

Seismic Walkdown Checklist (SWC)

Status: Y N U

Equipment ID No. MCC-1-E7 Equip. Class 1. Motor Control Center

Equipment Description 480V Motor Control Center FED From 480V Substation 1-8Bus 1N(8N14)

Location: Bldg. DGBX Floor El. 735

Manufacturer, Model, Etc. _____

Instructions for Completing Checklist

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

Anchorage

- | | |
|---|---|
| Y | N |
| X | |
1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?
MCC composed of 3 sections. Component is close to wall but it is top braced by top entry conduit as well as separate top bracing mechanism.
- | | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| X | | | |
2. Is the anchorage free of bent, broken, missing or loose hardware?
- | | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| X | | | |
3. Is the anchorage free of corrosion that is more than mild surface oxidation?
- | | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| X | | | |
4. Is the anchorage free of visible cracks in the concrete near the anchors?
- | | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| X | | | |
5. Is the anchorage configuration consistent with plant documentation?
(Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)
Base weld detail in MCC-1-E7 verified per Calculation 52233-C-001 Anchorage Calc
- | | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| X | | | |
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?
- | | | |
|---|---|---|
| Y | N | U |
| X | | |

Seismic Walkdown Checklist (SWC)

Status: Y N U

Equipment ID No. MCC-1-E7 Equip. Class 1. Motor Control Center

Equipment Description 480V Motor Control Center FED From 480V Substation 1-8Bus 1N(8N14)

Interaction Effects

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

| | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| X | | | |

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

| | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| X | | | |

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

| | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| X | | | |

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

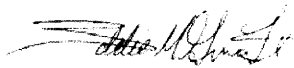
| | | |
|---|---|---|
| Y | N | U |
| X | | |

Other Adverse Conditions

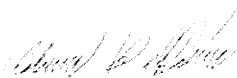
11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment?

| | | |
|---|---|---|
| Y | N | U |
| X | | |

Comments (Additional pages may be added as necessary)



Evaluated by: Eddie M. Guerra Date: 10/1/2012



Adam L. Helffrich Date: 10/1/2012

Seismic Walkdown Checklist (SWC)

Status: Y N U

Equipment ID No. MCC-1-E7 Equip. Class 1. Motor Control Center

Equipment Description 480V Motor Control Center FED From 480V Substation 1-8Bus 1N(8N14)

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



File Name: 2-61-7-1-20.jpeg
Description: Component Plate ID



File Name: 2-62-7-1-20.jpeg
Description: General view of component

Seismic Walkdown Checklist (SWC)

Status: Y N U

Equipment ID No. MCC-1-E7 Equip. Class 1. Motor Control Center

Equipment Description 480V Motor Control Center FED From 480V Substation 1-8Bus 1N(8N14)



File Name: 2-63-7-1-20.jpeg
Description: View of top entry conduits



File Name: 2-64-7-1-20.jpeg
Description: View of wall mounted lateral support

Seismic Walkdown Checklist (SWC)

Status: Y N U

Equipment ID No. MCC-1-E8 Equip. Class 1. Motor Control Center

Equipment Description 480V Motor Control Center Fed From 480V Substation 1-9 Bus 1P(9P7)

Location: Bldg. DGBX Floor El. 735

Manufacturer, Model, Etc. _____

Instructions for Completing Checklist

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

Anchorage

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

| | |
|---|---|
| Y | N |
| X | |

MCC composed of 4 sections. Each section welded, front and back, to embed with an average of 5" of 1/4" fillet welds.

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

| | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| X | | | |

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

| | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| X | | | |

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

| | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| X | | | |

5. Is the anchorage configuration consistent with plant documentation?
(Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)
Base weld detail in MCC-1-E8 verified per Calculation 52233-C-001 Anchorage Calc

| | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| X | | | |

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

| | | |
|---|---|---|
| Y | N | U |
| X | | |

Seismic Walkdown Checklist (SWC)

Status: Y N U

Equipment ID No. MCC-1-E8 Equip. Class 1. Motor Control Center

Equipment Description 480V Motor Control Center Fed From 480V Substation 1-9 Bus 1P(9P7)

Interaction Effects

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

| Y | N | U | N/A |
|---|---|---|-----|
| X | | | |

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

| Y | N | U | N/A |
|---|---|---|-----|
| X | | | |

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

Top entry conduit is rigidly braced to wall, so there is no potential for pounding of MCC to wall.

| Y | N | U | N/A |
|---|---|---|-----|
| X | | | |

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

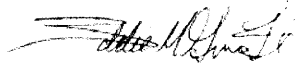
| Y | N | U |
|---|---|---|
| X | | |

Other Adverse Conditions

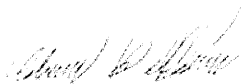
11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment?

| Y | N | U |
|---|---|---|
| X | | |

Comments (Additional pages may be added as necessary)



Evaluated by: Eddie M. Guerra Date: 10/1/2012



Adam L. Helffrich Date: 10/1/2012

Seismic Walkdown Checklist (SWC)

Status: Y N U

Equipment ID No. MCC-1-E8 Equip. Class 1. Motor Control Center

Equipment Description 480V Motor Control Center Fed From 480V Substation 1-9 Bus 1P(9P7)

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



File Name: 2-61-1-1-22.jpeg
Description: Component Plate ID



File Name: 2-62-1-1-22.jpeg
Description: General view of component

Seismic Walkdown Checklist (SWC)

Status: Y N U

Equipment ID No. MCC-1-E8 Equip. Class 1. Motor Control Center

Equipment Description 480V Motor Control Center Fed From 480V Substation 1-9 Bus 1P(9P7)



File Name: 2-63-1-1-22.jpeg
Description: View of top entry conduits



File Name: 2-64-1-1-22.jpeg
Description: Close up view of embedment detail

Seismic Walkdown Checklist (SWC)

Status: Y N U

Equipment ID No. MOV-1FW-151E Equip. Class 8A. Motor-Operated Valve

Equipment Description 1A SG AFW Throttle Valve (B HDR) Feedwater Control Valve

Location: Bldg. SFGB Floor El. 735

Manufacturer, Model, Etc. _____

Instructions for Completing Checklist

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

Anchorage

- | | | | |
|---|---|--|--|
| Y | N | | |
| | X | | |
1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?
- Small MOV on ~3" diam line. Line is well supported near valve. Valve identified in good condition.*
- | | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| | | | X |
2. Is the anchorage free of bent, broken, missing or loose hardware?
- | | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| | | | X |
3. Is the anchorage free of corrosion that is more than mild surface oxidation?
- | | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| | | | X |
4. Is the anchorage free of visible cracks in the concrete near the anchors?
- | | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| | | | X |
5. Is the anchorage configuration consistent with plant documentation?
(Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)
- | | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| | | | X |
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?
- | | | |
|---|---|---|
| Y | N | U |
| X | | |

Seismic Walkdown Checklist (SWC)

Status: Y N U

Equipment ID No. MOV-1FW-151E Equip. Class 8A. Motor-Operated Valve

Equipment Description 1A SG AFW Throttle Valve (B HDR) Feedwater Control Valve

Interaction Effects

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

| Y | N | U | N/A |
|---|---|---|-----|
| X | | | |

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

| Y | N | U | N/A |
|---|---|---|-----|
| X | | | |

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

Flex attached lines.

| Y | N | U | N/A |
|---|---|---|-----|
| X | | | |

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

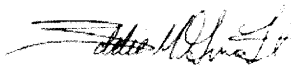
| Y | N | U |
|---|---|---|
| X | | |

Other Adverse Conditions

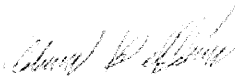
11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment?

| Y | N | U |
|---|---|---|
| X | | |

Comments (Additional pages may be added as necessary)



Evaluated by: Eddie M. Guerra Date: 10/1/2012



Adam L. Helffrich Date: 10/1/2012

Seismic Walkdown Checklist (SWC)

Status: N U

Equipment ID No. MOV-1FW-151E Equip. Class 8A. Motor-Operated Valve

Equipment Description 1A SG AFW Throttle Valve (B HDR) Feedwater Control Valve

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



File Name: 2-61-6-1-50.jpeg
Description: Component Plate ID



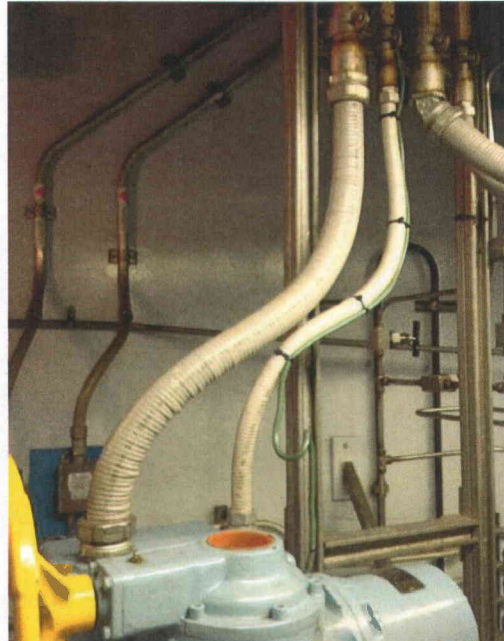
File Name: 2-62-6-1-50.jpeg
Description: General view of component

Seismic Walkdown Checklist (SWC)

Status: Y N U

Equipment ID No. MOV-1FW-151E Equip. Class 8A. Motor-Operated Valve

Equipment Description 1A SG AFW Throttle Valve (B HDR) Feedwater Control Valve



File Name: 2-63-6-1-50.jpeg
Description: View of flexible attached lines

Seismic Walkdown Checklist (SWC)

Status: Y N U

Equipment ID No. MOV-1MS-105 Equip. Class 8A. Motor-Operated Valve

Equipment Description AFW Turb Steam ISOL VLV, Common Steam Supply

Location: Bldg. SFGB Floor El. 751

Manufacturer, Model, Etc. _____

Instructions for Completing Checklist

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

Anchorage

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?
Small MOV, ~30" tall.

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

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

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

3. Is the anchorage free of corrosion that is more than mild surface oxidation?
Valve identified in good condition.

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

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

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

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

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

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

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

Seismic Walkdown Checklist (SWC)

Status: N U

Equipment ID No. MOV-1MS-105 Equip. Class 8A. Motor-Operated Valve

Equipment Description AFW Turb Steam ISOL VLV, Common Steam Supply

Interaction Effects

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

| Y | N | U | N/A |
|---|---|---|-----|
| X | | | |

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

| Y | N | U | N/A |
|---|---|---|-----|
| X | | | |

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

| Y | N | U | N/A |
|---|---|---|-----|
| X | | | |

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

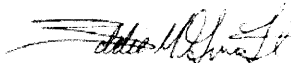
| Y | N | U |
|---|---|---|
| X | | |

Other Adverse Conditions


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

| Y | N | U |
|---|---|---|
| X | | |

Comments (Additional pages may be added as necessary)



Evaluated by: Eddie M. Guerra Date: 10/1/2012



Adam L. Helffrich Date: 10/1/2012

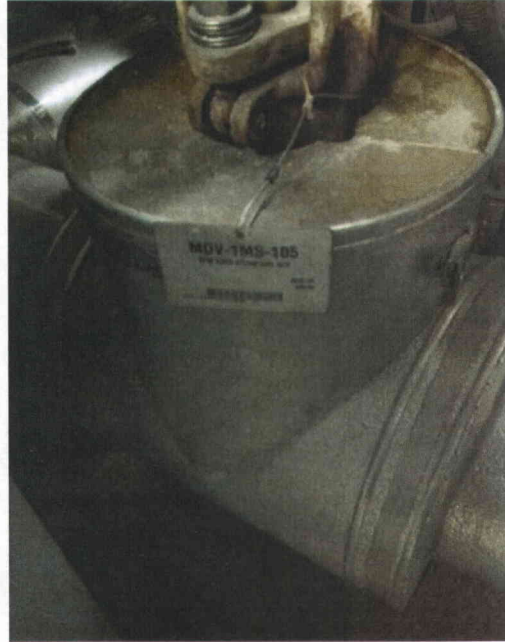
Seismic Walkdown Checklist (SWC)

Status: N U

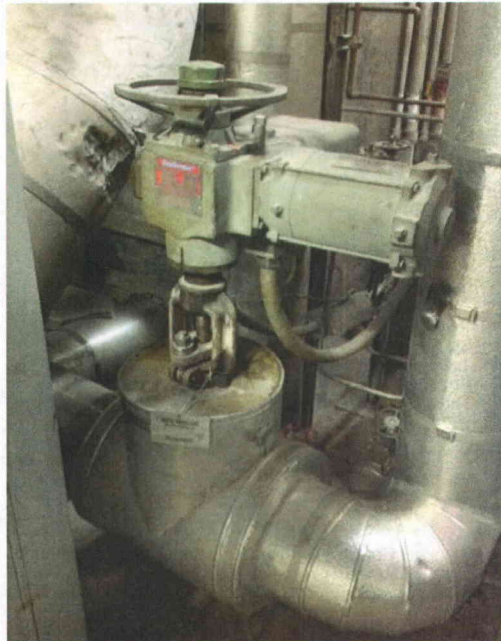
Equipment ID No. MOV-1MS-105 Equip. Class 8A. Motor-Operated Valve

Equipment Description AFW Turb Steam ISOL VLV, Common Steam Supply

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



File Name: 2-61-1-1-32.jpeg
Description: Component Plate ID



File Name: 2-62-1-1-32.jpeg
Description: General view of component

Seismic Walkdown Checklist (SWC)

Status: N U

Equipment ID No. MOV-1MS-105 Equip. Class 8A. Motor-Operated Valve

Equipment Description AFW Turb Steam ISOL VLV, Common Steam Supply



File Name: 2-63-1-1-32.jpeg
Description: View of flexible attached lines

Seismic Walkdown Checklist (SWC)

Status: Y N U

Equipment ID No. MOV-1QS-101B Equip. Class 8A. Motor-Operated Valve

Equipment Description 1B Quench Spray PP Disch ISOL

Location: Bldg. SFGB Floor El. 735

Manufacturer, Model, Etc. _____

Instructions for Completing Checklist

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

Anchorage

- | | | | |
|---|---|--|--|
| Y | N | | |
| | X | | |
1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?
- Valve itself is deep in a pit and inaccessible. Only valve operator at elevation 747 is verified. Operator is attached to shell support with 8-3/8" diameter machine bolts. The shell support is anchored to floor with 4-5/8" diameter anchor bolts.*
- | | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| | | | X |
2. Is the anchorage free of bent, broken, missing or loose hardware?
- | | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| | | | X |
3. Is the anchorage free of corrosion that is more than mild surface oxidation?
- | | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| | | | X |
4. Is the anchorage free of visible cracks in the concrete near the anchors?
- | | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| | | | X |
5. Is the anchorage configuration consistent with plant documentation?
(Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)
- | | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| | | | X |
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?
- | | | |
|---|---|---|
| Y | N | U |
| X | | |

Seismic Walkdown Checklist (SWC)

Status: Y N U

Equipment ID No. MOV-1QS-101B Equip. Class 8A. Motor-Operated Valve

Equipment Description 1B Quench Spray PP Disch ISOL

Interaction Effects

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

| Y | N | U | N/A |
|---|---|---|-----|
| X | | | |

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

| Y | N | U | N/A |
|---|---|---|-----|
| X | | | |

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

Attached lines identified with adequate flexibility.

| Y | N | U | N/A |
|---|---|---|-----|
| X | | | |

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

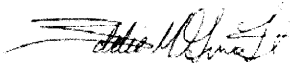
| Y | N | U |
|---|---|---|
| X | | |

Other Adverse Conditions


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

| Y | N | U |
|---|---|---|
| X | | |

Comments (Additional pages may be added as necessary)



Evaluated by: Eddie M. Guerra Date: 10/1/2012



Adam L. Helffrich Date: 10/1/2012

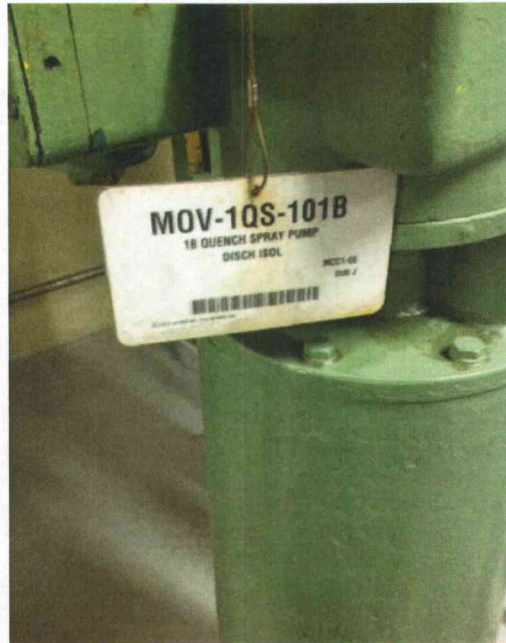
Seismic Walkdown Checklist (SWC)

Status: Y N U

Equipment ID No. MOV-1QS-101B Equip. Class 8A. Motor-Operated Valve

Equipment Description 1B Quench Spray PP Disch ISOL

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



File Name: 2-61-1-1-39.jpeg
Description: Component Plate ID



File Name: 2-62-1-1-39.jpeg
Description: General view of component

Seismic Walkdown Checklist (SWC)

Status: N U

Equipment ID No. MOV-1RW-102A2 Equip. Class 8A. Motor-Operated Valve

Equipment Description 1A RP RW Pump Discharge Valve to A-HDR

Location: Bldg. INTS Floor El. 705

Manufacturer, Model, Etc. _____

Instructions for Completing Checklist

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

Anchorage

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

| | |
|---|---|
| Y | N |
| | X |

Valve is mounted on 14" pipe line. Main line is directly supported below valve location with steel base plate anchored by 8-1/2" anchors.

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

| | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| | | | X |

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

| | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| | | | X |

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

| | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| | | | X |

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

| | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| | | | X |

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

| | | |
|---|---|---|
| Y | N | U |
| X | | |

Seismic Walkdown Checklist (SWC)

Status: Y N U

Equipment ID No. MOV-1RW-102A2 Equip. Class 8A. Motor-Operated Valve

Equipment Description 1A RP RW Pump Discharge Valve to A-HDR

Interaction Effects

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

| Y | N | U | N/A |
|---|---|---|-----|
| X | | | |

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

| Y | N | U | N/A |
|---|---|---|-----|
| X | | | |

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

| Y | N | U | N/A |
|---|---|---|-----|
| X | | | |

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

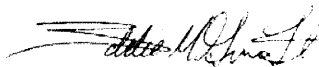
| Y | N | U |
|---|---|---|
| X | | |

Other Adverse Conditions


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

| Y | N | U |
|---|---|---|
| X | | |

Comments (Additional pages may be added as necessary)



Evaluated by: Eddie M. Guerra Date: 10/1/2012



Adam L. Helffrich Date: 10/1/2012

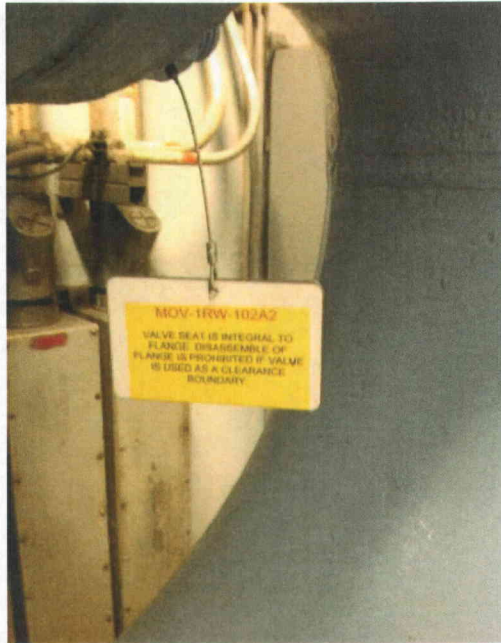
Seismic Walkdown Checklist (SWC)

Status: N U

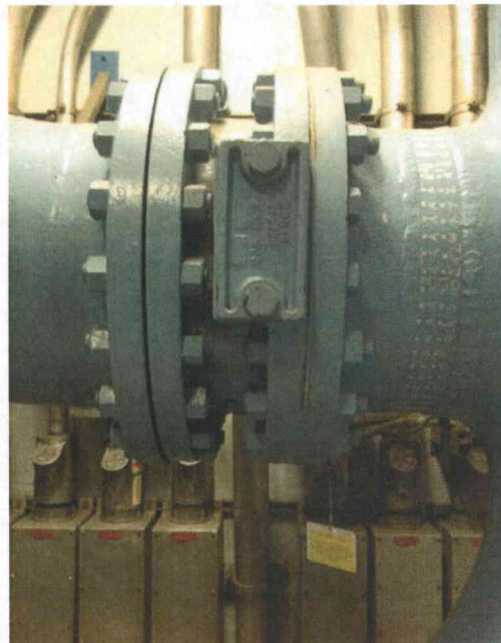
Equipment ID No. MOV-1RW-102A2 Equip. Class 8A. Motor-Operated Valve

Equipment Description 1A RP RW Pump Discharge Valve to A-HDR

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



File Name: 2-61-2-1-27.jpeg
Description: Component Plate ID



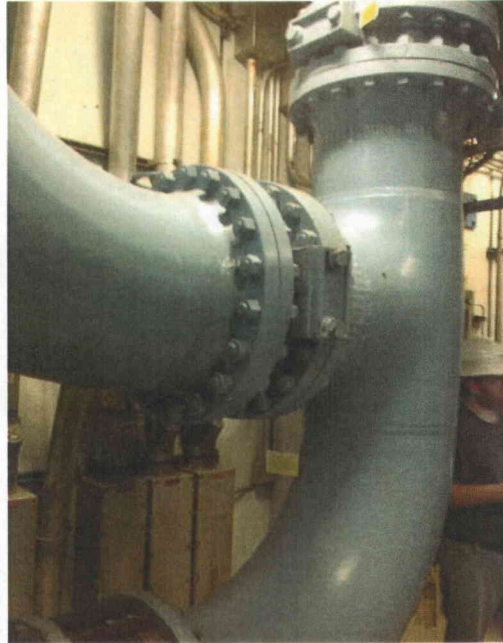
File Name: 2-62-2-1-27.jpeg
Description: General view of component

Seismic Walkdown Checklist (SWC)

Status: N U

Equipment ID No. MOV-1RW-102A2 Equip. Class 8A. Motor-Operated Valve

Equipment Description 1A RP RW Pump Discharge Valve to A-HDR



File Name: 2-63-2-1-27.jpeg

Description: View of valve location on main line

Seismic Walkdown Checklist (SWC)

Status: N U

Equipment ID No. MOV-1RW-103A Equip. Class 8A. Motor-Operated Valve

Equipment Description 1A HDR RP RW to Recirc Spray HXS ISOL Valve

Location: Bldg. AXLB Floor El. 722

Manufacturer, Model, Etc. _____

Instructions for Completing Checklist

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

Anchorage

- | | | | |
|---|---|--|--|
| Y | N | | |
| | X | | |
1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?
Small MOV on ~24" diam line.
- | | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| | | | X |
2. Is the anchorage free of bent, broken, missing or loose hardware?
- | | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| | | | X |
3. Is the anchorage free of corrosion that is more than mild surface oxidation?
Valve identified in good condition.
- | | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| | | | X |
4. Is the anchorage free of visible cracks in the concrete near the anchors?
- | | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| | | | X |
5. Is the anchorage configuration consistent with plant documentation?
(Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)
- | | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| | | | X |
- | | | | | |
|---|---|---|--|--|
| Y | N | U | | |
| X | | | | |
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?

Seismic Walkdown Checklist (SWC)

Status: N U

Equipment ID No. MOV-1RW-103A Equip. Class 8A. Motor-Operated Valve

Equipment Description 1A HDR RP RW to Recirc Spray HXS ISOL Valve

Interaction Effects

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

| Y | N | U | N/A |
|---|---|---|-----|
| X | | | |

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

| Y | N | U | N/A |
|---|---|---|-----|
| X | | | |

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

Attached lines identified with adequate flexibility.

| Y | N | U | N/A |
|---|---|---|-----|
| X | | | |

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

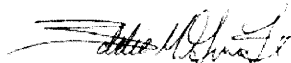
| Y | N | U |
|---|---|---|
| X | | |

Other Adverse Conditions

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

| Y | N | U |
|---|---|---|
| X | | |

Comments (Additional pages may be added as necessary)



Evaluated by: Eddie M. Guerra Date: 10/1/2012



Adam L. Helffrich Date: 10/1/2012

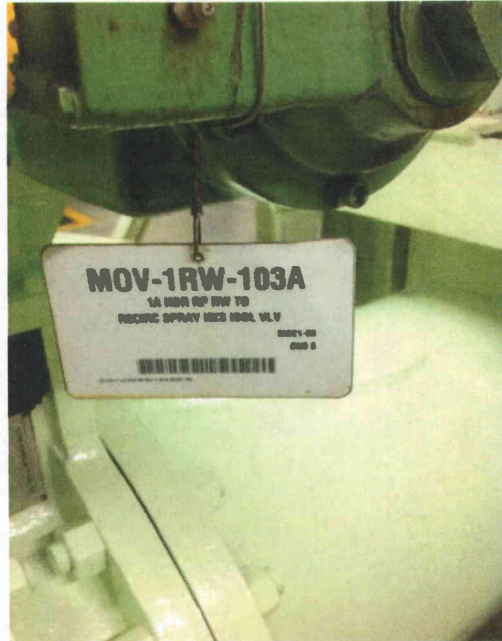
Seismic Walkdown Checklist (SWC)

Status: Ⓢ N U

Equipment ID No. MOV-1RW-103A Equip. Class 8A. Motor-Operated Valve

Equipment Description 1A HDR RP RW to Recirc Spray HXS ISOL Valve

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



File Name: 2-61-3-1-43.jpeg
Description: Component Plate ID



File Name: 2-62-3-1-43.jpeg
Description: General view of component

Seismic Walkdown Checklist (SWC)

Status: N U

Equipment ID No. MOV-1RW-103A Equip. Class 8A. Motor-Operated Valve

Equipment Description 1A HDR RP RW to Recirc Spray HXS ISOL Valve



File Name: 2-63-3-1-43.jpeg
Description: View of flexible attached lines

Seismic Walkdown Checklist (SWC)

Status: Y N U

Equipment ID No. MOV-IRW-103B Equip. Class 8A. Motor-Operated Valve

Equipment Description 1A HdR PP RW to Recirc Spray HXS ISOL Valve

Location: Bldg. AXLB Floor El. 722

Manufacturer, Model, Etc. _____

Instructions for Completing Checklist

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

Anchorage

- | | | | |
|--------------------------|-------------------------------------|--|--|
| Y | N | | |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | | |
1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?
Small MOV on ~24" diam line.
- | | | | |
|--------------------------|--------------------------|--------------------------|-------------------------------------|
| Y | N | U | N/A |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
2. Is the anchorage free of bent, broken, missing or loose hardware?
- | | | | |
|--------------------------|--------------------------|--------------------------|-------------------------------------|
| Y | N | U | N/A |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
3. Is the anchorage free of corrosion that is more than mild surface oxidation?
Valve identified in good condition.
- | | | | |
|--------------------------|--------------------------|--------------------------|-------------------------------------|
| Y | N | U | N/A |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
4. Is the anchorage free of visible cracks in the concrete near the anchors?
- | | | | |
|--------------------------|--------------------------|--------------------------|-------------------------------------|
| Y | N | U | N/A |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
5. Is the anchorage configuration consistent with plant documentation?
(Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)
- | | | | |
|--------------------------|--------------------------|--------------------------|-------------------------------------|
| Y | N | U | N/A |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
- | | | | | |
|-------------------------------------|--------------------------|--------------------------|--|--|
| Y | N | U | | |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | |
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?

Seismic Walkdown Checklist (SWC)

Status: Y N U

Equipment ID No. MOV-1RW-103B Equip. Class 8A. Motor-Operated Valve

Equipment Description 1A HdR PP RW to Recirc Spray HXS ISOL Valve

Interaction Effects

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

| Y | N | U | N/A |
|---|---|---|-----|
| X | | | |

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

| Y | N | U | N/A |
|---|---|---|-----|
| X | | | |

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

Attached lines identified with adequate flexibility.

| Y | N | U | N/A |
|---|---|---|-----|
| X | | | |

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

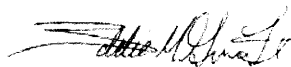
| Y | N | U |
|---|---|---|
| X | | |

Other Adverse Conditions

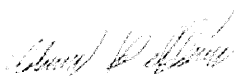
11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment?

| Y | N | U |
|---|---|---|
| X | | |

Comments (Additional pages may be added as necessary)



Evaluated by: Eddie M. Guerra Date: 10/1/2012



Adam L. Helffrich Date: 10/1/2012

Seismic Walkdown Checklist (SWC)

Status: V N U

Equipment ID No. MOV-1RW-103B Equip. Class 8A. Motor-Operated Valve

Equipment Description 1A HdR PP RW to Recirc Spray HXS ISOL Valve

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



File Name: 2-61-2-1-43.jpeg
Description: Component Plate ID



File Name: 2-62-2-1-43.jpeg
Description: General view of component

Seismic Walkdown Checklist (SWC)

Status: Y N U

Equipment ID No. MOV-1RW-103B Equip. Class 8A. Motor-Operated Valve

Equipment Description 1A HdR PP RW to Recirc Spray HXS ISOL Valve



File Name: 2-63-2-1-43.jpeg
Description: View of flexible attached lines

Seismic Walkdown Checklist (SWC)

Status: Y N U

Equipment ID No. MOV-1RW-113B Equip. Class 8A. Motor-Operated Valve

Equipment Description Diesel Gen HX (1EE-E-1A) Inlet 1A Supply HDR ISOL

Location: Bldg. DGBX Floor El. 735

Manufacturer, Model, Etc. _____

Instructions for Completing Checklist

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

Anchorage

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?
Small MOV mounted on 6" diam pipe line. Pipe found to be well supported.

