TRAIN A TEMPERATURE CONTROL

Photographs

Note: Containment fan coolers Train A temperature control

Sheet 1 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-023

Equipment ID No. CC MVAAA963-A Equip. Class[1] Pneumatic-Operated Valves

-OR- 3CC-F130A

Equipment Description Shutdown Heat Exchanger A CCW Flow Control

Location: Bldg. RAB Floor El. -35 Room, Area Room B17, Col. 11A, Line J

Manufacturer, Model, Etc. (optional but recommended) Jamesbury Corp., 8926EX

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☐
   - Valve hardware is accounted for and in good condition

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☒ N☐ U☐ N/A☐
   - Valve hardware is corrosion free and painted

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☐ N☐ U☐ N/A☒
   - In-line component

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

Sheet 2 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-023

Equipment ID No. CC MVAAA963-A Equip. Class Pneumatic-Operated Valves

-OR- 3CC-F130A

Equipment Description Shutdown Heat Exchanger A CCW Flow Control

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 component, 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☐

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☐

Sheet 3 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-023

Equipment ID No. CC MVAAA963-A Equip. Class Pneumatic-Operated Valves

-OR- 3CC-F130A

Equipment Description Shutdown Heat Exchanger A CCW Flow Control

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)

- For area walk-by checklist see AWC-003

Evaluated by: Natalie George Date: 10/8/12

Chu-Chieh Lin 10/8/12

Sheet 4 of 4

Status: Y☒ N☐ U☐

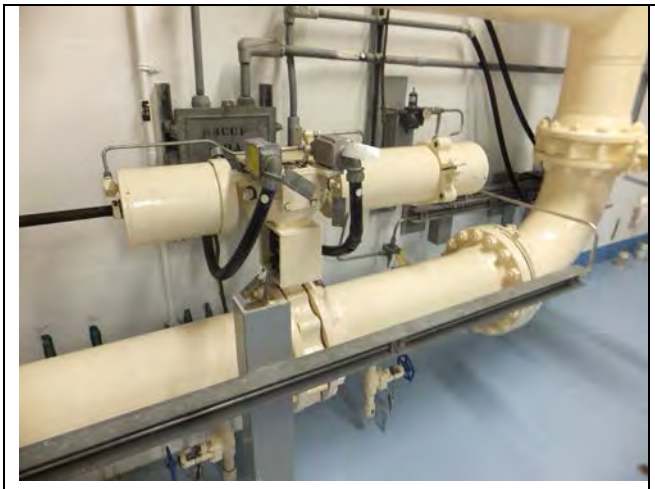
Seismic Walkdown Checklist (SWC) SWEL1-023

Equipment ID No. CC MVAAA963-A Equip. Class Pneumatic-Operated Valves

-OR- 3CC-F130A

Equipment Description Shutdown Heat Exchanger A CCW Flow Control

Photographs



Note: Shutdown Heat Exchanger A CCW Flow Control

Sheet 1 of 5

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-024

Equipment ID No. CMUISV0407-B Equip. Class[1] Pneumatic-Operated Valves

-OR- 6CD-F658

Equipment Description SV FOR CMU-407B

Location: Bldg. CTB Floor El. -35 Room, Area ROOM B59A COL 12M LINE P1

Manufacturer, Model, Etc. (optional but recommended) ASCO - AUTOMATIC SWITCH C, NP8321A1E

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 component attached to valve CMUMVAAA407-B

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☒ N☐ U☐ N/A☐
   - Two bolts attach the switch to the valve

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☒ N☐ U☐ N/A☐
   - Mild surface corrosion on both bolts and the support. These pose no seismic concern.

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☐ N☐ U☐ N/A☒
   - In-line component attached to valve CMUMVAAA407-B

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

Sheet 2 of 5

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-024

Equipment ID No. CMUISV0407-B Equip. Class Pneumatic-Operated Valves

-OR- 6CD-F658

Equipment Description SV FOR CMU-407B

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 component attached to valve CMUMVAAA407-B.

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☒ N☐ U☐
   - In-line component, 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☐
   - Overhead pipes and structural members well supported.

9. Do attached lines have adequate flexibility to avoid damage? Y☒ N☐ U☐ N/A☐
   - Flexible conduit attached

10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y☒ N☐ U☐
    - Questions 7-9 satisfied.

Sheet 3 of 5

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-024

Equipment ID No. CMUISV0407-B Equip. Class Pneumatic-Operated Valves

-OR- 6CD-F658

Equipment Description SV FOR CMU-407B

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)

- Mild corrosion on limit switch support
- For area walk-by checklist see AWC-009

Evaluated by: Dinesh Patel Date: 10/15/2012

Brian Pace 10/15/2012

Sheet 4 of 5

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-024

Equipment ID No. CMUISV0407-B Equip. Class Pneumatic-Operated Valves

-OR- 6CD-F658

Equipment Description SV FOR CMU-407B

Photographs

Note: Two bolts attaching switch to support.

Note: Mild corrosion on bolts and support

Sheet 5 of 5

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-024

Equipment ID No. CMUISV0407-B -OR- 6CD-F658 Equip. Class Pneumatic-Operated Valves

Equipment Description SV FOR CMU-407B

Note: Picture with Valve CMUMVAAA407-B and its limit switch.

Sheet 1 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-025

Equipment ID No. CS MVAAA125-B Equip. Class[1] Pneumatic-Operated Valves

-OR-

2CS-F306B

Equipment Description CCW HEADER B RETURN FROM ESSENTIAL CHILLERS ISOLATION

Location: Bldg. RB Floor El. -35 Room, Area Room B53, Col. 9A, Line M

Manufacturer, Model, Etc. (optional but recommended) WKM DIV/ACF IND INC, C3

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☒
   - This is an in-line component and therefore does not require anchorage verification

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☒ N☐ U☐ N/A☐
   - In-line component
   - Welds between valve and pipe are accounted for and in good condition

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☒ N☐ U☐ N/A☐
   - In-line component
   - Welds between valve and pipe are free of corrosion

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☐ N☐ U☐ N/A☒
   - In-line component.

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

Sheet 2 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-025

Equipment ID No. CS MVAAA125-B Equip. Class Pneumatic-Operated Valves

-OR-

2CS-F306B

Equipment Description CCW HEADER B RETURN FROM ESSENTIAL CHILLERS ISOLATION

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 component

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☒ N☐ U☐
   - This is an in-line component. All connection points for the valve are in good condition.

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☐
   - Several flexible attached lines

10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y☒ N☐ U☐
    - Questions 7-9 satisfied

Sheet 3 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-025

Equipment ID No. CS MVAAA125-B Equip. Class Pneumatic-Operated Valves

-OR-

2CS-F306B

Equipment Description CCW HEADER B RETURN FROM ESSENTIAL CHILLERS ISOLATION

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)

- For area walk-by checklist see AWC-028

Evaluated by: Brian Pace Date: 10-15-2012

Dinesh Patel 10-15-2012

Sheet 4 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-025

Equipment ID No. CS MVAAA125-B -OR- 2CS-F306B Equip. Class Pneumatic-Operated Valves

Equipment Description CCW HEADER B RETURN FROM ESSENTIAL CHILLERS ISOLATION

Photographs

Note: Valve CS MVAAA125-B

Note: Flexible conduits

Sheet 1 of 4

Status: Y☐ N☒ U☐

Seismic Walkdown Checklist (SWC) SWEL1-026

Equipment ID No. CVCMVAAA209 Equip. Class[1] PNEUMATIC-OPERATED VALVES

-OR-

2CH-F1529A/B

Equipment Description CHARGING HEADER ISOLATION

Location: Bldg. RB Floor El. +21 Room, Area ROOM 225B, COL 10A, LINE M

Manufacturer, Model, Etc. (optional but recommended) WKM DIV/ACF IND INC, M1

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.

Sheet 2 of 4

Status: Y☐ N☒ U☐

Seismic Walkdown Checklist (SWC) SWEL1-026

Equipment ID No. CVCMVAAA209 Equip. Class PNEUMATIC-OPERATED VALVES

-OR-

2CH-F1529A/B

Equipment Description CHARGING HEADER ISOLATION

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☐

Sheet 3 of 4

Status: Y☐ N☒ U☐

Seismic Walkdown Checklist (SWC) SWEL1-026

Equipment ID No. CVCMVAAA209 Equip. Class PNEUMATIC-OPERATED VALVES

-OR-

2CH-F1529A/B

Equipment Description CHARGING HEADER ISOLATION

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: _____ Date: _____

_____ _____

Sheet 4 of 4

Status: Y☐ N☒ U☐

Seismic Walkdown Checklist (SWC) SWEL1-026

Equipment ID No. CVCMVAAA209 Equip. Class PNEUMATIC-OPERATED VALVES

-OR-

2CH-F1529A/B

Equipment Description CHARGING HEADER ISOLATION

Photographs

Note:	**Note:**

Sheet 1 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-027

Equipment ID No. EFWMVAAA223-B Equip. Class[1] Pneumatic-Operated Valves

-OR- 2FW-V854B

Equipment Description EMERGENCY FEEDWATER HDR B TO SG2 BACKUP FLOW CNTRL

Location: Bldg. RB Floor El. +46 Room, Area ROOM R2, COL 11A, LINE N

Manufacturer, Model, Etc. (optional but recommended) MASONEILAN INTL INC, 4740512

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 component

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☒ N☐ U☐ N/A☐
   - In-line component
   - Valve hardware is covered by insulation. However, anchorage is acceptable based on Inservice Testing (Program Section No. SEP-WF3-IST-3).

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☒ N☐ U☐ N/A☐
   - In-line component
   - Valve hardware is covered by insulation. However, anchorage is acceptable based on Inservice Testing (Program Section No. SEP-WF3-IST-3)

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☐ N☐ U☐ N/A☒
   - In-line component

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

Sheet 2 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-027

Equipment ID No. EFWMVAAA223-B Equip. Class Pneumatic-Operated Valves

-OR- 2FW-V854B

Equipment Description EMERGENCY FEEDWATER HDR B TO SG2 BACKUP FLOW CNTRL

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 component

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

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☐

Sheet 3 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-027

Equipment ID No. EFWMVAAA223-B Equip. Class Pneumatic-Operated Valves

-OR- 2FW-V854B

Equipment Description EMERGENCY FEEDWATER HDR B TO SG2 BACKUP FLOW CNTRL

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)

- Mild corrosion on valve diaphragm, diaphragm bolts, and actuator; no seismic concern
- Corrosion on bolt hole on top of valve; no seismic concern
- CR-WF3-2012-05275 and WR-287627 initiated to address these conditions.
- For area walk-by checklist see AWC-044

Evaluated by: Natalie George Date: 10/12/12

Chu-Chieh Lin 10/12/12

Sheet 4 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-027

Equipment ID No. EFWMVAAA223-B Equip. Class Pneumatic-Operated Valves

-OR- 2FW-V854B

Equipment Description EMERGENCY FEEDWATER HDR B TO SG2 BACKUP FLOW CNTRL

Photographs

Note: Mild corrosion on valve diaphragm, diaphragm bolts, and actuator

Note: Corrosion on bolt hole on top of valve

Sheet 1 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-028

Equipment ID No. EFWMVAAA229-B Equip. Class[1] Pneumatic-Operated Valves

-OR- 2FW-V849A

Equipment Description EMERGENCY FEEDWATER TO SG2 BACKUP ISOLATION

Location: Bldg. RB Floor El. +46 Room, Area ROOM R2 COL 11A LINE N

Manufacturer, Model, Etc. (optional but recommended) MASONEILAN INTL INC, 4740411

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 component

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☒ N☐ U☐ N/A☐
   - In-line component
   - Valve hardware is covered by insulation. However, anchorage is acceptable based on Inservice Testing (Program Section No. SEP-WF3-IST-3)

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☒ N☐ U☐ N/A☐
   - In-line component
   - Valve hardware is covered by insulation. However, anchorage is acceptable based on Inservice Testing (Program Section No. SEP-WF3-IST-3)

