

ATTACHMENT 9.6**SEISMIC WALKDOWN CHECKLIST FORM**

Sheet 1 of 4

Status: Y N U **Seismic Walkdown Checklist (SWC) SWEL1-137**Equipment ID No. 10S-5A1 Equip. Class¹ 00-OtherEquipment Description RHRSW Pumps A and C Discharge Strainer Basket 1Location: Bldg. SP Floor El. 255' Room, Area Pump Room Train A, Col. 26,

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

Instructions for Completing Checklist

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

Anchorage

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y N
The evaluated item in this SWC is not part of the 50% of the SWEL items requiring anchorage configuration verification.
2. Is the anchorage free of bent, broken, missing or loose hardware? Y N U N/A
The one (1) anchor is free of bent, broken, missing or loose hardware.
3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y N U N/A
Anchorage is free of corrosion that is more than mild surface oxidation.
4. Is the anchorage free of visible cracks in the concrete near the anchors? Y N U N/A
There are no visible cracks in the concrete near the anchors.

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

ATTACHMENT 9.6**SEISMIC WALKDOWN CHECKLIST FORM**

Sheet 2 of 4

Status: Y N U **Seismic Walkdown Checklist (SWC) SWEL1-137**Equipment ID No. 10S-5A1 Equip. Class 00-OtherEquipment Description RHRSW Pumps A and C Discharge Strainer Basket 1

5. Is the anchorage configuration consistent with plant documentation? Y N U N/A
 (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)
Item is not one of the 50% for which an anchorage configuration verification is required.
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y N U
Based on the above anchorage evaluations, the anchorage is free of potentially adverse seismic conditions.

Interaction Effects

7. Are soft targets free from impact by nearby equipment or structures? Y N U N/A
There are no soft targets on the equipment.
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y N U N/A
*There is a masonry block wall near the equipment; however, the wall was evaluated under IPEEE effort to reinforce the block walls.
 (Ref Section 3.1.4.6, page 3-57 JAF-RPT-MISC-02211)*
9. Do attached lines have adequate flexibility to avoid damage? Y N U N/A
The lines attached to the SWEL item have adequate flexibility to avoid damage.
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y N U
Based on the above seismic interaction evaluations, the equipment is free of potentially adverse seismic interaction effects.

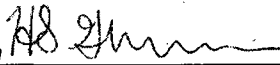
ATTACHMENT 9.6**SEISMIC WALKDOWN CHECKLIST FORM**

Sheet 3 of 4

Status: Y N U **Seismic Walkdown Checklist (SWC) SWEL1-137**Equipment ID No. 10S-5A1 Equip. Class 00-OtherEquipment Description RHRSW Pumps A and C Discharge Strainer Basket 1

Other Adverse Conditions11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? Y N U *No other seismic conditions that could adversely affect the safety functions of the equipment in the area were found.*

Comments (Additional pages may be added as necessary)*No additional comments.*

Evaluated by: Harpreet Ghuman  Date: 09/21/2012Yaroslav Losev  09/21/2012

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

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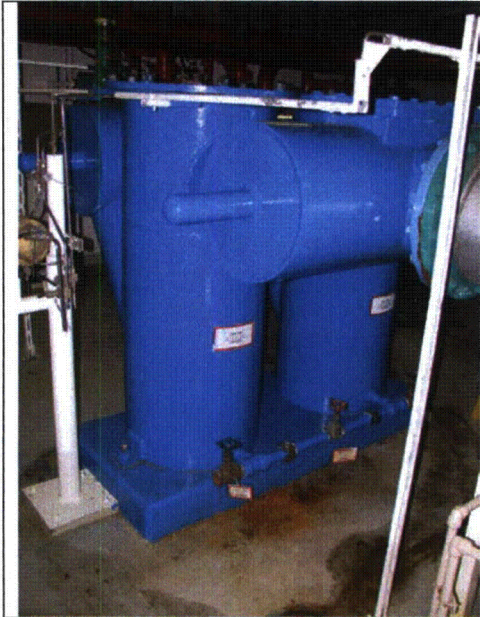
Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-137

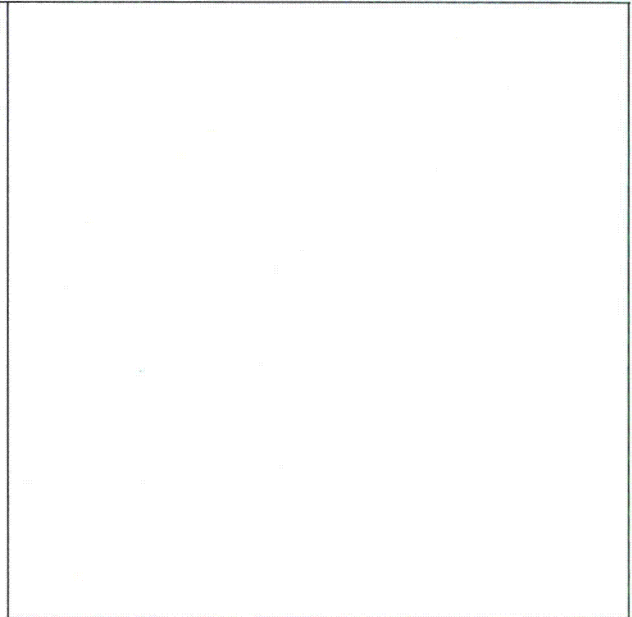
Equipment ID No. 10S-5A1 Equip. Class 00-Other

Equipment Description RHRSW Pumps A and C Discharge Strainer Basket 1

Photographs



Note: *Picture of equipment 10S-5A1.*



Note:

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 1 of 4

Status: Y N U Seismic Walkdown Checklist (SWC) SWEL1-155Equipment ID No. 11EV-14A Equip. Class¹ 00-OtherEquipment Description SLC A Double SQUIB Activated Shear Explosive ValveLocation: Bldg. RB Floor El. 326' Room, Area RB NW, Col. 6, Line R

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

Instructions for Completing Checklist

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

Anchorage

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y N
The evaluated item in this SWC is not part of the 50% of the SWEL items requiring anchorage configuration verification.
2. Is the anchorage free of bent, broken, missing or loose hardware? Y N U N/A
Inline SWEL item, which does not contain anchorage.
3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y N U N/A
Inline SWEL item, which does not contain anchorage.
4. Is the anchorage free of visible cracks in the concrete near the anchors? Y N U N/A
Inline SWEL item, which does not contain anchorage.

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

ATTACHMENT 9.6**SEISMIC WALKDOWN CHECKLIST FORM**

Sheet 2 of 4

Status: Y N U **Seismic Walkdown Checklist (SWC) SWEL1-155**Equipment ID No. 11EV-14A Equip. Class 00-OtherEquipment Description SLC A Double SQUIB Activated Shear Explosive Valve

5. Is the anchorage configuration consistent with plant documentation?
(Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)
Inline SWEL item, which does not contain anchorage. Y N U N/A
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?
Inline SWEL item, which does not contain anchorage. Y N U

Interaction Effects

7. Are soft targets free from impact by nearby equipment or structures?
There are no soft targets on the equipment. Y N U N/A
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?
The overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls are not likely to collapse onto the equipment. Y N U N/A
9. Do attached lines have adequate flexibility to avoid damage?
The lines attached to the SWEL item have adequate flexibility to avoid damage. Y N U N/A
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?
Based on the above seismic interaction evaluations, the equipment is free of potentially adverse seismic interaction effects. Y N U

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 3 of 4

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-155

Equipment ID No. 11EV-14A Equip. Class 00-Other


Equipment Description SLC A Double SQUIB Activated Shear Explosive Valve

Other Adverse Conditions

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

Comments (Additional pages may be added as necessary)

No additional comments.

Evaluated by: Harpreet Ghuman 

Date: 09/25/2012

Yaroslav Losev 

09/25/2012

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

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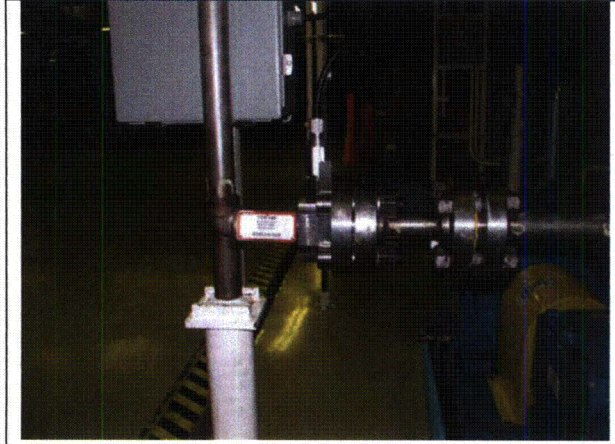
Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-155

Equipment ID No. 11EV-14A Equip. Class 00-Other

Equipment Description SLC A Double SQUIB Activated Shear Explosive Valve

Photographs



Note: *Picture of equipment 11EV-14A.*

Note:

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 1 of 5

Status: Y N U Seismic Walkdown Checklist (SWC) SWEL1-157Equipment ID No. 11P-2A Equip. Class: 05- Horizontal PumpsEquipment Description Standby Liquid Control A PumpLocation: Bldg. RB Floor El. 326' Room, Area RB NW, Col. 6, Line P

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

Instructions for Completing Checklist

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

Anchorage

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

2. Is the anchorage free of bent, broken, missing or loose hardware? Y N U N/A
The anchorage for the pump is free of bent, broken or loose hardware; however, this is not the governing component for possible anchorage failure. The six (6), 3/4" CIP bolts attaching the skid to the concrete footing is the governing anchorage for potential failure based on the SEWS evaluation and has been determined to be free of bent, broken, missing or loose hardware. There are two bolts utilized for guiding the motor into place onto the skid, these two bolts were never removed and have loose nuts. However, this is not an issue since these bolts are not utilized to provide anchorage capacity for the equipment. This is more of a housekeeping issue; it is recommended to remove the nuts to stay consistent with plant documentation. This is not an adverse seismic condition.

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

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

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

ATTACHMENT 9.6**SEISMIC WALKDOWN CHECKLIST FORM**

Sheet 2 of 5

Status: Y N U **Seismic Walkdown Checklist (SWC) SWEL1-157**Equipment ID No. 11P-2A Equip. Class 05- Horizontal PumpsEquipment Description Standby Liquid Control A Pump

5. Is the anchorage configuration consistent with plant documentation?
(Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)
The configuration for the 3/4" CIP anchors are in accordance with the SEWS documentation. Y N U N/A
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?
Based on the above anchorage evaluations, the anchorage is free of potentially adverse seismic conditions. Y N U

Interaction Effects

7. Are soft targets free from impact by nearby equipment or structures?
There are no soft targets on the equipment. Y N U N/A
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?
The overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls are not likely to collapse onto the equipment. Y N U N/A
9. Do attached lines have adequate flexibility to avoid damage?
The lines attached to the SWEL item have adequate flexibility to avoid damage. Y N U N/A
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?
Based on the above seismic interaction evaluations, the equipment is free of potentially adverse seismic interaction effects. Y N U

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 3 of 5

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-157

Equipment ID No. 11P-2A Equip. Class 05- Horizontal Pumps

Equipment Description Standby Liquid Control A Pump

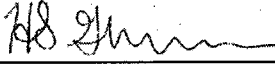
Other Adverse Conditions

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

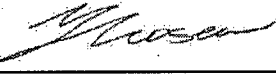
No other seismic conditions that could adversely affect the safety functions of the equipment in the area were found.

Comments (Additional pages may be added as necessary)

No additional comments.

Evaluated by: Harpreet Ghuman 

Date: 09/25/2012

Yaroslav Losev 

09/25/2012

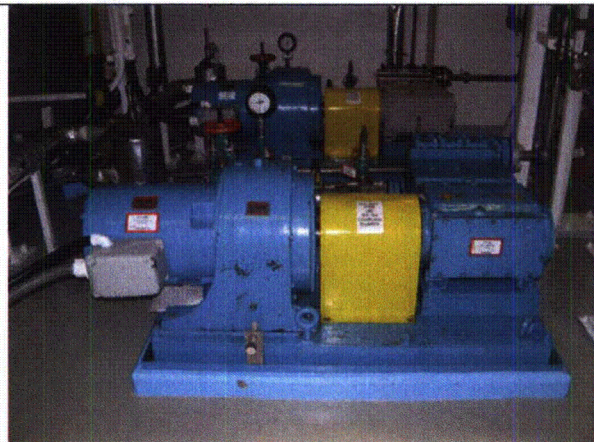
ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

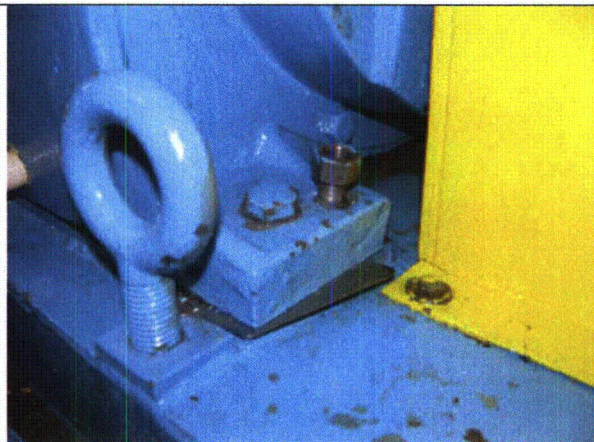
Sheet 4 of 5

Status: Y N U Seismic Walkdown Checklist (SWC) SWEL1-157Equipment ID No. 11P-2A Equip. Class 05- Horizontal PumpsEquipment Description Standby Liquid Control A Pump

Photographs



Note: Picture of equipment 11P-2A.