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

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

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

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

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

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

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

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

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

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

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

Seismic Walkdown Checklist (SWC)

Status: N U

Equipment ID No. MOV-1RW-113B Equip. Class 8A. Motor-Operated Valve

Equipment Description Diesel Gen HX (1EE-E-1A) Inlet 1A Supply HDR ISOL

Interaction Effects

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

| Y | N | U | N/A |
|---|---|---|-----|
| X | | | |

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

| Y | N | U | N/A |
|---|---|---|-----|
| X | | | |

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

Attached lines identified with adequate flexibility.

| Y | N | U | N/A |
|---|---|---|-----|
| X | | | |

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

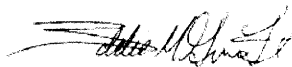
| Y | N | U |
|---|---|---|
| X | | |

Other Adverse Conditions

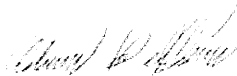
11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment?

| Y | N | U |
|---|---|---|
| X | | |

Comments (Additional pages may be added as necessary)



Evaluated by: Eddie M. Guerra Date: 10/1/2012



Adam L. Helffrich Date: 10/1/2012

Seismic Walkdown Checklist (SWC)

Status: Y N U

Equipment ID No. MOV-1RW-113B Equip. Class 8A. Motor-Operated Valve

Equipment Description Diesel Gen HX (1EE-E-1A) Inlet 1A Supply HDR ISOL

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



File Name: 2-61-6-1-20.jpeg
Description: Component Plate ID



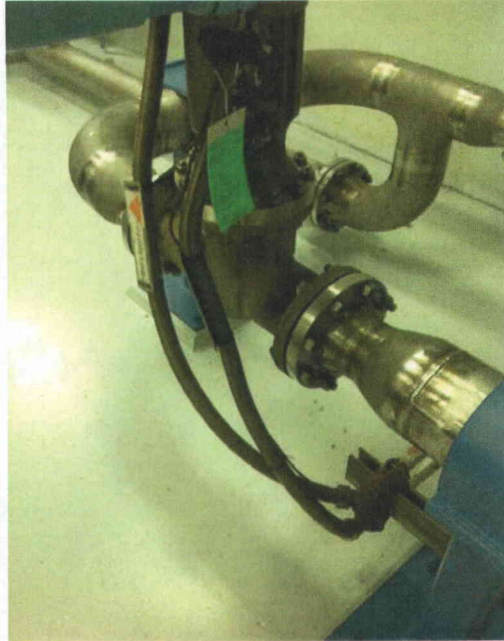
File Name: 2-62-6-1-20.jpeg
Description: General view of component

Seismic Walkdown Checklist (SWC)

Status: Ⓢ N U

Equipment ID No. MOV-1RW-113B Equip. Class 8A. Motor-Operated Valve

Equipment Description Diesel Gen HX (1EE-E-1A) Inlet 1A Supply HDR ISOL



File Name: 2-63-6-1-20.jpeg

Description: View of flexible attached lines

Seismic Walkdown Checklist (SWC)

Status: Y N U

Equipment ID No. MOV-1RW-114B Equip. Class 8A. Motor-Operated Valve

Equipment Description CCR HX ISOL

Location: Bldg. AXLB Floor El. 722

Manufacturer, Model, Etc. _____

Instructions for Completing Checklist

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

Anchorage

- | | | | |
|---|---|--|--|
| Y | N | | |
| | X | | |
1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?
Small MOV on ~24" diam line.
- | | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| | | | X |
2. Is the anchorage free of bent, broken, missing or loose hardware?
- | | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| | | | X |
3. Is the anchorage free of corrosion that is more than mild surface oxidation?
Slight corrosion visible at packing. Tag No. 57468 identifies the rust issue.
- | | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| | | | X |
4. Is the anchorage free of visible cracks in the concrete near the anchors?
- | | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| | | | X |
5. Is the anchorage configuration consistent with plant documentation?
(Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)
- | | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| | | | X |
- | | | | | |
|---|---|---|--|--|
| Y | N | U | | |
| X | | | | |
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?

Seismic Walkdown Checklist (SWC)

Status: Y N U

Equipment ID No. MOV-1RW-114B Equip. Class 8A. Motor-Operated Valve

Equipment Description CCR HX ISOL

Interaction Effects

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

| | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| X | | | |

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

| | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| X | | | |

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

| | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| X | | | |

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

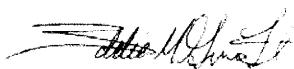
| | | |
|---|---|---|
| Y | N | U |
| X | | |

Other Adverse Conditions

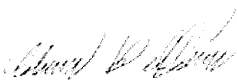
11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment?

| | | |
|---|---|---|
| Y | N | U |
| X | | |

Comments (Additional pages may be added as necessary)



Evaluated by: Eddie M. Guerra Date: 10/1/2012



Adam L. Helffrich Date: 10/1/2012

Seismic Walkdown Checklist (SWC)

Status: Y N U

Equipment ID No. MOV-1RW-114B Equip. Class 8A. Motor-Operated Valve

Equipment Description CCR HX ISOL

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



File Name: 2-61-4-1-43.jpeg
Description: Component Plate ID



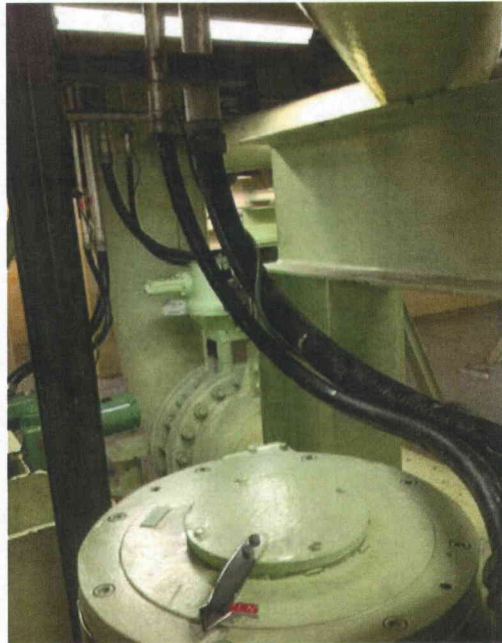
File Name: 2-62-4-1-43.jpeg
Description: General view of component

Seismic Walkdown Checklist (SWC)

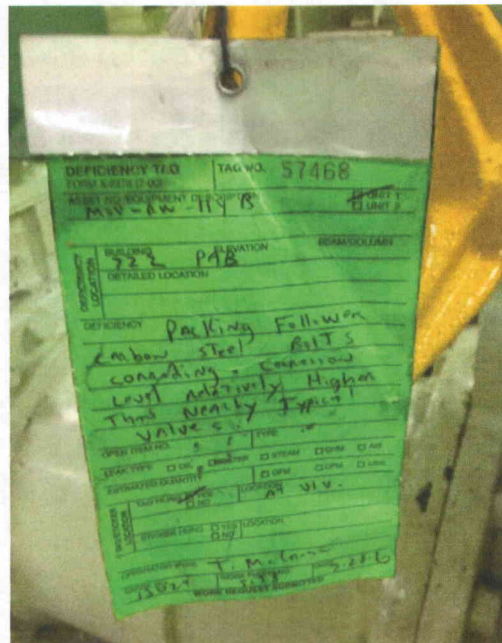
Status: V N U

Equipment ID No. MOV-1RW-114B Equip. Class 8A. Motor-Operated Valve

Equipment Description CCR HX ISOL



File Name: 2-63-4-1-43.jpeg
Description: View of flexible attached lines



File Name: 2-64-4-1-43.jpeg
Description: View of deficiency tag identifying moderate corrosion stage

Seismic Walkdown Checklist (SWC)

Status: Y N U

Equipment ID No. MOV-1RW-117 Equip. Class 8A. Motor-Operated Valve

Equipment Description 1B HDR RP RW SUP to CNMT Air Recirc CLRS/CMPR

Location: Bldg. AXLB Floor El. 722

Manufacturer, Model, Etc. _____

Instructions for Completing Checklist

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

Anchorage

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

| | |
|---|---|
| Y | N |
| | X |

Small MOV on ~8" diam line. Line is well supported near valve.

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

| | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| | | | X |

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

| | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| | | | X |

Valve identified in good condition.

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

| | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| | | | X |

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

| | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| | | | X |

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

| | | |
|---|---|---|
| Y | N | U |
| X | | |

Seismic Walkdown Checklist (SWC)

Status: N U

Equipment ID No. MOV-1RW-117 Equip. Class 8A. Motor-Operated Valve

Equipment Description 1B HDR RP RW SUP to CNMT Air Recirc CLRS/CMPR

Interaction Effects

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

| Y | N | U | N/A |
|---|---|---|-----|
| X | | | |

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

| Y | N | U | N/A |
|---|---|---|-----|
| X | | | |

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

| Y | N | U | N/A |
|---|---|---|-----|
| X | | | |

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


| Y | N | U |
|---|---|---|
| X | | |

Other Adverse Conditions

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

| Y | N | U |
|---|---|---|
| X | | |

Comments (Additional pages may be added as necessary)



Evaluated by: Eddie M. Guerra Date: 10/1/2012



Adam L. Helffrich Date: 10/1/2012

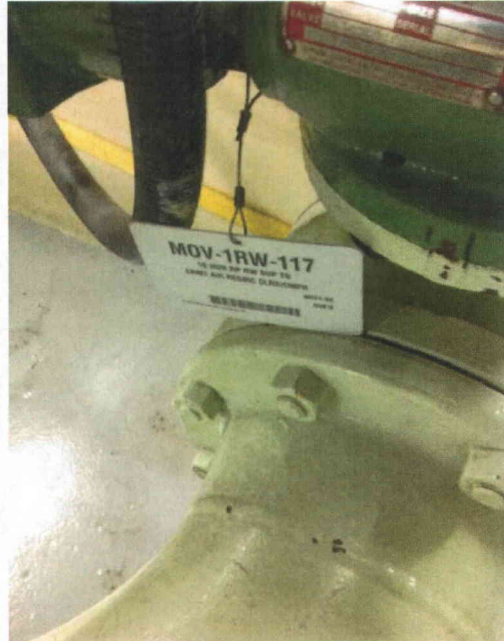
Seismic Walkdown Checklist (SWC)

Status: N U

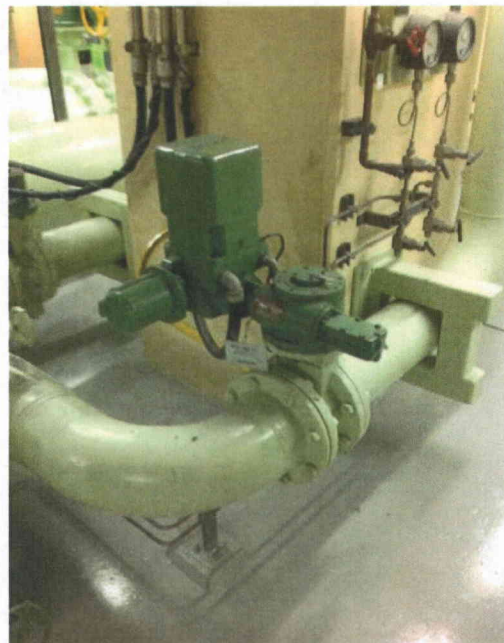
Equipment ID No. MOV-1RW-117 Equip. Class 8A. Motor-Operated Valve

Equipment Description 1B HDR RP RW SUP to CNMT Air Recirc CLRS/CMPR

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



File Name: 2-61-1-1-43.jpeg
Description: Component Plate ID



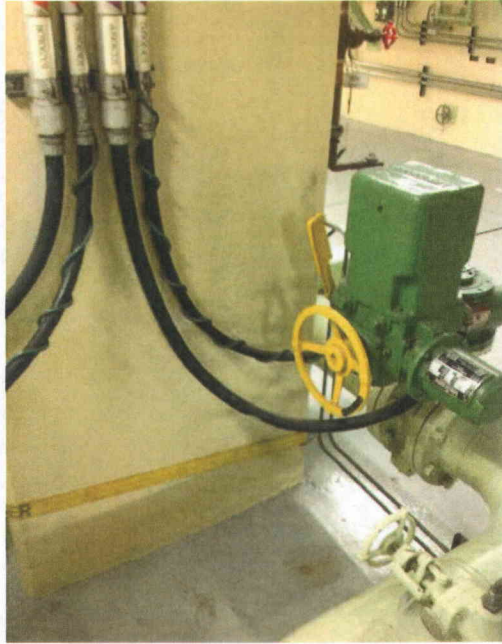
File Name: 2-62-1-1-43.jpeg
Description: General view of component

Seismic Walkdown Checklist (SWC)

Status: N U

Equipment ID No. MOV-1RW-117 Equip. Class 8A. Motor-Operated Valve

Equipment Description 1B HDR RP RW SUP to CNMT Air Recirc CLRS/CMPR



File Name: 2-63-1-1-43.jpeg
Description: View of flexible attached lines

Seismic Walkdown Checklist (SWC)

Status: Y N U

Equipment ID No. MOV-1SI-860B Equip. Class 8A. Motor-Operated Valve

Equipment Description Sump Valve

Location: Bldg. SFGB Floor El. 747

Manufacturer, Model, Etc. _____

Instructions for Completing Checklist

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

Anchorage

- | | | | |
|--------------------------|-------------------------------------|--|--|
| Y | N | | |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | | |
1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?
- Valve is located deep in a pit and is inaccessible. Only valve operator at elevation 747 is verified. Operator is attached to shell support with 8-3/8" diameter machine bolts. The shell support is anchored to floor with 4-5/8" diameter anchor bolts.*
- | | | | |
|--------------------------|--------------------------|--------------------------|-------------------------------------|
| Y | N | U | N/A |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
2. Is the anchorage free of bent, broken, missing or loose hardware?
- | | | | |
|--------------------------|--------------------------|--------------------------|-------------------------------------|
| Y | N | U | N/A |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
3. Is the anchorage free of corrosion that is more than mild surface oxidation?
- | | | | |
|--------------------------|--------------------------|--------------------------|-------------------------------------|
| Y | N | U | N/A |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
4. Is the anchorage free of visible cracks in the concrete near the anchors?
- | | | | |
|--------------------------|--------------------------|--------------------------|-------------------------------------|
| Y | N | U | N/A |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
5. Is the anchorage configuration consistent with plant documentation?
(Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)
- | | | | |
|--------------------------|--------------------------|--------------------------|-------------------------------------|
| Y | N | U | N/A |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?
- | | | |
|-------------------------------------|--------------------------|--------------------------|
| Y | N | U |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

Seismic Walkdown Checklist (SWC)

Status: Y N U

Equipment ID No. MOV-1SI-860B Equip. Class 8A. Motor-Operated Valve

Equipment Description Sump Valve

Interaction Effects

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

| | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| X | | | |

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

| | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| X | | | |

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

| | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| X | | | |

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

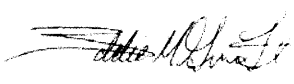
| | | |
|---|---|---|
| Y | N | U |
| X | | |

Other Adverse Conditions


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

| | | |
|---|---|---|
| Y | N | U |
| X | | |

Comments (Additional pages may be added as necessary)



Evaluated by: Eddie M. Guerra Date: 10/1/2012



Adam L. Helffrich Date: 10/1/2012

Seismic Walkdown Checklist (SWC)

Status: N U

Equipment ID No. MOV-1SI-860B Equip. Class 8A. Motor-Operated Valve

Equipment Description Sump Valve

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



File Name: 2-61-1-1-58.jpeg
Description: Component Plate ID



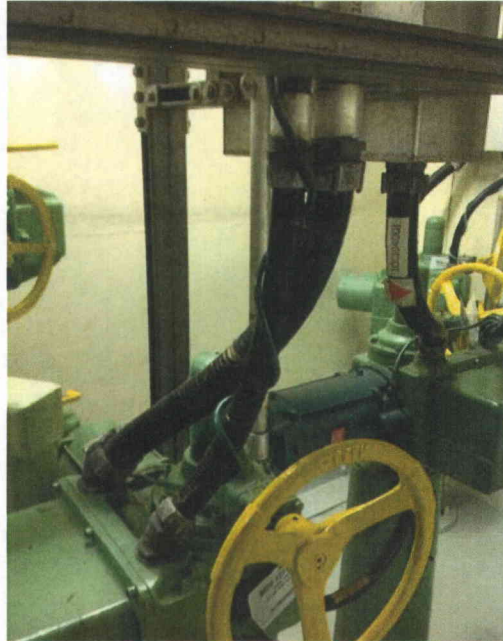
File Name: 2-62-1-1-58.jpeg
Description: General view of component

Seismic Walkdown Checklist (SWC)

Status: N U

Equipment ID No. MOV-1SI-860B Equip. Class 8A. Motor-Operated Valve

Equipment Description Sump Valve



File Name: 2-63-1-1-58.jpeg
Description: View of flexible attached lines

Seismic Walkdown Checklist (SWC)

Status: N U

Equipment ID No. MOV-1SI-862A Equip. Class 8A. Motor-Operated Valve

Equipment Description 1A LHSI RWST SUCT ISOL

Location: Bldg. SFGB Floor El. 747

Manufacturer, Model, Etc. _____

Instructions for Completing Checklist

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

Anchorage

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

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

Valve is located deep in a pit and is inaccessible. Only valve operator at elevation 747 is verified. Operator attached to supports with 8-3/8" diam anchor bolts. Operator is attached to shell support with 8-3/8" diameter machine bolts. The shell support is anchored to floor with 4-5/8" diameter anchor bolts.

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

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

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

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

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

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

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

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

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

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

Seismic Walkdown Checklist (SWC)

Status: Y N U

Equipment ID No. MOV-1SI-862A Equip. Class 8A. Motor-Operated Valve

Equipment Description 1A LHSI RWST SUCT ISOL

Interaction Effects

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

| Y | N | U | N/A |
|---|---|---|-----|
| X | | | |

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

| Y | N | U | N/A |
|---|---|---|-----|
| X | | | |

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

Attached lines identified with adequate flexibility.

| Y | N | U | N/A |
|---|---|---|-----|
| X | | | |

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

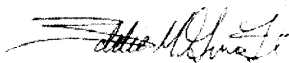
| Y | N | U |
|---|---|---|
| X | | |

Other Adverse Conditions

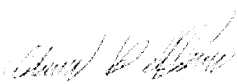
11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment?

| Y | N | U |
|---|---|---|
| X | | |

Comments (Additional pages may be added as necessary)



Evaluated by: Eddie M. Guerra Date: 10/1/2012



Adam L. Helffrich Date: 10/1/2012

Seismic Walkdown Checklist (SWC)

Status: Y N U

Equipment ID No. MOV-1SI-862A Equip. Class 8A. Motor-Operated Valve

Equipment Description 1A LHSI RWST SUCT ISOL

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



File Name: 2-61-2-1-58.jpeg
Description: Component Plate ID



File Name: 2-62-2-1-58.jpeg
Description: General view of component

Seismic Walkdown Checklist (SWC)

Status:

Equipment ID No. MOV-1SI-862A Equip. Class 8A. Motor-Operated Valve

Equipment Description 1A LHSI RWST SUCT ISOL



File Name: 2-63-2-1-58.jpeg
Description: View of flexible attached lines

Seismic Walkdown Checklist (SWC)

Status: Y N U

Equipment ID No. PI-1RW-102A1 Equip. Class 18. Instrument (on) Racks

Equipment Description CCR HX River Water Inlet Press gauge

Location: Bldg. AXLB Floor El. 735

Manufacturer, Model, Etc. _____

Instructions for Completing Checklist

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

Anchorage

- | | | | |
|---|---|--|--|
| Y | N | | |
| X | X | | |
1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?
Instrument on rack which is made of 2 1/2" diam post anchored with 4-1/2" diam anchor bolts. Post is around 5'-6" tall. Instrument is light weight (~1 lb) and is attached to 1/4" face plate with 3-1/8" diam machine bolts.
- | | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| X | | | |
2. Is the anchorage free of bent, broken, missing or loose hardware?
- | | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| X | | | |
3. Is the anchorage free of corrosion that is more than mild surface oxidation?
- | | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| X | | | |
4. Is the anchorage free of visible cracks in the concrete near the anchors?
- | | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| X | | | |
5. Is the anchorage configuration consistent with plant documentation?
(Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)
- | | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| | | | X |
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?
- | | | |
|---|---|---|
| Y | N | U |
| X | | |

Seismic Walkdown Checklist (SWC)

Status: Y N U

Equipment ID No. PI-1RW-102A1 Equip. Class 18. Instrument (on) Racks

Equipment Description CCR HX River Water Inlet Press gauge

Interaction Effects

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

| Y | N | U | N/A |
|---|---|---|-----|
| X | | | |

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

| Y | N | U | N/A |
|---|---|---|-----|
| X | | | |

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

Attached lines identified with adequate flexibility.

| Y | N | U | N/A |
|---|---|---|-----|
| X | | | |

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

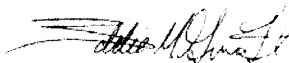
| Y | N | U |
|---|---|---|
| X | | |

Other Adverse Conditions


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

| Y | N | U |
|---|---|---|
| X | | |

Comments (Additional pages may be added as necessary)



Evaluated by: Eddie M. Guerra Date: 10/1/2012



Adam L. Helffrich Date: 10/1/2012

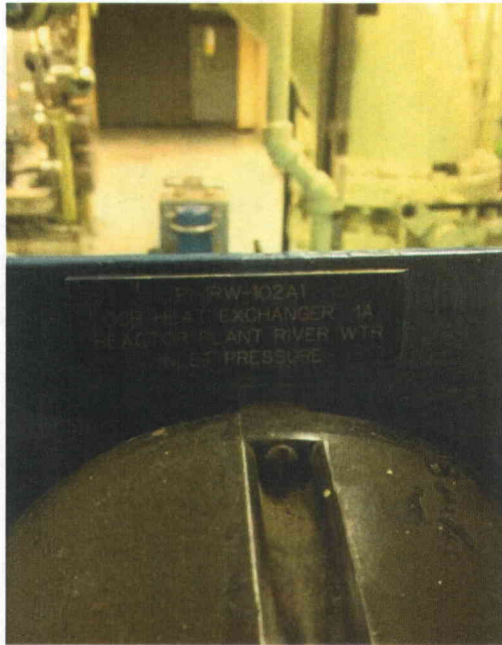
Seismic Walkdown Checklist (SWC)

Status: N U

Equipment ID No. PI-1RW-102A1 Equip. Class 18. Instrument (on) Racks

Equipment Description CCR HX River Water Inlet Press gauge

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



File Name: 2-61-2-1-46.jpeg
Description: Component Plate ID



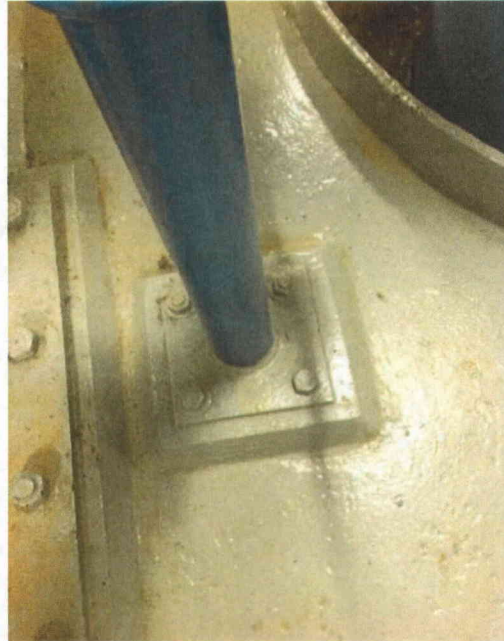
File Name: 2-62-2-1-46.jpeg
Description: General view of component

Seismic Walkdown Checklist (SWC)

Status: N U

Equipment ID No. PI-1RW-102A1 Equip. Class 18. Instrument (on) Racks

Equipment Description CCR HX River Water Inlet Press gauge



File Name: 2-63-2-1-46.jpeg
Description: View of base anchorage configuration

Seismic Walkdown Checklist (SWC)

Status: Y N U

Equipment ID No. PCV-1MS-101C Equip. Class 8B. Solenoid Valve

Equipment Description 1C SG ATM Steam Dump Valve

Location: Bldg. SFGB Floor El. 768

Manufacturer, Model, Etc. _____

Instructions for Completing Checklist

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

Anchorage

- | | | | |
|---|---|--|--|
| Y | N | | |
| | X | | |
1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?
-
- | | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| | | | X |
2. Is the anchorage free of bent, broken, missing or loose hardware?
-
- | | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| | | | X |
3. Is the anchorage free of corrosion that is more than mild surface oxidation?
Valve found in good condition.
-
- | | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| | | | X |
4. Is the anchorage free of visible cracks in the concrete near the anchors?
-
- | | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| | | | X |
5. Is the anchorage configuration consistent with plant documentation?
(Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)
-
- | | | | | |
|---|---|---|--|--|
| Y | N | U | | |
| X | | | | |
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?