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☐ N☐ U☐ N/A☒
   - In-line component

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

Sheet 2 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-028

Equipment ID No. EFWMVAAA229-B Equip. Class Pneumatic-Operated Valves

-OR- 2FW-V849A

Equipment Description EMERGENCY FEEDWATER TO SG2 BACKUP ISOLATION

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 component

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

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☐

Sheet 3 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-028

Equipment ID No. EFWMVAAA229-B Equip. Class Pneumatic-Operated Valves

-OR- 2FW-V849A

Equipment Description EMERGENCY FEEDWATER TO SG2 BACKUP ISOLATION

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)

- Corrosion on top of valve, in bolt hole; no seismic concern. CR-WF3-2012-05230 and WR-287245 initiated to address this condition.
- For area walk-by checklist see AWC-044

Evaluated by: Natalie George Date: 10/5/12

Chu-Chieh Lin 10/5/12

Sheet 4 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-028

Equipment ID No. EFWMVAAA229-B Equip. Class Pneumatic-Operated Valves

-OR- 2FW-V849A

Equipment Description EMERGENCY FEEDWATER TO SG2 BACKUP ISOLATION

Photographs

Note: Corrosion on top of valve, in bolt hole

Note: Corrosion on top of valve, in bolt hole

Sheet 1 of 4

Status: Y☐ N☒ U☐

Seismic Walkdown Checklist (SWC) SWEL1-029

Equipment ID No. HVCMVAAA205-A Equip. Class[1] PNEUMATIC-OPERATED VALVES

-OR-

D-17 (SA)

Equipment Description CONTROL ROOM EMER FLTR A INLET DAMPER

Location: Bldg. RAB Floor El. +46 Room, Area 314, LINE 8A, COL L

Manufacturer, Model, Etc. (optional but recommended) AMERICAN WARMING AND VENTIL, DAAP7402

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 component

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☐ N☐ U☒ N/A☐
   - In-line component
   - Covered by insulation

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☐ N☐ U☒ N/A☐
   - In-line component
   - Covered by insulation

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☐ N☐ U☐ N/A☒
   - In-line component

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

Sheet 2 of 4

Status: Y☐ N☒ U☐

Seismic Walkdown Checklist (SWC) SWEL1-029

Equipment ID No. HVCMVAAA205-A Equip. Class PNEUMATIC-OPERATED VALVES

-OR-

D-17 (SA)

Equipment Description CONTROL ROOM EMER FLTR A INLET DAMPER

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 component

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

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☐

Sheet 3 of 4

Status: Y☐ N☒ U☐

Seismic Walkdown Checklist (SWC) SWEL1-029

Equipment ID No. HVCMVAAA205-A Equip. Class PNEUMATIC-OPERATED VALVES

-OR-

D-17 (SA)

Equipment Description CONTROL ROOM EMER FLTR A INLET DAMPER

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)

- For area walk-by checklist see AWC-038

Evaluated by: Natalie George Date: 10/10/12

Chu-Chieh Lin 10/10/12

Sheet 4 of 4

Status: Y☐ N☒ U☐

Seismic Walkdown Checklist (SWC) SWEL1-029

Equipment ID No. HVCMVAAA205-A Equip. Class PNEUMATIC-OPERATED VALVES

-OR-

D-17 (SA)

Equipment Description CONTROL ROOM EMER FLTR A INLET DAMPER

Photographs

Note: Valve HVCMVAAA205-A

Note:

Sheet 1 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-030

Equipment ID No. HVRMVAAA107 Equip. Class[1] Pneumatic-Operated Valves

-OR- 3HV-B227B

Equipment Description RAB Normal Supply to CVAS Downstream Isolation

Location: Bldg. RAB Floor El. -35 Room, Area Room B17, Col. 8A, Line J

Manufacturer, Model, Etc. (optional but recommended) Fisher Controls Company, Inc., 9220-36IN

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 component

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☒ N☐ U☐ N/A☐
   - In-line component
   - Valve hardware is covered by insulation. However, anchorage is acceptable based on Inservice Testing (Program Section No. SEP-WF3-IST-3)

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☒ N☐ U☐ N/A☐
   - In-line component
   - Valve hardware is covered by insulation. However, anchorage is acceptable based on Inservice Testing (Program Section No. SEP-WF3-IST-3)

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☐ N☐ U☐ N/A☒
   - In-line component

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

Sheet 2 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-030

Equipment ID No. HVRMVAAA107 Equip. Class Pneumatic-Operated Valves

-OR- 3HV-B227B

Equipment Description RAB Normal Supply to CVAS Downstream Isolation

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 component

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

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☐

Sheet 3 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-030

Equipment ID No. HVRMVAAA107 Equip. Class Pneumatic-Operated Valves

-OR- 3HV-B227B

Equipment Description RAB Normal Supply to CVAS Downstream Isolation

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)

- For area walk-by checklist see AWC-003

Evaluated by: Natalie George Date: 10/10/12

Chu-Chieh Lin 10/10/12

Sheet 4 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-030

Equipment ID No. HVRMVAAA107 Equip. Class Pneumatic-Operated Valves

-OR- 3HV-B227B

Equipment Description RAB Normal Supply to CVAS Downstream Isolation

Photographs

Note: RAB Normal Supply to CVAS Downstream Isolation

Sheet 1 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-031

Equipment ID No. HVRMVAAA303-A Equip. Class[1] PNEUMATIC-OPERATED VALVES

-OR-

D-71 (SA)

Equipment Description CVAS FILTER TRAIN A MINIMUM FLOW INLET

Location: Bldg. RAB Floor El. +46 Room, Area 299, COL 6A, LINE J

Manufacturer, Model, Etc. (optional but recommended) AMERICAN WARMING &VENTIL, SO9018173

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 component

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☒ N☐ U☐ N/A☐
   - In-line component
   - All valve hardware is accounted for and in good condition

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☒ N☐ U☐ N/A☐
   - In-line component
   - All valve hardware is free of corrosion

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☐ N☐ U☐ N/A☒
   - In-line component

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

Sheet 2 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-031

Equipment ID No. HVRMVAAA303-A Equip. Class PNEUMATIC-OPERATED VALVES

-OR-

D-71 (SA)

Equipment Description CVAS FILTER TRAIN A MINIMUM FLOW INLET

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 component

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

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☐

Sheet 3 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-031

Equipment ID No. HVRMVAAA303-A Equip. Class PNEUMATIC-OPERATED VALVES

-OR-

D-71 (SA)

Equipment Description CVAS FILTER TRAIN A MINIMUM FLOW INLET

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)

- For area walk-by checklist see AWC-037

Evaluated by: Natalie George Date: 10/10/12

Chu-Chieh Lin 10/10/12

Sheet 4 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-031

Equipment ID No. HVRMVAAA303-A Equip. Class PNEUMATIC-OPERATED VALVES

-OR-

D-71 (SA)

Equipment Description CVAS FILTER TRAIN A MINIMUM FLOW INLET

Photographs

Note: CVAS Filter Train A Minimum Flow Inlet

Note: Example of valve hardware

Sheet 1 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-032

Equipment ID No. HVRMVAAA502-A Equip. Class[1] PNEUMATIC-OPERATED VALVES

-OR-

D-6(SA)

Equipment Description EG A ROOM EXHAUST FAN VARIABLE PITCH BLADE

Location: Bldg. RAB Floor El. +46 Room, Area 304, COL 2A, LINE J

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☒
   - Item not one of the 50% of SWEL items requiring anchorage configuration verification

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☒ N☐ U☐ N/A☐
   - Four bolts connecting damper to mounting bracket. This bracket is welded to motor housing. All hardware is in good condition.

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☒ N☐ U☐ N/A☐
   - No corrosion on any anchorage on the damper.

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☐ N☐ U☐ N/A☒
   - This damper is mounted to a steel bracket, which is welded to the fan motor housing. No concrete is present.

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

Sheet 2 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-032

Equipment ID No. HVRMVAAA502-A Equip. Class PNEUMATIC-OPERATED VALVES

-OR-

D-6(SA)

Equipment Description EG A ROOM EXHAUST FAN VARIABLE PITCH BLADE

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☒
   - Item not one of the 50% of SWEL items requiring anchorage configuration verification
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☒ N☐ U☐
   - Questions 2 and 3 satisfied ; no seismic concern

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☐
   - Flexible conduit attached.

10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y☒ N☐ U☐
    - Questions 7-9 satisfied

Sheet 3 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-032

Equipment ID No. HVRMVAAA502-A Equip. Class PNEUMATIC-OPERATED VALVES

-OR-

D-6(SA)

Equipment Description EG A ROOM EXHAUST FAN VARIABLE PITCH BLADE

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)

- See AWC-036 for Area Walk-By Checklist

Evaluated by: Dinesh Patel Date: 10-08-2012

Brian Pace 10-08-2012

Sheet 4 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-032

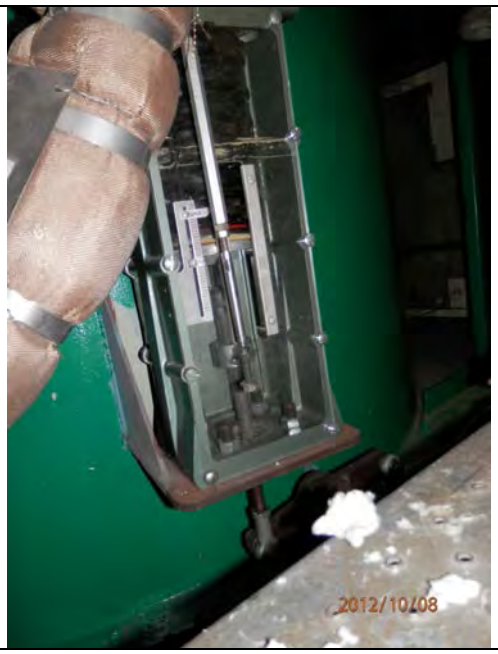
Equipment ID No. HVRMVAAA502-A Equip. Class PNEUMATIC-OPERATED VALVES

-OR-

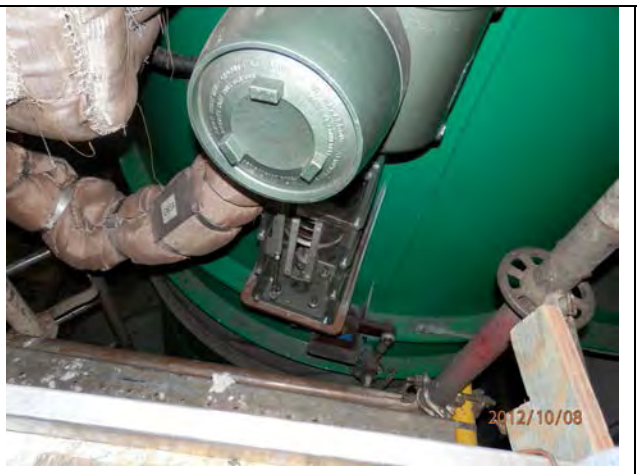
D-6(SA)

Equipment Description EG A ROOM EXHAUST FAN VARIABLE PITCH BLADE

Photographs



Note: HVRMVAAA502-A



Note: HBRMVAAA502-A

Sheet 1 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-033

Equipment ID No. IA MVAAA909 Equip. Class[1] PNEUMATIC-OPERATED VALVES

-OR-

2IA-F601A/B

Equipment Description IA ISOL TO CONTAINMENT @ PEN #9

Location: Bldg. RB Floor El. -4 Room, Area ROOM B100, COL 10A, LINE M

Manufacturer, Model, Etc. (optional but recommended) WKM DIV/ACF IND INC, 70281DRT

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 component

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☒ N☐ U☐ N/A☐
   - In-line component
   - All valve hardware accounted for and in good condition

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☒ N☐ U☐ N/A☐
   - In-line component
   - All valve hardware is free of corrosion, painted

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☐ N☐ U☐ N/A☒
   - In-line component