Note: Picture showing one of the two loose nuts on the guidance bolts for mounting the motor to the skid.

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 5 of 5

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-157

Equipment ID No. 11P-2A Equip. Class 05- Horizontal Pumps

Equipment Description Standby Liquid Control A Pump



Note: *Picture showing the loose nut on the other guidance bolt for mounting the motor to the skid.*

Note:

ATTACHMENT 9.6**SEISMIC WALKDOWN CHECKLIST FORM**

Sheet 1 of 4

Status: Y N U **Seismic Walkdown Checklist (SWC) SWEL1-161**Equipment ID No. 11TK-1 Equip. Class¹ 21-Tanks and Heat ExchangersEquipment Description Standby Liquid Control TankLocation: Bldg. RB Floor El. 326' Room, Area RB NW, Col. 6, Line P

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

Instructions for Completing Checklist

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

Anchorage

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y N
The item is one of the 50% of SWEL items requiring anchorage configuration verification.
2. Is the anchorage free of bent, broken, missing or loose hardware? Y N U N/A
The twelve (12), 1" CIP bolts are free of bent, broken missing or loose hardware.
3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y N U N/A
Anchorage is free of corrosion that is more than mild surface oxidation.
4. Is the anchorage free of visible cracks in the concrete near the anchors? Y N U N/A
Concrete is free of visible cracks near any of the anchors.

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

ATTACHMENT 9.6**SEISMIC WALKDOWN CHECKLIST FORM**

Sheet 2 of 4

Status: Y N U **Seismic Walkdown Checklist (SWC) SWEL1-161**Equipment ID No. 11TK-1 Equip. Class 21-Tanks and Heat ExchangersEquipment Description Standby Liquid Control Tank

5. Is the anchorage configuration consistent with plant documentation? Y N U N/A
 (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)
The configuration for the 1" CIP anchors is in accordance with the SEWS documentation.
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y N U
Based on the above anchorage evaluations, the anchorage is free of potentially adverse seismic conditions.

Interaction Effects

7. Are soft targets free from impact by nearby equipment or structures? Y N U N/A
The SLC temperature element sensor wire (Equipment 11TE-49) is located near an unanchored Unistrut support. The unanchored Unistrut support can slip from the base and potentially damage the sensor wire during a seismic event; however, this is not considered as a seismic adverse interaction. The unanchored Unistrut support will not damage the tank.
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y N U N/A
The overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls are not likely to collapse onto the equipment.
9. Do attached lines have adequate flexibility to avoid damage? Y N U N/A
The lines attached to the SWEL item have adequate flexibility to avoid damage.
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y N U
Based on the above seismic interaction evaluations, the equipment is free of potentially adverse seismic interaction effects.

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 3 of 4

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-161

Equipment ID No. 11TK-1 Equip. Class 21-Tanks and Heat Exchangers

Equipment Description Standby Liquid Control Tank

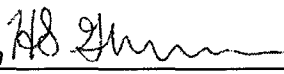
Other Adverse Conditions

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

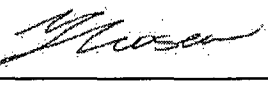
No other seismic conditions that could adversely affect the safety functions of the equipment in the area were found.

Comments (Additional pages may be added as necessary)

Due to uneven surface on the concrete footing there is a gap between the anchor plate and the concrete footing. Gaps on the ends of the anchor base plate are close to 0.5". Gaps between the anchor base plate and the concrete footing at the anchor locations is less than a 1/4" which by engineering judgment is not large enough to cause a significant moment on the bolts.

Evaluated by: Harpreet Ghuman 

Date: 09/25/2012

Yaroslav Losev 

09/25/2012

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 4 of 4

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-161

Equipment ID No. 11TK-1 Equip. Class 21-Tanks and Heat Exchangers

Equipment Description Standby Liquid Control Tank

Photographs



Note: Picture of equipment 11TK-1.



Note: Picture showing the element sensor wire (equipment 11TE-49) near the unsupported Unistrut support.

ATTACHMENT 9.6**SEISMIC WALKDOWN CHECKLIST FORM**

Sheet 1 of 5

Status: Y N U **Seismic Walkdown Checklist (SWC) SWEL1-164**Equipment ID No. 13MOV-15 Equip. Class motor-operated and solenoid-operated valvesEquipment Description RCIC Steam Supply Inbd Isol ValveLocation: Bldg. PC Floor El. 291 Room, Area Drywell, Azimuth 335°, Col4 Line R

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

Instructions for Completing Checklist

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

Anchorage

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

2. Is the anchorage free of bent, broken, missing or loose hardware? Y N U N/A
The item is an inline valve.

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

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y N U N/A
The item is an inline valve.

ATTACHMENT 9.6**SEISMIC WALKDOWN CHECKLIST FORM**

Sheet 2 of 5

Status: Y N U **Seismic Walkdown Checklist (SWC) SWEL1-164**Equipment ID No. 13MOV-15 Equip. Class motor-operated and solenoid-operated valvesEquipment Description RCIC steam supply inbd isol valve

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

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

Interaction Effects

7. Are soft targets free from impact by nearby equipment or structures? Y N U N/A

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

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

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

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 3 of 5

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-164

Equipment ID No. 13MOV-15 Equip. Class motor-operated and solenoid-operated valves

Equipment Description RCIC steam supply inbd isol valve

Other Adverse Conditions

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

Comments (Additional pages may be added as necessary)

1" conduit running 45° on RPV side of 13MOV-15 is very flexible. However, it will not result in any seismic interaction, nor will it fail in a seismic event.

Evaluated by: Rick Casella

Rick Casella

Date: 9-28-12

Alan Porch

A.C. Porch

9-28-12

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 4 of 5

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-164

Equipment ID No. 13MOV-15 Equip. Class motor-operated and solenoid-operated valves

Equipment Description RCIC steam supply inbd isol valve

Photographs



Note: 13MOV-15



Note: 13MOV-15

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

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Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-164

Equipment ID No. 13MOV-15 Equip. Class motor-operated and solenoid-operated valves

Equipment Description RCIC steam supply inbd isol valve



Note: 13MOV-15



Note: 1" dia. conduit

ATTACHMENT 9.6**SEISMIC WALKDOWN CHECKLIST FORM**

Sheet 1 of 4

Status: Y N U **Seismic Walkdown Checklist (SWC) SWEL1-165**Equipment ID No. 13MOV-16 Equip. Class¹ 08-Motor Operated ValvesEquipment Description RCIC Turbine Steam Supply Outbd Isolation ValveLocation: Bldg. RB Floor El. 272' Room, Area RB South, Col. 3, Line R

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

Instructions for Completing Checklist

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

Anchorage

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y N
The evaluated item in this SWC is not part of the 50% of the SWEL items requiring anchorage configuration verification.
2. Is the anchorage free of bent, broken, missing or loose hardware? Y N U N/A
Inline SWEL item, which does not contain anchorage.
3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y N U N/A
Inline SWEL item, which does not contain anchorage.
4. Is the anchorage free of visible cracks in the concrete near the anchors? Y N U N/A
Inline SWEL item, which does not contain anchorage.

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

ATTACHMENT 9.6**SEISMIC WALKDOWN CHECKLIST FORM**

Sheet 2 of 4

Status: Y N U **Seismic Walkdown Checklist (SWC) SWEL1-165**Equipment ID No. 13MOV-16 Equip. Class 08-Motor Operated ValvesEquipment Description RCIC Turbine Steam Supply Outbd Isolation Valve

5. Is the anchorage configuration consistent with plant documentation?
(Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)
Inline SWEL item, which does not contain anchorage. Y N U N/A
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?
Inline SWEL item, which does not contain anchorage. Y N U

Interaction Effects

7. Are soft targets free from impact by nearby equipment or structures?
There are no soft targets on the equipment. Y N U N/A
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?
The overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls are not likely to collapse onto the equipment. Y N U N/A
9. Do attached lines have adequate flexibility to avoid damage?
The lines attached to the SWEL item have adequate flexibility to avoid damage. Y N U N/A
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?
Based on the above seismic interaction evaluations, the equipment is free of potentially adverse seismic interaction effects. Y N U

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 3 of 4

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-165

Equipment ID No. 13MOV-16 Equip. Class 08-Motor Operated Valves

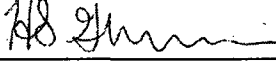
Equipment Description RCIC Turbine Steam Supply Outbd Isolation Valve

Other Adverse Conditions


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

Comments (Additional pages may be added as necessary)

No additional comments.

Evaluated by: Harpreet Ghuman 

Date: 09/26/2012

Yaroslav Losev 

09/26/2012

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 4 of 4

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-165

Equipment ID No. 13MOV-16 Equip. Class 08-Motor Operated Valves

Equipment Description RCIC Turbine Steam Supply Outbd Isolation Valve

Photographs



Note: *Picture of equipment 13MOV-16.*

Note:

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 1 of 5

Status: Y N U Seismic Walkdown Checklist (SWC) SWEL1-166Equipment ID No. 13P-1 Equip. Class: 5 – Horizontal PumpsEquipment Description RCIC Turbine Driven PumpLocation: Bldg. RB Floor El. 227.6 Room, Area Col. 3, Line P

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

Instructions for Completing Checklist

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

Anchorage

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y N
2. Is the anchorage free of bent, broken, missing or loose hardware? Y N U N/A
Anchorage is free of bent, broken, missing or loose hardware.
3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y N U N/A
Anchorage is free of corrosion that is more than mild surface oxidation
4. Is the anchorage free of visible cracks in the concrete near the anchors? Y N U N/A
Anchorage is free of visible cracks in the concrete near the anchors.

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

ATTACHMENT 9.6**SEISMIC WALKDOWN CHECKLIST FORM**

Sheet 2 of 5

Status: Y N U **Seismic Walkdown Checklist (SWC) SWEL1-166**Equipment ID No. 13P-1 Equip. Class 5 – Horizontal PumpsEquipment Description RCIC Turbine Driven Pump

5. Is the anchorage configuration consistent with plant documentation? Y N U N/A
 (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)
The anchorage configuration is consistent with the SEWS for 13P-1, DWG. No. 2.12-3 and Drawing Number 11825-FC-20D, Rev. 7. The pump sits on a concrete pad that is 3'-7" wide x 12' long x 1.5' high concrete pad. The pad is dowelled to into the floor slab with 26 #11 bars (5' long plus a 12" 90 deg. Hook at the top).
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y N U

Interaction Effects

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

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 3 of 5

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-166

Equipment ID No. 13P-1 Equip. Class 5 - Horizontal Pumps


Equipment Description RCIC Turbine Driven Pump

Other Adverse Conditions

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

Comments (Additional pages may be added as necessary)

Evaluated by: Donald Koberg  Date: 9/24/12

Pouria Pourghobadi  9/24/12

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 4 of 5

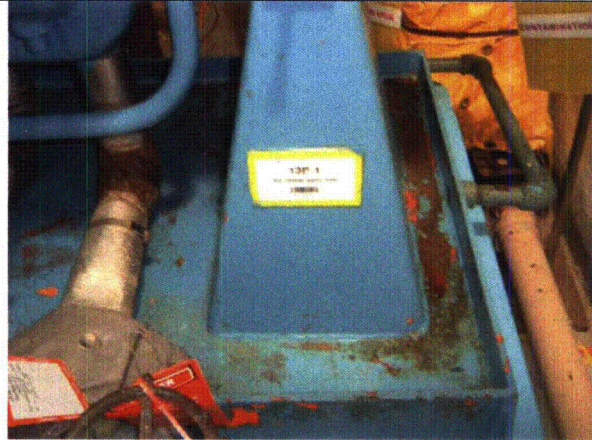
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Seismic Walkdown Checklist (SWC) SWEL1-166

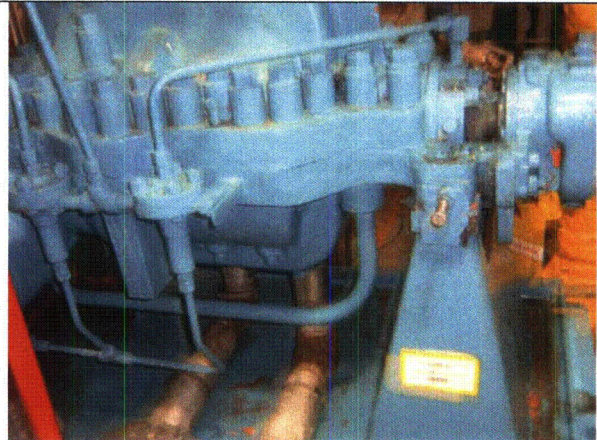
Equipment ID No. 13P-1 Equip. Class 5 – Horizontal Pumps

Equipment Description RCIC Turbine Driven Pump

Photographs



Note: 13P-1 Pump Tag



Note: 13P-1 Pump Side View

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 5 of 5

Status: Y N U

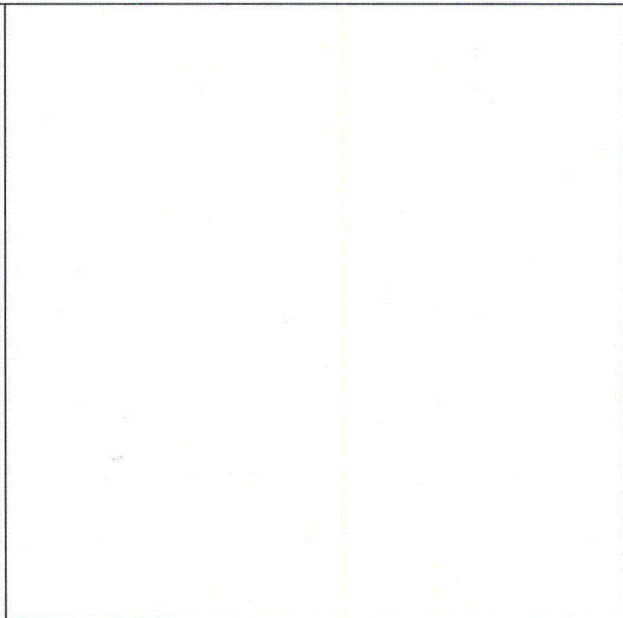
Seismic Walkdown Checklist (SWC) SWEL1-166

Equipment ID No. 13P-1 Equip. Class 5 – Horizontal Pumps

Equipment Description RCIC Turbine Driven Pump



Note: 13P-1 Pump Anchorage.