Seismic Walkdown Checklist (SWC)

Status: Y N U

Equipment ID No. PCV-1MS-101C Equip. Class 8B. Solenoid Valve

Equipment Description 1C SG ATM Steam Dump Valve

Interaction Effects

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

| Y | N | U | N/A |
|---|---|---|-----|
| X | | | |

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

| Y | N | U | N/A |
|---|---|---|-----|
| X | | | |

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

Attached lines identified with adequate flexibility.

| Y | N | U | N/A |
|---|---|---|-----|
| X | | | |

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

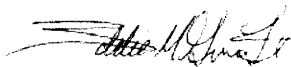
| Y | N | U |
|---|---|---|
| X | | |

Other Adverse Conditions

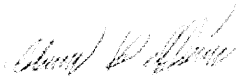
11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment?

| Y | N | U |
|---|---|---|
| X | | |

Comments (Additional pages may be added as necessary)



Evaluated by: Eddie M. Guerra Date: 10/1/2012



Adam L. Helffrich Date: 10/1/2012

Seismic Walkdown Checklist (SWC)

Status: Y N U

Equipment ID No. PCV-1MS-101C Equip. Class 8B. Solenoid Valve

Equipment Description 1C SG ATM Steam Dump Valve

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



File Name: 2-61-3-1-32.jpeg
Description: General view of component



File Name: 2-62-3-1-32.jpeg
Description: View of valve on main pipe line

Seismic Walkdown Checklist (SWC)

Status: N U

Equipment ID No. PNL-1MS-101A Equip. Class 20. Instrument and Control Panels

Equipment Description (PCV-MS-101A) Instrument Panel

Location: Bldg. SFGB Floor El. 751

Manufacturer, Model, Etc. _____

Instructions for Completing Checklist

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

Anchorage

- | | |
|---|---|
| Y | N |
| X | |
1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?
Instrument rack identified with two HSS 3x3 posts ~5' tall. Each post anchored with 4-1/2" diam anchor bolts. All instruments adequately attached to 1/4" face plate. Face plate is adequately welded to each post.
- | | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| X | | | |
2. Is the anchorage free of bent, broken, missing or loose hardware?
- | | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| X | | | |
3. Is the anchorage free of corrosion that is more than mild surface oxidation?
- | | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| X | | | |
4. Is the anchorage free of visible cracks in the concrete near the anchors?
- | | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| X | | | |
5. Is the anchorage configuration consistent with plant documentation?
(Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)
Sketch in PNL-1MS-101A SEWS shows actual anchorage configuration
- | | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| X | | | |
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?
- | | | |
|---|---|---|
| Y | N | U |
| X | | |

Seismic Walkdown Checklist (SWC)

Status: Y N U

Equipment ID No. PNL-1MS-101A Equip. Class 20. Instrument and Control Panels

Equipment Description (PCV-MS-101A) Instrument Panel

Interaction Effects

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

| Y | N | U | N/A |
|---|---|---|-----|
| X | | | |

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

| Y | N | U | N/A |
|---|---|---|-----|
| X | | | |

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

| Y | N | U | N/A |
|---|---|---|-----|
| X | | | |

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

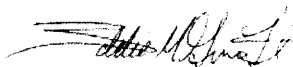
| Y | N | U |
|---|---|---|
| X | | |

Other Adverse Conditions

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

| Y | N | U |
|---|---|---|
| X | | |

Comments (Additional pages may be added as necessary)



Evaluated by: Eddie M. Guerra Date: 10/1/2012



Adam L. Helffrich Date: 10/1/2012

Seismic Walkdown Checklist (SWC)

Status: Y N U

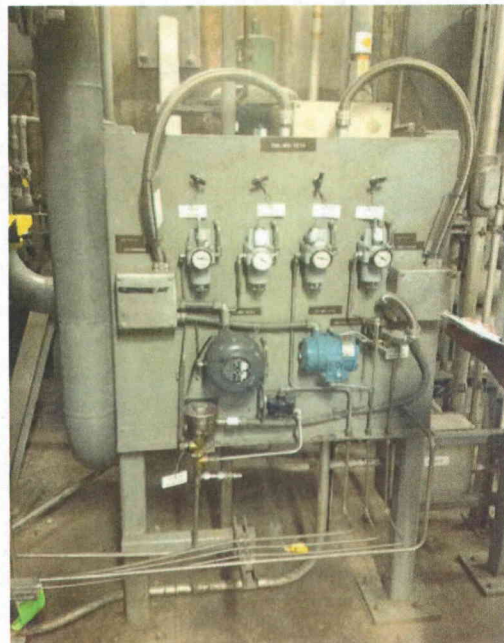
Equipment ID No. PNL-1MS-101A Equip. Class 20. Instrument and Control Panels

Equipment Description (PCV-MS-101A) Instrument Panel

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



File Name: 2-61-7-1-32.jpeg
Description: Component Plate ID



File Name: 2-62-7-1-32.jpeg
Description: General view of component

Seismic Walkdown Checklist (SWC)

Status: N U

Equipment ID No. PNL-1MS-101A Equip. Class 20. Instrument and Control Panels

Equipment Description (PCV-MS-101A) Instrument Panel



File Name: 2-63-7-1-32.jpeg
Description: View of base anchorage configuration



File Name: 2-64-7-1-32.jpeg
Description: View of flexible attached lines

Seismic Walkdown Checklist (SWC)

Status: N U

Equipment ID No. PNL-1MS-101B Equip. Class 20. Instrument and Control Panels

Equipment Description (PCV-MS-101B) Instrument Panel

Location: Bldg. SFGB Floor El. 751

Manufacturer, Model, Etc. _____

Instructions for Completing Checklist

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

Anchorage

- | | |
|---|---|
| Y | N |
| X | |
1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?
- Instrument rack identified with two HSS 3x3 posts ~5' tall. Each post anchored with 4-1/2" diam anchor bolts. All instruments adequately attached to 1/4" face plate. Face plate is adequately welded to each post.*
- | | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| X | | | |
2. Is the anchorage free of bent, broken, missing or loose hardware?
- | | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| X | | | |
3. Is the anchorage free of corrosion that is more than mild surface oxidation?
- | | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| X | | | |
4. Is the anchorage free of visible cracks in the concrete near the anchors?
- | | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| X | | | |
5. Is the anchorage configuration consistent with plant documentation?
(Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)
Sketch in PNL-1MS-101B SEWS shows actual anchorage configuration
- | | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| X | | | |
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?
- | | | |
|---|---|---|
| Y | N | U |
| X | | |

Seismic Walkdown Checklist (SWC)

Status: Y N U

Equipment ID No. PNL-1MS-101B Equip. Class 20. Instrument and Control Panels

Equipment Description (PCV-MS-101B) Instrument Panel

Interaction Effects

- | | Y | N | U | N/A |
|---|---|---|---|-----|
| 7. Are soft targets free from impact by nearby equipment or structures? | X | | | |
| 8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? | X | | | |
| 9. Do attached lines have adequate flexibility to avoid damage? | X | | | |
| 10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? | X | | | |

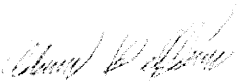
Other Adverse Conditions

- | | Y | N | U |
|--|---|---|---|
| 11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? | X | | |

Comments (Additional pages may be added as necessary)



Evaluated by: Eddie M. Guerra Date: 10/1/2012



Adam L. Helffrich Date: 10/1/2012

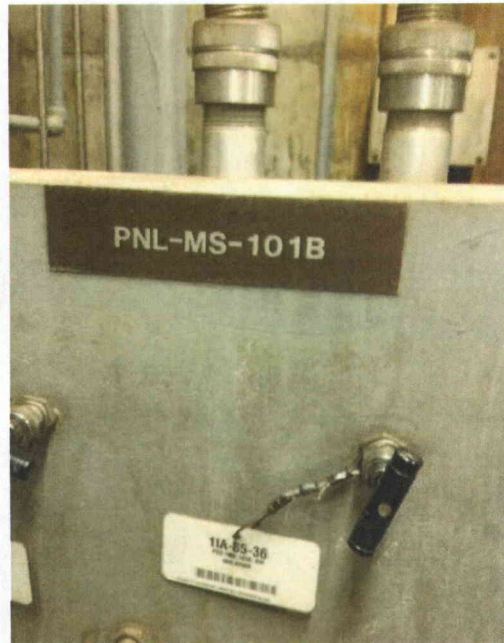
Seismic Walkdown Checklist (SWC)

Status: Y N U

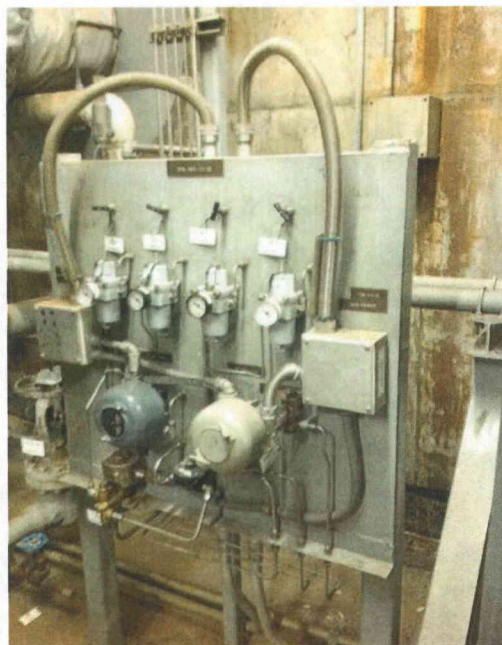
Equipment ID No. PNL-1MS-101B Equip. Class 20. Instrument and Control Panels

Equipment Description (PCV-MS-101B) Instrument Panel

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



File Name: 2-61-8-1-32.jpeg
Description: Component Plate ID



File Name: 2-62-8-1-32.jpeg
Description: General view of component

Seismic Walkdown Checklist (SWC)

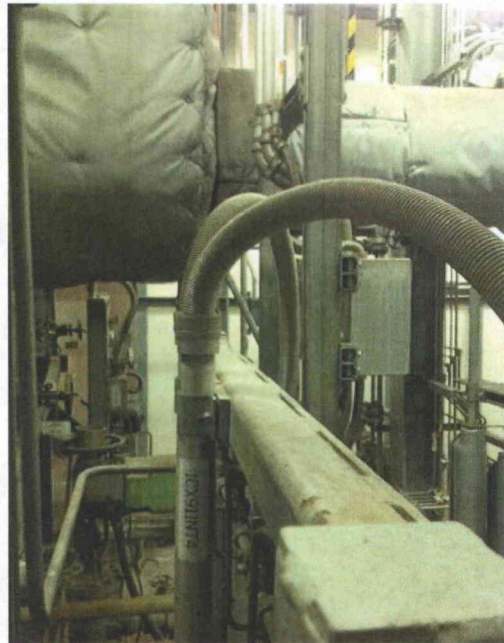
Status: N U

Equipment ID No. PNL-1MS-101B Equip. Class 20. Instrument and Control Panels

Equipment Description (PCV-MS-101B) Instrument Panel



File Name: 2-63-8-1-32.jpeg
Description: View of base anchorage configuration



File Name: 2-64-8-1-32.jpeg
Description: View of flexible attached lines

Seismic Walkdown Checklist (SWC)

Status: Y N U

Equipment ID No. PNL-AC1-BUS-1E Equip. Class 20. Instrument and Control Panels

Equipment Description AC BUS Panel 1E

Location: Bldg. SRVB Floor El. 713

Manufacturer, Model, Etc. _____

Instructions for Completing Checklist

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

Anchorage

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

| | |
|---|---|
| Y | N |
| X | X |

Small panel mounted on wall with 4-1/2" diam anchor bolts. Panel size around 24" x 24" x 8".

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

| | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| X | | | |

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

| | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| X | | | |

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

| | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| X | | | |

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

| | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| | | | X |

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

| | | |
|---|---|---|
| Y | N | U |
| X | | |

Seismic Walkdown Checklist (SWC)

Status: Y N U

Equipment ID No. PNL-ACI-BUS-1E Equip. Class 20. Instrument and Control Panels

Equipment Description AC BUS Panel 1E

Interaction Effects

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

| Y | N | U | N/A |
|---|---|---|-----|
| X | | | |

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

| Y | N | U | N/A |
|---|---|---|-----|
| X | | | |

Block walls from battery room are nearby component.

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

| Y | N | U | N/A |
|---|---|---|-----|
| X | | | |

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

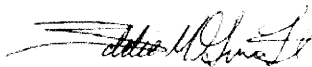
| Y | N | U |
|---|---|---|
| X | | |

Other Adverse Conditions

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

| Y | N | U |
|---|---|---|
| X | | |

Comments (Additional pages may be added as necessary)



Evaluated by: Eddie M. Guerra Date: 10/1/2012



Adam L. Helffrich Date: 10/1/2012

Seismic Walkdown Checklist (SWC)

Status: N U

Equipment ID No. PNL-AC1-BUS-1E Equip. Class 20. Instrument and Control Panels

Equipment Description AC BUS Panel 1E

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



File Name: 2-61-4-1-25.jpeg
Description: Component Plate ID



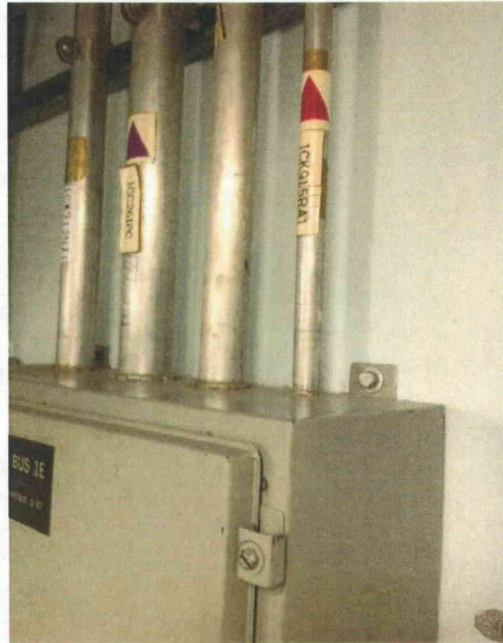
File Name: 2-62-4-1-25.jpeg
Description: General view of component

Seismic Walkdown Checklist (SWC)

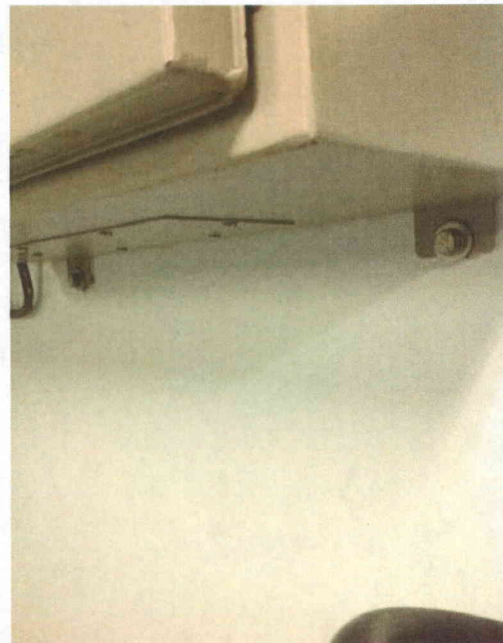
Status: N U

Equipment ID No. PNL-AC1-BUS-1E Equip. Class 20. Instrument and Control Panels

Equipment Description AC BUS Panel 1E



File Name: 2-63-4-1-25.jpeg
Description: View of top entry conduits



File Name: 2-64-4-1-25.jpeg
Description: View of typical wall anchorage configuration

Seismic Walkdown Checklist (SWC)

Status: N U

Equipment ID No. PNL-AC1-E1 Equip. Class 20. Instrument and Control Panels

Equipment Description AC Distribution Panel

Location: Bldg. SRVB Floor El. 713

Manufacturer, Model, Etc. _____

Instructions for Completing Checklist

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

Anchorage

- | | |
|--------------------------|-------------------------------------|
| Y | N |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?
Wall-mounted panel (size ~36"x48"x16"), anchored with eight 1/2" diameter anchor bolts.
- | | | | |
|-------------------------------------|--------------------------|--------------------------|--------------------------|
| Y | N | U | N/A |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
2. Is the anchorage free of bent, broken, missing or loose hardware?
- | | | | |
|-------------------------------------|--------------------------|--------------------------|--------------------------|
| Y | N | U | N/A |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
3. Is the anchorage free of corrosion that is more than mild surface oxidation?
- | | | | |
|-------------------------------------|--------------------------|--------------------------|--------------------------|
| Y | N | U | N/A |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
4. Is the anchorage free of visible cracks in the concrete near the anchors?
- | | | | |
|-------------------------------------|--------------------------|--------------------------|--------------------------|
| Y | N | U | N/A |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
5. Is the anchorage configuration consistent with plant documentation?
(Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)
- | | | | |
|--------------------------|--------------------------|--------------------------|-------------------------------------|
| Y | N | U | N/A |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?
- | | | |
|-------------------------------------|--------------------------|--------------------------|
| Y | N | U |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

Seismic Walkdown Checklist (SWC)

Status: Y N U

Equipment ID No. PNL-AC1-E1 Equip. Class 20. Instrument and Control Panels

Equipment Description AC Distribution Panel

Interaction Effects

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

| Y | N | U | N/A |
|---|---|---|-----|
| X | | | |

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

Block walls in the area have been qualified per IE 80-11 review. Respective block walls include: SB1-11, SB1-12 and SB1-15.

| Y | N | U | N/A |
|---|---|---|-----|
| X | | | |

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

| Y | N | U | N/A |
|---|---|---|-----|
| X | | | |

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

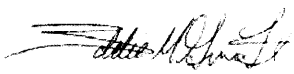
| Y | N | U |
|---|---|---|
| X | | |

Other Adverse Conditions

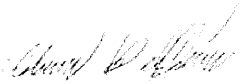
11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment?

| Y | N | U |
|---|---|---|
| X | | |

Comments (Additional pages may be added as necessary)



Evaluated by: Eddie M. Guerra Date: 10/1/2012



Adam L. Helffrich Date: 10/1/2012

Seismic Walkdown Checklist (SWC)

Status: Y N U

Equipment ID No. PNL-DC1-3 Equip. Class 20. Instrument and Control Panels

Equipment Description Distribution Panel

Location: Bldg. SRVB Floor El. 735

Manufacturer, Model, Etc. _____

Instructions for Completing Checklist

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

Anchorage

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

| | |
|---|---|
| Y | N |
| X | |

Tall (~6'-6" x 40" x 16") panel floor/wall mounted. Anchored to wall with 4-1/2" diam anchor bolts at top and anchored to floor by 4-1/2" diam anchor bolts at front.

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

| | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| X | | | |

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

| | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| X | | | |

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

| | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| X | | | |

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

| | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| X | | | |

Anchorage configuration confirmed with Calculation PNL-DC1-3 and 52233-C-015.

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

| | | |
|---|---|---|
| Y | N | U |
| X | | |

Seismic Walkdown Checklist (SWC)

Status: Y N U

Equipment ID No. PNL-DC1-3 Equip. Class 20. Instrument and Control Panels

Equipment Description Distribution Panel

Interaction Effects

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

| | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| X | | | |

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

| | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| X | | | |

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

| | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| X | | | |

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

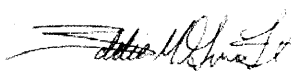
| | | |
|---|---|---|
| Y | N | U |
| X | | |

Other Adverse Conditions

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

| | | |
|---|---|---|
| Y | N | U |
| X | | |

Comments (Additional pages may be added as necessary)



Evaluated by: Eddie M. Guerra Date: 10/1/2012



Adam L. Helffrich Date: 10/1/2012

Seismic Walkdown Checklist (SWC)

Status: N U

Equipment ID No. PNL-DC1-3 Equip. Class 20. Instrument and Control Panels

Equipment Description Distribution Panel

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



File Name: 2-61-3-1-18.jpeg
Description: Component Plate ID



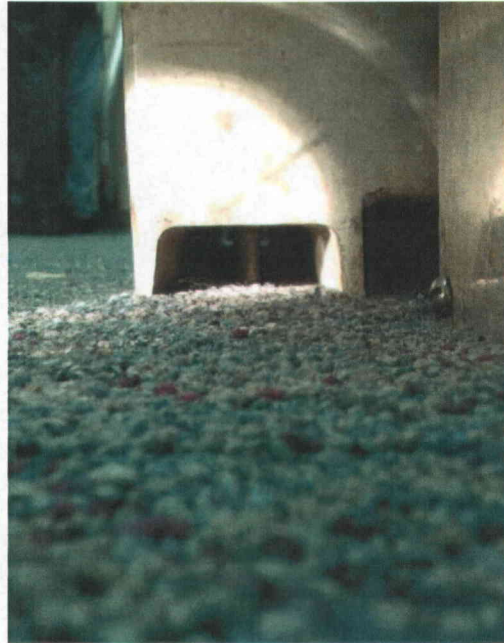
File Name: 2-62-3-1-18.jpeg
Description: General view of opened panel

Seismic Walkdown Checklist (SWC)

Status: N U

Equipment ID No. PNL-DC1-3 Equip. Class 20. Instrument and Control Panels

Equipment Description Distribution Panel



File Name: 2-63-3-1-18.jpeg
Description: View of channel mounting base



File Name: 2-64-3-1-18.jpeg
Description: View of typical wall anchorage configuration

Seismic Walkdown Checklist (SWC)

Status: Y N U

Equipment ID No. PNL-DGEA-1 Equip. Class 20. Instrument and Control Panels

Equipment Description Diesel Generator Excitation Aux Relay

Location: Bldg. DGBX Floor El. 735

Manufacturer, Model, Etc. _____

Instructions for Completing Checklist

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

Anchorage

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

| | |
|---|---|
| Y | N |
| X | |

Small panel (24" x 30" x 16") mounted on wall. Panel is welded to 3/8" plates at top and bottom with a minimum of 12" of 1/8" fillet welds. Each 3/8" plate is anchored to wall with 4-3/8" diam anchor bolts.

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

| | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| X | | | |

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

| | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| X | | | |

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

| | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| X | | | |

5. Is the anchorage configuration consistent with plant documentation?

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

Sketch in PNL-DGEA-1 SEWS shows actual anchorage configuration (see also Calc. 52233-C-022).

| | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| X | | | |

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

| | | |
|---|---|---|
| Y | N | U |
| X | | |

Seismic Walkdown Checklist (SWC)

Status: Y N U

Equipment ID No. PNL-DGEA-1 Equip. Class 20. Instrument and Control Panels

Equipment Description Diesel Generator Excitation Aux Relay

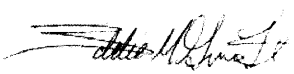
Interaction Effects

- | | Y | N | U | N/A |
|---|---|---|---|-----|
| 7. Are soft targets free from impact by nearby equipment or structures? | X | | | |
| 8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? | X | | | |
| 9. Do attached lines have adequate flexibility to avoid damage? | X | | | |
| 10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? | X | | | |

Other Adverse Conditions

- | | Y | N | U |
|--|---|---|---|
| 11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? | X | | |

Comments (Additional pages may be added as necessary)



Evaluated by: Eddie M. Guerra Date: 10/1/2012



Adam L. Helffrich Date: 10/1/2012

Seismic Walkdown Checklist (SWC)

Status: Y N U

Equipment ID No. PNL-DGEA-1 Equip. Class 20. Instrument and Control Panels

Equipment Description Diesel Generator Excitation Aux Relay

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



File Name: 2-61-4-1-20.jpeg
Description: Component Plate ID



File Name: 2-62-4-1-20.jpeg
Description: General view of component

Seismic Walkdown Checklist (SWC)

Status: N U

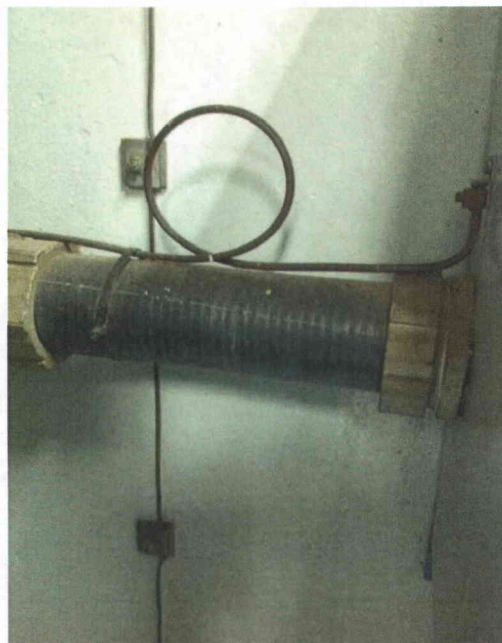
Equipment ID No. PNL-DGEA-1 Equip. Class 20. Instrument and Control Panels

Equipment Description Diesel Generator Excitation Aux Relay



File Name: 2-63-4-1-20.jpeg

Description: View of typical wall anchorage configuration



File Name: 2-64-4-1-20.jpeg

Description: View of flexible attached line

Seismic Walkdown Checklist (SWC)

Status: Y N U

Equipment ID No. PNL-DIGEN-1 Equip. Class 20. Instrument and Control Panels

Equipment Description D/G #1 Electric Control Cabinet

Location: Bldg. DGBX Floor El. 735

Manufacturer, Model, Etc. _____

Instructions for Completing Checklist

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

Anchorage

- | | |
|---|---|
| Y | N |
| X | |
1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?
Panel welded to channel with ~4" @ 7" of 3/16" to 1/4" welds around the inside perimeter of its base framing. Channels are welded to embed with ~4" @ 7" of 3/16" to 1/4" welds.
- | | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| X | | | |
2. Is the anchorage free of bent, broken, missing or loose hardware?
- | | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| X | | | |
3. Is the anchorage free of corrosion that is more than mild surface oxidation?
- | | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| X | | | |
4. Is the anchorage free of visible cracks in the concrete near the anchors?
- | | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| X | | | |
5. Is the anchorage configuration consistent with plant documentation?
(Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)
Sketch in PNL-DIGEN-1 SEWS shows actual anchorage configuration (see also anchorage calc. 52233-C-025)
- | | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| X | | | |
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?
- | | | |
|---|---|---|
| Y | N | U |
| X | | |

Seismic Walkdown Checklist (SWC)

Status: Y N U

Equipment ID No. PNL-DIGEN-1 Equip. Class 20. Instrument and Control Panels

Equipment Description D/G #1 Electric Control Cabinet

Interaction Effects

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

| | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| X | | | |

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

| | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| X | | | |

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

| | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| X | | | |

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

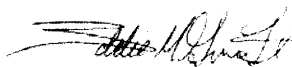
| | | |
|---|---|---|
| Y | N | U |
| X | | |

Other Adverse Conditions

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

| | | |
|---|---|---|
| Y | N | U |
| X | | |

Comments (Additional pages may be added as necessary)



Evaluated by: Eddie M. Guerra Date: 10/1/2012



Adam L. Helffrich Date: 10/1/2012

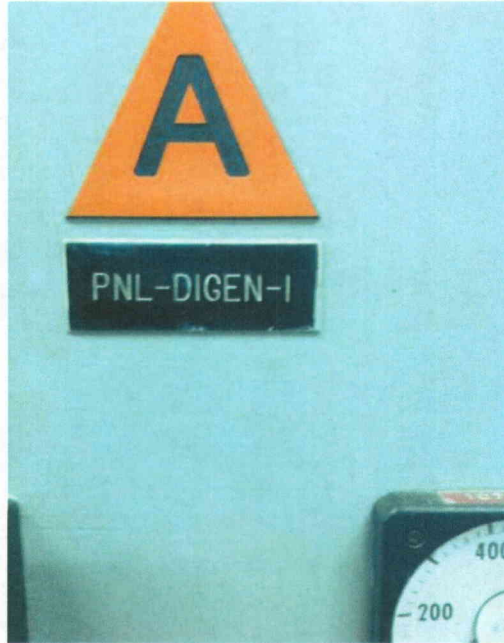
Seismic Walkdown Checklist (SWC)

Status: N U

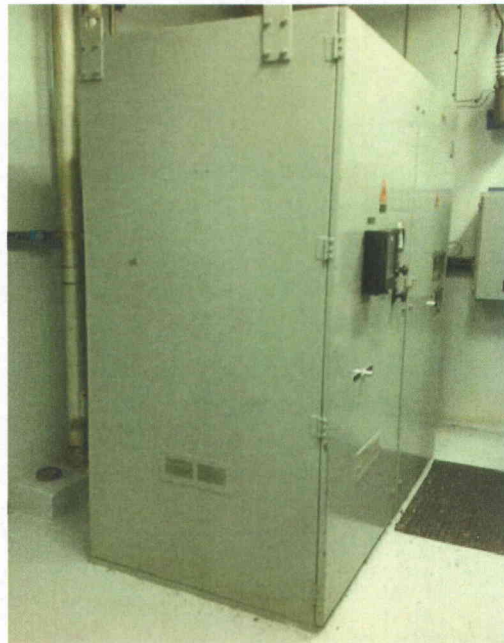
Equipment ID No. PNL-DIGEN-1 Equip. Class 20. Instrument and Control Panels

Equipment Description D/G #1 Electric Control Cabinet

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



File Name: 2-61-5-1-20.jpeg
Description: Component Plate ID



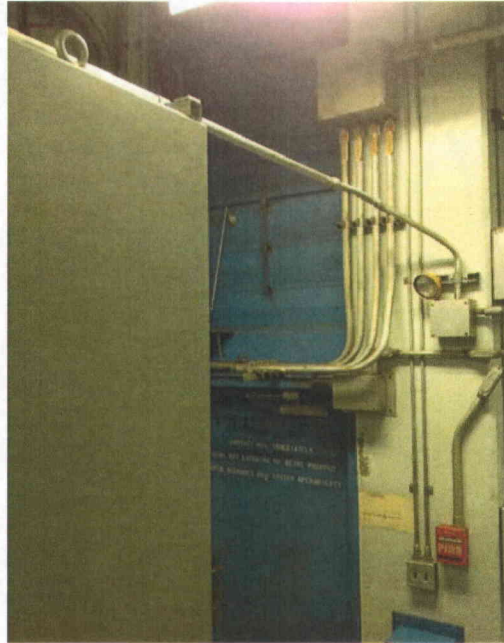
File Name: 2-62-5-1-20.jpeg
Description: General view of component

Seismic Walkdown Checklist (SWC)

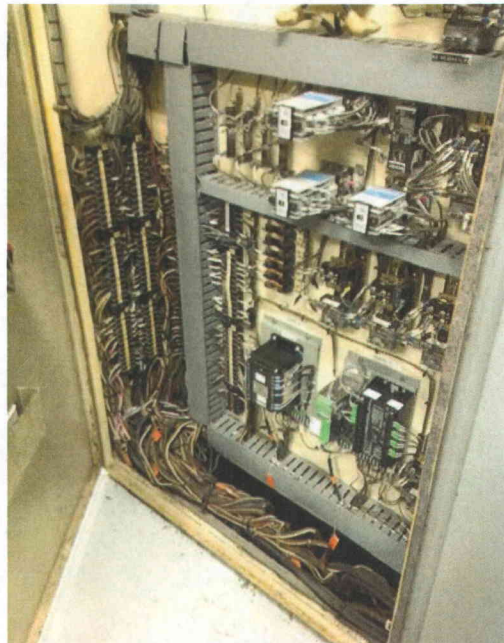
Status: N U

Equipment ID No. PNL-DIGEN-1 Equip. Class 20. Instrument and Control Panels

Equipment Description D/G #1 Electric Control Cabinet



File Name: 2-94-5-1-20.jpeg
Description: View of small attached line



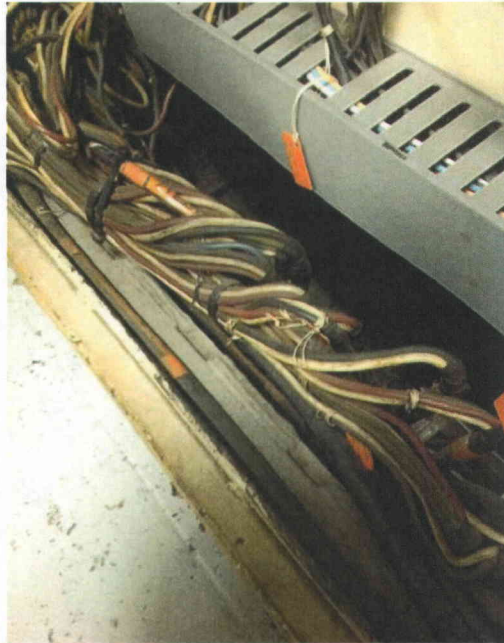
File Name: 2-95-5-1-20.jpeg
Description: General view inside of component