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

Sheet 2 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-033

Equipment ID No. IA MVAAA909 Equip. Class PNEUMATIC-OPERATED VALVES

-OR-

2IA-F601A/B

Equipment Description IA ISOL TO CONTAINMENT @ PEN #9

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 component

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

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☐

Sheet 3 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-033

Equipment ID No. IA MVAAA909 Equip. Class PNEUMATIC-OPERATED VALVES

-OR-

2IA-F601A/B

Equipment Description IA ISOL TO CONTAINMENT @ PEN #9

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)

- For area walk-by checklist see AWC-030

Evaluated by: Natalie George Date: 10/5/12

Chu-Chieh Lin 10/5/12

Sheet 4 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-033

Equipment ID No. IA MVAAA909 Equip. Class PNEUMATIC-OPERATED VALVES

-OR-

2IA-F601A/B

Equipment Description IA ISOL TO CONTAINMENT @ PEN #9

Photographs

Note: Instrument air isolation to containment at penetration #9

Note: Valve hardware

Sheet 1 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-034

Equipment ID No. MS MVAAA116-A Equip. Class[1] Pneumatic-Operated Valves

-OR- 2MS-PM629A

Equipment Description STEAM GENERATOR 1 ATMOSPHERE DUMP VALVE

Location: Bldg. RB Floor El. +46 Room, Area ROOM R1 COL 3A LINE M

Manufacturer, Model, Etc. (optional but recommended) CONTROL COMPONENTS INTERN, M3A610X8BW12BW31MT31

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 component

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☒ N☐ U☐ N/A☐
   - In-line component
   - Valve hardware is covered by insulation. However, anchorage is acceptable based on Inservice Testing (Program Section No. SEP-WF3-IST-3)

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☒ N☐ U☐ N/A☐
   - In-line component
   - Valve hardware is covered by insulation. However, anchorage is acceptable based on Inservice Testing (Program Section No. SEP-WF3-IST-3)

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☐ N☐ U☐ N/A☒
   - In-line component

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

Sheet 2 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-034

Equipment ID No. MS MVAAA116-A Equip. Class Pneumatic-Operated Valves

-OR- 2MS-PM629A

Equipment Description STEAM GENERATOR 1 ATMOSPHERE 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☒
   - In-line component

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

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☐

Sheet 3 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-034

Equipment ID No. MS MVAAA116-A Equip. Class Pneumatic-Operated Valves

-OR- 2MS-PM629A

Equipment Description STEAM GENERATOR 1 ATMOSPHERE 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)

- Mild corrosion on valve; no seismic concern. CR-WF3-2012-05230 and WR-287246 initiated to address this condition.
- For area walk-by checklist see AWC-042

Evaluated by: Natalie George Date: 10/5/12

Chu-Chieh Lin 10/5/12

Sheet 4 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-034

Equipment ID No. MS MVAAA116-A Equip. Class Pneumatic-Operated Valves

-OR- 2MS-PM629A

Equipment Description STEAM GENERATOR 1 ATMOSPHERE DUMP VALVE

Photographs

Note: Steam Generator 1 Atmosphere Dump Valve

Note: Mild corrosion on valve

Sheet 1 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-035

Equipment ID No. MS MVAAA124-B Equip. Class[1] Pneumatic-Operated Valves

-OR- 2MS-V604B

Equipment Description MAIN STEAM ISOLATION VALVE 2

Location: Bldg. RB Floor El. +46 Room, Area ROOM R2 COL 10A LINE L

Manufacturer, Model, Etc. (optional but recommended) WKM DIV/ACF IND INC, D2PRSMSIV

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 component

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☒ N☐ U☐ N/A☐
   - In-line component
   - Valve hardware is covered by insulation. However, anchorage is acceptable based on Inservice Inspection and Testing (Program Section No. SEP-WF3-IST-3)

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☒ N☐ U☐ N/A☐
   - In-line component
   - Valve hardware is covered by insulation. However, anchorage is acceptable based on Inservice Inspection and Testing (Program Section No. SEP-WF3-IST-3)

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☐ N☐ U☐ N/A☒
   - In-line component

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

Sheet 2 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-035

Equipment ID No. MS MVAAA124-B Equip. Class Pneumatic-Operated Valves

-OR- 2MS-V604B

Equipment Description MAIN STEAM ISOLATION VALVE 2

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 component

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

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☐

Sheet 3 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-035

Equipment ID No. MS MVAAA124-B Equip. Class Pneumatic-Operated Valves

-OR- 2MS-V604B

Equipment Description MAIN STEAM ISOLATION VALVE 2

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)

- Mild corrosion on valve and bolts; no seismic concern. CR-WF3-2012-05275 and WR-287628 initiated to address this condition.
- An attached valve is leaking; see AWC-043 for more information
- For area walk-by checklist see AWC-043

Evaluated by: Natalie George Date: 10/12/12

Chu-Chieh Lin 10/12/12

Sheet 4 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-035

Equipment ID No. MS MVAAA124-B Equip. Class Pneumatic-Operated Valves

-OR- 2MS-V604B

Equipment Description MAIN STEAM ISOLATION VALVE 2

Photographs

Note: Main Steam Isolation Valve 2

Note: Mild corrosion on valve and bolts

Sheet 1 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-036

Equipment ID No. SI MVAAA129-B Equip. Class[1] Pneumatic-Operated Valves

-OR- 2SI-FM348B

Equipment Description LPSI Pump B Discharge Flow Control (Control of Shutdown Cooling Flow)

Location: Bldg. RAB Floor El. -35 Room, Area Room B16, Col. 9A, Line K

Manufacturer, Model, Etc. (optional but recommended) Fisher Controls Company, Inc., Model 7711

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 component

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☒ N☐ U☐ N/A☐
   - In-line component
   - Valve hardware is covered by insulation. However, anchorage is acceptable based on Inservice Testing (Program Section No. SEP-WF3-IST-3)

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☒ N☐ U☐ N/A☐
   - In-line component
   - Valve hardware is covered by insulation. However, anchorage is acceptable based on Inservice Testing (Program Section No. SEP-WF3-IST-3)

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☐ N☐ U☐ N/A☒
   - In-line component

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

Sheet 2 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-036

Equipment ID No. SI MVAAA129-B Equip. Class Pneumatic-Operated Valves

-OR- 2SI-FM348B

Equipment Description LPSI Pump B Discharge Flow Control (Control of Shutdown Cooling Flow)

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 component

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

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☐

Sheet 3 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-036

Equipment ID No. SI MVAAA129-B Equip. Class Pneumatic-Operated Valves

-OR- 2SI-FM348B

Equipment Description LPSI Pump B Discharge Flow Control (Control of Shutdown Cooling Flow)

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)

- For area walk-by see AWC-001

Evaluated by: Dinesh Patel Date: 10/2/12

Natalie George 10/2/12

Sheet 4 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-036

Equipment ID No. SI MVAAA129-B Equip. Class Pneumatic-Operated Valves

-OR- 2SI-FM348B

Equipment Description LPSI Pump B Discharge Flow Control (Control of Shutdown Cooling Flow)

Photographs

Note: LPSI Pump B Discharge Flow Control

Sheet 1 of 4

Status: Y☐ N☒ U☐

Seismic Walkdown Checklist (SWC) SWEL1-037

Equipment ID No. SI MVAAA307-A Equip. Class[1] Pneumatic-Operated Valves

-OR- 2SI-F1564TK1A

Equipment Description Safety Injection Tank 1A Fill/Drain

Location: Bldg. RCB Floor El. +35 Room, Area Room 421, Col. 17

Manufacturer, Model, Etc. (optional but recommended) Fisher Controls Company, Inc., DBQ

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.

Sheet 2 of 4

Status: Y☐ N☒ U☐

Seismic Walkdown Checklist (SWC) SWEL1-037

Equipment ID No. SI MVAAA307-A Equip. Class Pneumatic-Operated Valves

-OR- 2SI-F1564TK1A

Equipment Description Safety Injection Tank 1A Fill/Drain

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☐

Sheet 3 of 4

Status: Y☐ N☒ U☐

Seismic Walkdown Checklist (SWC) SWEL1-037

Equipment ID No. SI MVAAA307-A Equip. Class Pneumatic-Operated Valves

-OR- 2SI-F1564TK1A

Equipment Description Safety Injection Tank 1A Fill/Drain

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: _____ Date: _____

_____ _____

Sheet 4 of 4

Status: Y☐ N☒ U☐

Seismic Walkdown Checklist (SWC) SWEL1-037

Equipment ID No. SI MVAAA307-A Equip. Class Pneumatic-Operated Valves

-OR- 2SI-F1564TK1A

Equipment Description Safety Injection Tank 1A Fill/Drain

Photographs

Note:	**Note:**

Sheet 1 of 4

Status: Y☐ N☒ U☐

Seismic Walkdown Checklist (SWC) SWEL1-038

Equipment ID No. SI MVAAA405-B Equip. Class[1] Pneumatic-Operated Valves

-OR- 1SI-V1501B

Equipment Description RC Loop 1 SDC Suction Inside Containment Isolation

Location: Bldg. RCB Floor El. +21 Room, Area Room 421, Col. 17

Manufacturer, Model, Etc. (optional but recommended) Lunkenheimer/Condec, 2490X47

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.

Sheet 2 of 4

Status: Y☐ N☒ U☐

Seismic Walkdown Checklist (SWC) SWEL1-038

Equipment ID No. SI MVAAA405-B Equip. Class Pneumatic-Operated Valves

-OR- 1SI-V1501B

Equipment Description RC Loop 1 SDC Suction Inside Containment Isolation

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☐

Sheet 3 of 4

Status: Y☐ N☒ U☐

Seismic Walkdown Checklist (SWC) SWEL1-038

Equipment ID No. SI MVAAA405-B Equip. Class Pneumatic-Operated Valves

-OR- 1SI-V1501B

Equipment Description RC Loop 1 SDC Suction Inside Containment Isolation

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: _____ Date: _____

Sheet 4 of 4

Status: Y☐ N☒ U☐

Seismic Walkdown Checklist (SWC) SWEL1-038

Equipment ID No. SI MVAAA405-B Equip. Class Pneumatic-Operated Valves

-OR- 1SI-V1501B

Equipment Description RC Loop 1 SDC Suction Inside Containment Isolation

Photographs

Note:	**Note:**

Sheet 1 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-039

Equipment ID No. SVSMVAAA201-B Equip. Class[1] Pneumatic-Operated Valves

-OR- D-50(SB)

Equipment Description AH-30 SB Inlet Damper D-50(SB)

Location: Bldg. RAB Floor El. +7 Room, Area Col. 10A, Line K

Manufacturer, Model, Etc. (optional but recommended) American Warming & Ventilation, DAAP7402

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☒
   - Item not one of the 50% of SWEL items requiring anchorage configuration verification

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☒ N☐ U☐ N/A☐
   - Bracket mounted to damper is in good condition.

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☒ N☐ U☐ N/A☐
   - No corrosion on any anchorage.

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☐ N☐ U☐ N/A☒
   - This component is not mounted to concrete.