Note:

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 1 of 4

Status: Y N U Seismic Walkdown Checklist (SWC) SWEL1-169Equipment ID No. 14MOV-12A Equip. Class¹ 8 – Motor-Operated ValvesEquipment Description Core Spray Loop A INBD Isolation ValveLocation: Bldg. RB Floor El. 300 Room, Area Col. 4.5

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

Instructions for Completing Checklist

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

Anchorage

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y N
2. Is the anchorage free of bent, broken, missing or loose hardware? Y N U N/A
The item is an inline valve.
3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y N U N/A
The item is an inline valve.
4. Is the anchorage free of visible cracks in the concrete near the anchors? Y N U N/A
The item is an inline valve.

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

ATTACHMENT 9.6**SEISMIC WALKDOWN CHECKLIST FORM**

Sheet 2 of 4

Status: Y N U **Seismic Walkdown Checklist (SWC) SWEL1-169**Equipment ID No. 14MOV-12A Equip. Class 8 – Motor-Operated ValvesEquipment Description Core Spray Loop A INBD Isolation Valve

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

Interaction Effects

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

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 3 of 4

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-169


Equipment ID No. 14MOV-12A Equip. Class 8 - Motor-Operated Valves


Equipment Description Core Spray Loop A INBD Isolation Valve

Other Adverse Conditions

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

Comments (Additional pages may be added as necessary)

Evaluated by: Donald Koberg  Date: 9/25/12

Pouria Pourghobadi  9/25/12

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 4 of 4

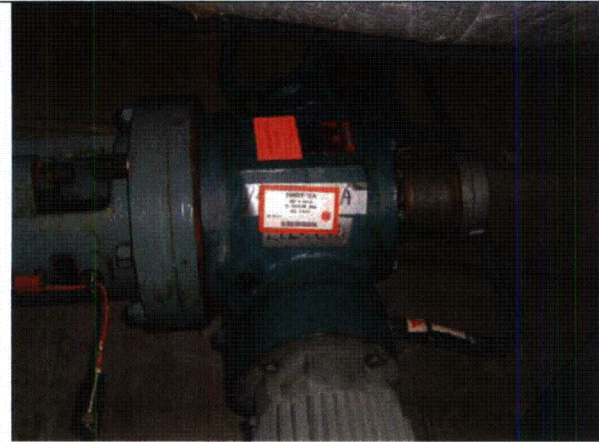
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Seismic Walkdown Checklist (SWC) SWEL1-169

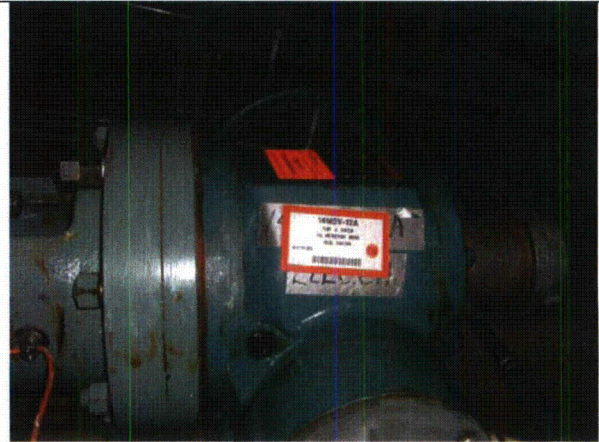
Equipment ID No. 14MOV-12A Equip. Class 8 – Motor-Operated Valves

Equipment Description Core Spray Loop A INBD Isolation Valve

Photographs



Note: 14MOV-12A



Note: 14MOV-12A

ATTACHMENT 9.6**SEISMIC WALKDOWN CHECKLIST FORM**

Sheet 1 of 5

Status: Y N U **Seismic Walkdown Checklist (SWC) SWEL1- 171**Equipment ID No. 14P-1A Equip. Class¹ 6-Vertical pumpEquipment Description Core Spray Pump ALocation: Bldg. RB Floor El. 226 Room, Area Col 4

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

Instructions for Completing Checklist

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

Anchorage

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

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

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y N U N/A
Mild surface corrosion on end of bolts and on base plate and bottom of pump. Not an adverse seismic condition.

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

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

ATTACHMENT 9.6**SEISMIC WALKDOWN CHECKLIST FORM**

Sheet 2 of 5

Status: Y N U **Seismic Walkdown Checklist (SWC) SWEL1- 171**Equipment ID No. 14P-1A Equip. Class 6-Vertical pumpEquipment Description Core Spray Pump A

5. Is the anchorage configuration consistent with plant documentation? Y N U N/A
 (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)
The anchorage configuration is consistent with DWG. No. 2.14-6.
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y N U
The anchorage is free of potentially adverse seismic conditions.

Interaction Effects

7. Are soft targets free from impact by nearby equipment or structures? Y N U N/A
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y N U N/A
9. Do attached lines have adequate flexibility to avoid damage? Y N U N/A
2" attached flexible conduits and hose have adequate flexibility. Other attached lines are well supported to the pump and no differential movement.
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y N U

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 3 of 5

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1- 171

Equipment ID No. 14P-1A Equip. Class 6-Vertical pump

Equipment Description Core Spray Pump A

Other Adverse Conditions

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

Comments (Additional pages may be added as necessary)

Evaluated by: R. Casella *Rich Casella* Date: 11/01/2012

Robert S. Kester *RSK* 11/01/2012

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 4 of 5

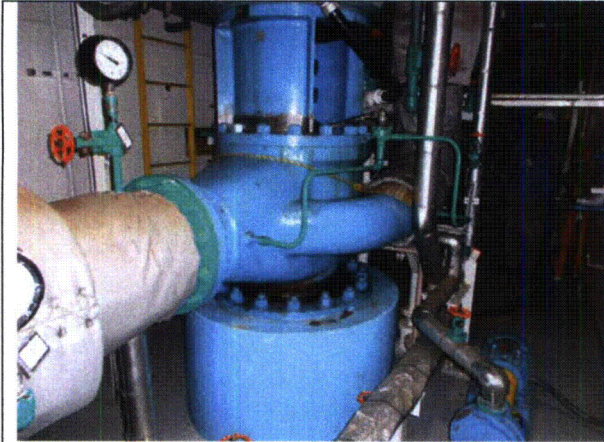
Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1- 171

Equipment ID No. 14P-1A Equip. Class 6-Vertical pump

Equipment Description Core Spray Pump A

Photographs



Note: 14P-1A



Note: 14P-1A

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

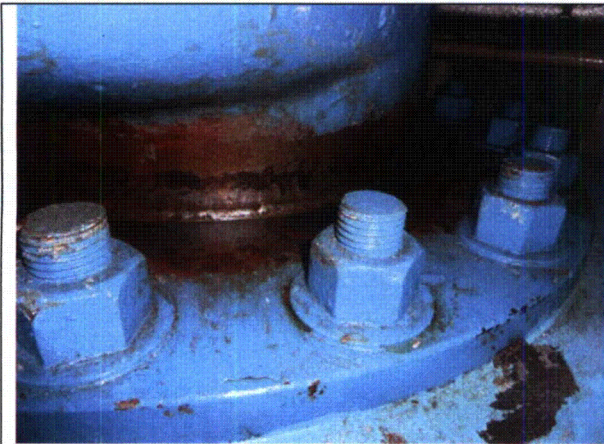
Sheet 5 of 5

Status: Y N U

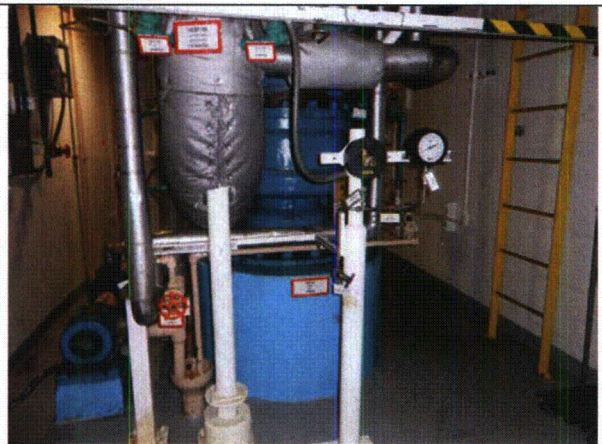
Seismic Walkdown Checklist (SWC) SWEL1- 171

Equipment ID No. 14P-1A Equip. Class 6-Vertical pump

Equipment Description Core Spray Pump A



Note: 14P-1A



Note: 14P-1A

ATTACHMENT 9.6**SEISMIC WALKDOWN CHECKLIST FORM**

Sheet 1 of 5

Status: Y N U **Seismic Walkdown Checklist (SWC) SWEL1- 172**Equipment ID No. 16-1RTD-131A Equip. Class¹ 19 Temperature SensorEquipment Description Torus Bulk Temp MonitorLocation: Bldg. SU Floor El. 227 Room, Area Col 4 Line P

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

Instructions for Completing Checklist

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

Anchorage

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

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

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

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

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

ATTACHMENT 9.6**SEISMIC WALKDOWN CHECKLIST FORM**

Sheet 2 of 5

Status: Y N U **Seismic Walkdown Checklist (SWC) SWEL1- 172**Equipment ID No. 16-1RTD-131A Equip. Class 19 Temperature SensorEquipment Description Torus Bulk Temp Monitor

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

Interaction Effects

7. Are soft targets free from impact by nearby equipment or structures?
No soft targets. Y N U N/A
8. Are overhead equipment, distribution systems, ceiling tiles and lighting,
and masonry block walls not likely to collapse onto the equipment? Y N U N/A
9. Do attached lines have adequate flexibility to avoid damage? Y N U N/A
10. Based on the above seismic interaction evaluations, is equipment free
of potentially adverse seismic interaction effects? Y N U

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 3 of 5

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1- 172

Equipment ID No. 16-1RTD-131A Equip. Class 19 Temperature Sensor

Equipment Description Torus Bulk Temp Monitor

Other Adverse Conditions

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

Comments (Additional pages may be added as necessary)

Evaluated by: R. Casella *Rich Casella* Date: 11/01/2012

R. S. Kester *RKS* 11/01/2012

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 4 of 5

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1- 172

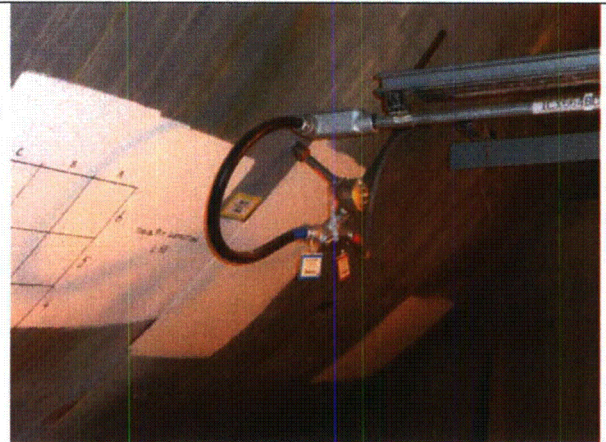
Equipment ID No. 16-1RTD-131A Equip. Class 19 Temperature Sensor