Seismic Walkdown Checklist (SWC)

Status: Y N U

Equipment ID No. PNL-DIGEN-1 Equip. Class 20. Instrument and Control Panels

Equipment Description D/G #1 Electric Control Cabinet



File Name: 2-96-5-1-20.jpeg
Description: View of stitch weld detail for cabinet embedment connection

Seismic Walkdown Checklist (SWC)

Status: N U

Equipment ID No. PNL-DIGEN-2 Equip. Class 20. Instrument and Control Panels

Equipment Description D/G #2 Electric Control Cabinet

Location: Bldg. DGBX Floor El. 735

Manufacturer, Model, Etc. _____

Instructions for Completing Checklist

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

Anchorage

- | | |
|---|---|
| Y | N |
| X | |
1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?
- Panel welded to channel with ~4" @ 7" of 3/16" to 1/4" welds around the inside perimeter of its base framing. Channels are welded to embed with ~4" @ 7" of 3/16"*
- | | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| X | | | |
2. Is the anchorage free of bent, broken, missing or loose hardware?
- | | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| X | | | |
3. Is the anchorage free of corrosion that is more than mild surface oxidation?
- | | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| X | | | |
4. Is the anchorage free of visible cracks in the concrete near the anchors?
- | | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| X | | | |
5. Is the anchorage configuration consistent with plant documentation?
(Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)
- Sketch in PNL-DIGEN-2 SEWS shows actual anchorage configuration (See also calculation 52233-C-025).*
- | | | |
|---|---|---|
| Y | N | U |
| X | | |
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?
- | | | |
|---|---|---|
| Y | N | U |
| X | | |

Seismic Walkdown Checklist (SWC)

Status: Y N U

Equipment ID No. PNL-DIGEN-2 Equip. Class 20. Instrument and Control Panels

Equipment Description D/G #2 Electric Control Cabinet

Interaction Effects

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

| Y | N | U | N/A |
|---|---|---|-----|
| X | | | |

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

| Y | N | U | N/A |
|---|---|---|-----|
| X | | | |

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

| Y | N | U | N/A |
|---|---|---|-----|
| X | | | |

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

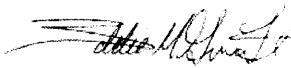
| Y | N | U |
|---|---|---|
| X | | |

Other Adverse Conditions

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

| Y | N | U |
|---|---|---|
| X | | |

Comments (Additional pages may be added as necessary)



Evaluated by: Eddie M. Guerra Date: 10/1/2012



Adam L. Helffrich Date: 10/1/2012

Seismic Walkdown Checklist (SWC)

Status: N U

Equipment ID No. PNL-DIGEN-2 Equip. Class 20. Instrument and Control Panels

Equipment Description D/G #2 Electric Control Cabinet

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



File Name: 2-61-2-1-21.jpeg
Description: Component Plate ID



File Name: 2-62-2-1-21.jpeg
Description: General view of component

Seismic Walkdown Checklist (SWC)

Status: Y N U

Equipment ID No. PNL-DIGEN-2 Equip. Class 20. Instrument and Control Panels

Equipment Description D/G #2 Electric Control Cabinet



File Name: 2-63-2-1-21.jpeg
Description: View of flexible attached line



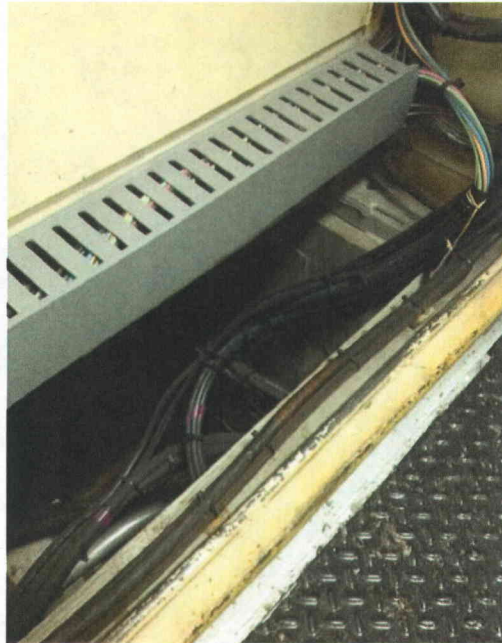
File Name: 2-64-2-1-21.jpeg
Description: General view inside of component

Seismic Walkdown Checklist (SWC)

Status: Y N U

Equipment ID No. PNL-DIGEN-2 Equip. Class 20. Instrument and Control Panels

Equipment Description D/G #2 Electric Control Cabinet



File Name: 2-73-2-1-21.jpeg

Description: View of stitch weld detail for cabinet embedment connection

Seismic Walkdown Checklist (SWC)

Status: Y N U

Equipment ID No. PNL-VITBUS1-2 Equip. Class 14. Distribution Panels

Equipment Description Vital Bus Channel II (White); Bus

Location: Bldg. SRVB Floor El. 735

Manufacturer, Model, Etc. _____

Instructions for Completing Checklist

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

Anchorage

- | | | | |
|---|---|--|--|
| Y | N | | |
| X | X | | |
1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?
Wall mounted panel (~6' x 30" x 10"). Anchored with 4-5/8" diam anchor bolts.
- | | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| X | | | |
2. Is the anchorage free of bent, broken, missing or loose hardware?
- | | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| X | | | |
3. Is the anchorage free of corrosion that is more than mild surface oxidation?
- | | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| X | | | |
4. Is the anchorage free of visible cracks in the concrete near the anchors?
- | | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| X | | | |
5. Is the anchorage configuration consistent with plant documentation?
(Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)
- | | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| | | | X |
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?
- | | | |
|---|---|---|
| Y | N | U |
| X | | |

Seismic Walkdown Checklist (SWC)

Status: Y N U

Equipment ID No. PNL-VITBUS1-2 Equip. Class 14. Distribution Panels

Equipment Description Vital Bus Channel II (White); Bus

Interaction Effects

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

| Y | N | U | N/A |
|---|---|---|-----|
| X | | | |

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

| Y | N | U | N/A |
|---|---|---|-----|
| X | | | |

Block wall SB-3-9 in the area has been evaluated per IE80-11 program. Control room ceiling's main runners are supported by wires at ~4' spacing. Each ceiling tile (i.e., ege grating) is tied to the main runners at each of its four corners with tie wraps. Judged no interaction concern.

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

| Y | N | U | N/A |
|---|---|---|-----|
| X | | | |

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

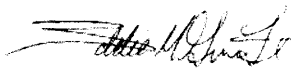
| Y | N | U |
|---|---|---|
| X | | |

Other Adverse Conditions

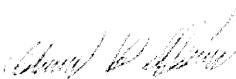
11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment?

| Y | N | U |
|---|---|---|
| X | | |

Comments (Additional pages may be added as necessary)



Evaluated by: Eddie M. Guerra Date: 10/1/2012



Adam L. Helffrich Date: 10/1/2012

Seismic Walkdown Checklist (SWC)

Status: N U

Equipment ID No. PNL-VITBUS1-2 Equip. Class 14. Distribution Panels

Equipment Description Vital Bus Channel II (White); Bus

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



File Name: 2-61-1-1-18.jpeg
Description: Component Plate ID



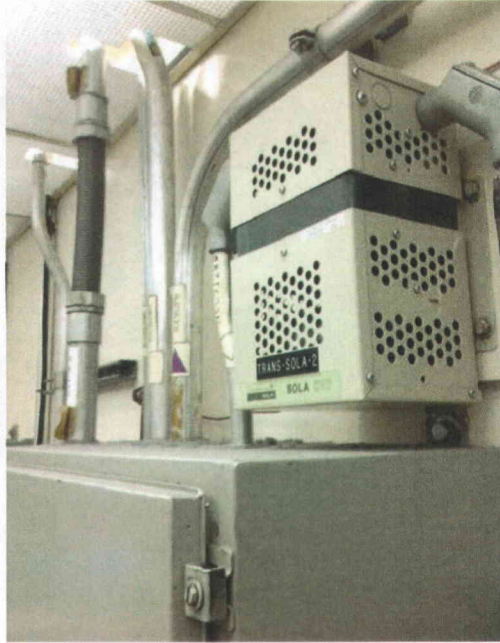
File Name: 2-62-1-1-18.jpeg
Description: General view of component

Seismic Walkdown Checklist (SWC)

Status: Y N U

Equipment ID No. PNL-VITBUS1-2 Equip. Class 14. Distribution Panels

Equipment Description Vital Bus Channel II (White); Bus



File Name: 2-63-1-1-18.jpeg
Description: View of top entry conduits



File Name: 2-64-1-1-18.jpeg
Description: Block wall identified in the vicinity of the component

Seismic Walkdown Checklist (SWC)

Status: N U

Equipment ID No. PNL-VITBUS1-3 Equip. Class 14. Distribution Panels

Equipment Description Vital Bus Channel III (Blue); Bus

Location: Bldg. SRVB Floor El. 735

Manufacturer, Model, Etc. _____

Instructions for Completing Checklist

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

Anchorage

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

| | |
|---|---|
| Y | N |
| | X |

Wall mounted panel (~6' x 30" x 10"). Anchored with 4-5/8" diam anchor bolts.

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

| | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| X | | | |

Broken washer at one anchor location judged acceptable.

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

| | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| X | | | |

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

| | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| X | | | |

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

| | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| | | | X |

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

| | | |
|---|---|---|
| Y | N | U |
| X | | |

Seismic Walkdown Checklist (SWC)

Status: Y N U

Equipment ID No. PNL-VITBUS1-3 Equip. Class 14. Distribution Panels

Equipment Description Vital Bus Channel III (Blue); Bus

Interaction Effects

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

| Y | N | U | N/A |
|---|---|---|-----|
| X | | | |

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

| Y | N | U | N/A |
|---|---|---|-----|
| X | | | |

Block wall identified around 6' away. Control room ceiling's main runners are supported by wires at ~4' spacing. Each ceiling tile (i.e., ege grating) is tied to the main runners at each of its four corners with tie wraps. Judged no interaction concern.

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

| Y | N | U | N/A |
|---|---|---|-----|
| X | | | |

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

| Y | N | U |
|---|---|---|
| X | | |

Other Adverse Conditions

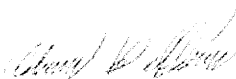
11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment?

| Y | N | U |
|---|---|---|
| X | | |

Comments (Additional pages may be added as necessary)



Evaluated by: Eddie M. Guerra Date: 10/1/2012



Adam L. Helffrich Date: 10/1/2012

Seismic Walkdown Checklist (SWC)

Status: N U

Equipment ID No. PNL-VITBUS1-3 Equip. Class 14. Distribution Panels

Equipment Description Vital Bus Channel III (Blue); Bus

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



File Name: 2-61-2-1-18.jpeg
Description: Component Plate ID



File Name: 2-62-2-1-18.jpeg
Description: General view of component

Seismic Walkdown Checklist (SWC)

Status: N U

Equipment ID No. PNL-VITBUS1-3 Equip. Class 14. Distribution Panels

Equipment Description Vital Bus Channel III (Blue); Bus



File Name: 2-63-2-1-18.jpeg
Description: View of top entry conduits

Seismic Walkdown Checklist (SWC)

Status: Y N U

Equipment ID No. PT-IRW-113A Equip. Class 18. Instrument (on) Racks

Equipment Description Primary Component Cooling Water Heat Exchanger Inlet, Press Transmitter

Location: Bldg. AXLB Floor El. 735

Manufacturer, Model, Etc. _____

Instructions for Completing Checklist

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

Anchorage

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

| | |
|---|---|
| Y | N |
| X | X |

Mounted on 2 1/2" diam, ~5' tall post. Post anchored with 4-3/8" diam anchor bolts. Weight is around 20 lbs and attached with two torqued 3/8" diam U-bolts to the post. Eventhough the U-bolts work in friction they are judged adequate since they are torqued and equipment was tug tested.

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

| | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| X | | | |

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

| | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| X | | | |

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

| | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| X | | | |

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

| | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| | | | X |

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

| | | |
|---|---|---|
| Y | N | U |
| X | | |

Seismic Walkdown Checklist (SWC)

Status: Y N U

Equipment ID No. PT-1RW-113A Equip. Class 18. Instrument (on) Racks

Equipment Description Primary Component Cooling Water Heat Exchanger Inlet, Press Transmitter

Interaction Effects

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

| | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| X | | | |

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

| | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| X | | | |

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

| | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| X | | | |

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

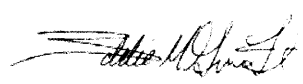
| | | |
|---|---|---|
| Y | N | U |
| X | | |

Other Adverse Conditions

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

| | | |
|---|---|---|
| Y | N | U |
| X | | |

Comments (Additional pages may be added as necessary)



Evaluated by: Eddie M. Guerra Date: 10/1/2012



Adam L. Helffrich Date: 10/1/2012

Seismic Walkdown Checklist (SWC)

Status: V N U

Equipment ID No. PT-1RW-113A Equip. Class 18. Instrument (on) Racks

Equipment Description Primary Component Cooling Water Heat Exchanger Inlet, Press Transmitter

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



File Name: 2-61-1-1-45.jpeg
Description: Component Plate ID



File Name: 2-62-1-1-45.jpeg
Description: General view of component

Seismic Walkdown Checklist (SWC)

Status: Y N U

Equipment ID No. QS-P-1B Equip. Class 5. Horizontal Pumps

Equipment Description Quench Spray Pump

Location: Bldg. SFGB Floor El. 735

Manufacturer, Model, Etc. _____

Instructions for Completing Checklist

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

Anchorage

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

| | |
|---|---|
| Y | N |
| | X |

Mounted on concrete pad. Anchored with 4-3/4" diam anchor bolts.

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

| | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| X | | | |

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

| | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| X | | | |

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

| | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| X | | | |

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

| | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| | | | X |

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

| | | |
|---|---|---|
| Y | N | U |
| X | | |

Seismic Walkdown Checklist (SWC)

Status: Y N U

Equipment ID No. QS-P-1B Equip. Class 5. Horizontal Pumps

Equipment Description Quench Spray Pump

Interaction Effects

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

| Y | N | U | N/A |
|---|---|---|-----|
| X | | | |

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

| Y | N | U | N/A |
|---|---|---|-----|
| X | | | |

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

Nozzles identified to be well supported.

| Y | N | U | N/A |
|---|---|---|-----|
| X | | | |

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

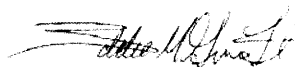
| Y | N | U |
|---|---|---|
| X | | |

Other Adverse Conditions

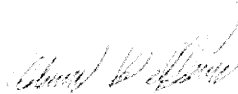
11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment?

| Y | N | U |
|---|---|---|
| X | | |

Comments (Additional pages may be added as necessary)



Evaluated by: Eddie M. Guerra Date: 10/1/2012



Adam L. Helffrich Date: 10/1/2012

Seismic Walkdown Checklist (SWC)

Status: N U

Equipment ID No. QS-P-1B Equip. Class 5. Horizontal Pumps

Equipment Description Quench Spray Pump

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



File Name: 2-61-7-1-50.jpeg
Description: Component Plate ID



File Name: 2-62-7-1-50.jpeg
Description: General view of component

Seismic Walkdown Checklist (SWC)

Status: N U

Equipment ID No. QS-P-1B Equip. Class 5. Horizontal Pumps

Equipment Description Quench Spray Pump



File Name: 2-63-7-1-50.jpeg
Description: View of flexible attached lines



File Name: 2-64-7-1-50.jpeg
Description: Typical frame anchorage configuration

Seismic Walkdown Checklist (SWC)

Status: Y N U

Equipment ID No. REAC-TR-SWGR-1A Equip. Class 2. Low Voltage Switchgear

Equipment Description Reactor Trip SWGR

Location: Bldg. SRVB Floor El. 713

Manufacturer, Model, Etc. _____

Instructions for Completing Checklist

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

Anchorage

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

| | |
|---|---|
| Y | N |
| X | |

This is a 1 section SWGR. 4-1/2" diam anchor bolts identified for anchorage configuration. Component identified to be attached to adjacent SWGR. Gap next to opposite set of SWGR found to be adequate (~3/4").

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

| | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| X | | | |

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

| | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| X | | | |

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

| | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| X | | | |

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

| | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| X | | | |

Calculation 52233-C-003 Anchorage Calc confirms anchorage configuration

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

| | | |
|---|---|---|
| Y | N | U |
| X | | |

Seismic Walkdown Checklist (SWC)

Status: Y N U

Equipment ID No. REAC-TR-SWGR-1A Equip. Class 2. Low Voltage Switchgear

Equipment Description Reactor Trip SWGR

Interaction Effects

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

| Y | N | U | N/A |
|---|---|---|-----|
| X | | | |

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

| Y | N | U | N/A |
|---|---|---|-----|
| X | | | |

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

| Y | N | U | N/A |
|---|---|---|-----|
| X | | | |

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

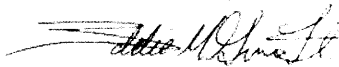
| Y | N | U |
|---|---|---|
| X | | |

Other Adverse Conditions

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

| Y | N | U |
|---|---|---|
| X | | |

Comments (Additional pages may be added as necessary)



Evaluated by: Eddie M. Guerra Date: 10/1/2012



Adam L. Helffrich Date: 10/1/2012

Seismic Walkdown Checklist (SWC)

Status: N U

Equipment ID No. REAC-TR-SWGR-1A Equip. Class 2. Low Voltage Switchgear

Equipment Description Reactor Trip SWGR

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



File Name: 2-61-1-1-33.jpeg
Description: Component Plate ID



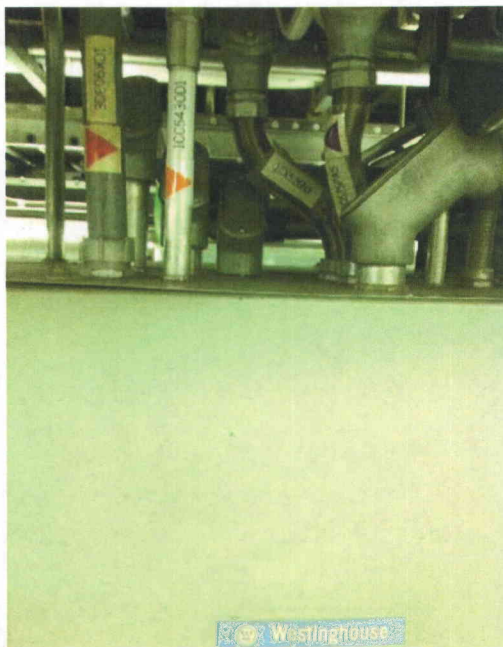
File Name: 2-62-1-1-33.jpeg
Description: General view of component

Seismic Walkdown Checklist (SWC)

Status: Y N U

Equipment ID No. REAC-TR-SWGR-1A Equip. Class 2. Low Voltage Switchgear

Equipment Description Reactor Trip SWGR



File Name: 2-63-1-1-33.jpeg
Description: View of top entry conduits

Seismic Walkdown Checklist (SWC)

Status: N U

Equipment ID No. RK-1PRI-PROC-12 Equip. Class 20. Instrument and Control Panels

Equipment Description Primary Process Rack 12

Location: Bldg. SRVB Floor El. 713

Manufacturer, Model, Etc. _____

Instructions for Completing Checklist

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

Anchorage

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

| | |
|---|---|
| Y | N |
| X | X |

This panel is part of a 16-panel line up. All panels are bolted together. Each panel is attached to I-beam at its base with 4-3/4" diam machine bolts. I-beam is anchored to concrete floor with 1/2" diam anchor bolts @ ~30" spacing.

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

| | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| X | | | |

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

| | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| X | | | |

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

| | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| X | | | |

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

| | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| | | | X |

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

| | | |
|---|---|---|
| Y | N | U |
| X | | |

Seismic Walkdown Checklist (SWC)

Status: Y N U

Equipment ID No. RK-1PRI-PROC-12 Equip. Class 20. Instrument and Control Panels

Equipment Description Primary Process Rack 12

Interaction Effects

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

| Y | N | U | N/A |
|---|---|---|-----|
| X | | | |

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

| Y | N | U | N/A |
|---|---|---|-----|
| X | | | |

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

| Y | N | U | N/A |
|---|---|---|-----|
| X | | | |

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


| Y | N | U |
|---|---|---|
| X | | |

Other Adverse Conditions

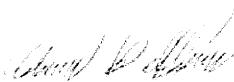
11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment?

| Y | N | U |
|---|---|---|
| X | | |

Comments (Additional pages may be added as necessary)



Evaluated by: Eddie M. Guerra Date: 10/1/2012



Adam L. Helffrich Date: 10/1/2012

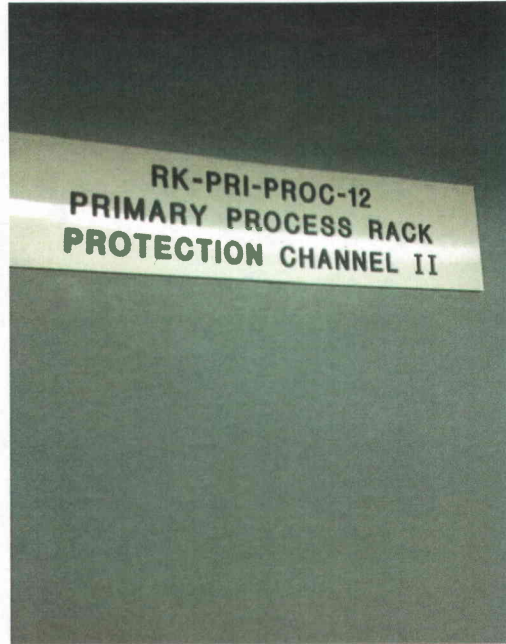
Seismic Walkdown Checklist (SWC)

Status: N U

Equipment ID No. RK-1PRI-PROC-12 Equip. Class 20. Instrument and Control Panels

Equipment Description Primary Process Rack 12

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



File Name: 2-61-2-1-49.jpeg
Description: Component Plate ID



File Name: 2-62-2-1-49.jpeg
Description: General view of component

Seismic Walkdown Checklist (SWC)

Status: Y N U

Equipment ID No. RK-AUX-RPTST-A Equip. Class 20. Instrument and Control Panels

Equipment Description Auxiliary Safeguards Cabinet Train A

Location: Bldg. SRVB Floor El. 713

Manufacturer, Model, Etc. _____

Instructions for Completing Checklist

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

Anchorage

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

| | |
|---|---|
| Y | N |
| X | |

This panel is part of a 7-panel line up. All panels are bolted together. Each panel is attached to I-beam at its base with 4-3/4" diam machine bolts. I-beam is anchored to concrete floor with 1/2" diam anchor bolts @ ~30" spacing.

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

| | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| X | | | |

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

| | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| X | | | |

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

| | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| X | | | |

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

| | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| X | | | |

Sketch in RK-AUX-RPTST-A SEWS anchorage configuration

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

| | | |
|---|---|---|
| Y | N | U |
| X | | |

Seismic Walkdown Checklist (SWC)

Status: Y N U

Equipment ID No. RK-AUX-RPTST-A Equip. Class 20. Instrument and Control Panels

Equipment Description Auxiliary Safeguards Cabinet Train A

Interaction Effects

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

| Y | N | U | N/A |
|---|---|---|-----|
| X | | | |

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

| Y | N | U | N/A |
|---|---|---|-----|
| X | | | |

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

| Y | N | U | N/A |
|---|---|---|-----|
| X | | | |

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

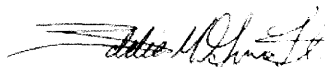
| Y | N | U |
|---|---|---|
| X | | |

Other Adverse Conditions

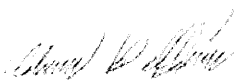
11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment?

| Y | N | U |
|---|---|---|
| X | | |

Comments (Additional pages may be added as necessary)



Evaluated by: Eddie M. Guerra Date: 10/1/2012



Adam L. Helffrich Date: 10/1/2012

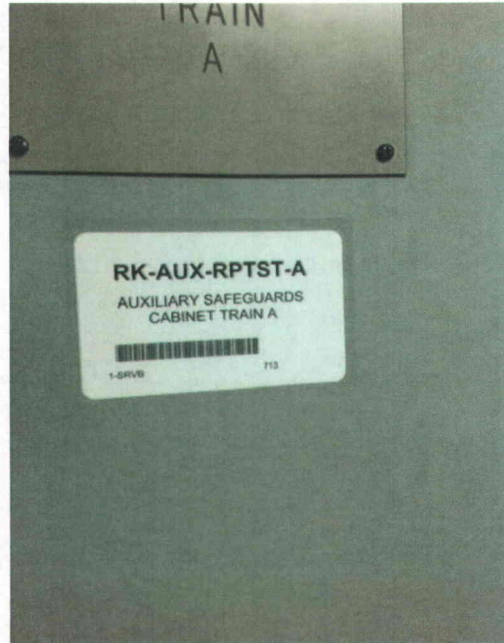
Seismic Walkdown Checklist (SWC)

Status: N U

Equipment ID No. RK-AUX-RPTST-A Equip. Class 20. Instrument and Control Panels

Equipment Description Auxiliary Safeguards Cabinet Train A

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



File Name: 2-61-1-1-49.jpeg
Description: Component Plate ID



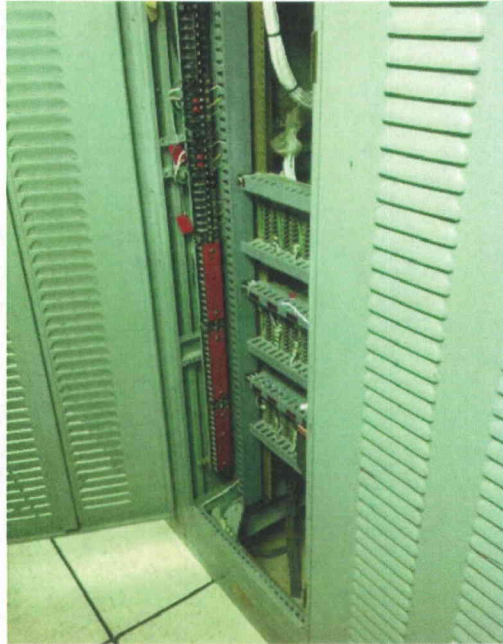
File Name: 2-62-1-1-49.jpeg
Description: General view of component

Seismic Walkdown Checklist (SWC)

Status: N U

Equipment ID No. RK-AUX-RPTST-A Equip. Class 20. Instrument and Control Panels

Equipment Description Auxiliary Safeguards Cabinet Train A



File Name: 2-63-1-1-49.jpeg
Description: General view inside of component



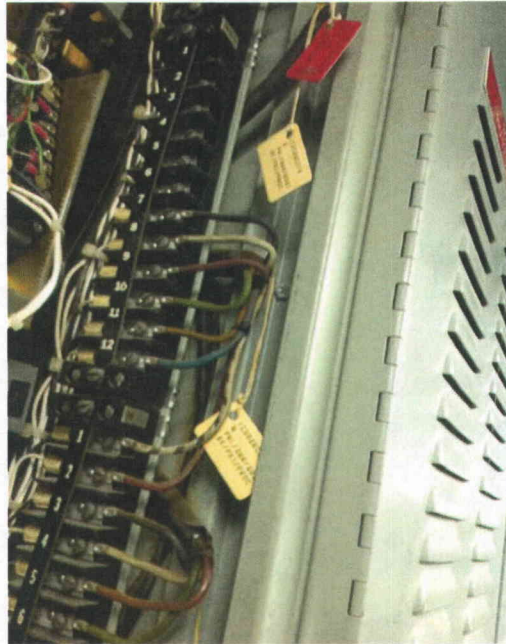
File Name: 2-64-1-1-49.jpeg
Description: View of base frame connection to floor wide flange beams

Seismic Walkdown Checklist (SWC)

Status: N U

Equipment ID No. RK-AUX-RPTST-A Equip. Class 20. Instrument and Control Panels

Equipment Description Auxiliary Safeguards Cabinet Train A



File Name: 2-73-1-1-49.jpeg

Description: View of connection point between adjacent cabinets

Seismic Walkdown Checklist (SWC)

Status: Y N U

Equipment ID No. RK-NUC-INS-1 Equip. Class 20. Instrument and Control Panels

Equipment Description Nuclear Instrumentation Rack

Location: Bldg. SRVB Floor El. 735

Manufacturer, Model, Etc. _____

Instructions for Completing Checklist

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

Anchorage

- | | |
|---|---|
| Y | N |
| X | |
1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?
- Attached to perimeter channel flange at concrete floor with 12-3/8" diam machine bolts. The channels at front and back are welded to embed steel.*
- | | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| X | | | |
2. Is the anchorage free of bent, broken, missing or loose hardware?
- | | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| X | | | |
3. Is the anchorage free of corrosion that is more than mild surface oxidation?
- | | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| X | | | |
4. Is the anchorage free of visible cracks in the concrete near the anchors?
- | | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| X | | | |
5. Is the anchorage configuration consistent with plant documentation?
(Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)
- Calculation 52233-C-023 confirms the anchorage configuration.*
- | | | |
|---|---|---|
| Y | N | U |
| X | | |
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?