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

Sheet 2 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-039

Equipment ID No. SVSMVAAA201-B Equip. Class Pneumatic-Operated Valves

-OR- D-50(SB)

Equipment Description AH-30 SB Inlet Damper D-50(SB)

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☒
   - Item not one of the 50% of SWEL items requiring anchorage configuration verification
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☒ N☐ U☐
   - Questions 2 and 3 satisfied; no seismic concern

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☐
    - Questions 7-9 satisfied

Sheet 3 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-039

Equipment ID No. SVSMVAAA201-B Equip. Class Pneumatic-Operated Valves

-OR- D-50(SB)

Equipment Description AH-30 SB Inlet Damper D-50(SB)

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)

- For area walk-by checklist see AWC-015

Evaluated by: Dinesh Patel Date: 10/2/12

Brian Pace 10/2/12

Sheet 4 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-039

Equipment ID No. SVSMVAAA201-B -OR- D-50(SB) Equip. Class Pneumatic-Operated Valves

Equipment Description AH-30 SB Inlet Damper D-50(SB)

Photographs

Note: AH-30 SB Inlet Damper D-50(SB)

Sheet 1 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-040

Equipment ID No. BAMMVAAA113-A Equip. Class[1] Motor-Operated and Solenoid-Operated Valves

-OR- 3CH-V106A

Equipment Description Boric Acid Makeup Tank A Gravity Feed Valve

Location: Bldg. RAB Floor El. -35 Room, Area Room B38, Col. 5A, Line H

Manufacturer, Model, Etc. (optional but recommended) William Powell Company, 1523-SS-WE-3"

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 component

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☒ N☐ U☐ N/A☐
   - Valve hardware accounted for and in good condition

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☒ N☐ U☐ N/A☐
   - No corrosion on valves hardware

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☐ N☐ U☐ N/A☒
   - In-line component

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

Sheet 2 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-040

Equipment ID No. BAMMVAAA113-A Equip. Class Motor-Operated and Solenoid-Operated Valves

-OR- 3CH-V106A

Equipment Description Boric Acid Makeup Tank A Gravity Feed 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 component, N/A; no seismic concerns

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☐
   - Attached conduits are flexible

10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y☒ N☐ U☐
    - Questions 7-9 satisfied

Sheet 3 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-040

Equipment ID No. BAMMVAAA113-A Equip. Class Motor-Operated and Solenoid-Operated Valves

-OR- 3CH-V106A

Equipment Description Boric Acid Makeup Tank A Gravity Feed 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)

- Oil leaking from actuator on to top of flange; no seismic concern. CR-WF3-2011-00023 and WR-222768 previously written to address this condition.
- For area walk-by checklist see AWC-005

Evaluated by: Dinesh Patel Date: 10/3/12

Brian Pace 10/3/12

Sheet 4 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-040

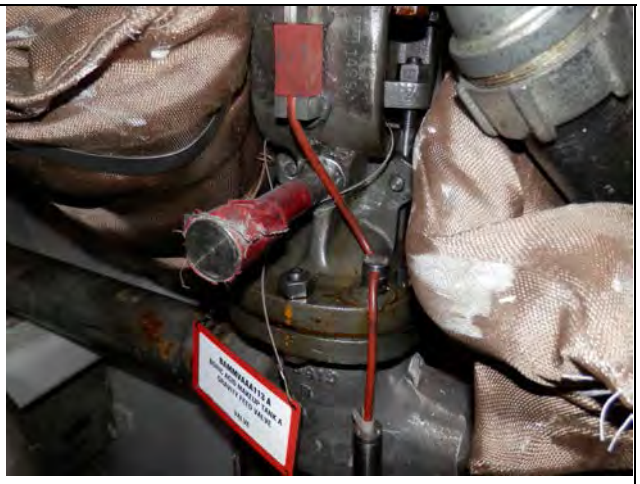
Equipment ID No. BAMMVAAA113-A Equip. Class Motor-Operated and Solenoid-Operated Valves

-OR- 3CH-V106A

Equipment Description Boric Acid Makeup Tank A Gravity Feed Valve

Photographs

Note: Boric Acid Makeup Tank A Gravity Feed Valve



Note: Oil leaking from actuator on to top of flange

Sheet 1 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-041

Equipment ID No. CARMVAAA204-A
-OR-
2HV-B167A

Equip. Class[1] MOTOR-OPERATED AND SOLENOID-OPERATED VALVES

Equipment Description CAR EXHAUST HEADER A DISCHARGE

Location: Bldg. RAB Floor El. +46 Room, Area 299, COL 5A, LINE L

Manufacturer, Model, Etc. (optional but recommended) FISHER CONTROLS CO INC, 9220-4IN

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 component

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☒ N☐ U☐ N/A☐
   - In-line component
   - All valve hardware accounted for and in good condition

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☒ N☐ U☐ N/A☐
   - In-line component
   - Mild corrosion on valve hardware; no seismic concern

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☐ N☐ U☐ N/A☒
   - In-line component

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

Sheet 2 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-041

Equipment ID No. CARMVAAA204-A
-OR-
2HV-B167A

Equip. Class MOTOR-OPERATED AND SOLENOID-OPERATED VALVES

Equipment Description CAR EXHAUST HEADER A DISCHARGE

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 component

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

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☐

Sheet 3 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-041

Equipment ID No. CARMVAAA204-A

-OR-

2HV-B167A

Equip. Class MOTOR-OPERATED AND SOLENOID-OPERATED VALVES

Equipment Description CAR EXHAUST HEADER A DISCHARGE

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)

- For area walk-by checklist see AWC-037

Evaluated by: Natalie George Date: 10/10/12

Chu-Chieh Lin 10/10/12

Sheet 4 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-041

Equipment ID No. CARMVAAA204-A
-OR-
2HV-B167A

Equip. Class MOTOR-OPERATED AND SOLENOID-OPERATED VALVES

Equipment Description CAR EXHAUST HEADER A DISCHARGE

Photographs

Note: CAR Exhaust Header A Discharge

Note: Valve hardware

Sheet 1 of 5

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-042

Equipment ID No. CHWMVAAA900

-OR-

3AC-TM189B

Equip. Class[1] MOTOR-OPERATED AND SOLENOID-OPERATED VALVES

Equipment Description SWGR MAIN SVSMAHU0001-B CHW OUTLET FCV

Location: Bldg. RAB Floor El. +46 Room, Area 323, COL 12A, LINE J

Manufacturer, Model, Etc. (optional but recommended) MASONEILAN INTL INC, 5O20721

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☒
   - This is an in-line component.

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☒ N☐ U☐ N/A☐
   - This is an in-line component.
   - Valve hardware is covered by insulation. However, anchorage is acceptable based on Inservice Testing (Program Section No. SEP-WF3-IST-3)

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☒ N☐ U☐ N/A☐
   - This is an in-line component.
   - Valve hardware is covered by insulation. However, anchorage is acceptable based on Inservice Testing (Program Section No. SEP-WF3-IST-3)

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☐ N☐ U☐ N/A☒
   - This is an in-line component.

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

Sheet 2 of 5

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-042

Equipment ID No. CHWMVAAA900 -OR- 3AC-TM189B

Equip. Class MOTOR-OPERATED AND SOLENOID-OPERATED VALVES

Equipment Description SWGR MAIN SVSMAHU0001-B CHW OUTLET FCV

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☒
   - This is an in-line component.

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☒ N☐ U☐
   - This is an in-line component, 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☐
   - Overhead lights are uncovered. Fixtures are properly braced, and falling bulbs are determined to not have any adverse effect on equipment.

9. Do attached lines have adequate flexibility to avoid damage? Y☒ N☐ U☐ N/A☐
   - Two flexible lines are attached.

10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y☒ N☐ U☐
    - Questions 7-9 satisfied.

Sheet 3 of 5

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-042

Equipment ID No. CHWMVAAA900

-OR-

3AC-TM189B

Equip. Class MOTOR-OPERATED AND SOLENOID-OPERATED VALVES

Equipment Description SWGR MAIN SVSMAHU0001-B CHW OUTLET FCV

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)

- There is an oil leak on the valve, but it is already addressed by WO#273364 and CR#11-2303; no seismic concern
- For area walk-by checklist see AWC-039

Evaluated by: Dinesh Patel Date: 10-09-2012

Brian Pace 10-09-2012

Sheet 4 of 5

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-042

Equipment ID No. CHWMVAAA900

-OR-

3AC-TM189B

Equip. Class MOTOR-OPERATED AND SOLENOID-OPERATED VALVES

Equipment Description SWGR MAIN SVSMAHU0001-B CHW OUTLET FCV

Photographs

Note: CHWMVAAA900

Note: Oil leak. Address with WO and CR.

Sheet 5 of 5

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-042

Equipment ID No. CHWMVAAA900

-OR-

3AC-TM189B

Equip. Class MOTOR-OPERATED AND SOLENOID-OPERATED VALVES

Equipment Description SWGR MAIN SVSMAHU0001-B CHW OUTLET FCV

Note: Flexible conduits attached.

Sheet 1 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-043

Equipment ID No. EGAISV0411-B Equip. Class[1] Motor-Operated and Solenoid-Operated Valves

-OR- 20FO-2

Equipment Description EG B EMERGENCY MODE FUEL CONTROL #2

Location: Bldg. RAB Floor El. +21 Room, Area Room 222, Col. 5A, Line J

Manufacturer, Model, Etc. (optional but recommended) ASCO – Automatic Switch Co., HT8302B25G

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☐
   - All hardware is accounted for and in good condition

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☒ N☐ U☐ N/A☐
   - No corrosion on anchorage

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☐ N☐ U☐ N/A☒
   - Supported on a bracket on top of emergency diesel generator

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

Sheet 2 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-043

Equipment ID No. EGAISV0411-B Equip. Class Motor-Operated and Solenoid-Operated Valves

-OR- 20FO-2

Equipment Description EG B EMERGENCY MODE FUEL CONTROL #2

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☐
   - No seismic concern

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☐

Sheet 3 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-043

Equipment ID No. EGAISV0411-B Equip. Class Motor-Operated and Solenoid-Operated Valves

-OR- 20FO-2

Equipment Description EG B EMERGENCY MODE FUEL CONTROL #2

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)

- For area walk-by checklist see AWC-0025

Evaluated by: Dinesh Patel Date: 10/2/12

Natalie George 10/2/12

Sheet 4 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-043

Equipment ID No. EGAISV0411-B -OR- 20FO-2

Equip. Class Motor-Operated and Solenoid-Operated Valves

Equipment Description EG B EMERGENCY MODE FUEL CONTROL #2

Photographs

Note: EG B EMERGENCY MODE FUEL CONTROL #2, EGAISV0411-B

Sheet 1 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-044

Equipment ID No. MS MVAAA120-A -OR- 2MS-V670 Equip. Class[1] Motor-Operated and Solenoid-Operated Valves

Equipment Description MSIV 1 UPSTREAM DRIP POT NORMAL DRAIN

Location: Bldg. RB Floor El. +46 Room, Area ROOM R1 COL 3A LINE L

Manufacturer, Model, Etc. (optional but recommended) VELAN VALVE CORP, W08-2074X-02TN

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☐
   - Valve flanges and bolts are covered by insulation
   - Valve is supported from floor; all support hardware is accounted for and in good condition
   - Valve hardware is covered by insulation. However, anchorage is acceptable based on Inservice Testing (Program Section No. SEP-WF3-IST-3)

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☒ N☐ U☐ N/A☐
   - Valve flanges and bolts are covered by insulation
   - Valve is supported from floor; all support hardware is free of corrosion
   - Valve hardware is covered by insulation. However, anchorage is acceptable based on Inservice Testing (Program Section No. SEP-WF3-IST-3)

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☒ N☐ U☐ N/A☐
   - Valve is supported from floor; no cracks in concrete surrounding support

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

Sheet 2 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-044

Equipment ID No. MS MVAAA120-A -OR- 2MS-V670 Equip. Class Motor-Operated and Solenoid-Operated Valves

Equipment Description MSIV 1 UPSTREAM DRIP POT NORMAL DRAIN

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☐
   - No seismic concerns

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☐

Sheet 3 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-044

Equipment ID No. MS MVAAA120-A

-OR- 2MS-V670

Equip. Class Motor-Operated and Solenoid-Operated Valves

Equipment Description MSIV 1 UPSTREAM DRIP POT NORMAL DRAIN

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)

- Mild corrosion; no seismic concern. CR-WF3-2012-05230 and WR-287250 initiated to address this condition.
- For area walk-by checklist see AWC-042