Equipment Description Torus Bulk Temp Monitor

Photographs



Note: 16-1RTD-131A



Note: 16-1RTD-131A

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

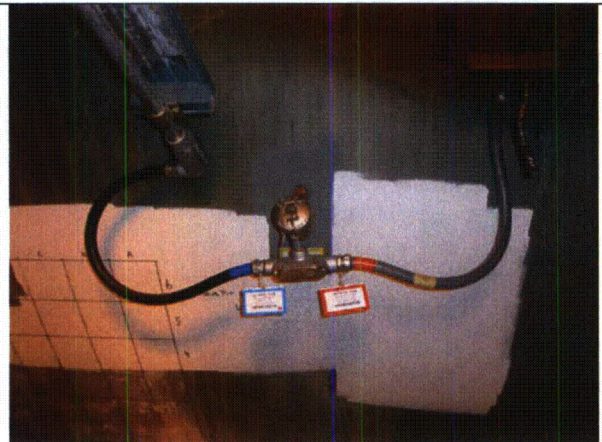
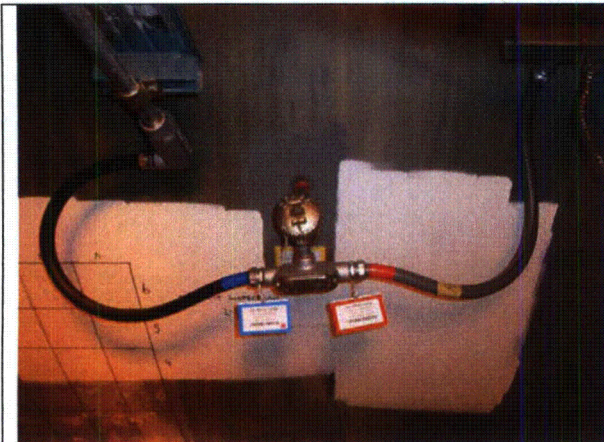
Sheet 5 of 5

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1- 172

Equipment ID No. 16-1RTD-131A Equip. Class 19 Temperature Sensor

Equipment Description Torus Bulk Temp Monitor



Note: 16-1RTD-131A

Note: 16-1RTD-131A

ATTACHMENT 9.6**SEISMIC WALKDOWN CHECKLIST FORM**

Sheet 1 of 4

Status: Y N U **Seismic Walkdown Checklist (SWC) SWEL1-209**Equipment ID No. 23AOV-53 Equip. Class¹ 7 – Pneumatic-Operated ValvesEquipment Description HPCI Turbine Steam Supply Drain Trap T-3 Bypass ValveLocation: Bldg. RB Floor El. 227.6 Room, Area Col 1 Line Y

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

Instructions for Completing Checklist

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

Anchorage

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

2. Is the anchorage free of bent, broken, missing or loose hardware? Y N U N/A
This SWEL item is an inline valve.

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y N U N/A
This SWEL item is an inline valve.

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y N U N/A
This SWEL item is an inline valve.

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

ATTACHMENT 9.6**SEISMIC WALKDOWN CHECKLIST FORM**

Sheet 2 of 4

Status: Y N U **Seismic Walkdown Checklist (SWC) SWEL1-209**Equipment ID No. 23AOV-53 Equip. Class 7 - Pneumatic-Operated ValvesEquipment Description HPCI Turbine Steam Supply Drain Trap T-3 Bypass Valve

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

Interaction Effects

7. Are soft targets free from impact by nearby equipment or structures?
*1.5 in. conduit running close to the air pipe(at about 2" distance).
Temporary scaffolding is erected at the area above the valve in support of the outage. The scaffolding appears to be well supported and is controlled in accordance with EN-MA-133.* Y N U N/A
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?
The overhead installations have adequate support. Y N U N/A
9. Do attached lines have adequate flexibility to avoid damage?
Attached lines have adequate flexibility. Y N U N/A
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y N U

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 3 of 4

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-209

Equipment ID No. 23AOV-53 Equip. Class 7 - Pneumatic-Operated Valves

Equipment Description HPCI Turbine Steam Supply Drain Trap T-3 Bypass Valve

Other Adverse Conditions

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

Comments (Additional pages may be added as necessary)

Valve is mounted in a cantilever position off the pipe. The design package EC-11595 approves this configuration.

Evaluated by: Donald Koberg



Date: 9/21/12

Pouria Pourghobadi



Date: 9/21/12

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 4 of 4

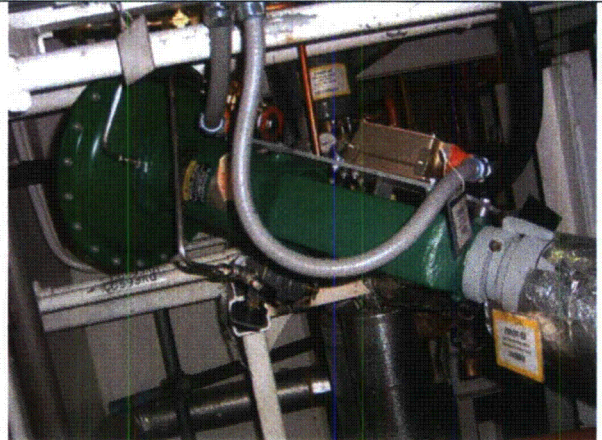
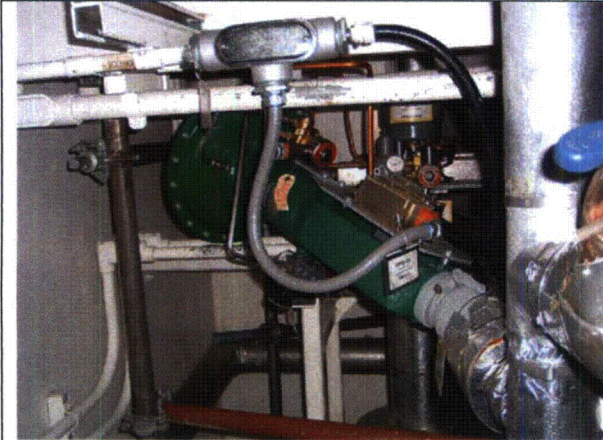
Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-209

Equipment ID No. 23AOV-53 Equip. Class 7 - Pneumatic-Operated Valves

Equipment Description HPCI Turbine Steam Supply Drain Trap T-3 Bypass Valve

Photographs



Note: 23AOV-53

Note: 23AOV-53

ATTACHMENT 9.6**SEISMIC WALKDOWN CHECKLIST FORM**

Sheet 1 of 4

Status: Y N U **Seismic Walkdown Checklist (SWC) SWEL1-210**Equipment ID No. 23E-2 Equip. Class¹ 21 – Tanks and Heat ExchangersEquipment Description HPCI Lube Oil CoolerLocation: Bldg. RB Floor El. 227.6 Room, Area Column 1 Line T

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

Instructions for Completing Checklist

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

Anchorage

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

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

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

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y N U N/A
The tank is not installed onto concrete.

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

ATTACHMENT 9.6**SEISMIC WALKDOWN CHECKLIST FORM**

Sheet 2 of 4

Status: Y N U **Seismic Walkdown Checklist (SWC) SWEL1-210**Equipment ID No. 23E-2 Equip. Class 21 – Tanks and Heat ExchangersEquipment Description HPCI Lube Oil Cooler

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

Interaction Effects

7. Are soft targets free from impact by nearby equipment or structures?
The soft targets are free of any impact by nearby equipments Y N U N/A
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?
Unistrut are supporting conduit with an unsupported span which exceeds the allow un supported span and can have potential threat. The resolution to this potentially adverse seismic condition is tracked through CR-JAF-2012-07990 Y N U N/A
9. Do attached lines have adequate flexibility to avoid damage? Y N U N/A
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?
An adverse seismic interaction effect may be present. Refer to Q. 8. Y N U

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 3 of 4

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-210

Equipment ID No. 23E-2 Equip. Class 21 – Tanks and Heat Exchangers

Equipment Description HPCI Lube Oil Cooler

Other Adverse Conditions

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

Comments (Additional pages may be added as necessary)

Evaluated by: Donald Koberg  Date: 9/21/12

Pouria Pourghobadi  9/21/12

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 4 of 4

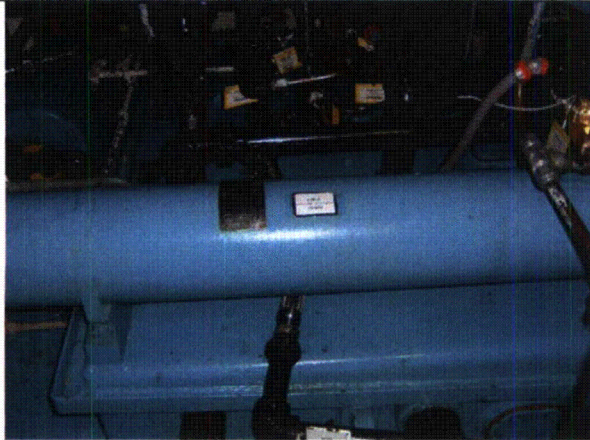
Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-210

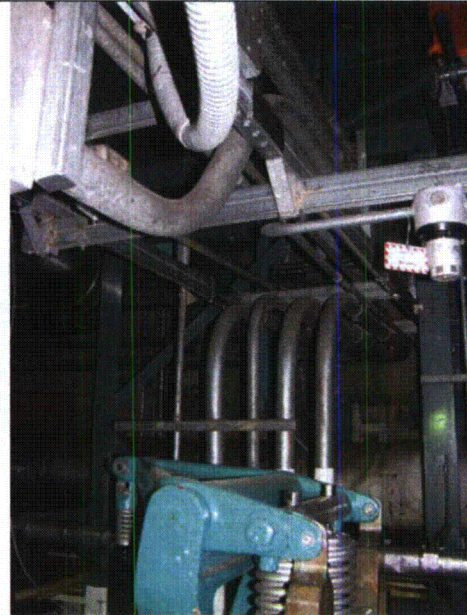
Equipment ID No. 23E-2 Equip. Class 21 – Tanks and Heat Exchangers

Equipment Description HPCI Lube Oil Cooler

Photographs



Note: HPCI Lube Oil Cooler



Note: Two P1001 conduits with unsupported span of ~21 ft, supported several conduits, junction box and smoke detector.

ATTACHMENT 9.6**SEISMIC WALKDOWN CHECKLIST FORM**

Sheet 1 of 4

Status: Y N U **Seismic Walkdown Checklist (SWC) SWEL1-213**Equipment ID No. 23HOV-1 Equip. Class¹ 07-Pneumatic Operated ValvesEquipment Description HPCI Turbine Steam Supply Stop ValveLocation: Bldg. RB Floor El. 227.6 Room, Area Col1 Line T

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

Instructions for Completing Checklist

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

Anchorage

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

2. Is the anchorage free of bent, broken, missing or loose hardware? Y N U N/A
The items is an inline valve.

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

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y N U N/A
The item is an inline valve.

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

ATTACHMENT 9.6**SEISMIC WALKDOWN CHECKLIST FORM**

Sheet 2 of 4

Status: Y N U **Seismic Walkdown Checklist (SWC) SWEL1-213**Equipment ID No. 23HOV-1 Equip. Class 07- Fluid Operated ValvesEquipment Description HPCI Turbine Steam Supply Stop Valve

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

Interaction Effects

7. Are soft targets free from impact by nearby equipment or structures?
There are no soft targets on this item. Y N U N/A
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?
Potentially inadequately P1001 unistruts with unsupported span of ~21 feet above the valve. The resolution to this potentially adverse seismic condition is tracked through CR-JAF-2012-07990 Y N U N/A
9. Do attached lines have adequate flexibility to avoid damage?
The attached lines have adequate flexibility. Y N U N/A
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?
An adverse seismic interaction effect may be present. Refer to Q. 8. Y N U

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 3 of 4

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-213

Equipment ID No. 23HOV-1 Equip. Class 07-Pneumatic Operated Valves


Equipment Description HPCI Turbine Steam Supply Stop Valve

Other Adverse Conditions

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

Comments (Additional pages may be added as necessary)

The adequacy of unistruts supporting the conduits should be evaluated.

Evaluated by: Donald Koberg  Date: 9/21/12

Pouria Pourghobadi  9/21/12

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 4 of 4

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-213

Equipment ID No. 23HOV-1 Equip. Class 07-Pneumatic Operated Valves

Equipment Description HPCI Turbine Steam Supply Stop Valve

Photographs



Note: 23HOV-1



Note: 23HOV-1

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 1 of 4

Status: Y N U Seismic Walkdown Checklist (SWC) SWEL1-217Equipment ID No. 23LT-202A Equip. Class¹ 18 – Instrument RacksEquipment Description Suppression Pool HPCI Logic Level TransmitterLocation: Bldg. RB Floor El. 227 Room, Area Col. 4.5, Line A

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

Instructions for Completing Checklist

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

Anchorage

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

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

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

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

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

ATTACHMENT 9.6**SEISMIC WALKDOWN CHECKLIST FORM**

Sheet 2 of 4

Status: Y N U **Seismic Walkdown Checklist (SWC) SWEL1-217**Equipment ID No. 23LT-202A Equip. Class 18 – Instrument RacksEquipment Description Suppression Pool HPCI Logic Level Transmitter

5. Is the anchorage configuration consistent with plant documentation? Y N U N/A
 (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)
The anchorage configuration is consistent with the SEWS for 23LT-202A (Rev. 0, and DWG. No. 7.31-193. The transmitter is anchored to an r/c wall with four ½" expansion anchors.
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y N U

Interaction Effects

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

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 3 of 4

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-217

Equipment ID No. 23LT-202A Equip. Class 18 - Instrument Racks

Equipment Description Suppression Pool HPCI Logic Level Transmitter

Other Adverse Conditions

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

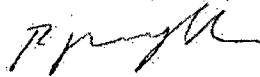
Comments (Additional pages may be added as necessary)

Evaluated by: Donald Koberg



Date: 9/24/12

Pouria Pourghobadi



9/24/12

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 4 of 4

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-217

Equipment ID No. 23LT-202A Equip. Class 18 – Instrument Racks

Equipment Description Suppression Pool HPCI Logic Level Transmitter

Photographs



Note: *23LT-202A Mounted in center of the picture*



Note:

ATTACHMENT 9.6**SEISMIC WALKDOWN CHECKLIST FORM**

Sheet 1 of 4

Status: Y N U **Seismic Walkdown Checklist (SWC) SWEL1-219**Equipment ID No. 23MOV-14 Equip. Class: 08 – Motor-Operated ValvesEquipment Description HPCI Turbine Steam Inlet Isolation ValveLocation: Bldg. RB Floor El. 227.6 Room, Area Col 1 Line T

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

Instructions for Completing Checklist

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

Anchorage

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y N
2. Is the anchorage free of bent, broken, missing or loose hardware? Y N U N/A
The item is an inline valve.
3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y N U N/A
The item is an inline valve.
4. Is the anchorage free of visible cracks in the concrete near the anchors? Y N U N/A
The item is an inline valve.