Seismic Walkdown Checklist (SWC)

Status: Y N U

Equipment ID No. RK-NUC-INS-1 Equip. Class 20. Instrument and Control Panels

Equipment Description Nuclear Instrumentation Rack

Interaction Effects

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

| Y | N | U | N/A |
|---|---|---|-----|
| X | | | |

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

| Y | N | U | N/A |
|---|---|---|-----|
| X | | | |

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

| Y | N | U | N/A |
|---|---|---|-----|
| X | | | |

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

| Y | N | U |
|---|---|---|
| X | | |

Other Adverse Conditions

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

| Y | N | U |
|---|---|---|
| X | | |

Comments (Additional pages may be added as necessary)



Evaluated by: Eddie M. Guerra Date: 10/1/2012



Adam L. Helffrich Date: 10/1/2012

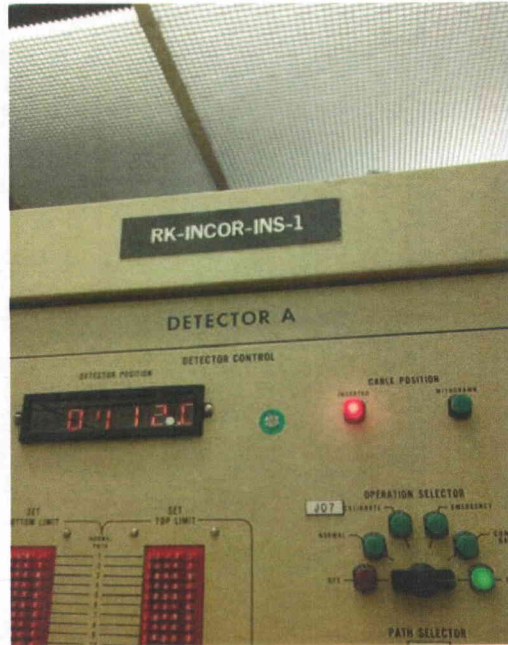
Seismic Walkdown Checklist (SWC)

Status: N U

Equipment ID No. RK-NUC-INS-1 Equip. Class 20. Instrument and Control Panels

Equipment Description Nuclear Instrumentation Rack

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



File Name: 2-61-4-1-18.jpeg
Description: Component Plate ID



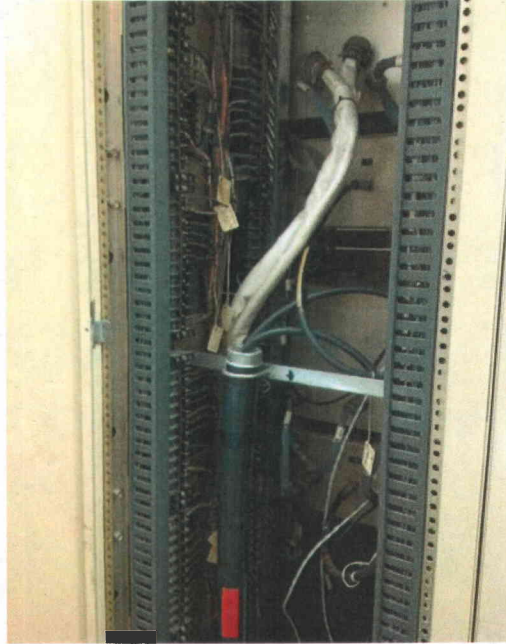
File Name: 2-62-4-1-18.jpeg
Description: General view of component

Seismic Walkdown Checklist (SWC)

Status: N U

Equipment ID No. RK-NUC-INS-1 Equip. Class 20. Instrument and Control Panels

Equipment Description Nuclear Instrumentation Rack



File Name: 2-63-4-1-18.jpeg
Description: General view inside of component



File Name: 2-64-4-1-18.jpeg
Description: View of anchorage between cabinet housing and base frame

Seismic Walkdown Checklist (SWC)

Status: N U

Equipment ID No. RK-VV-REL-B Equip. Class 20. Instrument and Control Panels

Equipment Description Stop Valve Replay Rack B

Location: Bldg. SRVB Floor El. 713

Manufacturer, Model, Etc. _____

Instructions for Completing Checklist

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

Anchorage

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

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

This panel is part of a 7-panel line up. All panels are bolted together. Each panel is attached to I-beam at its base with 4-3/4" diam machine bolts. I-beam is anchored to concrete floor with 1/2" diam anchor bolts @ ~30" spacing.

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

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

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

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

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

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

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

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

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

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

Seismic Walkdown Checklist (SWC)

Status: N U

Equipment ID No. RK-VV-REL-B Equip. Class 20. Instrument and Control Panels

Equipment Description Stop Valve Replay Rack B

Interaction Effects

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

| | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| X | | | |

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

| | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| X | | | |

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

| | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| X | | | |

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

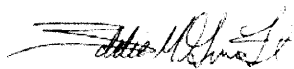
| | | |
|---|---|---|
| Y | N | U |
| X | | |

Other Adverse Conditions

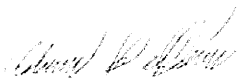
11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment?

| | | |
|---|---|---|
| Y | N | U |
| X | | |

Comments (Additional pages may be added as necessary)



Evaluated by: Eddie M. Guerra Date: 10/1/2012



Adam L. Helffrich Date: 10/1/2012

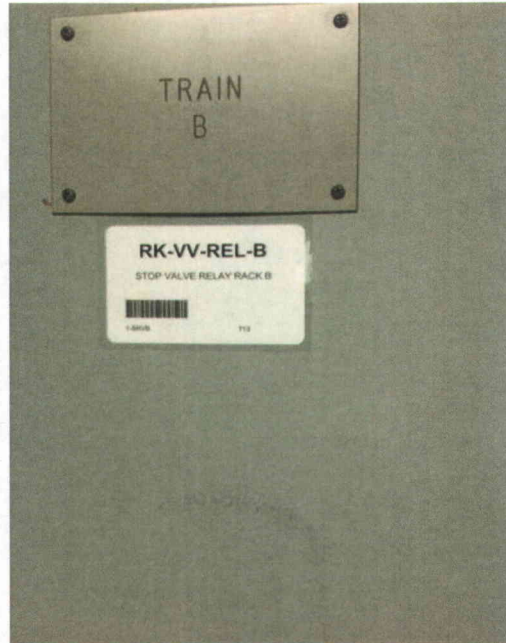
Seismic Walkdown Checklist (SWC)

Status: Y N U

Equipment ID No. RK-VV-REL-B Equip. Class 20. Instrument and Control Panels

Equipment Description Stop Valve Replay Rack B

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



File Name: 2-61-3-1-49.jpeg
Description: Component Plate ID



File Name: 2-62-3-1-49.jpeg
Description: General view of component

Seismic Walkdown Checklist (SWC)

Status: N U

Equipment ID No. RK-VV-REL-B Equip. Class 20. Instrument and Control Panels

Equipment Description Stop Valve Replay Rack B



File Name: 2-63-3-1-49.jpeg
Description: General view inside of component



File Name: 2-64-3-1-49.jpeg
Description: View of anchorage between cabinet housing and base frame

Seismic Walkdown Checklist (SWC)

Status: N U

Equipment ID No. RK-VV-REL-B Equip. Class 20. Instrument and Control Panels

Equipment Description Stop Valve Replay Rack B



File Name: 2-73-3-1-49.jpeg
Description: View of anchorage between base frame and floor beam



File Name: 2-94-3-1-49.jpeg
Description:

Seismic Walkdown Checklist (SWC)

Status: Y N U

Equipment ID No. RS-P-2B Equip. Class 6. Vertical Pump

Equipment Description Outside Recirculation Spray Pumps

Location: Bldg. SFGB Floor El. 732

Manufacturer, Model, Etc. _____

Instructions for Completing Checklist

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

Anchorage

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

| | |
|---|---|
| Y | N |
| X | X |

Pump is supported at its base from the wall by two braced and heavily anchored brackets.

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

| | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| X | | | |

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

| | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| X | | | |

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

| | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| X | | | |

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

| | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| | | | X |

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

| | | |
|---|---|---|
| Y | N | U |
| X | | |

Seismic Walkdown Checklist (SWC)

Status: Y N U

Equipment ID No. RS-P-2B Equip. Class 6. Vertical Pump

Equipment Description Outside Recirculation Spray Pumps

Interaction Effects

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

| | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| X | | | |

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

| | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| X | | | |

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

| | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| X | | | |

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

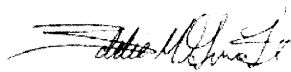
| | | |
|---|---|---|
| Y | N | U |
| X | | |

Other Adverse Conditions

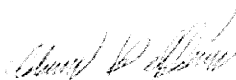
11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment?

| | | |
|---|---|---|
| Y | N | U |
| X | | |

Comments (Additional pages may be added as necessary)



Evaluated by: Eddie M. Guerra Date: 10/1/2012



Adam L. Helffrich Date: 10/1/2012

Seismic Walkdown Checklist (SWC)

Status: N U

Equipment ID No. RS-P-2B Equip. Class 6. Vertical Pump

Equipment Description Outside Recirculation Spray Pumps

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



File Name: 2-64-1-1-10.jpeg
Description: Component Plate ID



File Name: 2-61-1-1-10.jpeg
Description: General view of component

Seismic Walkdown Checklist (SWC)

Status: Ⓢ N U

Equipment ID No. RS-P-2B Equip. Class 6. Vertical Pump

Equipment Description Outside Recirculation Spray Pumps



File Name: 2-62-1-1-10.jpeg
Description: Anchorage configuration for pump's bottom section



File Name: 2-63-1-1-10.jpeg
Description: View of hung support for attached pipe line

Seismic Walkdown Checklist (SWC)

Status: Y N U

Equipment ID No. RW-57 Equip. Class 0D. Other-Check Valve or Manual Valve

Equipment Description RP RW PP (1WR-P-1A) Discharge Check Valve

Location: Bldg. INTS Floor El. 705

Manufacturer, Model, Etc. _____

Instructions for Completing Checklist

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

Anchorage

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

| | |
|---|---|
| Y | N |
| | X |

Inline check valve on ~14" diam pipe line. No degraded condition identified.

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

| | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| | | | X |

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

| | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| | | | X |

Mild surface corrosion identified on bolts. Judged not a concern.

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

| | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| | | | X |

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

| | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| | | | X |

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

| | | |
|---|---|---|
| Y | N | U |
| X | | |

Seismic Walkdown Checklist (SWC)

Status: Y N U

Equipment ID No. RW-57 Equip. Class 0D. Other-Check Valve or Manual Valve

Equipment Description RP RW PP (1WR-P-1A) Discharge Check Valve

Interaction Effects

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

| Y | N | U | N/A |
|---|---|---|-----|
| X | | | |

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

| Y | N | U | N/A |
|---|---|---|-----|
| X | | | |

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

| Y | N | U | N/A |
|---|---|---|-----|
| X | | | |

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

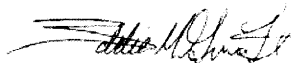
| Y | N | U |
|---|---|---|
| X | | |

Other Adverse Conditions

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

| Y | N | U |
|---|---|---|
| X | | |

Comments (Additional pages may be added as necessary)



Evaluated by: Eddie M. Guerra Date: 10/1/2012



Adam L. Helffrich Date: 10/1/2012

Seismic Walkdown Checklist (SWC)

Status: Y N U

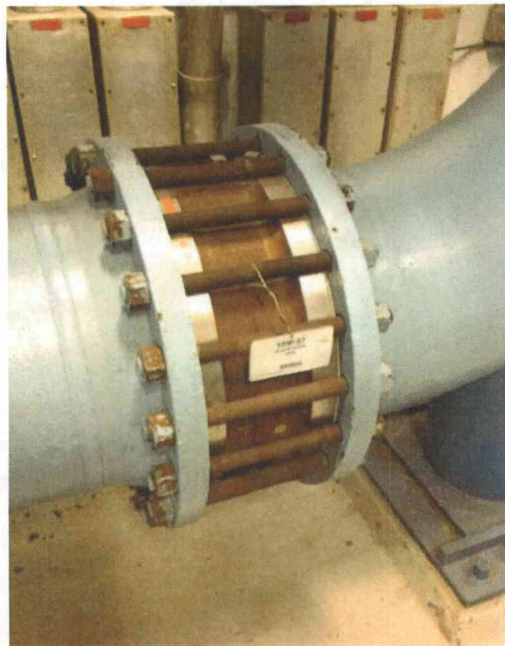
Equipment ID No. RW-57 Equip. Class 0D. Other-Check Valve or Manual Valve

Equipment Description RP RW PP (1WR-P-1A) Discharge Check Valve

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



File Name: 2-61-4-1-27.jpeg
Description: Component Plate ID



File Name: 2-62-4-1-27.jpeg
Description: General view of component

Seismic Walkdown Checklist (SWC)

Status: N U

Equipment ID No. RW-57 Equip. Class 0D. Other-Check Valve or Manual Valve

Equipment Description RP RW PP (1WR-P-1A) Discharge Check Valve



File Name: 2-63-4-1-27.jpeg
Description: View of valve location on main line

Seismic Walkdown Checklist (SWC)

Status: Y N U

Equipment ID No. RW-183 Equip. Class 0D. Other-Check Valve or Manual Valve

Equipment Description PRI CCW HXS (1CC-E-1AB) RW SUP HDR CROSS CONN, RW-183 MANUAL VALVE

Location: Bldg. AXLB Floor El. 735

Manufacturer, Model, Etc. _____

Instructions for Completing Checklist

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

Anchorage

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?
Inline check valve on ~24" diam pipe line. No degraded condition identified.

| | |
|---|---|
| Y | N |
| | X |

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

| | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| | | | X |

3. Is the anchorage free of corrosion that is more than mild surface oxidation?
Mild surface corrosion identified on bolts. Judged not a concern.

| | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| | | | X |

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

| | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| | | | X |

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

| | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| | | | X |

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

| | | |
|---|---|---|
| Y | N | U |
| X | | |

Seismic Walkdown Checklist (SWC)

Status: Y N U

Equipment ID No. RW-183 Equip. Class 0D. Other-Check Valve or Manual Valve

Equipment Description PRI CCW HXS (1CC-E-1AB) RW SUP HDR CROSS CONN, RW-183 MANUAL VALVE

Interaction Effects

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

| | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| X | | | |

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

| | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| X | | | |

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

| | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| X | | | |

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

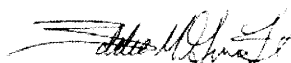
| | | |
|---|---|---|
| Y | N | U |
| X | | |

Other Adverse Conditions

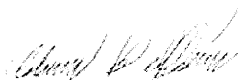
11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment?

| | | |
|---|---|---|
| Y | N | U |
| X | | |

Comments (Additional pages may be added as necessary)



Evaluated by: Eddie M. Guerra Date: 10/1/2012



Adam L. Helffrich Date: 10/1/2012

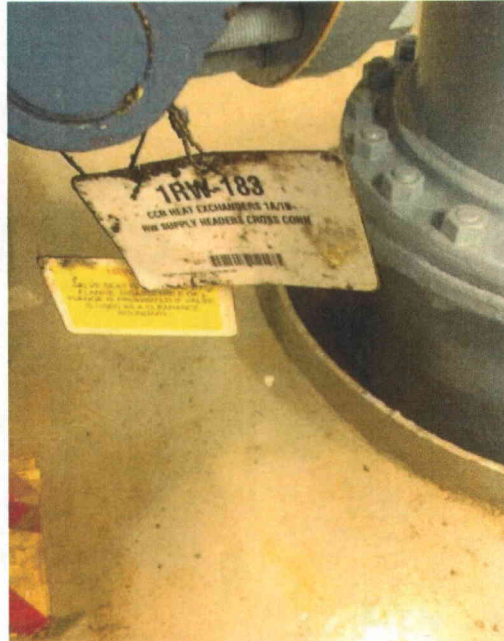
Seismic Walkdown Checklist (SWC)

Status: N U

Equipment ID No. RW-183 Equip. Class 0D. Other-Check Valve or Manual Valve

Equipment Description PRI CCW HXS (1CC-E-1AB) RW SUP HDR CROSS CONN, RW-183 MANUAL VALVE

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



File Name: 2-61-1-1-46.jpeg
Description: Component Plate ID



File Name: 2-62-1-1-46.jpeg
Description: General view of component

Seismic Walkdown Checklist (SWC)

Status: N U

Equipment ID No. SAF-SW-65 Equip. Class 20. Instrument and Control Panels

Equipment Description Vital Bus Inverter #1 AC Power Disconnect Switch

Location: Bldg. SRVB Floor El. 713

Manufacturer, Model, Etc. _____

Instructions for Completing Checklist

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

Anchorage

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

| | |
|---|---|
| Y | N |
| | X |

Component identified as a small panel (~10" x 24" x 6"). 4-3/8" diam anchor bolts identified for column connection.

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

| | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| X | | | |

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

| | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| X | | | |

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

| | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| X | | | |

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

| | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| | | | X |

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

| | | |
|---|---|---|
| Y | N | U |
| X | | |

Seismic Walkdown Checklist (SWC)

Status: Y N U

Equipment ID No. SAF-SW-65 Equip. Class 20. Instrument and Control Panels

Equipment Description Vital Bus Inverter #1 AC Power Disconnect Switch

Interaction Effects

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

| Y | N | U | N/A |
|---|---|---|-----|
| X | | | |

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

| Y | N | U | N/A |
|---|---|---|-----|
| X | | | |

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

| Y | N | U | N/A |
|---|---|---|-----|
| X | | | |

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

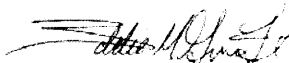
| Y | N | U |
|---|---|---|
| X | | |

Other Adverse Conditions

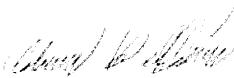
11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment?

| Y | N | U |
|---|---|---|
| X | | |

Comments (Additional pages may be added as necessary)



Evaluated by: Eddie M. Guerra Date: 10/1/2012



Adam L. Helffrich Date: 10/1/2012

Seismic Walkdown Checklist (SWC)

Status: N U

Equipment ID No. SAF-SW-65 Equip. Class 20. Instrument and Control Panels

Equipment Description Vital Bus Inverter #1 AC Power Disconnect Switch

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



File Name: 2-61-5-1-25.jpeg
Description: Component Plate ID



File Name: 2-62-5-1-25.jpeg
Description: General view of component

Seismic Walkdown Checklist (SWC)

Status: Y N U

Equipment ID No. SAF-SW-65 Equip. Class 20. Instrument and Control Panels

Equipment Description Vital Bus Inverter #1 AC Power Disconnect Switch



File Name: 2-63-5-1-25.jpeg
Description: Bottom wall mounting configuration



File Name: 2-64-5-1-25.jpeg
Description: Top wall mounting configuration

Seismic Walkdown Checklist (SWC)

Status: Y N U

Equipment ID No. SI-P-1A Equip. Class 6. Vertical Pump

Equipment Description Low Head Safety Injection Pump

Location: Bldg. SFGB Floor El. 751

Manufacturer, Model, Etc. _____

Instructions for Completing Checklist

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

Anchorage

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

| | |
|---|---|
| Y | N |
| X | X |

Pump is supported off of wall at base and braced at mid-height.

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

| | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| X | | | |

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

| | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| X | | | |

No signs of corrosion identified.

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

| | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| X | | | |

5. Is the anchorage configuration consistent with plant documentation?

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

| | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| | | | X |

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

| | | |
|---|---|---|
| Y | N | U |
| X | | |

Seismic Walkdown Checklist (SWC)

Status: Y N U

Equipment ID No. SI-P-1A Equip. Class 6. Vertical Pump

Equipment Description Low Head Safety Injection Pump

Interaction Effects

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

| | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| X | | | |

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

| | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| X | | | |

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

| | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| X | | | |

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

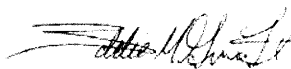
| | | |
|---|---|---|
| Y | N | U |
| X | | |

Other Adverse Conditions


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

| | | |
|---|---|---|
| Y | N | U |
| X | | |

Comments (Additional pages may be added as necessary)



Evaluated by: Eddie M. Guerra Date: 10/1/2012



Adam L. Helffrich Date: 10/1/2012

Seismic Walkdown Checklist (SWC)

Status: N U

Equipment ID No. SI-P-1A Equip. Class 6. Vertical Pump

Equipment Description Low Head Safety Injection Pump

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



File Name: 2-95-1-1-31.jpeg
Description: Component Plate ID



File Name: 2-61-1-1-31.jpeg
Description: General view of component

Seismic Walkdown Checklist (SWC)

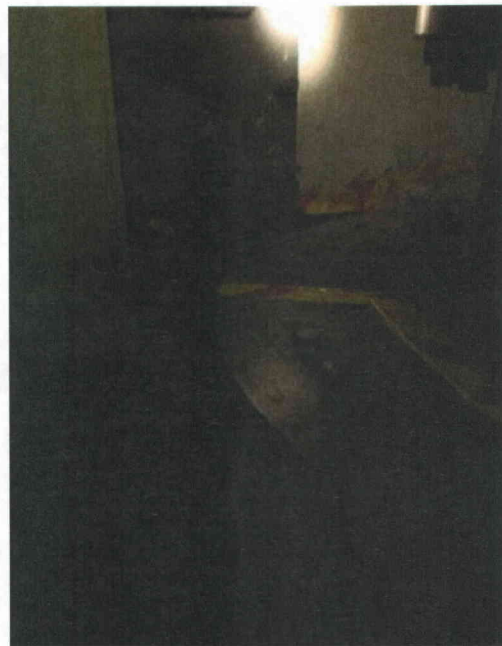
Status: N U

Equipment ID No. SI-P-1A Equip. Class 6. Vertical Pump

Equipment Description Low Head Safety Injection Pump



File Name: 2-62-1-1-31.jpeg
Description: Wall mounted brace detail



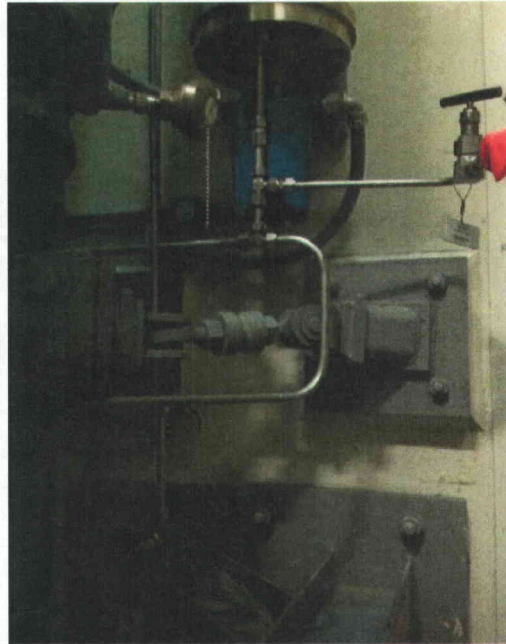
File Name: 2-63-1-1-31.jpeg
Description: View of wall anchorage configuration for pump's bottom section

Seismic Walkdown Checklist (SWC)

Status: N U

Equipment ID No. SI-P-1A Equip. Class 6. Vertical Pump

Equipment Description Low Head Safety Injection Pump



File Name: 2-64-1-1-31.jpeg
Description: Wall mounted brace detail



File Name: 2-94-1-1-31.jpeg
Description: View of pipe line restraining tube section members

Seismic Walkdown Checklist (SWC)

Status: Y N U

Equipment ID No. SI-TK-2 Equip. Class 21. Tanks and Heat Exchangers

Equipment Description Boron Injection Tank

Location: Bldg. AXLB Floor El. 722

Manufacturer, Model, Etc. _____

Instructions for Completing Checklist

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

Anchorage

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

| | |
|---|---|
| Y | N |
| | X |

Tank mounted on four legs, each leg anchored with 2-1" diam anchor bolts.

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

| | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| X | | | |

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

| | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| X | | | |

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

| | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| X | | | |

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

| | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| | | | X |

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

| | | |
|---|---|---|
| Y | N | U |
| X | | |

Seismic Walkdown Checklist (SWC)

Status: Y N U

Equipment ID No. SI-TK-2 Equip. Class 21. Tanks and Heat Exchangers

Equipment Description Boron Injection Tank

Interaction Effects

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

| | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| X | | | |

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?
Block wall AB-1-1 has been qualified per IE 80-11 review.

| | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| X | | | |

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

| | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| X | | | |

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

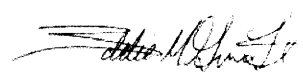
| | | |
|---|---|---|
| Y | N | U |
| X | | |

Other Adverse Conditions

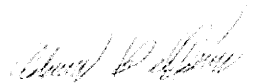
11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment?

| | | |
|---|---|---|
| Y | N | U |
| X | | |

Comments (Additional pages may be added as necessary)



Evaluated by: Eddie M. Guerra Date: 10/1/2012



Adam L. Helffrich Date: 10/1/2012

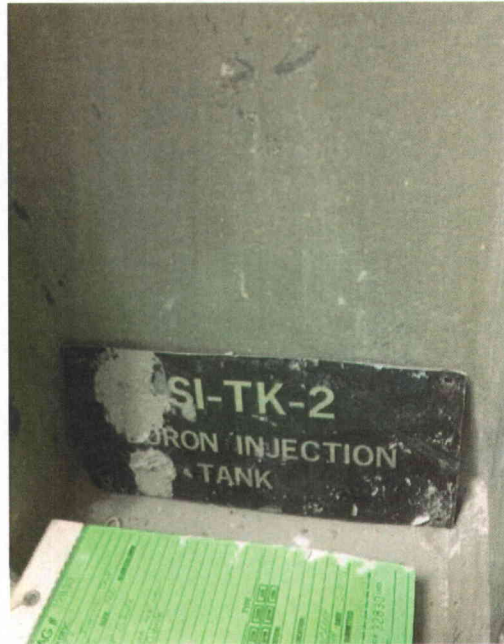
Seismic Walkdown Checklist (SWC)

Status: Y N U

Equipment ID No. SI-TK-2 Equip. Class 21. Tanks and Heat Exchangers

Equipment Description Boron Injection Tank

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



File Name: 2-61-1-1-42.jpeg
Description: Component Plate ID



File Name: 2-62-1-1-42.jpeg
Description: General view of component

Seismic Walkdown Checklist (SWC)

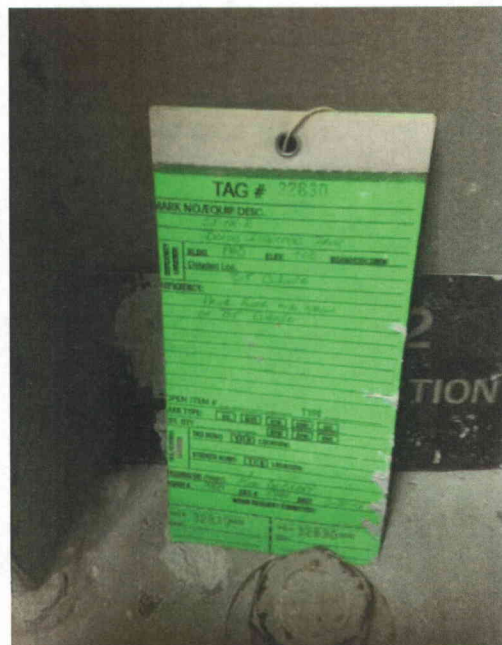
Status: N U

Equipment ID No. SI-TK-2 Equip. Class 21. Tanks and Heat Exchangers

Equipment Description Boron Injection Tank



File Name: 2-63-1-1-42.jpeg
Description: Typical view of base anchorage configuration for each leg support



File Name: 2-64-1-1-42.jpeg
Description: Deficiency tag addressing paint of cubicle floor and walls

Seismic Walkdown Checklist (SWC)

Status: Y N U

Equipment ID No. SV-MS-104B Equip. Class 7. Pneumatic-Operated Valve

Equipment Description 1B S/G Safety Vavle

Location: Bldg. SFGB Floor El. 768

Manufacturer, Model, Etc. _____

Instructions for Completing Checklist

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

Anchorage

- | | | | |
|---|---|--|--|
| Y | N | | |
| | X | | |
1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?
-
- | | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| | | | X |
2. Is the anchorage free of bent, broken, missing or loose hardware?
-
- | | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| | | | X |
3. Is the anchorage free of corrosion that is more than mild surface oxidation?
Valve found in good condition.
-
- | | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| | | | X |
4. Is the anchorage free of visible cracks in the concrete near the anchors?
-
- | | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| | | | X |
5. Is the anchorage configuration consistent with plant documentation?
(Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)
-
- | | | | | |
|---|---|---|--|--|
| Y | N | U | | |
| X | | | | |
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?