Evaluated by: Natalie George Date: 10/5/12

Chu-Chieh Lin 10/5/12

Sheet 4 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-044

Equipment ID No. MS MVAAA120-A
-OR- 2MS-V670

Equip. Class Motor-Operated and Solenoid-Operated Valves

Equipment Description MSIV 1 UPSTREAM DRIP POT NORMAL DRAIN

Photographs

Note: MSIV 1 upstream drip pot normal drain

Note: Mild corrosion

Sheet 1 of 5

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-045

Equipment ID No. MS MVAAA401-A -OR- 2MS-V611A

Equip. Class[1] Motor-Operated and Solenoid-Operated Valves

Equipment Description EFW PUMP AB TURBINE STEAM SUPPLY FROM S/G 1

Location: Bldg. RB Floor El. +46 Room, Area ROOM 300 COL 3A LINE M

Manufacturer, Model, Etc. (optional but recommended) ANCHOR/DARLING VALVE CO, 447425

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 component

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☒ N☐ U☐ N/A☐
   - In-line component
   - Valve hardware is covered by insulation. However, anchorage is acceptable based on Inservice Testing (Program Section No. SEP-WF3-IST-3)

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☒ N☐ U☐ N/A☐
   - In-line component
   - Valve hardware is covered by insulation. However, anchorage is acceptable based on Inservice Testing (Program Section No. SEP-WF3-IST-3)

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☐ N☐ U☐ N/A☒
   - In-line component

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

Sheet 2 of 5

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-045

Equipment ID No. MS MVAAA401-A -OR- 2MS-V611A

Equip. Class Motor-Operated and Solenoid-Operated Valves

Equipment Description EFW PUMP AB TURBINE STEAM SUPPLY FROM S/G 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☒
   - In-line component

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

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☐

Sheet 3 of 5

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-045

Equipment ID No. MS MVAAA401-A

-OR- 2MS-V611A

Equip. Class Motor-Operated and Solenoid-Operated Valves

Equipment Description EFW PUMP AB TURBINE STEAM SUPPLY FROM S/G 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)

- Mild corrosion on valve; no seismic concern. CR-WF3-2012-05230 and WR-287251 initiated to address this condition.
- Jacketing separated, potential insulation damage; no seismic concern
- For area walk-by checklist see AWC-042

Evaluated by: Natalie George Date: 10/5/12

Chu-Chieh Lin 10/5/12

Sheet 4 of 5

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-045

Equipment ID No. MS MVAAA401-A
-OR- 2MS-V611A

Equip. Class Motor-Operated and Solenoid-Operated Valves

Equipment Description EFW PUMP AB TURBINE STEAM SUPPLY FROM S/G 1

Photographs

Note: Mild corrosion

Note: Jacketing separated

Sheet 5 of 5

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-045

Equipment ID No. MS MVAAA401-A
-OR- 2MS-V611A

Equip. Class Motor-Operated and Solenoid-Operated Valves

Equipment Description EFW PUMP AB TURBINE STEAM SUPPLY FROM S/G 1

Picture 3
Note: Valve MS MVAAA401

Sheet 1 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-046

Equipment ID No. NG ISV0809 -OR- 3NG-E671-5 Equip. Class[1] Motor-Operated and Solenoid-Operated Valves

Equipment Description NITROGEN ACCUMULATOR #5 OUTLET STOP

Location: Bldg. RB Floor El. +46 Room, Area ROOM R1 COL 2AZ LINE M

Manufacturer, Model, Etc. (optional but recommended) TARGET ROCK CORP, 81B-003

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☐
   - Welds accounted for and in good condition

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☒ N☐ U☐ N/A☐
   - No corrosion to welds

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☐ N☐ U☐ N/A☒
   - In-line component

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

Sheet 2 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-046

Equipment ID No. NG ISV0809 Equip. Class Motor-Operated and Solenoid-Operated Valves

-OR- 3NG-E671-5

Equipment Description NITROGEN ACCUMULATOR #5 OUTLET STOP

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 component, 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☐

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☐

Sheet 3 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-046

Equipment ID No. NG ISV0809 Equip. Class Motor-Operated and Solenoid-Operated Valves

-OR- 3NG-E671-5

Equipment Description NITROGEN ACCUMULATOR #5 OUTLET STOP

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)

- Mild corrosion; no seismic concern
- For area walk-by checklist see AWC-042

Evaluated by: Natalie George Date: 10/5/12

Chu-Chieh Lin 10/5/12

Sheet 4 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-046

Equipment ID No. NG ISV0809

-OR- 3NG-E671-5

Equip. Class Motor-Operated and Solenoid-Operated Valves

Equipment Description NITROGEN ACCUMULATOR #5 OUTLET STOP

Photographs

Note: Nitrogen Accumulator #5

Note: Mild corrosion

Sheet 1 of 4

Status: Y☐ N☒ U☐

Seismic Walkdown Checklist (SWC) SWEL1-047

Equipment ID No. RC ISV1014 Equip. Class[1] Motor-Operated and Solenoid-Operated Valves

-OR- 2RC-E2560B

Equipment Description Reactor Vessel Vent to Quench Tank Isolation

Location: Bldg. RCB Floor El. +46 Room, Area Room 421

Manufacturer, Model, Etc. (optional but recommended) Target Rock Corporation, 96Q-001

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.

Sheet 2 of 4

Status: Y☐ N☒ U☐

Seismic Walkdown Checklist (SWC) SWEL1-047

Equipment ID No. RC ISV1014 Equip. Class Motor-Operated and Solenoid-Operated Valves

-OR- 2RC-E2560B

Equipment Description Reactor Vessel Vent to Quench Tank Isolation

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☐

Sheet 3 of 4

Status: Y☐ N☒ U☐

Seismic Walkdown Checklist (SWC) SWEL1-047

Equipment ID No. RC ISV1014 Equip. Class Motor-Operated and Solenoid-Operated Valves

-OR- 2RC-E2560B

Equipment Description Reactor Vessel Vent to Quench Tank Isolation

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: _____ Date: _____

_____ _____

Sheet 4 of 4

Status: Y☐ N☒ U☐

Seismic Walkdown Checklist (SWC) SWEL1-047

Equipment ID No. RC ISV1014 Equip. Class Motor-Operated and Solenoid-Operated Valves

-OR- 2RC-E2560B

Equipment Description Reactor Vessel Vent to Quench Tank Isolation

Photographs

Note:	**Note:**

Sheet 1 of 4

Status: Y☐ N☒ U☐

Seismic Walkdown Checklist (SWC) SWEL1-048

Equipment ID No. RC ISV3184 Equip. Class[1] Motor-Operated and Solenoid-Operated Valves

-OR- 2RC-E2557A

Equipment Description Pressurizer Vent to Quench Tank

Location: Bldg. RCB Floor El. +46 Room, Area Room 421

Manufacturer, Model, Etc. (optional but recommended) Target Rock Corporation, 96Q-001

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.

Sheet 2 of 4

Status: Y☐ N☒ U☐

Seismic Walkdown Checklist (SWC) SWEL1-048

Equipment ID No. RC ISV3184 Equip. Class Motor-Operated and Solenoid-Operated Valves

-OR- 2RC-E2557A

Equipment Description Pressurizer Vent to Quench 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☐

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☐

Sheet 3 of 4

Status: Y☐ N☒ U☐

Seismic Walkdown Checklist (SWC) SWEL1-048

Equipment ID No. RC ISV3184 Equip. Class Motor-Operated and Solenoid-Operated Valves

-OR- 2RC-E2557A

Equipment Description Pressurizer Vent to Quench 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: _____ Date: _____

_____ _____

Sheet 4 of 4

Status: Y☐ N☒ U☐

Seismic Walkdown Checklist (SWC) SWEL1-048

Equipment ID No. RC ISV3184 Equip. Class Motor-Operated and Solenoid-Operated Valves

-OR- 2RC-E2557A

Equipment Description Pressurizer Vent to Quench Tank

Photographs

Note:	**Note:**

Sheet 1 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-049

Equipment ID No. SBVMVAAA110-A
-OR-
2HV-B158A

Equip. Class[1] MOTOR-OPERATED AND SOLENOID-OPERATED VALVES

Equipment Description SBV EXHAUST FAN A SUCTION ISOLATION

Location: Bldg. RAB Floor El. +46 Room, Area 299, COL 4A, LINE L

Manufacturer, Model, Etc. (optional but recommended) FISHER CONTROLS CO INC

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☒
   - This is an in-line component.

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☒ N☐ U☐ N/A☐
   - This is an in-line component.
   - Valve hardware attaching valve to duct is accounted for and in good condition

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☒ N☐ U☐ N/A☐
   - This is an in-line component
   - No corrosion on any valve hardware

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☐ N☐ U☐ N/A☒
   - This is an in-line component.

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

Sheet 2 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-049

Equipment ID No. SBVMVAAA110-A
-OR-
2HV-B158A

Equip. Class MOTOR-OPERATED AND SOLENOID-OPERATED VALVES

Equipment Description SBV EXHAUST FAN A SUCTION ISOLATION

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☒
   - This is an in-line component

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☒ N☐ U☐
   - This is an in-line component (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☐

9. Do attached lines have adequate flexibility to avoid damage? Y☒ N☐ U☐ N/A☐
   - Several flexible conduits attached

10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y☒ N☐ U☐
    - Questions 7-9 are satisfied

Sheet 3 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-049

Equipment ID No. SBVMVAAA110-A
-OR-
2HV-B158A

Equip. Class MOTOR-OPERATED AND SOLENOID-OPERATED VALVES

Equipment Description SBV EXHAUST FAN A SUCTION ISOLATION

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)

- See AWC-037 for Area Walk-By Checklist

Evaluated by: Dinesh Patel Date: 10-05-2012

Brian Pace 10-05-2012

Sheet 4 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-049

Equipment ID No. SBVMVAAA110-A
-OR-
2HV-B158A

Equip. Class MOTOR-OPERATED AND SOLENOID-OPERATED VALVES

Equipment Description SBV EXHAUST FAN A SUCTION ISOLATION

Photographs

Note: SBVMVAAA110-A

Note: Bolts connecting valve to duct in good condition

Sheet 1 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-050

Equipment ID No. SBVMVAAA112-B
-OR-
2HV-B183B

Equip. Class[1] MOTOR-OPERATED AND SOLENOID-OPERATED VALVES

Equipment Description SBV EXHAUST FAN B RECIRC CHECK

Location: Bldg. RAB Floor El. +46 Room, Area 299, COL 6A, LINE L

Manufacturer, Model, Etc. (optional but recommended) GPE CONTROLS, F240341

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 component

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☒ N☐ U☐ N/A☐
   - In-line component
   - All valve hardware is accounted for and in good condition

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☒ N☐ U☐ N/A☐
   - In-line component
   - Valve hardware is free of corrosion, painted

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☐ N☐ U☐ N/A☒
   - In-line component

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

Sheet 2 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-050

Equipment ID No. SBVMVAAA112-B
-OR-
2HV-B183B

Equip. Class MOTOR-OPERATED AND SOLENOID-OPERATED VALVES

Equipment Description SBV EXHAUST FAN B RECIRC CHECK

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 component

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

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☐

Sheet 3 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-050

Equipment ID No. SBVMVAAA112-B
-OR-
2HV-B183B

Equip. Class MOTOR-OPERATED AND SOLENOID-OPERATED VALVES

Equipment Description SBV EXHAUST FAN B RECIRC CHECK

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)

- For area walk-by checklist see AWC-037

Evaluated by: Natalie George Date: 10/15/12

Chu-Chieh Lin 10/15/12

Sheet 4 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-050

Equipment ID No. SBVMVAAA112-B
-OR-
2HV-B183B

Equip. Class MOTOR-OPERATED AND SOLENOID-OPERATED VALVES

Equipment Description SBV EXHAUST FAN B RECIRC CHECK

Photographs

Note: SBV Exhaust Fan B Recirc Check hardware

Sheet 1 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-051

Equipment ID No. SI ISV1161-A Equip. Class[1] Motor-Operated and Solenoid Operated Valves