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

ATTACHMENT 9.6**SEISMIC WALKDOWN CHECKLIST FORM**

Sheet 2 of 4

Status: Y N U **Seismic Walkdown Checklist (SWC) SWEL1-219**Equipment ID No. 23MOV-14 Equip. Class 08 – Motor-Operated ValvesEquipment Description HPCI Turbine Steam Inlet Isolation Valve

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

Interaction Effects

7. Are soft targets free from impact by nearby equipment or structures?
No soft targets. Y N U N/A
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?
Overhead equipments and distribution systems, ceilings and tiles, etc are well supported. Y N U N/A
9. Do attached lines have adequate flexibility to avoid damage?
Attached lines have adequate flexibility. Y N U N/A
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y N U

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 3 of 4

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-219

Equipment ID No. 23MOV-14 Equip. Class 08 - Motor-Operated Valves

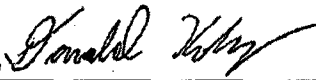
Equipment Description HPCI Turbine Steam Inlet Isolation Valve

Other Adverse Conditions

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

Comments (Additional pages may be added as necessary)

Evaluated by: Donald Koberg



Date: 9/21/12

Pouria Pourghobadi



9/21/12

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 4 of 4

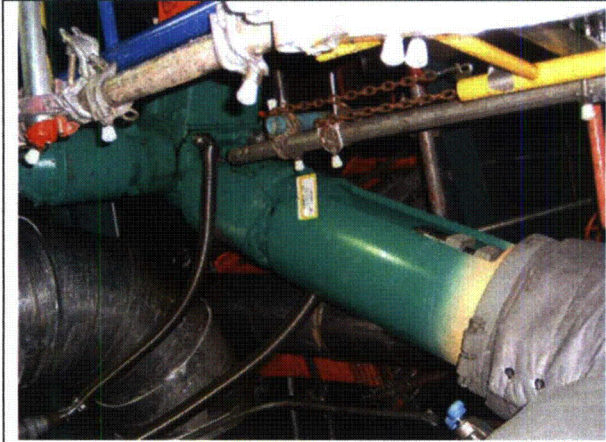
Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-219

Equipment ID No. 23MOV-14 Equip. Class 08 – Motor-Operated Valves

Equipment Description HPCI Turbine Steam Inlet Isolation Valve

Photographs



Note: 23MOV-14

Note:

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 1 of 5

Status: Y N U Seismic Walkdown Checklist (SWC) SWEL 1-232Equipment ID No. 23P-150 Equip. Class¹ 05 - Horizontal PumpEquipment Description HPCI Turbine Auxiliary Lube Oil PumpLocation: Bldg. RB Floor El. 227.6 Room, Area Col1 Line T

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

Instructions for Completing Checklist

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

Anchorage

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y N
The anchorage configuration verification is required.
2. Is the anchorage free of bent, broken, missing or loose hardware? Y N U N/A
The anchorage is intact and free of any broken, bent or missing hardware.
3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y N U N/A
The anchorage is free of rust.
4. Is the anchorage free of visible cracks in the concrete near the anchors? Y N U N/A
No cracks are visible in the concrete.

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

ATTACHMENT 9.6**SEISMIC WALKDOWN CHECKLIST FORM**

Sheet 2 of 5

Status: Y N U **Seismic Walkdown Checklist (SWC) SWEL 1-232**Equipment ID No. 23P-150 Equip. Class 05 – Horizontal PumpEquipment Description HPCI Turbine Auxiliary Lube Oil Pump

5. Is the anchorage configuration consistent with plant documentation?
(Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)
The pump is supported with 4-1/2" CIP bolts to 23TU-2 skid. The anchorage configuration is consistent with SEWS for 23P-150 Rev, and DWG. No. 2.03-2 and DWG. NO. 2.03-2. Y N U N/A
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y N U

Interaction Effects

7. Are soft targets free from impact by nearby equipment or structures? Y N U N/A
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?
Two overhead P1001 unistruts supporting conduits, junction box and smoke detectors have unsupported span which exceeds the suggested span. The resolution to this potentially adverse seismic condition is tracked through CR-JAF-2012-07990. Y N U N/A
9. Do attached lines have adequate flexibility to avoid damage?
Attached lines do have adequate flexibility. Y N U N/A
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y N U
A potentially adverse seismic interaction effect may be present. Refer to Q. 8.

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 3 of 5

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL 1-232


Equipment ID No. 23P-150 Equip. Class 05 – Horizontal Pump


Equipment Description HPCI Turbine Auxiliary Lube Oil Pump

Other Adverse Conditions

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

Comments (Additional pages may be added as necessary)

Evaluated by: Donald Koberg  Date: 9/21/12

Pouria Pourghobadi  9/21/12

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 4 of 5

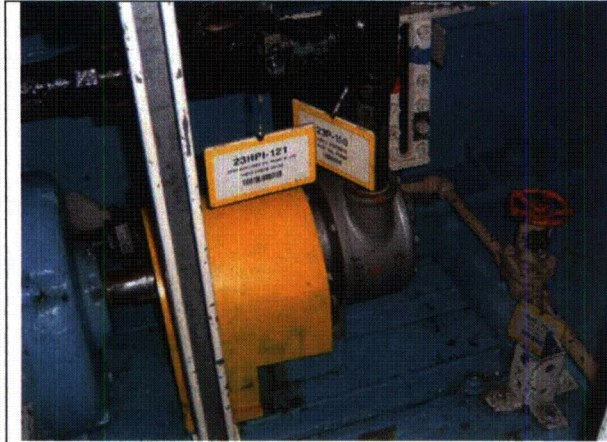
Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL 1-232

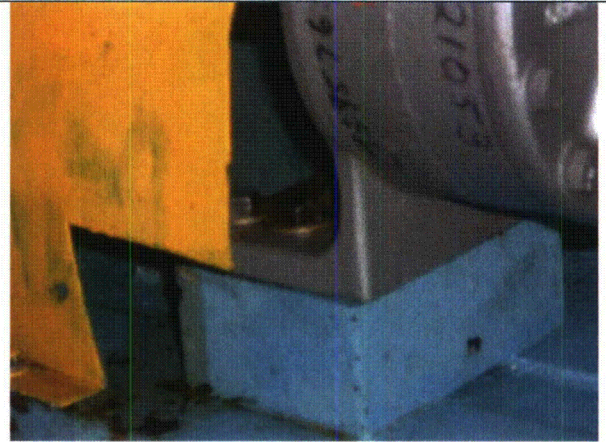
Equipment ID No. 23P-150 Equip. Class 05 – Horizontal Pump

Equipment Description HPCI Turbine Auxiliary Lube Oil Pump

Photographs



Note: 23P-150 pump and the motor



Note: Anchorage bolts for 23P-150

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

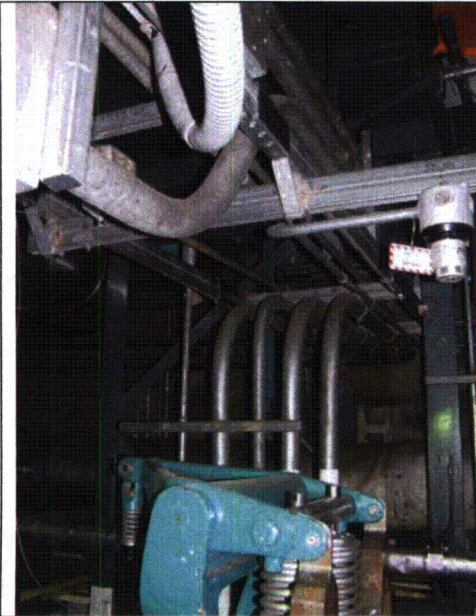
Sheet 5 of 5

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL 1-232

Equipment ID No. 23P-150 Equip. Class 05 – Horizontal Pump

Equipment Description HPCI Turbine Auxiliary Lube Oil Pump



Note: Two P1001 unistruts supporting overhead conduits, junction box and smoke detector.

Note:

ATTACHMENT 9.6**SEISMIC WALKDOWN CHECKLIST FORM**

Sheet 1 of 4

Status: Y N U **Seismic Walkdown Checklist (SWC) SWEL1-234**Equipment ID No. 23P-1M Equip. Class¹ 05 – Horizontal PumpsEquipment Description HPCI Main PumpLocation: Bldg. RB Floor El. 227.6 Room, Area Col 1Line T

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

Instructions for Completing Checklist

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

Anchorage

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y N
2. Is the anchorage free of bent, broken, missing or loose hardware? Y N U N/A
The anchorage is intact and free of any bent.
3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y N U N/A
The anchorage is free of corrosion
4. Is the anchorage free of visible cracks in the concrete near the anchors? Y N U N/A
There are minor surface hairline cracks visible near 3 of the anchorage bolts. These cracks are not identified as deficiency to the seismic adequacy of the anchorage.

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

ATTACHMENT 9.6**SEISMIC WALKDOWN CHECKLIST FORM**

Sheet 2 of 4

Status: Y N U **Seismic Walkdown Checklist (SWC) SWEL1-234**Equipment ID No. 23P-1M Equip. Class 05 – Horizontal PumpsEquipment Description HPCI Main Pump

5. Is the anchorage configuration consistent with plant documentation?
(Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)
The anchorage configuration was as indicated in DWG. No. FC-20D Y N U N/A
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y N U

Interaction Effects

7. Are soft targets free from impact by nearby equipment or structures?
Two P1001unistruts supporting the overhead conduits, junction box and smoke detector have an unsupported span which exceeds the suggested span. The resolution to this potentially adverse seismic condition is tracked through CR-JAF-2012-07990. Y N U N/A
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?
Two P1001unistruts supporting the overhead conduits, junction box and smoke detector have an unsupported span which exceeds the suggested span. The resolution to this potentially adverse seismic condition is tracked through CR-JAF-2012-07990. Y N U N/A
9. Do attached lines have adequate flexibility to avoid damage?
The attached lines have adequate flexibility. Y N U N/A
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?
A potentially adverse seismic condition may be present. Refer to Q.7 and Q.8. Y N U

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 3 of 4

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-234

Equipment ID No. 23P-1M Equip. Class 05 - Horizontal Pumps

Equipment Description HPCI Main Pump

Other Adverse Conditions

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

Comments (Additional pages may be added as necessary)

Evaluated by: Donald Koberg



Date: 9/21/12

Pouria Pourghobadi



9/21/12

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 4 of 4

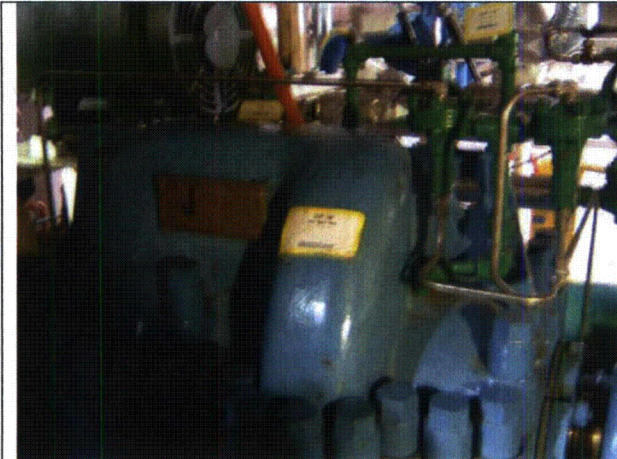
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Seismic Walkdown Checklist (SWC) SWEL1-234

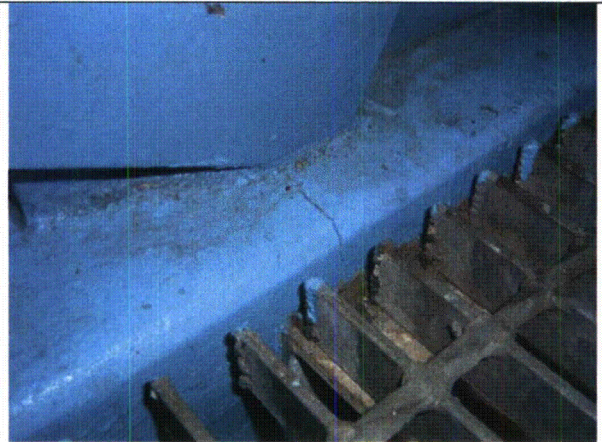
Equipment ID No. 23P-1M Equip. Class 05 – Horizontal Pumps

Equipment Description HPCI Main Pump

Photographs



Note: 23P-1M Pump



Note: Minor cracks on the concrete pedestal. They were determined not to pose any threat to seismic adequacy of the structure.