Seismic Walkdown Checklist (SWC)

Status: Y N U

Equipment ID No. SV-MS-104B Equip. Class 7. Pneumatic-Operated Valve

Equipment Description 1B S/G Safety Vavle

Interaction Effects

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

| Y | N | U | N/A |
|---|---|---|-----|
| X | | | |

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

| Y | N | U | N/A |
|---|---|---|-----|
| X | | | |

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

Attached lines identified with adequate flexibility.

| Y | N | U | N/A |
|---|---|---|-----|
| X | | | |

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

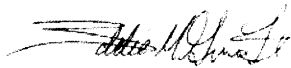
| Y | N | U |
|---|---|---|
| X | | |

Other Adverse Conditions


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

| Y | N | U |
|---|---|---|
| X | | |

Comments (Additional pages may be added as necessary)



Evaluated by: Eddie M. Guerra Date: 10/1/2012



Adam L. Helffrich Date: 10/1/2012

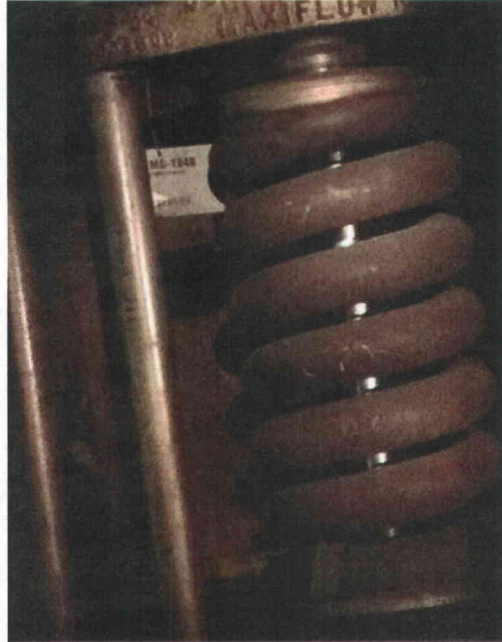
Seismic Walkdown Checklist (SWC)

Status: N U

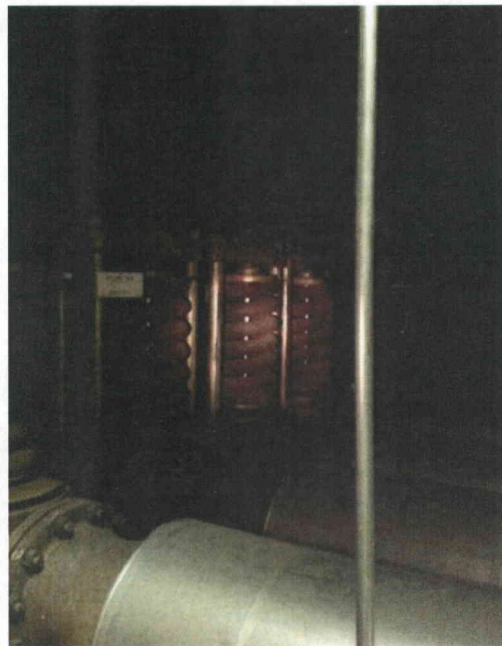
Equipment ID No. SV-MS-104B Equip. Class 7. Pneumatic-Operated Valve

Equipment Description 1B S/G Safety Valve

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



File Name: 2-61-4-1-32.jpeg
Description: Component Plate ID



File Name: 2-62-4-1-32.jpeg
Description: General view of component

Seismic Walkdown Checklist (SWC)

Status: Y N U

Equipment ID No. TCV-1CH-144 Equip. Class 7. Pneumatic-Operated Valve

Equipment Description TCV-1CH-144

Location: Bldg. AXLB Floor El. 722

Manufacturer, Model, Etc. _____

Instructions for Completing Checklist

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

Anchorage

- | | |
|---|---|
| Y | N |
| | X |
1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?
Small MOV on ~6" diam line. Line is well supported near valve.
- | | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| | | | X |
2. Is the anchorage free of bent, broken, missing or loose hardware?
- | | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| | | | X |
3. Is the anchorage free of corrosion that is more than mild surface oxidation?
Valve identified in good condition.
- | | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| | | | X |
4. Is the anchorage free of visible cracks in the concrete near the anchors?
- | | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| | | | X |
5. Is the anchorage configuration consistent with plant documentation?
(Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)
- | | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| | | | X |
- | | | |
|---|---|---|
| Y | N | U |
| X | | |
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?

Seismic Walkdown Checklist (SWC)

Status: Y N U

Equipment ID No. TCV-1CH-144 Equip. Class 7. Pneumatic-Operated Valve

Equipment Description TCV-1CH-144

Interaction Effects

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

| Y | N | U | N/A |
|---|---|---|-----|
| X | | | |

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

| Y | N | U | N/A |
|---|---|---|-----|
| X | | | |

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

Attached lines identified with adequate flexibility.

| Y | N | U | N/A |
|---|---|---|-----|
| X | | | |

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

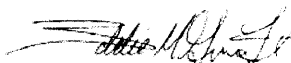
| Y | N | U |
|---|---|---|
| X | | |

Other Adverse Conditions


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

| Y | N | U |
|---|---|---|
| X | | |

Comments (Additional pages may be added as necessary)



Evaluated by: Eddie M. Guerra Date: 10/1/2012



Adam L. Helffrich Date: 10/1/2012

Seismic Walkdown Checklist (SWC)

Status: N U

Equipment ID No. TCV-1CH-144 Equip. Class 7. Pneumatic-Operated Valve

Equipment Description TCV-1CH-144

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



File Name: 2-61-1-1-41.jpeg
Description: Component Plate ID



File Name: 2-62-1-1-41.jpeg
Description: General view of component

Seismic Walkdown Checklist (SWC)

Status: Y N U

Equipment ID No. TCV-1CH-144 Equip. Class 7. Pneumatic-Operated Valve

Equipment Description TCV-1CH-144



File Name: 2-63-1-1-41.jpeg
Description: View of flexible attached lines

Seismic Walkdown Checklist (SWC)

Status: Y N U

Equipment ID No. TI-1EE-301 Equip. Class 19. Temperature Sensor

Equipment Description EE-Eg-1 Cooling Water To Engine Temperat

Location: Bldg. DGBX Floor El. 735

Manufacturer, Model, Etc. _____

Instructions for Completing Checklist

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

Anchorage

- | | | | | | | | | | |
|---|---|---|-----|---|-----|--|--|--|---|
| <p>1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? <i>Sensor found to be rigidly mounted on Diesel Generator.</i></p> | <table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <td style="padding: 2px 10px;">Y</td> <td style="padding: 2px 10px;">N</td> </tr> <tr> <td style="padding: 2px 10px; height: 15px;"></td> <td style="padding: 2px 10px; text-align: center;">X</td> </tr> </table> | Y | N | | X | | | | |
| Y | N | | | | | | | | |
| | X | | | | | | | | |
| <p>2. Is the anchorage free of bent, broken, missing or loose hardware?</p> | <table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <td style="padding: 2px 10px;">Y</td> <td style="padding: 2px 10px;">N</td> <td style="padding: 2px 10px;">U</td> <td style="padding: 2px 10px;">N/A</td> </tr> <tr> <td style="padding: 2px 10px; height: 15px;"></td> <td style="padding: 2px 10px; height: 15px;"></td> <td style="padding: 2px 10px; height: 15px;"></td> <td style="padding: 2px 10px; text-align: center;">X</td> </tr> </table> | Y | N | U | N/A | | | | X |
| Y | N | U | N/A | | | | | | |
| | | | X | | | | | | |
| <p>3. Is the anchorage free of corrosion that is more than mild surface oxidation?</p> | <table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <td style="padding: 2px 10px;">Y</td> <td style="padding: 2px 10px;">N</td> <td style="padding: 2px 10px;">U</td> <td style="padding: 2px 10px;">N/A</td> </tr> <tr> <td style="padding: 2px 10px; height: 15px;"></td> <td style="padding: 2px 10px; height: 15px;"></td> <td style="padding: 2px 10px; height: 15px;"></td> <td style="padding: 2px 10px; text-align: center;">X</td> </tr> </table> | Y | N | U | N/A | | | | X |
| Y | N | U | N/A | | | | | | |
| | | | X | | | | | | |
| <p>4. Is the anchorage free of visible cracks in the concrete near the anchors?</p> | <table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <td style="padding: 2px 10px;">Y</td> <td style="padding: 2px 10px;">N</td> <td style="padding: 2px 10px;">U</td> <td style="padding: 2px 10px;">N/A</td> </tr> <tr> <td style="padding: 2px 10px; height: 15px;"></td> <td style="padding: 2px 10px; height: 15px;"></td> <td style="padding: 2px 10px; height: 15px;"></td> <td style="padding: 2px 10px; text-align: center;">X</td> </tr> </table> | Y | N | U | N/A | | | | X |
| Y | N | U | N/A | | | | | | |
| | | | X | | | | | | |
| <p>5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)</p> | <table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <td style="padding: 2px 10px;">Y</td> <td style="padding: 2px 10px;">N</td> <td style="padding: 2px 10px;">U</td> <td style="padding: 2px 10px;">N/A</td> </tr> <tr> <td style="padding: 2px 10px; height: 15px;"></td> <td style="padding: 2px 10px; height: 15px;"></td> <td style="padding: 2px 10px; height: 15px;"></td> <td style="padding: 2px 10px; text-align: center;">X</td> </tr> </table> | Y | N | U | N/A | | | | X |
| Y | N | U | N/A | | | | | | |
| | | | X | | | | | | |
| <p>6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?</p> | <table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <td style="padding: 2px 10px;">Y</td> <td style="padding: 2px 10px;">N</td> <td style="padding: 2px 10px;">U</td> </tr> <tr> <td style="padding: 2px 10px; text-align: center;">X</td> <td style="padding: 2px 10px; height: 15px;"></td> <td style="padding: 2px 10px; height: 15px;"></td> </tr> </table> | Y | N | U | X | | | | |
| Y | N | U | | | | | | | |
| X | | | | | | | | | |

Seismic Walkdown Checklist (SWC)

Status: Y N U

Equipment ID No. TI-1EE-301 Equip. Class 19. Temperature Sensor

Equipment Description EE-Eg-1 Cooling Water To Engine Temperat

Interaction Effects

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

| Y | N | U | N/A |
|---|---|---|-----|
| X | | | |

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

| Y | N | U | N/A |
|---|---|---|-----|
| X | | | |

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

| Y | N | U | N/A |
|---|---|---|-----|
| X | | | |

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

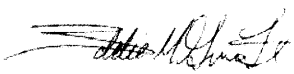
| Y | N | U |
|---|---|---|
| X | | |

Other Adverse Conditions

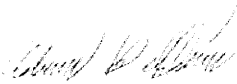
11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment?

| Y | N | U |
|---|---|---|
| X | | |

Comments (Additional pages may be added as necessary)



Evaluated by: Eddie M. Guerra Date: 10/1/2012



Adam L. Helffrich Date: 10/1/2012

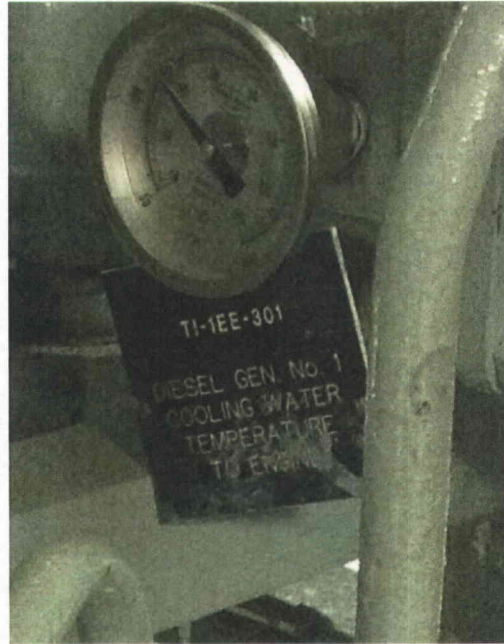
Seismic Walkdown Checklist (SWC)

Status: N U

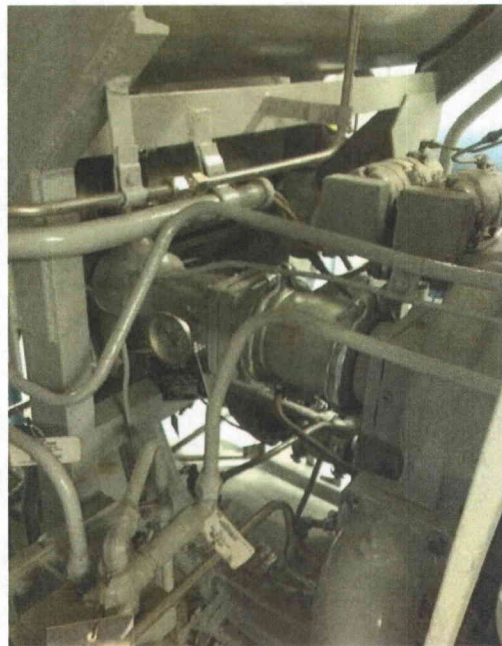
Equipment ID No. TI-1EE-301 Equip. Class 19. Temperature Sensor

Equipment Description EE-Eg-1 Cooling Water To Engine Temperat

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



File Name: 2-61-1-1-19.jpeg
Description: Component Plate ID



File Name: 2-62-1-1-19.jpeg
Description: General view of component

Seismic Walkdown Checklist (SWC)

Status: Y N U

Equipment ID No. TRANS-1-8N Equip. Class 4. Transformers

Equipment Description 4160V/480V Transformer TRANS-1-8N to Emergency Bus

Location: Bldg. SRVB Floor El. 713

Manufacturer, Model, Etc. _____

Instructions for Completing Checklist

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

Anchorage

- | | | | |
|---|---|--|--|
| Y | N | | |
| X | X | | |
1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?
- Front and back of base welded to embed with 2" @ 8" of 3/16" welds. Component identified to be bolted to adjacent LVSGR. Coils are anchored to heavy base with 4-1" diam machine bolts. Adequate clearance identified between buses and housing.*
- | | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| X | | | |
2. Is the anchorage free of bent, broken, missing or loose hardware?
- | | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| X | | | |
3. Is the anchorage free of corrosion that is more than mild surface oxidation?
- | | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| X | | | |
4. Is the anchorage free of visible cracks in the concrete near the anchors?
- | | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| X | | | |
5. Is the anchorage configuration consistent with plant documentation?
(Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)
- | | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| | | | X |
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?
- | | | |
|---|---|---|
| Y | N | U |
| X | | |

Seismic Walkdown Checklist (SWC)

Status: Y N U

Equipment ID No. TRANS-1-8N Equip. Class 4. Transformers

Equipment Description 4160V/480V Transformer TRANS-1-8N to Emergency Bus

Interaction Effects

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

| Y | N | U | N/A |
|---|---|---|-----|
| X | | | |

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

| Y | N | U | N/A |
|---|---|---|-----|
| X | | | |

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

| Y | N | U | N/A |
|---|---|---|-----|
| X | | | |

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

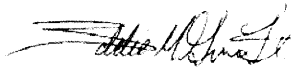
| Y | N | U |
|---|---|---|
| X | | |

Other Adverse Conditions

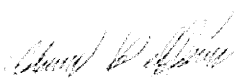
11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment?

| Y | N | U |
|---|---|---|
| X | | |

Comments (Additional pages may be added as necessary)



Evaluated by: Eddie M. Guerra Date: 10/1/2012



Adam L. Helffrich Date: 10/1/2012

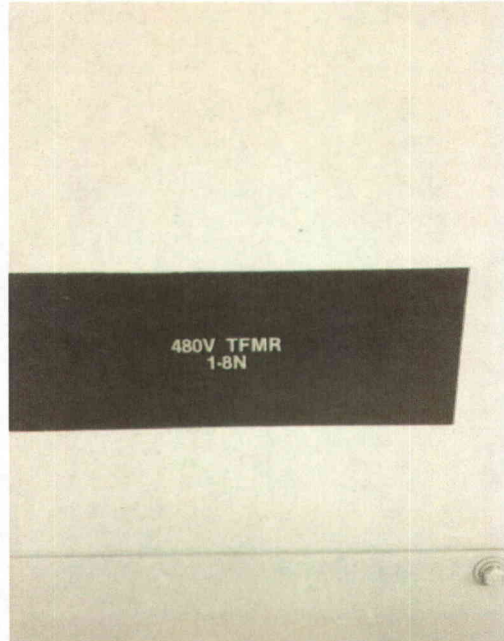
Seismic Walkdown Checklist (SWC)

Status: N U

Equipment ID No. TRANS-1-8N Equip. Class 4. Transformers

Equipment Description 4160V/480V Transformer TRANS-1-8N to Emergency Bus

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



File Name: 2-61-12-1-25.jpeg
Description: Component Plate ID



File Name: 2-62-12-1-25.jpeg
Description: General view of component

Seismic Walkdown Checklist (SWC)

Status: N U

Equipment ID No. TRANS-1-8N Equip. Class 4. Transformers

Equipment Description 4160V/480V Transformer TRANS-1-8N to Emergency Bus



File Name: 2-63-12-1-25.jpeg
Description: View of base mounting frame configuration



File Name: 2-64-12-1-25.jpeg
Description: View of flexible attached line

Seismic Walkdown Checklist (SWC)

Status: Y N U

Equipment ID No. TRANS-1-8N1 Equip. Class 4. Transformers

Equipment Description 4160V/480V Transformer TRANS-1-8N1 to Emergency Bus

Location: Bldg. SRVB Floor El. 713

Manufacturer, Model, Etc. _____

Instructions for Completing Checklist

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

Anchorage

- | | |
|---|---|
| Y | N |
| X | |
1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?
- Housing anchored with 4-1/2" diam anchor bolts through angles at base which are welded to base of the TRFMR. Component bolted to adjacent 480V substation. 2" gap identified for door entry cage judged acceptable.*
- | | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| X | | | |
2. Is the anchorage free of bent, broken, missing or loose hardware?
- | | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| X | | | |
3. Is the anchorage free of corrosion that is more than mild surface oxidation?
- | | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| X | | | |
4. Is the anchorage free of visible cracks in the concrete near the anchors?
- | | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| X | | | |
5. Is the anchorage configuration consistent with plant documentation?
(Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)
- Calculation 52233-C-006 Anchorage Calc confirms anchorage configuration*
- | | | |
|---|---|---|
| Y | N | U |
| X | | |
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?

Seismic Walkdown Checklist (SWC)

Status: Y N U

Equipment ID No. TRANS-1-8N1 Equip. Class 4. Transformers

Equipment Description 4160V/480V Transformer TRANS-1-8N1 to Emergency Bus

Interaction Effects

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

| | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| X | | | |

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

| | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| X | | | |

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

| | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| X | | | |

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

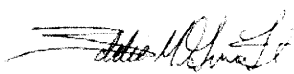
| | | |
|---|---|---|
| Y | N | U |
| X | | |

Other Adverse Conditions

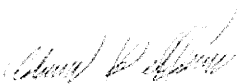
11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment?

| | | |
|---|---|---|
| Y | N | U |
| X | | |

Comments (Additional pages may be added as necessary)



Evaluated by: Eddie M. Guerra Date: 10/1/2012



Adam L. Helffrich Date: 10/1/2012

Seismic Walkdown Checklist (SWC)

Status: Y N U

Equipment ID No. TRANS-1-8N1 Equip. Class 4. Transformers

Equipment Description 4160V/480V Transformer TRANS-1-8N1 to Emergency Bus

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



File Name: 2-61-1-1-34.jpeg
Description: Component Plate ID



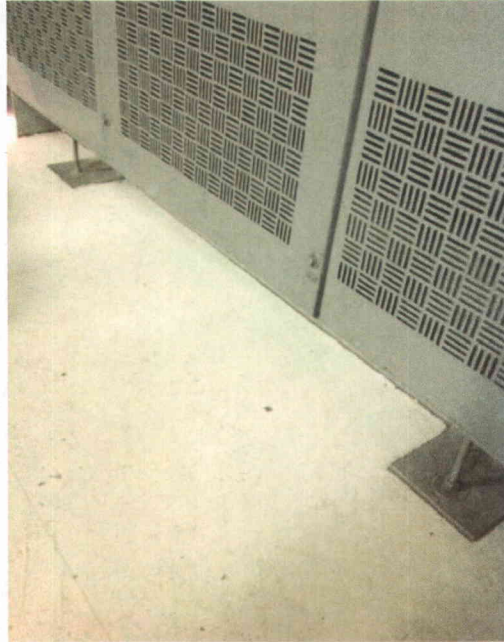
File Name: 2-62-1-1-34.jpeg
Description: General view of component

Seismic Walkdown Checklist (SWC)

Status: N U

Equipment ID No. TRANS-1-8N1 Equip. Class 4. Transformers

Equipment Description 4160V/480V Transformer TRANS-1-8N1 to Emergency Bus



File Name: 2-63-1-1-34.jpeg
Description: General view of base mounting frame

Seismic Walkdown Checklist (SWC)

Status: Y N U

Equipment ID No. TRANS-1-9P Equip. Class 4. Transformers

Equipment Description 4160V Bus 1DF to Emergency Bus 1P Transformer

Location: Bldg. SRVB Floor El. 713

Manufacturer, Model, Etc. _____

Instructions for Completing Checklist

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

Anchorage

- | | | | |
|--------------------------|-------------------------------------|--|--|
| Y | N | | |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | | |
1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?
- Connected to steel base frame with 18-3/8" diam machine bolts. Base frame is welded to embed with 2" @ 8" of 3/16" weld. Component was identified to be connected to adjacent SWGR. Coils are anchored to heavy base with 4-1" diam machine bolts.*
- | | | | |
|-------------------------------------|--------------------------|--------------------------|--------------------------|
| Y | N | U | N/A |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
2. Is the anchorage free of bent, broken, missing or loose hardware?
Verified to be connected to adjacent.
- | | | | |
|-------------------------------------|--------------------------|--------------------------|--------------------------|
| Y | N | U | N/A |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
3. Is the anchorage free of corrosion that is more than mild surface oxidation?
- | | | | |
|-------------------------------------|--------------------------|--------------------------|--------------------------|
| Y | N | U | N/A |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
4. Is the anchorage free of visible cracks in the concrete near the anchors?
Spalled concrete identified on concrete pad. Judged not to be a seismic concern.
- | | | | |
|--------------------------|--------------------------|--------------------------|-------------------------------------|
| Y | N | U | N/A |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
5. Is the anchorage configuration consistent with plant documentation?
(Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)
- | | | | |
|-------------------------------------|--------------------------|--------------------------|--|
| Y | N | U | |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?

Seismic Walkdown Checklist (SWC)

Status: Y N U

Equipment ID No. TRANS-1-9P Equip. Class 4. Transformers

Equipment Description 4160V Bus 1DF to Emergency Bus 1P Transformer

Interaction Effects

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

| | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| X | | | |

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

| | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| X | | | |

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

| | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| X | | | |

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

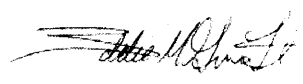
| | | |
|---|---|---|
| Y | N | U |
| X | | |

Other Adverse Conditions

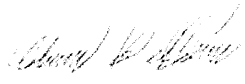
11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment?

| | | |
|---|---|---|
| Y | N | U |
| X | | |

Comments (Additional pages may be added as necessary)



Evaluated by: Eddie M. Guerra Date: 10/1/2012



Adam L. Helffrich Date: 10/1/2012

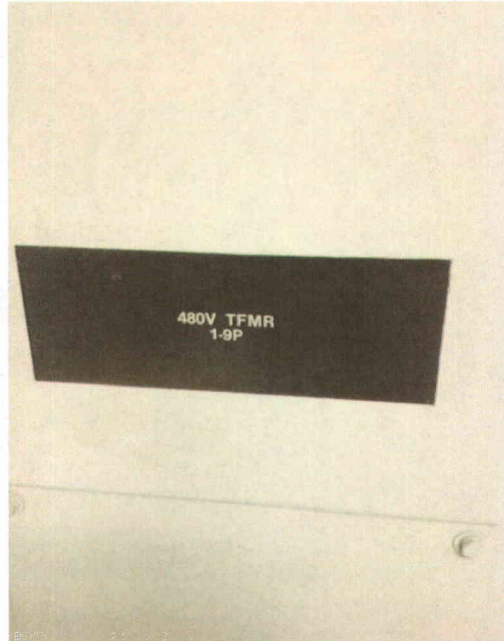
Seismic Walkdown Checklist (SWC)

Status: N U

Equipment ID No. TRANS-1-9P Equip. Class 4. Transformers

Equipment Description 4160V Bus 1DF to Emergency Bus 1P Transformer

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



File Name: 2-61-7-1-26.jpeg
Description: Component Plate ID



File Name: 2-62-7-1-26.jpeg
Description: General view of component

Seismic Walkdown Checklist (SWC)

Status: N U

Equipment ID No. TRANS-1-9P Equip. Class 4. Transformers

Equipment Description 4160V Bus 1DF to Emergency Bus 1P Transformer



File Name: 2-63-7-1-26.jpeg
Description: General view of base mounting frame



File Name: 2-64-7-1-26.jpeg
Description: General view of base mounting frame

Seismic Walkdown Checklist (SWC)

Status: N U

Equipment ID No. TRANS-1-9P Equip. Class 4. Transformers

Equipment Description 4160V Bus 1DF to Emergency Bus 1P Transformer



File Name: 2-73-7-1-26.jpeg
Description:



File Name: 2-94-7-1-26.jpeg
Description:

Seismic Walkdown Checklist (SWC)

Status: Y N U

Equipment ID No. TRF-1015 Equip. Class 4. Transformers

Equipment Description Vital Bus #1 Aux PWR Supply Static Line 480V/120V AC Voltage Regulator

Location: Bldg. SRVB Floor El. 713

Manufacturer, Model, Etc. _____

Instructions for Completing Checklist

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

Anchorage

- | | |
|--------------------------|-------------------------------------|
| Y | N |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?
4-3/4" diam anchor bolts identified through inverted base channel. Separation with adjacent panels judged to be adequate (~10").
- | | | | |
|-------------------------------------|--------------------------|--------------------------|--------------------------|
| Y | N | U | N/A |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
2. Is the anchorage free of bent, broken, missing or loose hardware?
- | | | | |
|-------------------------------------|--------------------------|--------------------------|--------------------------|
| Y | N | U | N/A |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
3. Is the anchorage free of corrosion that is more than mild surface oxidation?
- | | | | |
|-------------------------------------|--------------------------|--------------------------|--------------------------|
| Y | N | U | N/A |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
4. Is the anchorage free of visible cracks in the concrete near the anchors?
- | | | | |
|-------------------------------------|--------------------------|--------------------------|--------------------------|
| Y | N | U | N/A |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
5. Is the anchorage configuration consistent with plant documentation?
(Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)
- | | | | |
|--------------------------|--------------------------|--------------------------|-------------------------------------|
| Y | N | U | N/A |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?
- | | | |
|-------------------------------------|--------------------------|--------------------------|
| Y | N | U |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

Seismic Walkdown Checklist (SWC)

Status: Y N U

Equipment ID No. TRF-1015 Equip. Class 4. Transformers

Equipment Description Vital Bus #1 Aux PWR Supply Static Line 480V/120V AC Voltage Regulator

Interaction Effects

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

| | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| X | | | |

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?
Block wall SB-1-11 has been qualified per IE 80-11 review.

| | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| X | | | |

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

| | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| X | | | |

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


| | | |
|---|---|---|
| Y | N | U |
| X | | |

Other Adverse Conditions


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

| | | |
|---|---|---|
| Y | N | U |
| X | | |

Comments (Additional pages may be added as necessary)



Evaluated by: Eddie M. Guerra Date: 10/1/2012



Adam L. Helffrich Date: 10/1/2012

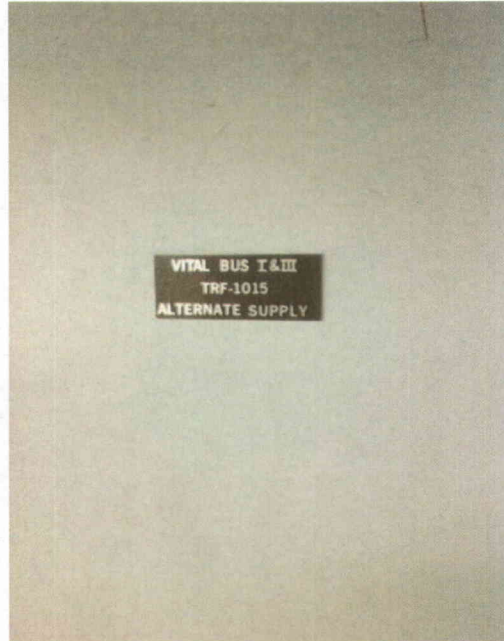
Seismic Walkdown Checklist (SWC)

Status: N U

Equipment ID No. TRF-1015 Equip. Class 4. Transformers

Equipment Description Vital Bus #1 Aux PWR Supply Static Line 480V/120V AC Voltage Regulator

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



File Name: 2-61-7-1-25.jpeg
Description: Component Plate ID



File Name: 2-62-7-1-25.jpeg
Description: General view of component

Seismic Walkdown Checklist (SWC)

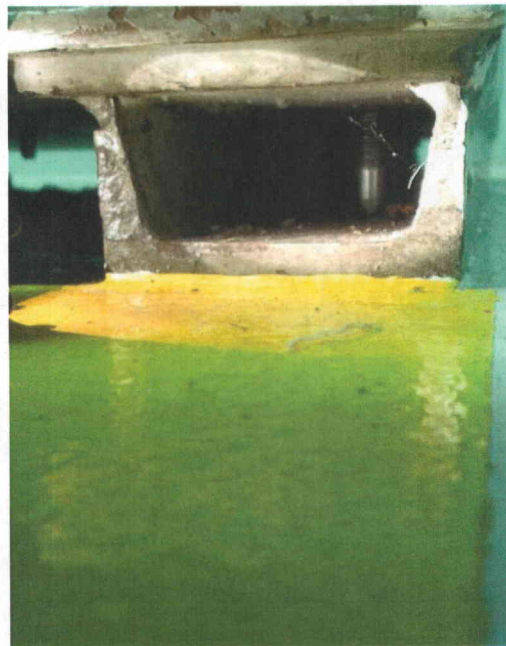
Status: N U

Equipment ID No. TRF-1015 Equip. Class 4. Transformers

Equipment Description Vital Bus #1 Aux PWR Supply Static Line 480V/120V AC Voltage Regulator



File Name: 2-63-7-1-25.jpeg
Description: View of channel mounting base



File Name: 2-64-7-1-25.jpeg
Description: Close up view of channel base with anchor bolts

Seismic Walkdown Checklist (SWC)

Status: N U

Equipment ID No. TRF-1015 Equip. Class 4. Transformers

Equipment Description Vital Bus #1 Aux PWR Supply Static Line 480V/120V AC Voltage Regulator



File Name: 2-73-7-1-25.jpeg

Description: Block wall identified in the vicinity of the component

Seismic Walkdown Checklist (SWC)

Status: Y N U

Equipment ID No. TRS-BIP-PNL1 Equip. Class 20. Instrument and Control Panels

Equipment Description Backup Indicating Panel Transfer Switch

Location: Bldg. SFGB Floor El. 735

Manufacturer, Model, Etc. _____

Instructions for Completing Checklist

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

Anchorage

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

| | |
|---|---|
| Y | N |
| | X |

Wall mounted panel (~36"x36"x10") welded on sides to 3/8" plates with ~18" of 1/8" welds (on each side). Each 3/8" plate is anchored to wall with 4-3/8" anchor bolts.