-OR- 2SI-E1587A

Equipment Description LPSI Pump A Minimum Flow Recirc

Location: Bldg. RAB Floor El. -35 Room, Area Room B15, Col. 8A, Line K

Manufacturer, Model, Etc. (optional but recommended) Target Rock Corp., 81B-005

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 component

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☒ N☐ U☐ N/A☐
   - In-line component
   - Valve hardware is covered by insulation. However, anchorage is acceptable based on Inservice Testing (Program Section No. SEP-WF3-IST-3)

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☒ N☐ U☐ N/A☐
   - In-line component
   - Valve hardware is covered by insulation. However, anchorage is acceptable based on Inservice Testing (Program Section No. SEP-WF3-IST-3)

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☐ N☐ U☐ N/A☒
   - In-line component

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

Sheet 2 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-051

Equipment ID No. SI ISV1161-A Equip. Class Motor-Operated and Solenoid Operated Valves

-OR- 2SI-E1587A

Equipment Description LPSI Pump A Minimum Flow Recirc

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 component

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

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☐

Sheet 3 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-051

Equipment ID No. SI ISV1161-A Equip. Class Motor-Operated and Solenoid Operated Valves

-OR- 2SI-E1587A

Equipment Description LPSI Pump A Minimum Flow Recirc

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)

- For area walk-by checklist see AWC-002

Evaluated by: Dinesh Patel Date: 10/3/12

Brian Pace 10/3/12

Sheet 4 of 4

Status: Y☒ N☐ U☐

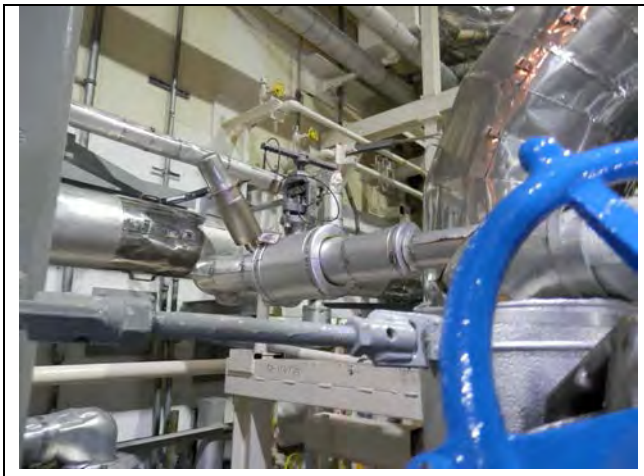
Seismic Walkdown Checklist (SWC) SWEL1-051

Equipment ID No. SI ISV1161-A -OR- 2SI-E1587A

Equip. Class Motor-Operated and Solenoid Operated Valves

Equipment Description LPSI Pump A Minimum Flow Recirc

Photographs



Note: LPSI Pump A Minimum Flow Recirc

Sheet 1 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-052

Equipment ID No. SI MVAAA121-A

-OR-

2SI-V809A

Equip. Class[1] MOTOR-OPERATED AND SOLENOID-OPERATED VALVES

Equipment Description DOWNSTREAM ISOLATION

Location: Bldg. RB Floor El. -35 Room, Area B53, COL 8A, LINE LZ

Manufacturer, Model, Etc. (optional but recommended) ANCHOR/DARLING VALVE CO, 38583

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 component

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☒ N☐ U☐ N/A☐
   - In-line component
   - Valve hardware is covered by insulation. However, anchorage is acceptable based on Inservice Testing (Program Section No. SEP-WF3-IST-3)

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☒ N☐ U☐ N/A☐
   - In-line component
   - Valve hardware is covered by insulation. However, anchorage is acceptable based on Inservice Testing (Program Section No. SEP-WF3-IST-3)

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☐ N☐ U☐ N/A☒
   - In-line component

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

Sheet 2 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-052

Equipment ID No. SI MVAAA121-A
-OR-
2SI-V809A

Equip. Class MOTOR-OPERATED AND SOLENOID-OPERATED VALVES

Equipment Description DOWNSTREAM ISOLATION

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 component

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

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☐

Sheet 3 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-052

Equipment ID No. SI MVAAA121-A
-OR-
2SI-V809A

Equip. Class MOTOR-OPERATED AND SOLENOID-OPERATED VALVES

Equipment Description DOWNSTREAM ISOLATION

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)

- Oil at base of valve; no seismic concern
- For Area Walk-by Checklist refer to AWC-028

Evaluated by: Natalie George Date: 10/4/12

Chu-Chieh Lin 10/4/12

Sheet 4 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-052

Equipment ID No. SI MVAAA121-A

-OR-

2SI-V809A

Equip. Class MOTOR-OPERATED AND SOLENOID-OPERATED VALVES

Equipment Description DOWNSTREAM ISOLATION

Photographs

Note: Downstream isolation SI MVAAA121-A

Note: Oil at base of valve

Sheet 1 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-053

Equipment ID No. SI MVAAA138-B
-OR-
2SI-V1539B3

Equip. Class[1] MOTOR-OPERATED AND SOLENOID-OPERATED VALVES

Equipment Description LPSI HEADER TO RC LOOP 1B FLOW CONTROL

Location: Bldg. RB Floor El. -35 Room, Area B53, COL 3A, LINE N

Manufacturer, Model, Etc. (optional but recommended) TARGET ROCK CORP, 71L-006

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 component.

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☒ N☐ U☐ N/A☐
   - Valve hardware is covered by insulation. However, anchorage is acceptable based on Inservice Testing (Program Section No. SEP-WF3-IST-3)

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☒ N☐ U☐ N/A☐
   - Valve hardware is covered by insulation. However, anchorage is acceptable based on Inservice Testing (Program Section No. SEP-WF3-IST-3)

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☐ N☐ U☐ N/A☒
   - In-line component.

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

Sheet 2 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-053

Equipment ID No. SI MVAAA138-B
-OR-
2SI-V1539B3

Equip. Class MOTOR-OPERATED AND SOLENOID-OPERATED VALVES

Equipment Description LPSI HEADER TO RC LOOP 1B FLOW CONTROL

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 component.

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

9. Do attached lines have adequate flexibility to avoid damage? Y☒ N☐ U☐ N/A☐
   - Attached conduit is flexible.

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

Sheet 3 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-053

Equipment ID No. SI MVAAA138-B
-OR-
2SI-V1539B3

Equip. Class MOTOR-OPERATED AND SOLENOID-OPERATED VALVES

Equipment Description LPSI HEADER TO RC LOOP 1B FLOW CONTROL

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)

- For area walk-by checklist see AWC-028

Evaluated by: Brian Pace Date: 10-15-2012

Dinesh Patel 10-15-2012

Sheet 4 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-053

Equipment ID No. SI MVAAA138-B
-OR-
2SI-V1539B3

Equip. Class MOTOR-OPERATED AND SOLENOID-OPERATED VALVES

Equipment Description LPSI HEADER TO RC LOOP 1B FLOW CONTROL

Photographs

Note: Valve SI MVAAA138-B

Sheet 1 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-054

Equipment ID No. SI MVAAA219-A
-OR-
2SI-V1534

Equip. Class[1] MOTOR-OPERATED AND SOLENOID-OPERATED VALVES

Equipment Description HPSI DISCHARGE HEADER A ORIFICE BYPASS

Location: Bldg. RB Floor El. -35 Room, Area B53, COL 6A, LINE LY

Manufacturer, Model, Etc. (optional but recommended) ANCHOR/DARLING VALVE CO, 38553

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☐
   - Valve hardware is covered by insulation. However, anchorage is acceptable based on Inservice Testing (Program Section No. SEP-WF3-IST-3)

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☒ N☐ U☐ N/A☐
   - Valve hardware is covered by insulation. However, anchorage is acceptable based on Inservice Testing (Program Section No. SEP-WF3-IST-3)

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☐ N☐ U☐ N/A☒
   - In-line component

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

Sheet 2 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-054

Equipment ID No. SI MVAAA219-A
-OR-
2SI-V1534

Equip. Class MOTOR-OPERATED AND SOLENOID-OPERATED VALVES

Equipment Description HPSI DISCHARGE HEADER A ORIFICE BYPASS

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 component, 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☐

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☐

Sheet 3 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-054

Equipment ID No. SI MVAAA219-A
-OR-
2SI-V1534

Equip. Class MOTOR-OPERATED AND SOLENOID-OPERATED VALVES

Equipment Description HPSI DISCHARGE HEADER A ORIFICE BYPASS

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)

- Mild surface corrosion on valve; no seismic concern
- For Area Walk-by Checklist refer to AWC-028

Evaluated by: Dinesh Patel Date: 10/4/12

Brian Pace 10/4/12

Sheet 4 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-054

Equipment ID No. SI MVAAA219-A

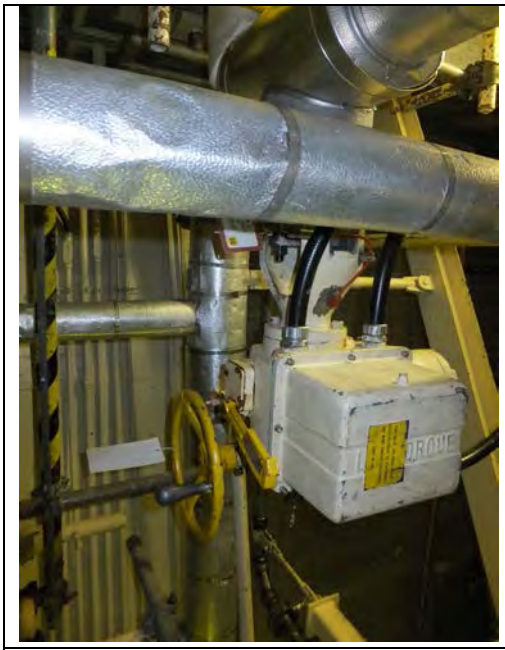
-OR-

2SI-V1534

Equip. Class MOTOR-OPERATED AND SOLENOID-OPERATED VALVES

Equipment Description HPSI DISCHARGE HEADER A ORIFICE BYPASS

Photographs



Note: HPSI discharge header A orifice bypass SI MVAAA219-A

Note: Mild surface corrosion on valve

Sheet 1 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-055

Equipment ID No. SI MVAAA227-B

-OR-

2SI-V1547B3

Equip. Class[1] MOTOR-OPERATED AND SOLENOID-OPERATED VALVES

Equipment Description HPSI HDR B TO RC LOOP 2A FLOW CONTROL

Location: Bldg. RB Floor El. -35 Room, Area B53, COL 9A, LINE L

Manufacturer, Model, Etc. (optional but recommended) TARGET ROCK CORP, 71L-002-1

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 component

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☒ N☐ U☐ N/A☐
   - In-line component
   - Valve hardware is covered by insulation. However, anchorage is acceptable based on Inservice Testing (Program Section No. SEP-WF3-IST-3).

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☒ N☐ U☐ N/A☐
   - In-line component
   - Valve hardware is covered by insulation. However, anchorage is acceptable based on Inservice Testing (Program Section No. SEP-WF3-IST-3).

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☐ N☐ U☐ N/A☒
   - In-line component

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

Sheet 2 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-055

Equipment ID No. SI MVAAA227-B
-OR-
2SI-V1547B3

Equip. Class MOTOR-OPERATED AND SOLENOID-OPERATED VALVES

Equipment Description HPSI HDR B TO RC LOOP 2A FLOW CONTROL

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 component

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

9. Do attached lines have adequate flexibility to avoid damage? Y☒ N☐ U☐ N/A☐
   - Several attached conduits have sufficient flexibility.

10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y☒ N☐ U☐
    - See questions 7-9.