ATTACHMENT 9.6**SEISMIC WALKDOWN CHECKLIST FORM**

Sheet 1 of 5

Status: Y N U **Seismic Walkdown Checklist (SWC) SWEL1-243**Equipment ID No. 23TK-1 Equip. Class¹ 21 – Tank and Heat ExchangersEquipment Description HPCI Lube Oil SumpLocation: Bldg. RB Floor El. 227.6 Room, Area Column 1 Line T

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

Instructions for Completing Checklist

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

Anchorage

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y N
2. Is the anchorage free of bent, broken, missing or loose hardware? Y N U N/A
The anchorage is free of bent, broken, missing or loose hardware.
3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y N U N/A
The anchorage is free of corrosion.
4. Is the anchorage free of visible cracks in the concrete near the anchors? Y N U N/A
The anchorage is free of visible cracks in the concrete.

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

ATTACHMENT 9.6**SEISMIC WALKDOWN CHECKLIST FORM**

Sheet 2 of 5

Status: Y N U **Seismic Walkdown Checklist (SWC) SWEL1-243**Equipment ID No. 23TK-1 Equip. Class 21 – Tank and Heat ExchangersEquipment Description HPCI Lube Oil Sump

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

Interaction Effects

7. Are soft targets free from impact by nearby equipment or structures? Y N U N/A
The soft targets are free impact by nearby equipment or structures.
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
Potentially inadequately P1001 unistruts with unsupported span of ~21 feet above the valve. The resolution to this potentially adverse seismic condition is tracked through LB-01.
9. Do attached lines have adequate flexibility to avoid damage? Y N U N/A
The attached lines have adequate flexibility.
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y N U
A potentially adverse seismic interaction effect may exist. Refer to Q. 8.

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 3 of 5

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-243

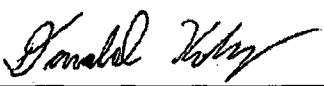
Equipment ID No. 23TK-1 Equip. Class 21 – Tank and Heat Exchangers


Equipment Description HPCI Lube Oil Sump

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
Review conduit unistrut support for deficiencies.

Comments (Additional pages may be added as necessary)

Evaluated by: Donald Koberg  Date: 9/23/12

Pouria Pourghobadi  9/23/12

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 4 of 5

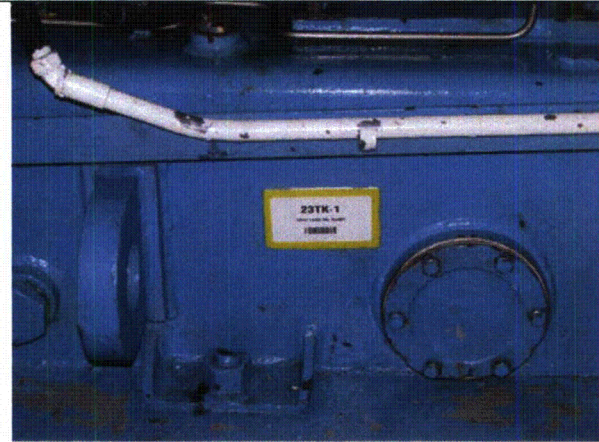
Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-243

Equipment ID No. 23TK-1 Equip. Class 21 – Tank and Heat Exchangers

Equipment Description HPCI Lube Oil Sump

Photographs



Note: 23TK-1 HPCI Lube Oil Sump



Note: P1001 unistruts supporting the overhead conduits, can have a potential seismic interaction effect.

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

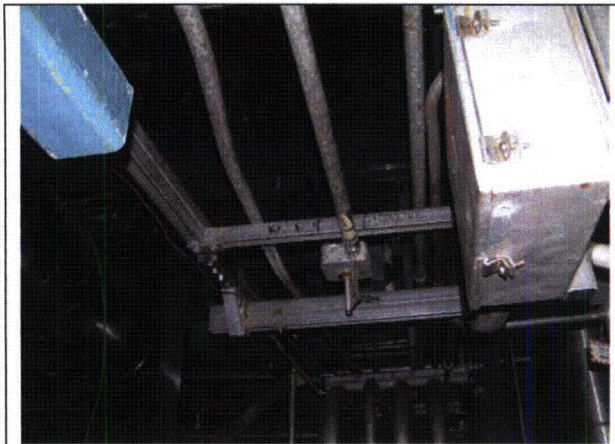
Sheet 5 of 5

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-243

Equipment ID No. 23TK-1 Equip. Class 21 – Tank and Heat Exchangers

Equipment Description HPCI Lube Oil Sump



Note: Over head P1001 unistruts supporting conduits and junction box.

Note:

ATTACHMENT 9.6**SEISMIC WALKDOWN CHECKLIST FORM**

Sheet 1 of 5

Status: Y N U **Seismic Walkdown Checklist (SWC) SWEL1-314**Equipment ID No. 27SOV-131A Equip. Class Solenoid Operated ValvesEquipment Description CAD TRAIN A NITROGEN MAKE-UP ISOL VALVE SOLENOID VALVE EQLocation: Bldg. SU Floor El. 260 Room, Area Col. 2 Line T

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

Instructions for Completing Checklist

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

Anchorage

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

2. Is the anchorage free of bent, broken, missing or loose hardware? Y N U N/A
The item is a valve Equalizer. No anchorage.

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y N U N/A
The item is a valve Equalizer. No anchorage.

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y N U N/A
The item is a valve Equalizer. No anchorage.

ATTACHMENT 9.6**SEISMIC WALKDOWN CHECKLIST FORM**

Sheet 2 of 5

Status: Y N USeismic Walkdown Checklist (SWC) SWEL1-314Equipment ID No. 27SOV-131A Equip. Class Solenoid Operated ValvesEquipment Description CAD TRAIN A NITROGEN MAKE-UP ISOL VALVE SOLENOID VALVE EQ

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

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

Interaction Effects

7. Are soft targets free from impact by nearby equipment or structures? Y N U N/A

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

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

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

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 3 of 5

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-314

Equipment ID No. 27SOV-131A Equip. Class Solenoid Operated Valves

Equipment Description CAD TRAIN A NITROGEN MAKE-UP ISOL VALVE SOLENOID VALVE EQ

Other Adverse Conditions

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

Comments (Additional pages may be added as necessary)

Evaluated by: Rick Casella Date: 10-8-12

Alan Porch 10-8-12

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 4 of 5

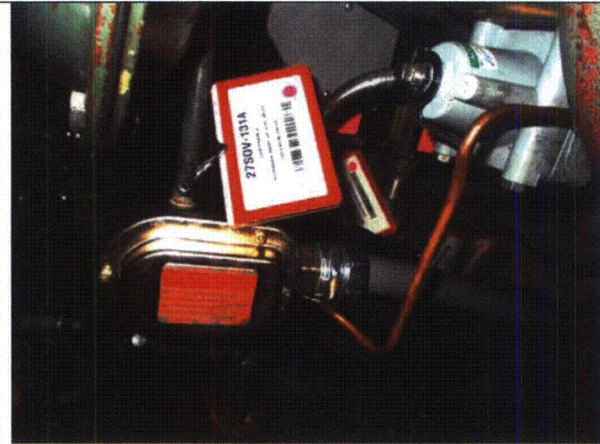
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Seismic Walkdown Checklist (SWC) SWEL1-314

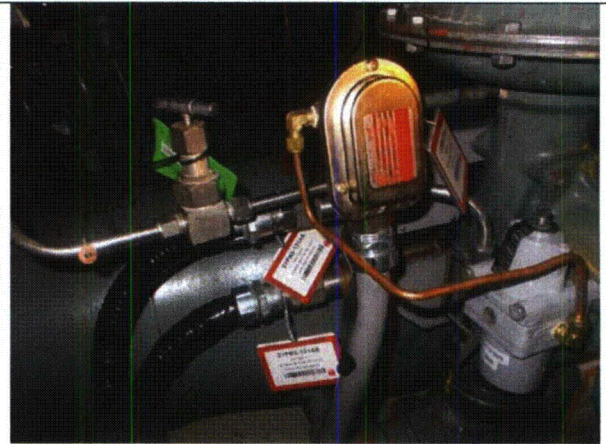
Equipment ID No. 27SOV-131A Equip. Class Solenoid Operated Valves

Equipment Description CAD TRAIN A NITROGEN MAKE-UP ISOL VALVE SOLENOID VALVE EQ

Photographs



Note: 27SOV-131A



Note: 27SOV-131A

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 5 of 5

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-314

Equipment ID No. 27SOV-131A Equip. Class Solenoid Operated Valves

Equipment Description CAD TRAIN A NITROGEN MAKE-UP ISOL VALVE SOLENOID VALVE EQ



Note: 27SOV-131A

Note:

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 1 of 4

Status: Y N U Seismic Walkdown Checklist (SWC) SWEL1-319Equipment ID No. 27SOV-145 Equip. Class¹ 08-Solenoid Operated ValvesEquipment Description DW Instr Nitrogen Backup Supply Isolation ValveLocation: Bldg. RB Floor El. 296' Room, Area RB 296', Col. 3, Line RT

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

Instructions for Completing Checklist

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

Anchorage

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y N
The evaluated item in this SWC is not part of the 50% of the SWEL items requiring anchorage configuration verification.
2. Is the anchorage free of bent, broken, missing or loose hardware? Y N U N/A
Inline SWEL item, which does not contain anchorage.
3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y N U N/A
Inline SWEL item, which does not contain anchorage.
4. Is the anchorage free of visible cracks in the concrete near the anchors? Y N U N/A
Inline SWEL item, which does not contain anchorage.

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

ATTACHMENT 9.6**SEISMIC WALKDOWN CHECKLIST FORM**

Sheet 2 of 4

Status: Y N U **Seismic Walkdown Checklist (SWC) SWEL1-319**Equipment ID No. 27SOV-145 Equip. Class 08-Solenoid Operated ValvesEquipment Description DW Instr Nitrogen Backup Supply Isolation Valve

5. Is the anchorage configuration consistent with plant documentation? Y N U N/A
 (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)
Inline SWEL item, which does not contain anchorage.
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y N U
Inline SWEL item, which does not contain anchorage.

Interaction Effects

7. Are soft targets free from impact by nearby equipment or structures? Y N U N/A
There are no soft targets on the equipment.
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y N U N/A
The overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls are not likely to collapse onto the equipment.
9. Do attached lines have adequate flexibility to avoid damage? Y N U N/A
The lines attached to the SWEL item have adequate flexibility to avoid damage.
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y N U
Based on the above seismic interaction evaluations, the equipment is free of potentially adverse seismic interaction effects.

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 3 of 4

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-319

Equipment ID No. 27SOV-145 Equip. Class 08-Solenoid Operated Valves

Equipment Description DW Instr Nitrogen Backup Supply Isolation Valve


Other Adverse Conditions

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

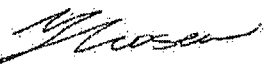
No other seismic conditions that could adversely affect the safety functions of the equipment in the area were found.

Comments (Additional pages may be added as necessary)

No additional comments.

Evaluated by: Harpreet Ghuman 

Date: 09/26/2012

Yaroslav Losev 

09/26/2012

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 4 of 4

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-319

Equipment ID No. 27SOV-145 Equip. Class 08-Solenoid Operated Valves

Equipment Description DW Instr Nitrogen Backup Supply Isolation Valve

Photographs



Note: *Picture of equipment 27SOV-145.*

Note:

ATTACHMENT 9.6**SEISMIC WALKDOWN CHECKLIST FORM**

Sheet 1 of 4

Status: Y N U **Seismic Walkdown Checklist (SWC) SWEL1-333**Equipment ID No. 27TK-7A Equip. Class¹ 21 – Tanks and Heat ExchangersEquipment Description CAD A Liquid Nitrogen TankLocation: Bldg. CB Floor El. 271.8 Room, Area Col. 0.5, Line RP

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

Instructions for Completing Checklist

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

Anchorage

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y N
2. Is the anchorage free of bent, broken, missing or loose hardware? Y N U N/A
Anchorage is free of bent, broken, missing or loose hardware.
3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y N U N/A
Anchorage is free of corrosion that is more than mild surface oxidation.
4. Is the anchorage free of visible cracks in the concrete near the anchors? Y N U N/A
Minor Hairline cracks in the concrete under both tank saddles, which do not pass through the center line of the bolts.