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

| | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| X | | | |

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

| | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| X | | | |

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

| | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| X | | | |

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

| | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| | | | X |

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

| | | |
|---|---|---|
| Y | N | U |
| X | | |

Seismic Walkdown Checklist (SWC)

Status: Y N U

Equipment ID No. TRS-BIP-PNL1 Equip. Class 20. Instrument and Control Panels

Equipment Description Backup Indicating Panel Transfer Switch

Interaction Effects

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

| Y | N | U | N/A |
|---|---|---|-----|
| X | | | |

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

| Y | N | U | N/A |
|---|---|---|-----|
| X | | | |

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

| Y | N | U | N/A |
|---|---|---|-----|
| X | | | |

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

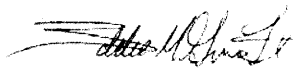
| Y | N | U |
|---|---|---|
| X | | |

Other Adverse Conditions

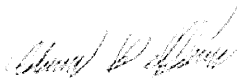
11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment?

| Y | N | U |
|---|---|---|
| X | | |

Comments (Additional pages may be added as necessary)



Evaluated by: Eddie M. Guerra Date: 10/1/2012



Adam L. Helffrich Date: 10/1/2012

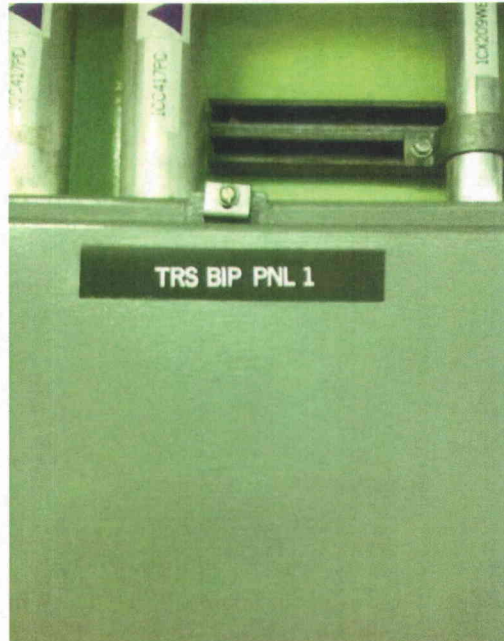
Seismic Walkdown Checklist (SWC)

Status: N U

Equipment ID No. TRS-BIP-PNL1 Equip. Class 20. Instrument and Control Panels

Equipment Description Backup Indicating Panel Transfer Switch

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



File Name: 2-61-1-1-23.jpeg
Description: Component Plate ID



File Name: 2-62-1-1-23.jpeg
Description: General view of component

Seismic Walkdown Checklist (SWC)

Status: N U

Equipment ID No. TRS-BIP-PNL1 Equip. Class 20. Instrument and Control Panels

Equipment Description Backup Indicating Panel Transfer Switch



File Name: 2-63-1-1-23.jpeg
Description: View of wall mounting configuration



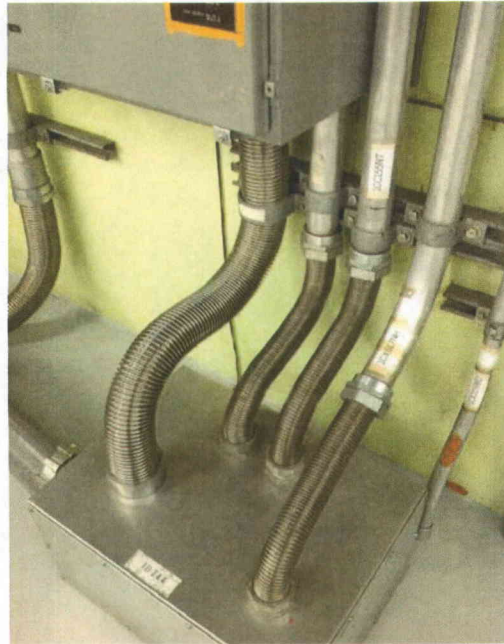
File Name: 2-64-1-1-23.jpeg
Description: View of top entry conduits

Seismic Walkdown Checklist (SWC)

Status: N U

Equipment ID No. TRS-BIP-PNL1 Equip. Class 20. Instrument and Control Panels

Equipment Description Backup Indicating Panel Transfer Switch



File Name: 2-73-1-1-23.jpeg

Description: View of flexible attached line from bottom of panel

Seismic Walkdown Checklist (SWC)

Status: Y N U

Equipment ID No. TV-1BD-100A Equip. Class 7. Pneumatic-Operated Valve

Equipment Description STM GEN 1A Blowdown Trip Valve

Location: Bldg. SFGB Floor El. 722

Manufacturer, Model, Etc. _____

Instructions for Completing Checklist

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

Anchorage

- | | | | |
|--------------------------|-------------------------------------|--|--|
| Y | N | | |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | | |
1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?
Valve mounted on ~6" diam pipe line. Pipe is well supported within (+/-) ~3ft of valve.
- | | | | |
|--------------------------|--------------------------|--------------------------|-------------------------------------|
| Y | N | U | N/A |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
2. Is the anchorage free of bent, broken, missing or loose hardware?
- | | | | |
|--------------------------|--------------------------|--------------------------|-------------------------------------|
| Y | N | U | N/A |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
3. Is the anchorage free of corrosion that is more than mild surface oxidation?
Slight surface rust visible at bottom of the yoke and judged acceptable.
- | | | | |
|--------------------------|--------------------------|--------------------------|-------------------------------------|
| Y | N | U | N/A |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
4. Is the anchorage free of visible cracks in the concrete near the anchors?
- | | | | |
|--------------------------|--------------------------|--------------------------|-------------------------------------|
| Y | N | U | N/A |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
5. Is the anchorage configuration consistent with plant documentation?
(Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)
- | | | | |
|--------------------------|--------------------------|--------------------------|-------------------------------------|
| Y | N | U | N/A |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
- | | | |
|-------------------------------------|--------------------------|--------------------------|
| Y | N | U |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?

Seismic Walkdown Checklist (SWC)

Status: Y N U

Equipment ID No. TV-1BD-100A Equip. Class 7. Pneumatic-Operated Valve

Equipment Description STM GEN 1A Blowdown Trip Valve

Interaction Effects

- | | Y | N | U | N/A |
|---|---|---|---|-----|
| 7. Are soft targets free from impact by nearby equipment or structures? | X | | | |
| 8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? | X | | | |
| 9. Do attached lines have adequate flexibility to avoid damage? | X | | | |
| 10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? | X | | | |

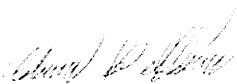
Other Adverse Conditions

- | | Y | N | U |
|--|---|---|---|
| 11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? | X | | |

Comments (Additional pages may be added as necessary)



Evaluated by: Eddie M. Guerra Date: 10/1/2012



Adam L. Helffrich Date: 10/1/2012

Seismic Walkdown Checklist (SWC)

Status: N U

Equipment ID No. TV-1BD-100A Equip. Class 7. Pneumatic-Operated Valve

Equipment Description STM GEN 1A Blowdown Trip Valve

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



File Name: 2-61-1-1-38.jpeg
Description: Component Plate ID



File Name: 2-62-1-1-38.jpeg
Description: General view of component

Seismic Walkdown Checklist (SWC)

Status: N U

Equipment ID No. TV-1BD-100A Equip. Class 7. Pneumatic-Operated Valve

Equipment Description STM GEN 1A Blowdown Trip Valve



File Name: 2-63-1-1-38.jpeg
Description: Slight corrosion identified on valve

Seismic Walkdown Checklist (SWC)

Status: Y N U

Equipment ID No. TV-1CV-102 Equip. Class 8B. Solenoid Valve

Equipment Description CNMT Active Monitor DISCH CNMT ISOL

Location: Bldg. SFGB Floor El. 722

Manufacturer, Model, Etc. _____

Instructions for Completing Checklist

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

Anchorage

- | | | | |
|--|---|---|--|
| | Y | N | |
| | | X | |
1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?
Small valve mounted on ~1.5" line. Pipe supported off of floor on both sides of the valve (@ ~10").
- | | | | | |
|--|---|---|---|-----|
| | Y | N | U | N/A |
| | | | | X |
2. Is the anchorage free of bent, broken, missing or loose hardware?
- | | | | | |
|--|---|---|---|-----|
| | Y | N | U | N/A |
| | | | | X |
3. Is the anchorage free of corrosion that is more than mild surface oxidation?
- | | | | | |
|--|---|---|---|-----|
| | Y | N | U | N/A |
| | | | | X |
4. Is the anchorage free of visible cracks in the concrete near the anchors?
- | | | | | |
|--|---|---|---|-----|
| | Y | N | U | N/A |
| | | | | X |
5. Is the anchorage configuration consistent with plant documentation?
(Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)
- | | | | | |
|--|---|---|---|-----|
| | Y | N | U | N/A |
| | | | | X |
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?
- | | | | |
|---|---|---|---|
| | Y | N | U |
| X | | | |

Seismic Walkdown Checklist (SWC)

Status: Y N U

Equipment ID No. TV-1CV-102 Equip. Class 8B. Solenoid Valve

Equipment Description CNMT Active Monitor DISCH CNMT ISOL

Interaction Effects

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

| Y | N | U | N/A |
|---|---|---|-----|
| X | | | |

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

| Y | N | U | N/A |
|---|---|---|-----|
| X | | | |

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

Attached lines identified with adequate flexibility.

| Y | N | U | N/A |
|---|---|---|-----|
| X | | | |

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

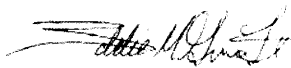
| Y | N | U |
|---|---|---|
| X | | |

Other Adverse Conditions

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

| Y | N | U |
|---|---|---|
| X | | |

Comments (Additional pages may be added as necessary)



Evaluated by: Eddie M. Guerra Date: 10/1/2012



Adam L. Helffrich Date: 10/1/2012

Seismic Walkdown Checklist (SWC)

Status: Y N U

Equipment ID No. TV-1CV-102 Equip. Class 8B. Solenoid Valve

Equipment Description CNMT Active Monitor DISCH CNMT ISOL

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



File Name: 2-61-2-1-38.jpeg
Description: Component Plate ID



File Name: 2-62-2-1-38.jpeg
Description: General view of component

Seismic Walkdown Checklist (SWC)

Status: N U

Equipment ID No. TV-1CV-102 Equip. Class 8B. Solenoid Valve

Equipment Description CNMT Active Monitor DISCH CNMT ISOL



File Name: 2-63-2-1-38.jpeg

Description: View of line supports location relative to valve

Seismic Walkdown Checklist (SWC)

Status: Y N U

Equipment ID No. TV-1CV-150B Equip. Class 8B. Solenoid Valve

Equipment Description CNMT VAC PP 1B CNMT ISOL, TV-CV-150B

Location: Bldg. SFGB Floor El. 722

Manufacturer, Model, Etc. _____

Instructions for Completing Checklist

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

Anchorage

- | | | | |
|---|---|--|--|
| Y | N | | |
| | X | | |
1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?
Small solenoid valve on ~2" diam pipe. Pipe is well supported near the valve.
- | | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| | | | X |
2. Is the anchorage free of bent, broken, missing or loose hardware?
- | | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| | | | X |
3. Is the anchorage free of corrosion that is more than mild surface oxidation?
- | | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| | | | X |
4. Is the anchorage free of visible cracks in the concrete near the anchors?
- | | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| | | | X |
5. Is the anchorage configuration consistent with plant documentation?
(Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)
- | | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| | | | X |
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?
- | | | |
|---|---|---|
| Y | N | U |
| X | | |

Seismic Walkdown Checklist (SWC)

Status: Y N U

Equipment ID No. TV-1CV-150B Equip. Class 8B. Solenoid Valve

Equipment Description CNMT VAC PP 1B CNMT ISOL, TV-CV-150B

Interaction Effects

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

| Y | N | U | N/A |
|---|---|---|-----|
| X | | | |

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

| Y | N | U | N/A |
|---|---|---|-----|
| X | | | |

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

Attached lines identified with adequate flexibility.

| Y | N | U | N/A |
|---|---|---|-----|
| X | | | |

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


| Y | N | U |
|---|---|---|
| X | | |

Other Adverse Conditions

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

| Y | N | U |
|---|---|---|
| X | | |

Comments (Additional pages may be added as necessary)



Evaluated by: Eddie M. Guerra Date: 10/1/2012



Adam L. Helffrich Date: 10/1/2012

Seismic Walkdown Checklist (SWC)

Status: N U

Equipment ID No. TV-1CV-150B Equip. Class 8B. Solenoid Valve

Equipment Description CNMT VAC PP 1B CNMT ISOL, TV-CV-150B

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



File Name: 2-61-2-1-37.jpeg
Description: Component Plate ID



File Name: 2-62-2-1-37.jpeg
Description: General view of component

Seismic Walkdown Checklist (SWC)

Status: Y N U

Equipment ID No. TV-1MS-101C Equip. Class 7. Pneumatic-Operated Valve

Equipment Description Loop 1C Main Steam Trip Valve

Location: Bldg. SFGB Floor El. 768

Manufacturer, Model, Etc. _____

Instructions for Completing Checklist

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

Anchorage

- | | | | |
|---|---|--|--|
| Y | N | | |
| | X | | |
1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?
Side mounted on large pipe found in good condition. (This valve is a power assisted check valve)
- | | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| | | | X |
2. Is the anchorage free of bent, broken, missing or loose hardware?
- | | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| | | | X |
3. Is the anchorage free of corrosion that is more than mild surface oxidation?
Slight surface corrosion identified.
- | | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| | | | X |
4. Is the anchorage free of visible cracks in the concrete near the anchors?
- | | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| | | | X |
5. Is the anchorage configuration consistent with plant documentation?
(Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)
- | | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| | | | X |
- | | | | | |
|---|---|---|--|--|
| Y | N | U | | |
| X | | | | |
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?

Seismic Walkdown Checklist (SWC)

Status: Y N U

Equipment ID No. TV-1MS-101C Equip. Class 7. Pneumatic-Operated Valve

Equipment Description Loop 1C Main Steam Trip Valve

Interaction Effects

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

| Y | N | U | N/A |
|---|---|---|-----|
| X | | | |

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

| Y | N | U | N/A |
|---|---|---|-----|
| X | | | |

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

Attached lines identified with adequate flexibility.

| Y | N | U | N/A |
|---|---|---|-----|
| X | | | |

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

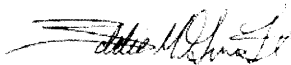
| Y | N | U |
|---|---|---|
| X | | |

Other Adverse Conditions

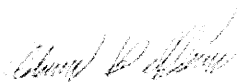
11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment?

| Y | N | U |
|---|---|---|
| X | | |

Comments (Additional pages may be added as necessary)



Evaluated by: Eddie M. Guerra Date: 10/1/2012



Adam L. Helffrich Date: 10/1/2012

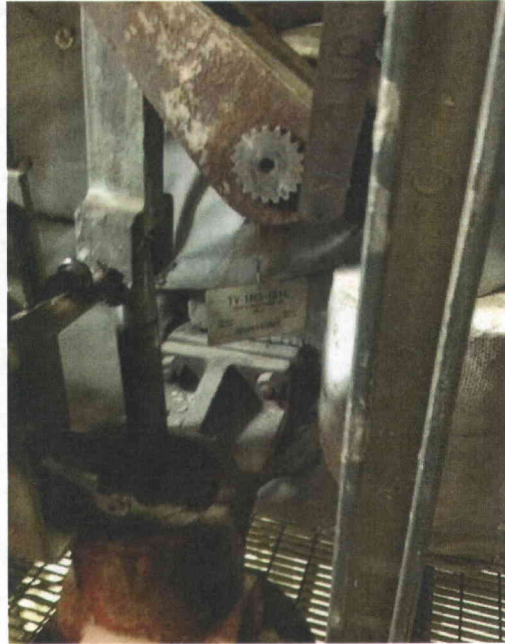
Seismic Walkdown Checklist (SWC)

Status: N U

Equipment ID No. TV-1MS-101C Equip. Class 7. Pneumatic-Operated Valve

Equipment Description Loop 1C Main Steam Trip Vavle

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



File Name: 2-61-5-1-32.jpeg
Description: Component Plate ID



File Name: 2-62-5-1-32.jpeg
Description: General view of component

Seismic Walkdown Checklist (SWC)

Status: Y N U

Equipment ID No. TV-1MS-105A Equip. Class 7. Pneumatic-Operated Valve

Equipment Description AFW Turb Steam SUP A TRN Trip Valve

Location: Bldg. SFGB Floor El. 747

Manufacturer, Model, Etc. _____

Instructions for Completing Checklist

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

Anchorage

- | | | | | |
|---|--------------------------|-------------------------------------|--|--|
| | Y | N | | |
| 1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | | |
-
- | | | | | |
|--|--------------------------|--------------------------|--------------------------|-------------------------------------|
| | Y | N | U | N/A |
| 2. Is the anchorage free of bent, broken, missing or loose hardware? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
-
- | | | | | |
|--|--------------------------|--------------------------|--------------------------|-------------------------------------|
| | Y | N | U | N/A |
| 3. Is the anchorage free of corrosion that is more than mild surface oxidation? <i>Valve found in good condition.</i> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
-
- | | | | | |
|--|--------------------------|--------------------------|--------------------------|-------------------------------------|
| | Y | N | U | N/A |
| 4. Is the anchorage free of visible cracks in the concrete near the anchors? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
-
- | | | | | |
|---|--------------------------|--------------------------|--------------------------|-------------------------------------|
| | Y | N | U | N/A |
| 5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
-
- | | | | |
|---|-------------------------------------|--------------------------|--------------------------|
| | Y | N | U |
| 6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

Seismic Walkdown Checklist (SWC)

Status: Y N U

Equipment ID No. TV-1MS-105A Equip. Class 7. Pneumatic-Operated Valve

Equipment Description AFW Turb Steam SUP A TRN Trip Valve

Interaction Effects

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

| | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| X | | | |

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

| | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| X | | | |

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

| | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| X | | | |

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

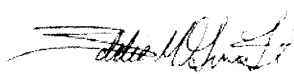
| | | |
|---|---|---|
| Y | N | U |
| X | | |

Other Adverse Conditions


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

| | | |
|---|---|---|
| Y | N | U |
| X | | |

Comments (Additional pages may be added as necessary)



Evaluated by: Eddie M. Guerra Date: 10/1/2012



Adam L. Helffrich Date: 10/1/2012

Seismic Walkdown Checklist (SWC)

Status: Y N U

Equipment ID No. TV-1MS-105A Equip. Class 7. Pneumatic-Operated Valve

Equipment Description AFW Turb Steam SUP A TRN Trip Valve

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



File Name: 2-61-6-1-32.jpeg
Description: Component Plate ID



File Name: 2-62-6-1-32.jpeg
Description: General view of component

Seismic Walkdown Checklist (SWC)

Status: N U

Equipment ID No. TV-1MS-105A Equip. Class 7. Pneumatic-Operated Valve

Equipment Description AFW Turb Steam SUP A TRN Trip Valve



File Name: 2-63-6-1-32.jpeg
Description: View of flexible attached lines

Seismic Walkdown Checklist (SWC)

Status: N U

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

Equipment Description Control Room

Location: Bldg. SRVB Floor El. 735

Manufacturer, Model, Etc. _____

Instructions for Completing Checklist

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

Anchorage

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

| | |
|---|---|
| Y | N |
| X | X |

Panel welded at base to embed with 2" @ 6" spacing (1/4" fillet). Middle post support identified which provides reinforcement to the front mounting panel. These posts are anchored with 2-3/8" diam anchor bolts. Posts are spaced at ~4'-6".

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

| | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| X | | | |

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

| | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| X | | | |

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

| | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| X | | | |

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

| | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| | | | X |

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

| | | |
|---|---|---|
| Y | N | U |
| X | | |

Seismic Walkdown Checklist (SWC)

Status: Y N U

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

Equipment Description Control Room

Interaction Effects

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

| Y | N | U | N/A |
|---|---|---|-----|
| X | | | |

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

| Y | N | U | N/A |
|---|---|---|-----|
| X | | | |

Control room ceiling's main runners are supported by wires at ~4' spacing. Each ceiling tile (i.e., ege grating) is tied to the main runners at each of its four corners with tie wraps. Judged no interaction concern.

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

| Y | N | U | N/A |
|---|---|---|-----|
| X | | | |

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

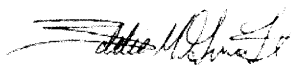
| Y | N | U |
|---|---|---|
| X | | |

Other Adverse Conditions

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

| Y | N | U |
|---|---|---|
| X | | |

Comments (Additional pages may be added as necessary)



Evaluated by: Eddie M. Guerra Date: 10/1/2012



Adam L. Helffrich Date: 10/1/2012

Seismic Walkdown Checklist (SWC)

Status: N U

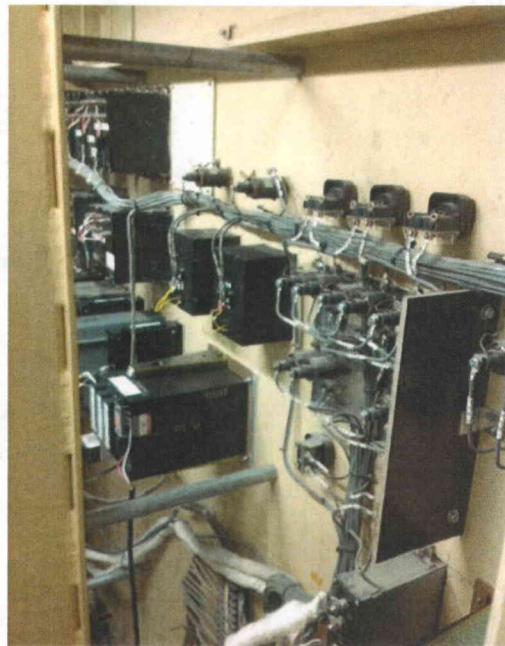
Equipment ID No. VB-A Equip. Class 20. Instrument and Control Panels

Equipment Description Control Room

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



File Name: 2-61-6-1-18.jpeg
Description: General view of component



File Name: 2-62-6-1-18.jpeg
Description: General view of instrumentation inside control panel

Seismic Walkdown Checklist (SWC)

Status: N U

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

Equipment Description Control Room



File Name: 2-63-6-1-18.jpeg
Description: Welded detail between panel housing and embedment



File Name: 2-64-6-1-18.jpeg
Description: View of mid posts inside panel providing support to front mounting panel

Seismic Walkdown Checklist (SWC)

Status: N U

Equipment ID No. VS-AC-1A-BLOWER Equip. Class 10. Air Handlers

Equipment Description Control Room Air Handling Unit Supply

Location: Bldg. SRVB Floor El. 713

Manufacturer, Model, Etc. _____

Instructions for Completing Checklist

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

Anchorage

- | | | | |
|---|---|--|--|
| Y | N | | |
| X | X | | |
1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?
Blower located on top of steel platform mounted on vibration isolator with adequate lateral/vertical restraint. Platform is top braced to surrounding 3 walls.
- | | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| X | | | |
2. Is the anchorage free of bent, broken, missing or loose hardware?
- | | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| X | | | |
3. Is the anchorage free of corrosion that is more than mild surface oxidation?
- | | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| X | | | |
4. Is the anchorage free of visible cracks in the concrete near the anchors?
- | | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| X | | | |
5. Is the anchorage configuration consistent with plant documentation?
(Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)
- | | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| | | | X |
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?
- | | | |
|---|---|---|
| Y | N | U |
| X | | |

Seismic Walkdown Checklist (SWC)

Status: Y N U

Equipment ID No. VS-AC-1A-BLOWER Equip. Class 10. Air Handlers

Equipment Description Control Room Air Handling Unit Supply

Interaction Effects

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

| Y | N | U | N/A |
|---|---|---|-----|
| X | | | |

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

| Y | N | U | N/A |
|---|---|---|-----|
| X | | | |

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

| Y | N | U | N/A |
|---|---|---|-----|
| X | | | |

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

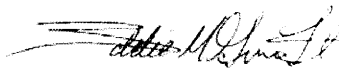
| Y | N | U |
|---|---|---|
| X | | |

Other Adverse Conditions

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

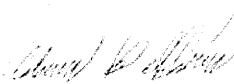
| Y | N | U |
|---|---|---|
| X | | |

Comments (Additional pages may be added as necessary)



Evaluated by: Eddie M. Guerra

Date: 10/1/2012



Adam L. Helffrich

Date: 10/1/2012

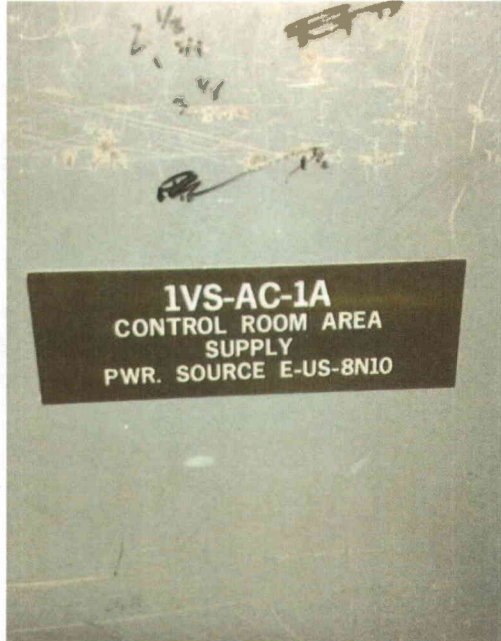
Seismic Walkdown Checklist (SWC)

Status: N U

Equipment ID No. VS-AC-1A-BLOWER Equip. Class 10. Air Handlers

Equipment Description Control Room Air Handling Unit Supply

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



File Name: 2-61-1-1-06.jpeg
Description: Component Plate ID



File Name: 2-62-1-1-06.jpeg
Description: General view of component

Seismic Walkdown Checklist (SWC)

Status: N U

Equipment ID No. VS-AC-1A-BLOWER Equip. Class 10. Air Handlers

Equipment Description Control Room Air Handling Unit Supply



File Name: 2-63-1-1-06.jpeg

Description: View of beam mounting detail

Seismic Walkdown Checklist (SWC)

Status: Y N U

Equipment ID No. VS-D-22-2C Equip. Class 0. Other

Equipment Description Diesel Generator BLDG. O.A. Intake Damper

Location: Bldg. DGBX Floor El. 735

Manufacturer, Model, Etc. _____

Instructions for Completing Checklist

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

Anchorage

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

| | |
|---|---|
| Y | N |
| | X |

Damper actuator rigidly supported off the wall and top of the door frame. Damper framing anchored to perimeter walls with 14-1/2" diam anchor bolts. Linkage between operator and damper is unobstructed and there is no potential interaction issues.