Sheet 3 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-055

Equipment ID No. SI MVAAA227-B
-OR-
2SI-V1547B3

Equip. Class MOTOR-OPERATED AND SOLENOID-OPERATED VALVES

Equipment Description HPSI HDR B TO RC LOOP 2A FLOW CONTROL

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)

- Valve has minor surface corrosion. No seismic concern. CR-WF3-2012-05275 and WR-287631 initiated to address this condition.
- For area walk-by checklist see AWC-0028

Evaluated by: Dinesh Patel Date: 10-15-2012

Brian Pace 10-15-2012

Sheet 4 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-055

Equipment ID No. SI MVAAA227-B
-OR-
2SI-V1547B3

Equip. Class MOTOR-OPERATED AND SOLENOID-OPERATED VALVES

Equipment Description HPSI HDR B TO RC LOOP 2A FLOW CONTROL

Photographs

Note: Valve SI MVAAA227-B

Note: Mild surface corrosion on valve

Sheet 1 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-056

Equipment ID No. SI MVAAA415-B Equip. Class[1] Motor-Operated and Solenoid-Operated Valves

Equipment Description Shutdown Cooling HX B Temperature Control

Location: Bldg. RAB Floor El. -35 Room, Area Room B20, Col. 10A, Line K

Manufacturer, Model, Etc. (optional but recommended) Fisher Controls Company, 10"-300lb Butterfly Valve with Actuator

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 component

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☒ N☐ U☐ N/A☐
   - In-line component
   - Valve hardware is covered by insulation. However, anchorage is acceptable based on Inservice Testing (Program Section No. SEP-WF3-IST-3)

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☒ N☐ U☐ N/A☐
   - In-line component
   - Valve hardware is covered by insulation. However, anchorage is acceptable based on Inservice Testing (Program Section No. SEP-WF3-IST-3)

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☐ N☐ U☐ N/A☒
   - In-line component

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

Sheet 2 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-056

Equipment ID No. SI MVAAA415-B Equip. Class Motor-Operated and Solenoid-Operated Valves

Equipment Description Shutdown Cooling HX B Temperature Control

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 component

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

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☐

Sheet 3 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-056

Equipment ID No. SI MVAAA415-B Equip. Class Motor-Operated and Solenoid-Operated Valves

Equipment Description Shutdown Cooling HX B Temperature Control

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)

- For area walk-by checklist see AWC-004

Evaluated by: Dinesh Patel Date: 10/2/12

Natalie George 10/2/12

Sheet 4 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-056

Equipment ID No. SI MVAAA415-B Equip. Class Motor-Operated and Solenoid-Operated Valves

Equipment Description Shutdown Cooling HX B Temperature Control

Photographs

Note: Shutdown Cooling HX B Temperature Control

Sheet 1 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-057

Equipment ID No. SI MVAAA502-A

-OR-

2SI-V1557

Equip. Class[1] MOTOR-OPERATED AND SOLENOID-OPERATED VALVES

Equipment Description RC LOOP 1 HOT LEG INJ ISOLATION

Location: Bldg. RB Floor El. -35 Room, Area B53, COL 6A, LINE LY

Manufacturer, Model, Etc. (optional but recommended) ANCHOR/DARLING VALVE CO, SMB0010

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 component

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☒ N☐ U☐ N/A☐
   - Valve hardware is covered by insulation. However, anchorage is acceptable based on Inservice Testing (Program Section No. SEP-WF3-IST-3)

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☒ N☐ U☐ N/A☐
   - Valve hardware is covered by insulation. However, anchorage is acceptable based on Inservice Testing (Program Section No. SEP-WF3-IST-3)

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☐ N☐ U☐ N/A☒
   - In-line component

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

Sheet 2 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-057

Equipment ID No. SI MVAAA502-A
-OR-
2SI-V1557

Equip. Class MOTOR-OPERATED AND SOLENOID-OPERATED VALVES

Equipment Description RC LOOP 1 HOT LEG INJ ISOLATION

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 component, 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☐

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☐

Sheet 3 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-057

Equipment ID No. SI MVAAA502-A
-OR-
2SI-V1557

Equip. Class MOTOR-OPERATED AND SOLENOID-OPERATED VALVES

Equipment Description RC LOOP 1 HOT LEG INJ ISOLATION

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)

- For Area Walk-by Checklist refer to AWC-028

Evaluated by: Dinesh Patel Date: 10/4/12

Brian Pace 10/4/12

Sheet 4 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-057

Equipment ID No. SI MVAAA502-A

-OR-

2SI-V1557

Equip. Class MOTOR-OPERATED AND SOLENOID-OPERATED VALVES

Equipment Description RC LOOP 1 HOT LEG INJ ISOLATION

Photographs

Note: RC loop 1 hot leg injection isolation SI MVAAA502-A

Sheet 1 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-058

Equipment ID No. SI MVAAA602-B

-OR-

2SI-L102B

Equip. Class[1] MOTOR-OPERATED AND SOLENOID-OPERATED VALVES

Equipment Description SAFETY INJECTION SUMP OUTLET HEADER B ISOLATION

Location: Bldg. RB Floor El. -35 Room, Area B53, COL 7A, LINE LZ

Manufacturer, Model, Etc. (optional but recommended) FISHER CONTROLS CO INC, 9211

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 component

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☒ N☐ U☐ N/A☐
   - In-line component
   - Valve hardware is covered by insulation. However, anchorage is acceptable based on Inservice Testing (Program Section No. SEP-WF3-IST-3)

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☒ N☐ U☐ N/A☐
   - In-line component
   - Valve hardware is covered by insulation. However, anchorage is acceptable based on Inservice Testing (Program Section No. SEP-WF3-IST-3)

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☐ N☐ U☐ N/A☒
   - In-line component

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

Sheet 2 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-058

Equipment ID No. SI MVAAA602-B
-OR-
2SI-L102B

Equip. Class MOTOR-OPERATED AND SOLENOID-OPERATED VALVES

Equipment Description SAFETY INJECTION SUMP OUTLET HEADER B ISOLATION

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 component

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

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☐

Sheet 3 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-058

Equipment ID No. SI MVAAA602-B
-OR-
2SI-L102B

Equip. Class MOTOR-OPERATED AND SOLENOID-OPERATED VALVES

Equipment Description SAFETY INJECTION SUMP OUTLET HEADER B ISOLATION

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)

- No visible tag; verified by isometric 4035-1879 and penetration #33
- For area walk-by checklist see AWC-028

Evaluated by: Natalie George Date: 10/15/12

Chu-Chieh Lin 10/15/12

Sheet 4 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-058

Equipment ID No. SI MVAAA602-B

-OR-

2SI-L102B

Equip. Class MOTOR-OPERATED AND SOLENOID-OPERATED VALVES

Equipment Description SAFETY INJECTION SUMP OUTLET HEADER B ISOLATION

Photographs

Note: Safety Injection Sump Outlet Header B Isolation

Sheet 1 of 4

Status: Y☐ N☒ U☐

Seismic Walkdown Checklist (SWC) SWEL1-059

Equipment ID No. ACCMFAN0002-B -OR- FAN 10 Equip. Class[1] Fans

Equipment Description WET COOLING TOWER B FAN 2-SB

Location: Bldg. CTB Floor El. -35 Room, Area ROOM B60A COL 12A LINE Q1

Manufacturer, Model, Etc. (optional but recommended) AEROVENT INC, Model W

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.

Sheet 2 of 4

Status: Y☐ N☒ U☐

Seismic Walkdown Checklist (SWC) SWEL1-059

Equipment ID No. ACCMFAN0002-B -OR- FAN 10 Equip. Class Fans

Equipment Description WET COOLING TOWER B FAN 2-SB

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☐

Sheet 3 of 4

Status: Y☐ N☒ U☐

Seismic Walkdown Checklist (SWC) SWEL1-059

Equipment ID No. ACCMFAN0002-B -OR- FAN 10 Equip. Class Fans

Equipment Description WET COOLING TOWER B FAN 2-SB

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: _____ Date: _____

Sheet 4 of 4

Status: Y☐ N☒ U☐

Seismic Walkdown Checklist (SWC) SWEL1-059

Equipment ID No. ACCMFAN0002-B
-OR- FAN 10

Equip. Class Fans

Equipment Description WET COOLING TOWER B FAN 2-SB

Photographs

Note:	**Note:**

Sheet 1 of 5

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-060

Equipment ID No. CC MFAN0003-A Equip. Class[1] Fans

-OR- FAN 3SA

Equipment Description DRY COOLING TOWER A FAN 3-SA

Location: Bldg. CTA Floor El. -35 Room, Area ROOM B59 COL 1M

Manufacturer, Model, Etc. (optional but recommended) HUDSON PRODUCT CORP, Model APT14W6

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☒
   - Item not one of the 50% of SWEL items requiring verification

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☒ N☐ U☐ N/A☐
   - Motor anchored to skid, which is welded to existing steel and bolted to the wall. Fan gear unit adequately anchored.

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☒ N☐ U☐ N/A☐
   - Anchorage is free of corrosion
   - Mild corrosion behind base plate; no seismic concern

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☒ N☐ U☐ N/A☐
   - No cracks near support bolted to nearby wall

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

Sheet 2 of 5

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-060

Equipment ID No. CC MFAN0003-A Equip. Class Fans

-OR- FAN 3SA

Equipment Description DRY COOLING TOWER A FAN 3-SA

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☒
   - Item not one of the 50% of SWEL items requiring verification

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☒ N☐ U☐
   - Questions 2-4 satisfied; no seismic concern

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☐
   - Attached line is flexible.

10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y☒ N☐ U☐
    - Questions 7-9 satisfied

Sheet 3 of 5

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-060

Equipment ID No. CC MFAN0003-A Equip. Class Fans

-OR- FAN 3SA

Equipment Description DRY COOLING TOWER A FAN 3-SA

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)

- For area walk-by checklist see AWC-010

Evaluated by: Brian Pace Date: 10-05-2012

Dinesh Patel 10-05-2012

Sheet 4 of 5

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-060

Equipment ID No. CC MFAN0003-A Equip. Class Fans

-OR- FAN 3SA

Equipment Description DRY COOLING TOWER A FAN 3-SA

Photographs

Note: Dry cooling tower A fan 3-SA motor

Note: Bolts in good condition on wall support. Mild corrosion behind base plate.

Sheet 5 of 5

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-060

Equipment ID No. CC MFAN0003-A Equip. Class Fans

-OR- FAN 3SA

Equipment Description DRY COOLING TOWER A FAN 3-SA

Note: Bolts mounting motor to skid

Sheet 1 of 5

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-061

Equipment ID No. HVCMAHU0001-A Equip. Class[1] Fans

-OR- AH-12(3A-SA)

Equipment Description Control Room Air Handling Unit AH-12A

Location: Bldg. RAB Floor El. +46 Room, Area Room 314, Col. 9A, Line L

Manufacturer, Model, Etc. (optional but recommended) Buffalo Forge Co., 980

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☒
   - Item not one of the 50% of SWEL items requiring anchorage configuration verification

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☒ N☐ U☐ N/A☐
   - One bolt is loose on the motor base. This is a tension rod and is used for alignment of the motor. This bolt being loose has no seismic concern.

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☒ N☐ U☐ N/A☐
   - Mild surface corrosion is located on one bolt on the shaft housing. This is no seismic concern.

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☒ N☐ U☐ N/A☐
   - Base (skid) is welded to existing embedment plate. There are no visible cracks in this concrete.