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

ATTACHMENT 9.6**SEISMIC WALKDOWN CHECKLIST FORM**

Sheet 2 of 4

Status: Y N U **Seismic Walkdown Checklist (SWC) SWEL1-333**Equipment ID No. 27TK-7A Equip. Class 21 – Tanks and Heat ExchangersEquipment Description CAD A Liquid Nitrogen Tank

5. Is the anchorage configuration consistent with plant documentation? Y N U N/A
 (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)
The anchorage configuration is consistent the SEWS for 27TK-7A (Rev. 0), DWG. No. 6.29-25 and DWG. No. 6.29-26.. The outer tank is welded to a pair of steel saddles; each saddle is anchored to a concrete pier with two 1 3/8" CIP bolts.
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y N U

Interaction Effects

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

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 3 of 4

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-333

Equipment ID No. 27TK-7A Equip. Class 21 - Tanks and Heat Exchangers

Equipment Description CAD A Liquid Nitrogen Tank

Other Adverse Conditions

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

Comments (Additional pages may be added as necessary)

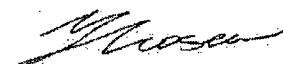
Both nitrogen tanks are missing equipment tags. The issue was discussed with operations and appropriate tags are on control panels associated with the tanks. No further action required.

Evaluated by: Donald Koberg



Date: 9/26/12

Yaroslav Losev



9/26/12

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 4 of 4

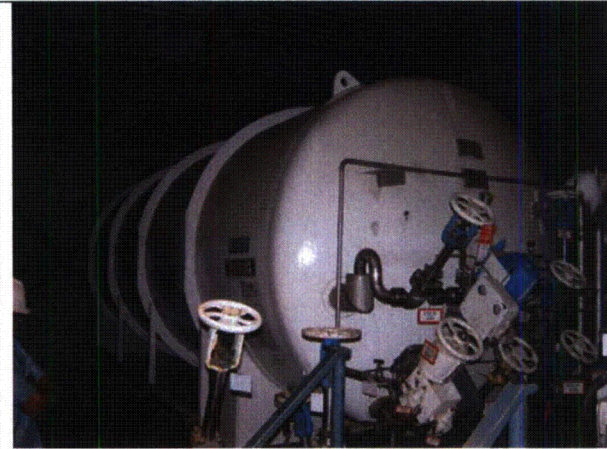
Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-333

Equipment ID No. 27TK-7A Equip. Class 21 – Tanks and Heat Exchangers

Equipment Description CAD A Liquid Nitrogen Tank

Photographs



Note: Nitrogen Tank 27TK-7A

Note:

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 1 of 4

Status: Y N U Seismic Walkdown Checklist (SWC) SWEL1-335Equipment ID No. 29AC-1A Equip. Class¹ 21-Tanks and Heat ExchangersEquipment Description MST D Outbd. MSIV Air AccumulatorLocation: Bldg. ST Floor El. 272' Room, Area ST 252', Col.6.5, Line T

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

Instructions for Completing Checklist

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

Anchorage

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y N
The item is not one of the 50% of SWEL items requiring anchorage configuration verification.
2. Is the anchorage free of bent, broken, missing or loose hardware? Y N U N/A
The four (4), 1/2" expansion anchors are free of bent, broken, missing or loose hardware.
3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y N U N/A
Anchorage is free of corrosion that is more than mild surface oxidation.
4. Is the anchorage free of visible cracks in the concrete near the anchors? Y N U N/A
It is unverifiable whether the concrete wall has cracks in it near the anchorage since it is covered by insulation. However, based on not insulated portion of the same wall in close proximity of this component, there are no cracks detected. Therefore, it is judged that no major cracks exist at the anchorage location of the component and that the concrete is acceptable near the anchors.

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

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 2 of 4

Status: Y N U Seismic Walkdown Checklist (SWC) SWEL1-335Equipment ID No. 29AC-1A Equip. Class 21-Tanks and Heat ExchangersEquipment Description MST D Outbd. MSIV Air Accumulator

5. Is the anchorage configuration consistent with plant documentation? Y N U N/A
 (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)
Item is not one of the 50% for which an anchorage configuration verification is required.
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y N U

Interaction Effects

7. Are soft targets free from impact by nearby equipment or structures? Y N U N/A
There are no soft targets on the equipment.
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y N U N/A
The overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls are not likely to collapse onto the equipment.
9. Do attached lines have adequate flexibility to avoid damage? Y N U N/A
The lines attached to the SWEL item have adequate flexibility to avoid damage.
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y N U
Based on the above seismic interaction evaluations, the equipment is free of potentially adverse seismic interaction effects.

ATTACHMENT 9.6**SEISMIC WALKDOWN CHECKLIST FORM**

Sheet 3 of 4

Status: Y N U **Seismic Walkdown Checklist (SWC) SWEL1-335**Equipment ID No. 29AC-1A Equip. Class 21-Tanks and Heat ExchangersEquipment Description MST D Outbd. MSIV Air Accumulator

Other Adverse Conditions

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

There is a 1" copper line attached to the SWEL item that is less than 1/8" of clearance between a handrail and a P1000 UNISTRUT. However, this could be considered beneficial, since at the points for which the copper line may come into contact with the handrails during a seismic event, the handrails will provide support in one direction which will restrict the deflection of the copper line and reduce stress on supports on the same line.

Comments (Additional pages may be added as necessary)

No additional comments.

Evaluated by: Harpreet Ghuman  Date: 10/01/2012Yaroslav Losev 10/01/2012

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 4 of 4

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-335

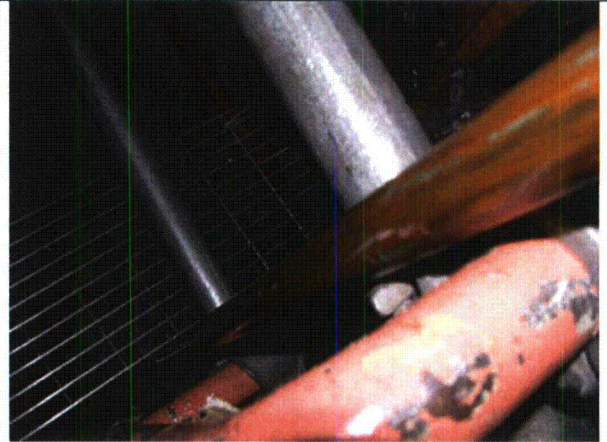
Equipment ID No. 29AC-1A Equip. Class 21-Tanks and Heat Exchangers

Equipment Description MST D Outbd. MSIV Air Accumulator

Photographs



Note: *Picture of equipment 29AC-1A.*



Note: *Picture of the copper line bearing close to the handrails.*

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 1 of 5

Status: Y N U Seismic Walkdown Checklist (SWC) SWEL1-336Equipment ID No. 29AC-1B Equip. Class Tanks and heat exchangersEquipment Description MST "A" Inbd N2/ Air accumulatorLocation: Bldg. PC Floor El. 269 Room, Area Drywell, North Side Col. 5.5

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

Instructions for Completing Checklist

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

Anchorage

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

2. Is the anchorage free of bent, broken, missing or loose hardware? Y N U N/A
Welded anchorage
Discontinuous weld on liner side, lower plate. Not an adverse seismic condition.
Discontinuous weld on RPV side, upper plate. Not an adverse seismic condition.

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

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y N U N/A
SWEL item is welded to a steel column, no visible concrete cracking near anchorage.

ATTACHMENT 9.6**SEISMIC WALKDOWN CHECKLIST FORM**

Sheet 2 of 5

Status: Y N U **Seismic Walkdown Checklist (SWC) SWEL1-336**Equipment ID No. 29AC-1B Equip. Class Tanks and heat exchangersEquipment Description MST "A" Inbd N2/ Air accumulator

5. Is the anchorage configuration consistent with plant documentation? Y N U N/A
 (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)
Refer to SEWS 29AC-1B and 29AC-1A.
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y N U
There is sufficient weld available to ensure no adverse seismic conditions exist.

Interaction Effects

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

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 3 of 5

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-336

Equipment ID No. 29AC-1B Equip. Class Tanks and heat exchangers

Equipment Description MST "A" Inbd N2/ Air accumulator

Other Adverse Conditions

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

Comments (Additional pages may be added as necessary)

No additional comments.

Evaluated by: Rick Casella

Rick Casella

Date: 9-28-12

Alan Porch

A. G. Porch

9-28-12

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 4 of 5

Status: Y N U Seismic Walkdown Checklist (SWC) SWEL1-336Equipment ID No. 29AC-1B Equip. Class Tanks and heat exchangersEquipment Description MST "A" Inbd N2/ Air accumulator

Photographs



Note: 29AC-1B (The date provided on the bottom right corner is not correct the date that the picture was taken. Malfunction with camera setting)



Note: 29AC-1B view of welded anchorage (The date provided on the bottom right corner is not correct the date that the picture was taken. Malfunction with camera setting)

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 5 of 5

Status: Y N U

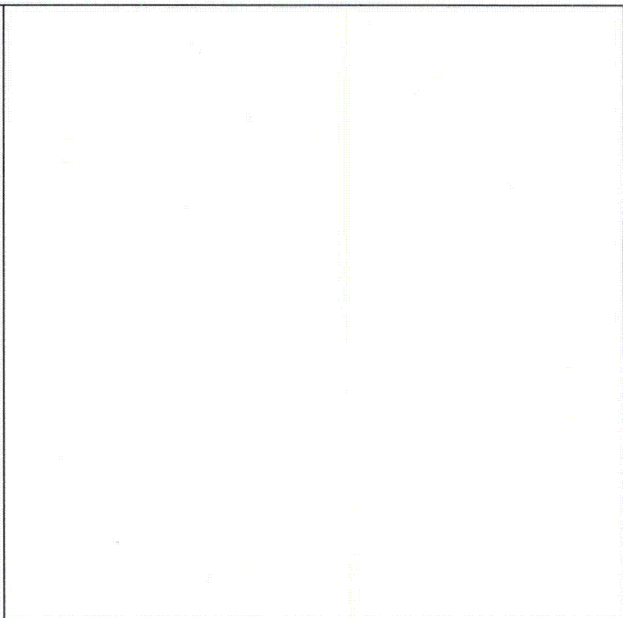
Seismic Walkdown Checklist (SWC) SWEL1-336

Equipment ID No. 29AC-1B Equip. Class Tanks and heat exchangers

Equipment Description MST "A" Inbd N2/ Air accumulator



Note: 29AC-1B showing discontinuous weld pattern (The date provided on the bottom right corner is not correct the date that the picture was taken. Malfunction with camera setting)



Note:

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 1 of 5

Status: Y N U Seismic Walkdown Checklist (SWC) SWEL1-343Equipment ID No. 29AOV-80A Equip. Class Pneumatic-operated valvesEquipment Description MST A Inbd Main Steam Isol ValveLocation: Bldg. PC Floor El. 269 Room, Area Drywell, North Side Col 5.5

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

Instructions for Completing Checklist

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

Anchorage

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

2. Is the anchorage free of bent, broken, missing or loose hardware? Y N U N/A
The item is an inline valve.

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

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y N U N/A
The item is an inline valve.

ATTACHMENT 9.6**SEISMIC WALKDOWN CHECKLIST FORM**

Sheet 2 of 5

Status: Y N U **Seismic Walkdown Checklist (SWC) SWEL1-343**Equipment ID No. 29AOV-80A Equip. Class Pneumatic-operated valvesEquipment Description MST A Inbd Main Steam Isol Valve

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

Interaction Effects

7. Are soft targets free from impact by nearby equipment or structures?
1 1/2" conduit is flexible. There is approximately a 1-1/2" clearance with 3/8" SS tubing to SOV on actuator.. Y N U N/A
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y N U N/A
9. Do attached lines have adequate flexibility to avoid damage? Y N U N/A
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y N U
Yes. In a seismic event, the flexible 1-1/2" conduit noted in Item 7 will not result in adverse seismic interaction with the 3/8" tubing to the SOV.

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 3 of 5

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-343

Equipment ID No. 29AOV-80A Equip. Class Pneumatic-operated valves

Equipment Description MST A Inbd Main Steam Isol Valve

Other Adverse Conditions

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

Comments (Additional pages may be added as necessary)

No additional comments.