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

| | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| | | | X |

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

| | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| | | | X |

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

| | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| | | | X |

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

| | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| | | | X |

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

| | | |
|---|---|---|
| Y | N | U |
| X | | |

Seismic Walkdown Checklist (SWC)

Status: Y N U

Equipment ID No. VS-D-22-2C Equip. Class 0. Other

Equipment Description Diesel Generator BLDG. O.A. Intake Damper

Interaction Effects

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

| Y | N | U | N/A |
|---|---|---|-----|
| X | | | |

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

| Y | N | U | N/A |
|---|---|---|-----|
| X | | | |

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

Attached lines have adequate flexibility.

| Y | N | U | N/A |
|---|---|---|-----|
| X | | | |

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

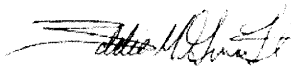
| Y | N | U |
|---|---|---|
| X | | |

Other Adverse Conditions


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

| Y | N | U |
|---|---|---|
| X | | |

Comments (Additional pages may be added as necessary)



Evaluated by: Eddie M. Guerra Date: 10/1/2012



Adam L. Helffrich Date: 10/1/2012

Seismic Walkdown Checklist (SWC)

Status: Y N U

Equipment ID No. VS-D-22-2C Equip. Class 0. Other

Equipment Description Diesel Generator BLDG. O.A. Intake Damper

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



File Name: 2-61-1-1-21.jpeg
Description: Component Plate ID



File Name: 2-62-1-1-21.jpeg
Description: General view of component

Seismic Walkdown Checklist (SWC)

Status: Y N U

Equipment ID No. VS-D-57A1 Equip. Class 7. Pneumatic-Operated Valve

Equipment Description A-Cubicle Supply Damper

Location: Bldg. INTS Floor El. 705

Manufacturer, Model, Etc. _____

Instructions for Completing Checklist

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

Anchorage

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

| | |
|---|---|
| Y | N |
| | X |

Damper well supported from ceiling and wall. Operator attached to strut channels with 4-1/4" diam machine bolts. Channels connected to concrete with 4-1/4" diam anchor bolts. Linkage has no obstruction and no interaction in the vicinity.

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

| | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| | | | X |

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

| | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| | | | X |

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

| | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| | | | X |

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

| | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| | | | X |

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

| | | |
|---|---|---|
| Y | N | U |
| X | | |

Seismic Walkdown Checklist (SWC)

Status: Y N U

Equipment ID No. VS-D-57A1 Equip. Class 7. Pneumatic-Operated Valve

Equipment Description A-Cubicle Supply Damper

Interaction Effects

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

| | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| X | | | |

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

| | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| X | | | |

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

| | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| X | | | |

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

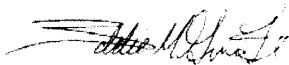
| | | |
|---|---|---|
| Y | N | U |
| X | | |

Other Adverse Conditions

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

| | | |
|---|---|---|
| Y | N | U |
| X | | |

Comments (Additional pages may be added as necessary)



Evaluated by: Eddie M. Guerra Date: 10/1/2012



Adam L. Helffrich Date: 10/1/2012

Seismic Walkdown Checklist (SWC)

Status: Y N U

Equipment ID No. VS-D-57B1 Equip. Class 7. Pneumatic-Operated Valve

Equipment Description B-Cubicle Supply Damper

Location: Bldg. INTS Floor El. 705

Manufacturer, Model, Etc. _____

Instructions for Completing Checklist

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

Anchorage

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

| | |
|---|---|
| Y | N |
| | X |

Damper well supported from ceiling and wall. Operator attached to strut channels with 4-1/4" diam machine bolts. Channels connected to concrete with 4-1/4" diam anchor bolts. Linkage has no obstruction and no interaction in the vicinity.

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

| | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| | | | X |

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

| | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| | | | X |

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

| | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| | | | X |

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

| | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| | | | X |

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

| | | |
|---|---|---|
| Y | N | U |
| X | | |

Seismic Walkdown Checklist (SWC)

Status: Y N U

Equipment ID No. VS-D-57B1 Equip. Class 7. Pneumatic-Operated Valve

Equipment Description B-Cubicle Supply Damper

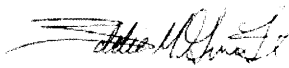
Interaction Effects

- | | Y | N | U | N/A |
|---|---|---|---|-----|
| 7. Are soft targets free from impact by nearby equipment or structures? | X | | | |
| 8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? | X | | | |
| 9. Do attached lines have adequate flexibility to avoid damage? | X | | | |
| 10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? | X | | | |


Other Adverse Conditions

- | | Y | N | U |
|--|---|---|---|
| 11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? | X | | |

Comments (Additional pages may be added as necessary)



Evaluated by: Eddie M. Guerra Date: 10/1/2012



Adam L. Helffrich Date: 10/1/2012

Seismic Walkdown Checklist (SWC)

Status: N U

Equipment ID No. VS-D-57B1 Equip. Class 7. Pneumatic-Operated Valve

Equipment Description B-Cubicle Supply Damper

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



File Name: 2-61-3-1-28.jpeg
Description: General view of component

Seismic Walkdown Checklist (SWC)

Status: Y N U

Equipment ID No. VS-D-57C1 Equip. Class 7. Pneumatic-Operated Valve

Equipment Description C-Cubicle Supply Damper

Location: Bldg. INTS Floor El. 705

Manufacturer, Model, Etc. _____

Instructions for Completing Checklist

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

Anchorage

- | | | | |
|--|---|---|--|
| | Y | N | |
| | | X | |
1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?
- Damper well supported from ceiling and wall. Operator attached to strut channels with 4-1/4" diam machine bolts. Channels connected to concrete with 4-1/4" diam anchor bolts. Linkage has no obstruction and no interaction in the vicinity.*
- | | | | | |
|--|---|---|---|-----|
| | Y | N | U | N/A |
| | | | | X |
2. Is the anchorage free of bent, broken, missing or loose hardware?
- | | | | | |
|--|---|---|---|-----|
| | Y | N | U | N/A |
| | | | | X |
3. Is the anchorage free of corrosion that is more than mild surface oxidation?
- | | | | | |
|--|---|---|---|-----|
| | Y | N | U | N/A |
| | | | | X |
4. Is the anchorage free of visible cracks in the concrete near the anchors?
- | | | | | |
|--|---|---|---|-----|
| | Y | N | U | N/A |
| | | | | X |
5. Is the anchorage configuration consistent with plant documentation?
(Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)
- | | | | | |
|--|---|---|---|-----|
| | Y | N | U | N/A |
| | | | | X |
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?
- | | | | |
|---|---|---|---|
| | Y | N | U |
| X | | | |

Seismic Walkdown Checklist (SWC)

Status: N U

Equipment ID No. VS-D-57C1 Equip. Class 7. Pneumatic-Operated Valve

Equipment Description C-Cubicle Supply Damper

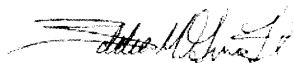
Interaction Effects

- | | Y | N | U | N/A |
|---|---|---|---|-----|
| 7. Are soft targets free from impact by nearby equipment or structures? | X | | | |
| 8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? | X | | | |
| 9. Do attached lines have adequate flexibility to avoid damage? | X | | | |
| 10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? | X | | | |

Other Adverse Conditions

- | | Y | N | U |
|--|---|---|---|
| 11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? | X | | |

Comments (Additional pages may be added as necessary)



Evaluated by: Eddie M. Guerra Date: 10/1/2012



Adam L. Helffrich Date: 10/1/2012

Seismic Walkdown Checklist (SWC)

Status: N U

Equipment ID No. VS-D-57C1 Equip. Class 7. Pneumatic-Operated Valve

Equipment Description C-Cubicle Supply Damper

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



File Name: 2-61-1-1-29.jpeg
Description: General view of component



File Name: 2-63-1-1-29.jpeg
Description: View of angle framing connected to ceiling

Seismic Walkdown Checklist (SWC)

Status: Y N U

Equipment ID No. VS-D-57C1 Equip. Class 7. Pneumatic-Operated Valve

Equipment Description C-Cubicle Supply Damper



File Name: 2-73-1-1-29.jpeg
Description: View of tag ID for related instrumentation panel

Seismic Walkdown Checklist (SWC)

Status: Y N U

Equipment ID No. 1VS-F-55A Equip. Class 9. Fans

Equipment Description Emergency Switchgear Supply Direct Drive

Location: Bldg. SRVB Floor El. 725

Manufacturer, Model, Etc. _____

Instructions for Completing Checklist

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

Anchorage

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

| | |
|---|---|
| Y | N |
| X | |

Fan/Motor assembly mounted on 6 vibration isolators. Isolators anchored with total of 6-1/2" diam anchor bolts. Isolators identified with adequate lateral and vertical restraints. Expansion joint at fan-duct interface has adequate slack and found in good condition.

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

| | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| X | | | |

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

| | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| X | | | |

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

| | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| X | | | |

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

| | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| X | | | |

Fan is similar model as VS-F-55B, therefore anchorage verified per Calculation VS-F-55B calc and 52233-C-009.

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

| | | |
|---|---|---|
| Y | N | U |
| X | | |

Seismic Walkdown Checklist (SWC)

Status: Y N U

Equipment ID No. 1VS-F-55A Equip. Class 9. Fans

Equipment Description Emergency Switchgear Supply Direct Drive

Interaction Effects

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

| | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| X | | | |

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

| | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| X | | | |

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

| | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| X | | | |

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

| | | |
|---|---|---|
| Y | N | U |
| X | | |

Other Adverse Conditions

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

| | | |
|---|---|---|
| Y | N | U |
| X | | |

Comments (Additional pages may be added as necessary)



Evaluated by: Eddie M. Guerra Date: 10/1/2012



Adam L. Helffrich Date: 10/1/2012

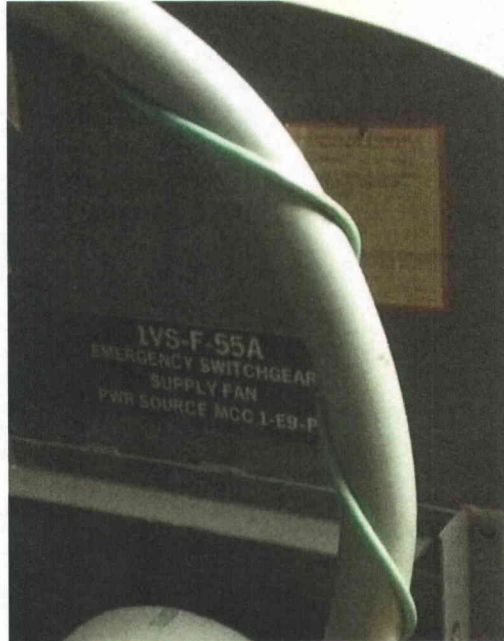
Seismic Walkdown Checklist (SWC)

Status: N U

Equipment ID No. 1VS-F-55A Equip. Class 9. Fans

Equipment Description Emergency Switchgear Supply Direct Drive

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



File Name: 2-61-1-1-56.jpeg
Description: Component Plate ID



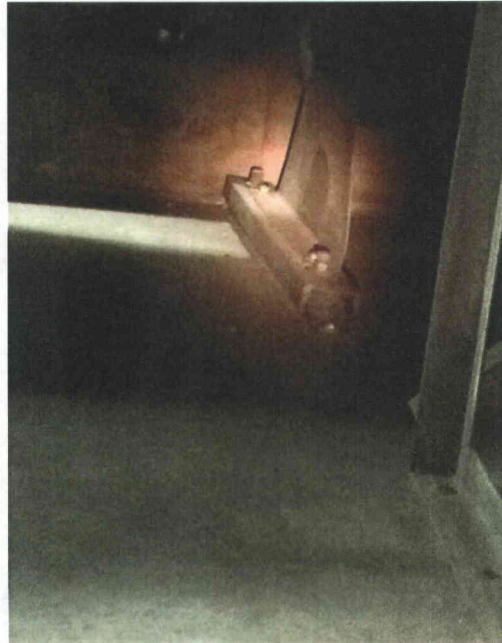
File Name: 2-62-1-1-56.jpeg
Description: General view of component

Seismic Walkdown Checklist (SWC)

Status: Y N U

Equipment ID No. 1VS-F-55A Equip. Class 9. Fans

Equipment Description Emergency Switchgear Supply Direct Drive



File Name: 2-63-1-1-56.jpeg
Description: View of anchorage configuration

Seismic Walkdown Checklist (SWC)

Status: Y N U

Equipment ID No. VS-F-57B Equip. Class 9. Fans

Equipment Description B-Cubicle Ventilation Fan

Location: Bldg. INTS Floor El. 705

Manufacturer, Model, Etc. _____

Instructions for Completing Checklist

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

Anchorage

- | | |
|---|---|
| Y | N |
| X | |
1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?
- Wall mounted to steel channels (brackets) with 4-1/2" diameter machine bolts. Bracket to wall anchored with 6-1/2" diam anchor bolts. Expansion joint at fan found in good condition.*
- | | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| X | | | |
2. Is the anchorage free of bent, broken, missing or loose hardware?
- | | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| X | | | |
3. Is the anchorage free of corrosion that is more than mild surface oxidation?
- | | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| X | | | |
4. Is the anchorage free of visible cracks in the concrete near the anchors?
- | | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| X | | | |
5. Is the anchorage configuration consistent with plant documentation?
(Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)
- Anchorage configuration confirmed with calculation 52233-C-010.*
- | | | |
|---|---|---|
| Y | N | U |
| X | | |
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?

Seismic Walkdown Checklist (SWC)

Status: Y N U

Equipment ID No. VS-F-57B Equip. Class 9. Fans

Equipment Description B-Cubicle Ventilation Fan

Interaction Effects

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

| | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| X | | | |

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

| | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| X | | | |

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

| | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| X | | | |

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

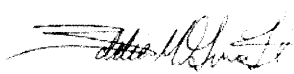
| | | |
|---|---|---|
| Y | N | U |
| X | | |

Other Adverse Conditions

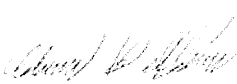
11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment?

| | | |
|---|---|---|
| Y | N | U |
| X | | |

Comments (Additional pages may be added as necessary)



Evaluated by: Eddie M. Guerra Date: 10/1/2012



Adam L. Helffrich Date: 10/1/2012

Seismic Walkdown Checklist (SWC)

Status: Ⓢ N U

Equipment ID No. VS-F-57B Equip. Class 9. Fans

Equipment Description B-Cubicle Ventilation Fan

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



File Name: 2-61-4-1-28.jpeg
Description: Component Plate ID



File Name: 2-62-4-1-28.jpeg
Description: General view of component

Seismic Walkdown Checklist (SWC)

Status: N U

Equipment ID No. VS-F-57B Equip. Class 9. Fans

Equipment Description B-Cubicle Ventilation Fan



File Name: 2-63-4-1-28.jpeg
Description: View of tag ID for related instrumentation panel

Seismic Walkdown Checklist (SWC)

Status: N U

Equipment ID No. WR-P-1A Equip. Class 6. Vertical Pump

Equipment Description River Plant Water Pump

Location: Bldg. INTS Floor El. 705

Manufacturer, Model, Etc. _____

Instructions for Completing Checklist

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

Anchorage

- | | |
|---|---|
| Y | N |
| X | |
1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?
- Pump to base plate anchored with 8-3/4" diam anchors. Base plate connected to concrete with 8-1.25" diam anchors.*
- | | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| X | | | |
2. Is the anchorage free of bent, broken, missing or loose hardware?
- | | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| X | | | |
3. Is the anchorage free of corrosion that is more than mild surface oxidation?
- Mild surface oxidation identified but judged to be acceptable.*
- | | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| X | | | |
4. Is the anchorage free of visible cracks in the concrete near the anchors?
- | | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| X | | | |
5. Is the anchorage configuration consistent with plant documentation?
(Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)
- Size and number of anchor bolts verified against drawing 2C-5011 (See also calculation 52233-C-008)*
- | | | |
|---|---|---|
| Y | N | U |
| X | | |
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?

Seismic Walkdown Checklist (SWC)

Status: N U

Equipment ID No. WR-P-1A Equip. Class 6. Vertical Pump

Equipment Description River Plant Water Pump

Interaction Effects

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

| | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| X | | | |

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

| | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| X | | | |

9. Do attached lines have adequate flexibility to avoid damage?
Nozzle close to pump found to be well supported.

| | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| X | | | |

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

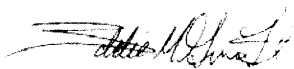
| | | |
|---|---|---|
| Y | N | U |
| X | | |

Other Adverse Conditions

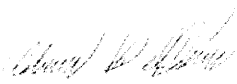
11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment?

| | | |
|---|---|---|
| Y | N | U |
| X | | |

Comments (Additional pages may be added as necessary)



Evaluated by: Eddie M. Guerra Date: 10/1/2012



Adam L. Helffrich Date: 10/1/2012

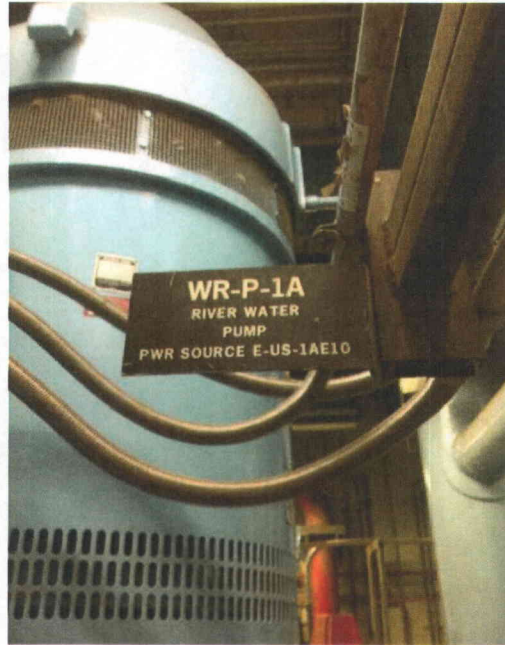
Seismic Walkdown Checklist (SWC)

Status: N U

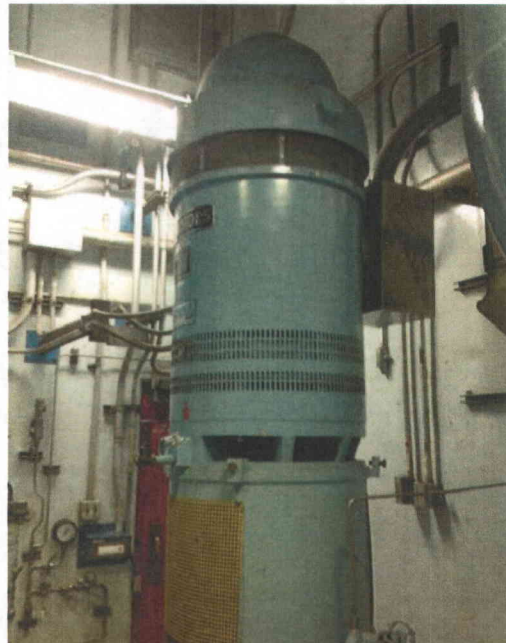
Equipment ID No. WR-P-1A Equip. Class 6. Vertical Pump

Equipment Description River Plant Water Pump

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



File Name: 2-61-3-1-27.jpeg
Description: Component Plate ID



File Name: 2-62-3-1-27.jpeg
Description: General view of component

Seismic Walkdown Checklist (SWC)

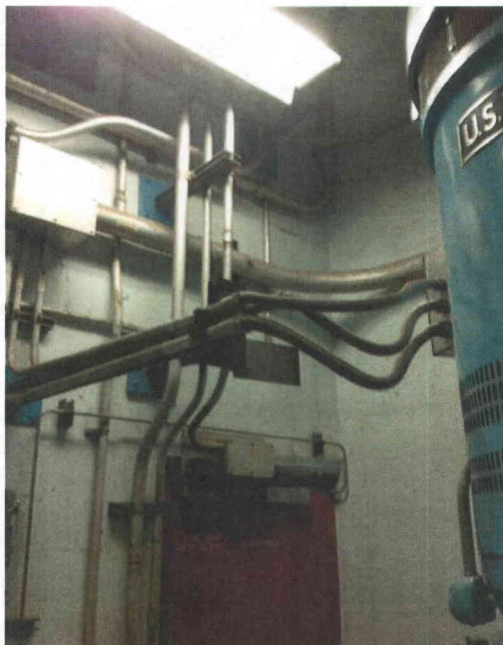
Status: Y N U

Equipment ID No. WR-P-1A Equip. Class 6. Vertical Pump

Equipment Description River Plant Water Pump



File Name: 2-63-3-1-27.jpeg
Description: View of anchorage configuration



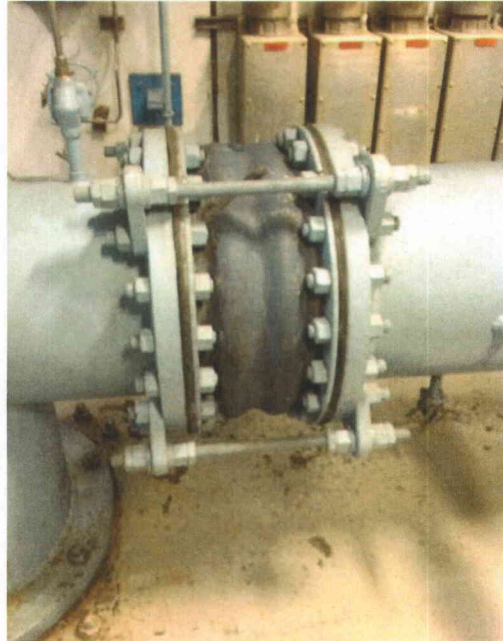
File Name: 2-64-3-1-27.jpeg
Description: View of flexible attached lines

Seismic Walkdown Checklist (SWC)

Status: Y N U

Equipment ID No. WR-P-1A Equip. Class 6. Vertical Pump

Equipment Description River Plant Water Pump



File Name: 2-73-3-1-27.jpeg
Description: View of expansion joint located in pump main line

Seismic Walkdown Checklist (SWC)

Status: Y N U

Equipment ID No. WR-P-1B Equip. Class 6. Vertical Pump

Equipment Description River Plant Water Pump

Location: Bldg. INTS Floor El. 705

Manufacturer, Model, Etc. _____

Instructions for Completing Checklist

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

Anchorage

- | | | | | | | | | | |
|---|--|---|-----|---|-----|---|--|--|--|
| <p>1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?</p> <p><i>Pump to base plate anchored with 8-3/4" diam anchors. Base plate connected to concrete with 8-1.25" diam anchors.</i></p> | <table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <td style="padding: 2px;">Y</td> <td style="padding: 2px;">N</td> </tr> <tr> <td style="padding: 2px; text-align: center;">X</td> <td style="padding: 2px; width: 40px;"></td> </tr> </table> | Y | N | X | | | | | |
| Y | N | | | | | | | | |
| X | | | | | | | | | |
| <p>2. Is the anchorage free of bent, broken, missing or loose hardware?</p> | <table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <td style="padding: 2px;">Y</td> <td style="padding: 2px;">N</td> <td style="padding: 2px;">U</td> <td style="padding: 2px;">N/A</td> </tr> <tr> <td style="padding: 2px; text-align: center;">X</td> <td style="padding: 2px; width: 40px;"></td> <td style="padding: 2px; width: 40px;"></td> <td style="padding: 2px; width: 40px;"></td> </tr> </table> | Y | N | U | N/A | X | | | |
| Y | N | U | N/A | | | | | | |
| X | | | | | | | | | |
| <p>3. Is the anchorage free of corrosion that is more than mild surface oxidation?</p> <p><i>Mild surface oxidation identified but judged to be acceptable.</i></p> | <table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <td style="padding: 2px;">Y</td> <td style="padding: 2px;">N</td> <td style="padding: 2px;">U</td> <td style="padding: 2px;">N/A</td> </tr> <tr> <td style="padding: 2px; text-align: center;">X</td> <td style="padding: 2px; width: 40px;"></td> <td style="padding: 2px; width: 40px;"></td> <td style="padding: 2px; width: 40px;"></td> </tr> </table> | Y | N | U | N/A | X | | | |
| Y | N | U | N/A | | | | | | |
| X | | | | | | | | | |
| <p>4. Is the anchorage free of visible cracks in the concrete near the anchors?</p> | <table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <td style="padding: 2px;">Y</td> <td style="padding: 2px;">N</td> <td style="padding: 2px;">U</td> <td style="padding: 2px;">N/A</td> </tr> <tr> <td style="padding: 2px; text-align: center;">X</td> <td style="padding: 2px; width: 40px;"></td> <td style="padding: 2px; width: 40px;"></td> <td style="padding: 2px; width: 40px;"></td> </tr> </table> | Y | N | U | N/A | X | | | |
| Y | N | U | N/A | | | | | | |
| X | | | | | | | | | |
| <p>5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)</p> <p><i>Size and number of anchor bolts verified against drawing 2C-5011 (See also calculation 52233-C-008)</i></p> | <table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <td style="padding: 2px;">Y</td> <td style="padding: 2px;">N</td> <td style="padding: 2px;">U</td> <td style="padding: 2px;">N/A</td> </tr> <tr> <td style="padding: 2px; text-align: center;">X</td> <td style="padding: 2px; width: 40px;"></td> <td style="padding: 2px; width: 40px;"></td> <td style="padding: 2px; width: 40px;"></td> </tr> </table> | Y | N | U | N/A | X | | | |
| Y | N | U | N/A | | | | | | |
| X | | | | | | | | | |
| <p>6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?</p> | <table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <td style="padding: 2px;">Y</td> <td style="padding: 2px;">N</td> <td style="padding: 2px;">U</td> </tr> <tr> <td style="padding: 2px; text-align: center;">X</td> <td style="padding: 2px; width: 40px;"></td> <td style="padding: 2px; width: 40px;"></td> </tr> </table> | Y | N | U | X | | | | |
| Y | N | U | | | | | | | |
| X | | | | | | | | | |

Seismic Walkdown Checklist (SWC)

Status: Y N U

Equipment ID No. WR-P-1B Equip. Class 6. Vertical Pump

Equipment Description River Plant Water Pump

Interaction Effects

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

| | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| X | | | |

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

| | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| X | | | |

9. Do attached lines have adequate flexibility to avoid damage?
Nozzle close to pump found to be well supported.

| | | | |
|---|---|---|-----|
| Y | N | U | N/A |
| X | | | |

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


| | | |
|---|---|---|
| Y | N | U |
| X | | |

Other Adverse Conditions


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

| | | |
|---|---|---|
| Y | N | U |
| X | | |

Comments (Additional pages may be added as necessary)



Evaluated by: Eddie M. Guerra Date: 10/1/2012



Adam L. Helffrich Date: 10/1/2012

Seismic Walkdown Checklist (SWC)

Status: N U

Equipment ID No. WR-P-1B Equip. Class 6. Vertical Pump

Equipment Description River Plant Water Pump

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



File Name: 2-61-2-1-28.jpeg
Description: Component Plate ID



File Name: 2-62-2-1-28.jpeg
Description: General view of component

Seismic Walkdown Checklist (SWC)

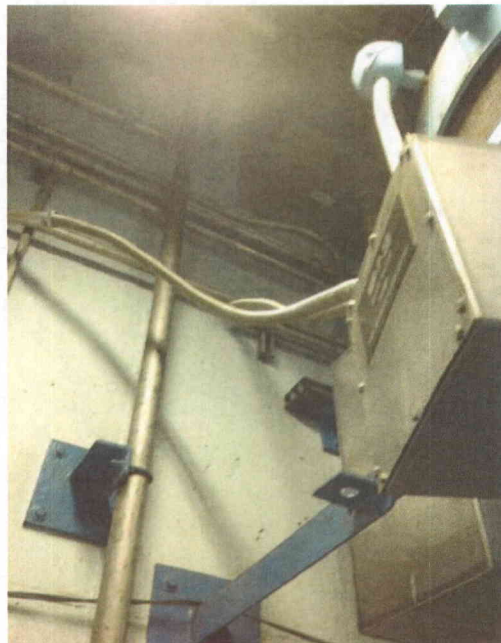
Status: N U

Equipment ID No. WR-P-1B Equip. Class 6. Vertical Pump

Equipment Description River Plant Water Pump



File Name: 2-63-2-1-28.jpeg
Description: View of anchorage configuration



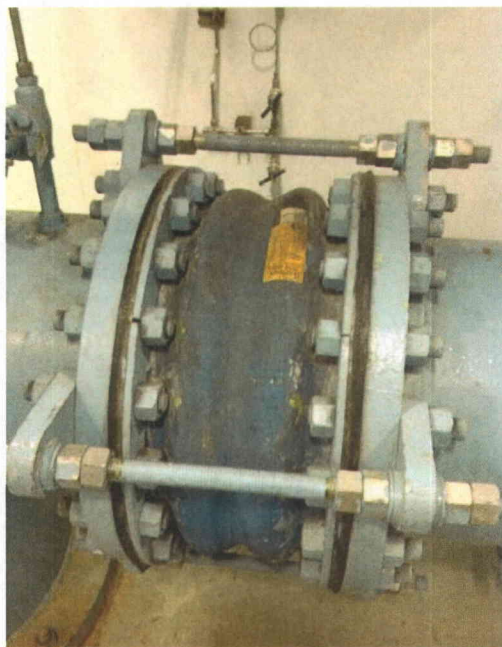
File Name: 2-64-2-1-28.jpeg
Description: View of flexible attached lines

Seismic Walkdown Checklist (SWC)

Status: N U

Equipment ID No. WR-P-1B Equip. Class 6. Vertical Pump

Equipment Description River Plant Water Pump



File Name: 2-73-2-1-28.jpeg
Description: View of expansion joint located in pump main line