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

Sheet 2 of 5

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-061

Equipment ID No. HVCMAHU0001-A Equip. Class Fans

-OR- AH-12(3A-SA)

Equipment Description Control Room Air Handling Unit AH-12A

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☒
   - Item not one of the 50% of SWEL items requiring anchorage configuration verification
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☒ N☐ U☐
   - Questions 2-4 satisfied; no seismic concern

Interaction Effects

7. Are soft targets free from impact by nearby equipment or structures? Y☒ N☐ U☐ N/A☐
   - No soft targets around equipment.
   - There is a long term ladder in the area that is properly secured. No seismic concern.
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☐
   - Overhead lights are not covered. However, bulbs falling will have no adverse effect on any equipment. The fixture is properly mounted.
   - Block wall in front of the unit acceptable per drawing no. G756 sh. 2, calculation no. Civil Seismic Block Wall, and FSAR Section 3.8.4.8
9. Do attached lines have adequate flexibility to avoid damage? Y☒ N☐ U☐ N/A☐
   - One flexible conduit located on motor.
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y☒ N☐ U☐
    - Questions 7-9 satisfied

Sheet 3 of 5

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-061

Equipment ID No. HVCMAHU0001-A Equip. Class Fans

-OR- AH-12(3A-SA)

Equipment Description Control Room Air Handling Unit AH-12A

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)

- For area walk-by checklist see AWC-038

Evaluated by: Dinesh Patel Date: 10-09-2012

Brian Pace 10-09-2012

Sheet 4 of 5

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-061

Equipment ID No. HVCMAHU0001-A Equip. Class Fans

-OR- AH-12(3A-SA)

Equipment Description Control Room Air Handling Unit AH-12A

Photographs

Note: Mild surface corrosion on shaft housing bolt

Note: AH-12A

Sheet 5 of 5

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-061

Equipment ID No. HVCMAHU0001-A Equip. Class Fans

-OR- AH-12(3A-SA)

Equipment Description Control Room Air Handling Unit AH-12A

Note: AH-12A motor

Note: Example of anchor bolt in good condition

Sheet 1 of 5

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-062

Equipment ID No. HVCMFAN0010-B Equip. Class[1] Fans

-OR- S-8(3B-SB)

Equipment Description Control Room Emergency Filtration Unit B

Location: Bldg. RAB Floor El. +41 Room, Area Room 314, Col. 10A, Line K

Manufacturer, Model, Etc. (optional but recommended) Buffalo Forge Co., 540L21

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☒
   - Bolted to base frame which is welded to embedded steel
   - No drawing available to verify weld configuration
2. Is the anchorage free of bent, broken, missing or loose hardware? Y☒ N☐ U☐ N/A☐
   - All hardware and welds are accounted for and in good condition
3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☒ N☐ U☐ N/A☐
   - No corrosion on anchorage
   - Anchorage is painted
4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☒ N☐ U☐ N/A☐
   - Anchorage is bolted to steel base frame or welded to embedded steel
   - No visible cracks in concrete around embedded steel

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

Sheet 2 of 5

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-062

Equipment ID No. HVCMFAN0010-B Equip. Class Fans

-OR- S-8(3B-SB)

Equipment Description Control Room Emergency Filtration Unit B

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☒
   - Anchors on fan assembly are consistent with plant documentation (Drawing no 7W-94663 and IPEEE pg. E-44)
   - No documents available to verify weld configuration
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☒ N☐ U☐
   - No seismic concerns

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☐

Sheet 3 of 5

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-062

Equipment ID No. HVCMFAN0010-B Equip. Class Fans

-OR- S-8(3B-SB)

Equipment Description Control Room Emergency Filtration Unit B

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)

- For area walk-by checklist see AWC-038

Evaluated by: Natalie George Date: 10/9/12

Chu-Chieh Lin 10/9/12

Sheet 4 of 5

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-062

Equipment ID No. HVCMFAN0010-B Equip. Class Fans

-OR- S-8(3B-SB)

Equipment Description Control Room Emergency Filtration Unit B

Photographs

Note: Control Room Emergency Filtration Unit B

Note: Weld configuration on base frame

Sheet 5 of 5

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-062

Equipment ID No. HVCMFAN0010-B Equip. Class Fans

-OR- S-8(3B-SB)

Equipment Description Control Room Emergency Filtration Unit B

Note: Weld configuration on base frame

Sheet 1 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-063

Equipment ID No. HVRMFAN0025-A Equip. Class[1] Fans

-OR- E-28(3A-SA)

Equipment Description EDG ROOM A EXHAUST FAN E-28A

Location: Bldg. RAB Floor El. +46 Room, Area Room 299, Col. 3A, Line J

Manufacturer, Model, Etc. (optional but recommended) JOY MFG CO, 8426870

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☒
   - Item not one of the 50% of SWEL items requiring anchorage configuration verification

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☒ N☐ U☐ N/A☐
   - Anchorage to wall free of any bent, broken, missing, or loose hardware.

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☒ N☐ U☐ N/A☐
   - No corrosion was found.

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☒ N☐ U☐ N/A☐
   - No cracks on the concrete wall were found.

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

Sheet 2 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-063

Equipment ID No. HVRMFAN0025-A Equip. Class Fans

-OR- E-28(3A-SA)

Equipment Description EDG ROOM A EXHAUST FAN E-28A

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☒
   - Item not one of the 50% of SWEL items requiring anchorage configuration verification
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☒ N☐ U☐
   - Questions 2-4 are satisfied; no seismic concern

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☐
    - Questions 7-9 are satisfied

Sheet 3 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-063

Equipment ID No. HVRMFAN0025-A Equip. Class Fans

-OR- E-28(3A-SA)

Equipment Description EDG ROOM A EXHAUST FAN E-28A

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)

- See AWC-036 for Area Walk-By Checklist

Evaluated by: Dinesh Patel Date: 10-08-2012

Brian Pace 10-08-2012

Sheet 4 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-063

Equipment ID No. HVRMFAN0025-A Equip. Class Fans

-OR- E-28(3A-SA)

Equipment Description EDG ROOM A EXHAUST FAN E-28A

Photographs

Note: Fan E-28 and surrounding area

Note: Bolts around fan are in good condition

Sheet 1 of 5

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-064

Equipment ID No. HVCMAHU0009-A Equip. Class[1] Air Handlers

-OR- S-8(3A-SA)

Equipment Description Control Room Emergency Filtration Unit A

Location: Bldg. RAB Floor El. +46 Room, Area Room 314, Col. 9A, Line K

Manufacturer, Model, Etc. (optional but recommended) Penwalt Corp., B47100012

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☐
   - All 12 bolts are accounted for and in good condition

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

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☐ N☒ U☐ N/A☐
   - Cracks found near several anchors. See LB-07 in Attachment F.
   - Some cracks appear to be patched

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

Sheet 2 of 5

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-064

Equipment ID No. HVCMAHU0009-A Equip. Class Air Handlers

-OR- S-8(3A-SA)

Equipment Description Control Room Emergency Filtration Unit 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☐
   - Anchorage configuration is consistent with plant documentation (IPEEE pg E-76)
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☐ N☒ U☐
   - Need to determine if cracks at anchor points are acceptable

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 small 7’ partition block wall more than 10’ from equipment; no seismic concern
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☐

Sheet 3 of 5

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-064

Equipment ID No. HVCMAHU0009-A Equip. Class Air Handlers

-OR- S-8(3A-SA)

Equipment Description Control Room Emergency Filtration Unit 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☐
    - Did not open doors; this is not necessary since no electronic equipment or sensors are enclosed

Comments (Additional pages may be added as necessary)

- For area walk-by checklist see AWC-038

Evaluated by: Natalie George Date: 10/9/12

Chu-Chieh Lin 10/9/12

Sheet 4 of 5

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-064

Equipment ID No. HVCMAHU0009-A Equip. Class Air Handlers

-OR- S-8(3A-SA)

Equipment Description Control Room Emergency Filtration Unit A

Photographs

Note: Cracks found near several anchors

Note: Cracks found near several anchors

Sheet 5 of 5

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-064

Equipment ID No. HVCMAHU0009-A Equip. Class Air Handlers

-OR- S-8(3A-SA)

Equipment Description Control Room Emergency Filtration Unit A

Note: 7' partition block wall

Sheet 1 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-065

Equipment ID No. HVRMAHU0028-A Equip. Class[1] Air Handlers

-OR- AH-10(3A-SA)

Equipment Description CCW Pump Room A Air Handling Unit AH-10A

Location: Bldg. RAB Floor El. +21 Room, Area Room 235, Col. 5A, Line K

Manufacturer, Model, Etc. (optional but recommended) Buffalo Forge Co., 60VPCO

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☒
   - Fan is mounted to steel frame. Frame is mounted to wall.

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☒ N☐ U☐ N/A☐
   - All hardware is accounted for and in good condition

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☒ N☐ U☐ N/A☐
   - No corrosion

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☒ N☐ U☐ N/A☐
   - No visible cracks in the concrete

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

Sheet 2 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-065

Equipment ID No. HVRMAHU0028-A Equip. Class Air Handlers

-OR- AH-10(3A-SA)

Equipment Description CCW Pump Room A Air Handling Unit AH-10A

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☐
   - Questions 2-4 satisfied. No seismic concern

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☐
    - Questions 7-9 satisfied.

Sheet 3 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-065

Equipment ID No. HVRMAHU0028-A Equip. Class Air Handlers

-OR- AH-10(3A-SA)

Equipment Description CCW Pump Room A Air Handling Unit AH-10A

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)

- For area walk-by checklist see AWC-022

Evaluated by: Brian Pace Date: 10/4/12

Chu-Chieh Lin 10/4/12

Sheet 4 of 4

Status: Y☒ N☐ U☐

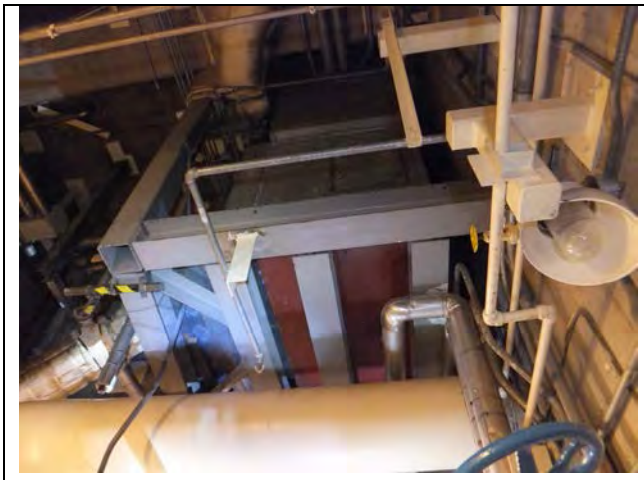
Seismic Walkdown Checklist (SWC) SWEL1-065

Equipment ID No. HVRMAHU0028-A Equip. Class Air Handlers

-OR- AH-10(3A-SA)

Equipment Description CCW Pump Room A Air Handling Unit AH-10A

Photographs



Note: CCW Pump Room A Air Handling Unit AH-10A

Sheet 1 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-066

Equipment ID No. HVRMAHU0032-B Equip. Class[1] Air Handlers

-OR- AH-3(3B-SB)

Equipment Description Shutdown Cooling HX B Air Handling Unit AH-3B (Coolers for Heat Exchangers)

Location: Bldg. RAB Floor El. -35 Room, Area Room B20, Col. 11A, Line J

Manufacturer, Model, Etc. (optional but recommended) Buffalo Forge Co., 60PCO

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☐
   - All anchorage is accounted for and in good condition

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☒ N☐ U☐ N/A☐
   - No corrosion on anchorage, painted

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☒ N☐ U☐ N/A☐
   - No visible cracks in the concrete

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

Sheet 2 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-066

Equipment ID No. HVRMAHU0032-B Equip. Class Air Handlers

-OR- AH-3(3B-SB)

Equipment Description Shutdown Cooling HX B Air Handling Unit AH-3B (Coolers for Heat Exchangers)

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☐
   - No seismic concerns

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☐

Sheet 3 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-066

Equipment ID No. HVRMAHU0032-B Equip. Class Air Handlers

-OR- AH-3(3B-SB)

Equipment Description Shutdown Cooling HX B Air Handling Unit AH-3B (Coolers for Heat Exchangers)

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)

- For area walk-by checklist see AWC-004

Evaluated by: Dinesh Patel Date: 10/2/12

Natalie George 10/2/12

Sheet 4 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-066

Equipment ID No. HVRMAHU0032-B Equip. Class Air Handlers

-OR- AH-3(3B-SB)

Equipment Description Shutdown Cooling HX B Air Handling Unit AH-3B (Coolers for Heat Exchangers)

Photographs

Note: Shutdown Cooling HX B Air Handling Unit AH-3B