Evaluated by: Rick Casella

Rick Casella

Date: 9-28-12

Alan Porch

A.C. Porch

9-28-12

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 4 of 5

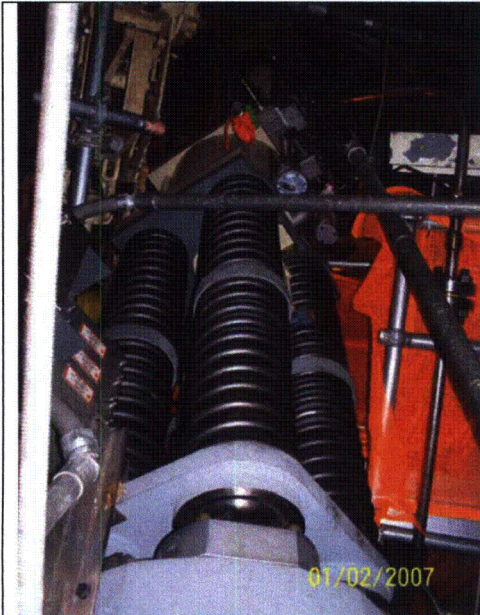
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Seismic Walkdown Checklist (SWC) SWEL1-343

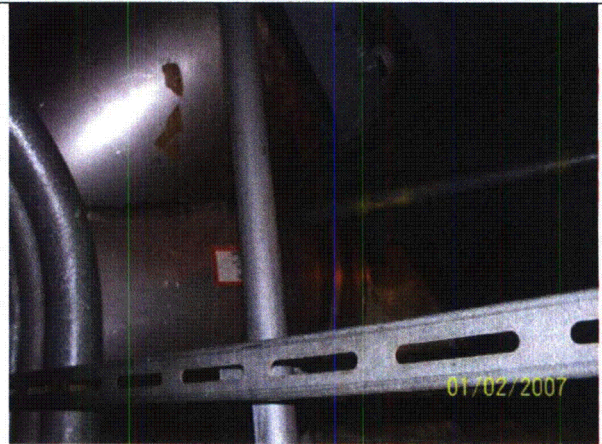
Equipment ID No. 29AOV-80A Equip. Class Pneumatic-operated valves

Equipment Description MST A Inbd Main Steam Isol Valve

Photographs



Note: 29AOV-80A Actuator



Note: 29AOV-80A

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 5 of 5

Status: Y N U

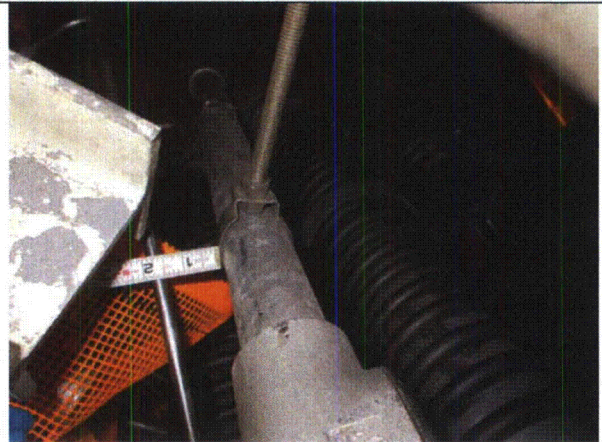
Seismic Walkdown Checklist (SWC) SWEL1-343

Equipment ID No. 29AOV-80A Equip. Class Pneumatic-operated valves

Equipment Description MST A Inbd Main Steam Isol Valve



Note: 29AOV-80A



Note: Conduit with 1 1/2" clearance from 3/8" tubing

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 1 of 4

Status: Y N U Seismic Walkdown Checklist (SWC) SWEL1-347Equipment ID No. 29AOV-86A Equip. Class¹ 07-Fluid Operated ValvesEquipment Description MST A Outbd Main Steam Isol ValveLocation: Bldg. ST Floor El. 252' Room, Area ST 252', Col. 5.5, Line T

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

Instructions for Completing Checklist

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

Anchorage

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y N
The evaluated item in this SWC is not part of the 50% of the SWEL items requiring anchorage configuration verification.
2. Is the anchorage free of bent, broken, missing or loose hardware? Y N U N/A
Inline SWEL item, which does not contain anchorage.
3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y N U N/A
Inline SWEL item, which does not contain anchorage.
4. Is the anchorage free of visible cracks in the concrete near the anchors? Y N U N/A
Inline SWEL item, which does not contain anchorage.

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

ATTACHMENT 9.6**SEISMIC WALKDOWN CHECKLIST FORM**

Sheet 2 of 4

Status: Y N U **Seismic Walkdown Checklist (SWC) SWEL1-347**Equipment ID No. 29AOV-86A Equip. Class 07-Fluid Operated ValvesEquipment Description MST A Outbd Main Steam Isol Valv

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.)
Inline SWEL item, which does not contain anchorage. Y N U N/A
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?
Inline SWEL item, which does not contain anchorage. Y N U

Interaction Effects

7. Are soft targets free from impact by nearby equipment or structures?
There are no soft targets on the equipment. Y N U N/A
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?
The overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls are not likely to collapse onto the equipment. Y N U N/A
9. Do attached lines have adequate flexibility to avoid damage?
The lines attached to the SWEL item have adequate flexibility to avoid damage. Y N U N/A
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?
Based on the above seismic interaction evaluations, the equipment is free of potentially adverse seismic interaction effects. Y N U

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 3 of 4

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-347

Equipment ID No. 29AOV-86A Equip. Class 07-Fluid Operated Valves

Equipment Description MST A Outbd Main Steam Isol Valv

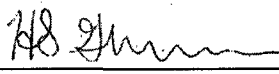
Other Adverse Conditions

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

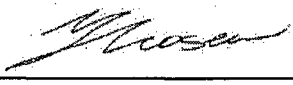
No other seismic conditions that could adversely affect the safety functions of the equipment in the area were found.

Comments (Additional pages may be added as necessary)

No additional comments.

Evaluated by: Harpreet Ghuman 

Date: 10/01/2012

Yaroslav Losev 

10/01/2012

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 4 of 4

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-347

Equipment ID No. 29AOV-86A Equip. Class 07-Fluid Operated Valves

Equipment Description MST A Outbd Main Steam Isol Valv

Photographs



Note: *Picture of equipment 29AOV-86A.*

Note:

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 1 of 4

Status: Y N U Seismic Walkdown Checklist (SWC) SWEL1-360Equipment ID No. 46MOV-101A Equip. Class: 8 - Motor-Operated ValvesEquipment Description Emergency Service Water Loop A Supply Header Isolation ValveLocation: Bldg. SP Floor El. 255 Room, Area C: 26.5, L: A4

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

Instructions for Completing Checklist

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

Anchorage

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y N
2. Is the anchorage free of bent, broken, missing or loose hardware? Y N U N/A
The item is an inline valve.
3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y N U N/A
The item is an inline valve.
4. Is the anchorage free of visible cracks in the concrete near the anchors? Y N U N/A
The item is an inline valve.

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

ATTACHMENT 9.6**SEISMIC WALKDOWN CHECKLIST FORM**

Sheet 2 of 4

Status: Y N U **Seismic Walkdown Checklist (SWC) SWEL1-360**Equipment ID No. 46MOV-101A Equip. Class 8 – Motor-Operated ValvesEquipment Description Emergency Service Water Loop A Supply Header Isolation Valve

5. Is the anchorage configuration consistent with plant documentation? Y N U N/A
(Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y N U
The item is an in-line valve.

Interaction Effects

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

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 3 of 4

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-360

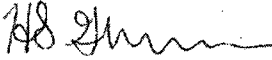
Equipment ID No. 46MOV-101A Equip. Class 8 - Motor-Operated Valves

Equipment Description Emergency Service Water Loop A Supply Header Isolation Valve

Other Adverse Conditions

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

Comments (Additional pages may be added as necessary)

Evaluated by: Harpreet Ghuman 

Date: 9/21/12

Yaroslav Losev 

9/21/12

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 4 of 4

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-360

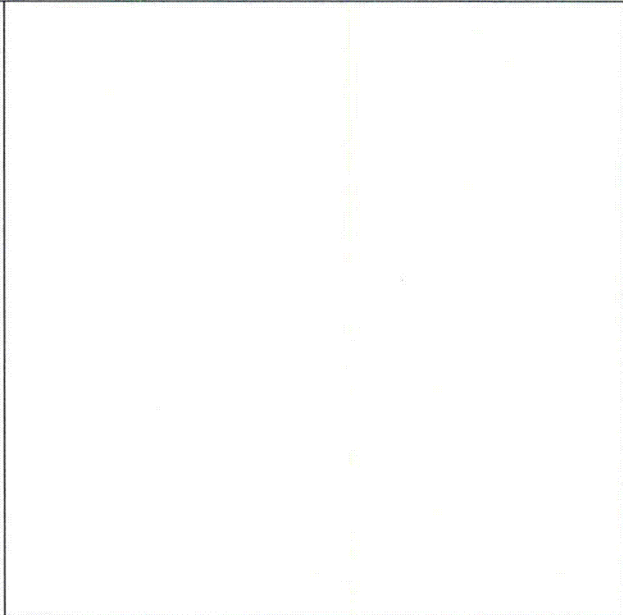
Equipment ID No. 46MOV-101A Equip. Class 8 – Motor-Operated Valves

Equipment Description Emergency Service Water Loop A Supply Header Isolation Valve

Photographs



Note: 46MOV-101A



Note:

ATTACHMENT 9.6**SEISMIC WALKDOWN CHECKLIST FORM**

Sheet 1 of 4

Status: Y N U **Seismic Walkdown Checklist (SWC) SWEL1-364**Equipment ID No. 46P-2A Equip. Class¹ 06-Vertical PumpEquipment Description Emergency Service Water Pump ALocation: Bldg. SP Floor El. 255' Room, Area Pump Room Train A, Col. 26, Row B

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

Instructions for Completing Checklist

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

Anchorage

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y N
The item is one of the 50% of SWEL items requiring anchorage configuration verification.
2. Is the anchorage free of bent, broken, missing or loose hardware? Y N U N/A
The four (4) 1" CIP headed bolts are free of bent, broken, missing or loose hardware.
3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y N U N/A
Anchorage is free of corrosion that is more than mild surface oxidation.
4. Is the anchorage free of visible cracks in the concrete near the anchors? Y N U N/A
There are no visible cracks in the concrete near the anchors.

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

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 2 of 4

Status: Y N U Seismic Walkdown Checklist (SWC) SWEL1-364Equipment ID No. 46P-2A Equip. Class 06-Vertical PumpEquipment Description Emergency Service Water Pump A

5. Is the anchorage configuration consistent with plant documentation?
(Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)
The anchorage configuration for the 1" CIP headed bolts is consistent with the SEWS documentation for equipment 10P-1A (which is nearly identical to equipment 46P-2A), Rev 0, and Vensor DWG.71452-D Y N U N/A
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?
Based on the above anchorage evaluations, the anchorage is free of potentially adverse seismic conditions. Y N U

Interaction Effects

7. Are soft targets free from impact by nearby equipment or structures?
There are no soft targets on the equipment. Y N U N/A
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?
A 3" diameter conduit supported by the tray is found to be improperly secured in Service Water Pump Room A. Portion of the conduit is secured by a single plastic zip tie on the side of a rod hanger which provides support for the 1TH604R Tray. Based on engineering judgment, the overhead conduit will not damage the equipment during a seismic event. The resolution to this deficiency is tracked through CR-JAF-2012-06191. Y N U N/A
9. Do attached lines have adequate flexibility to avoid damage?
The lines attached to the SWEL item have adequate flexibility to avoid damage. Y N U N/A
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?
Based on the above seismic interaction evaluations, the equipment is free of potentially adverse seismic interaction effects. Y N U

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 3 of 4

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-364

Equipment ID No. 46P-2A Equip. Class 06-Vertical Pump

Equipment Description Emergency Service Water Pump A

Other Adverse Conditions


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

No other seismic conditions that could adversely affect the safety functions of the equipment in the area were found.

Comments (Additional pages may be added as necessary)

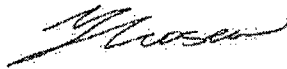
No additional comments.

Evaluated by: Harpreet Ghuman



Date: 09/21/2012

Yaroslav Losev



09/21/2012

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 4 of 4

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-364

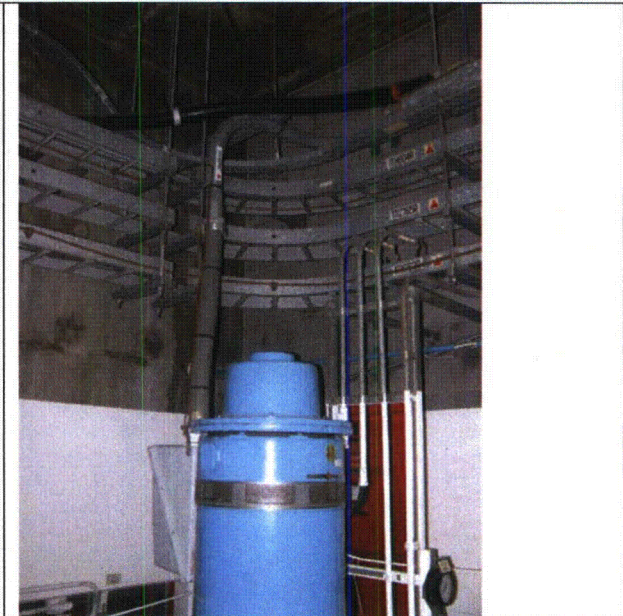
Equipment ID No. 46P-2A Equip. Class 06-Vertical Pump

Equipment Description Emergency Service Water Pump A

Photographs



Note: Picture of equipment 46P-2A.



Note: Picture of the conduit spanning over the top of equipment 46P-2A.

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 1 of 4

Status: Y N U Seismic Walkdown Checklist (SWC) SWEL1-366Equipment ID No. 46STR-5A1 Equip. Class: 00-OtherEquipment Description Emergency Service Water Pump A Discharge South Basket StrainerLocation: Bldg. SP Floor El. 255' Room, Area Pump Room Train A, Col. 26, Row B

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

Instructions for Completing Checklist

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

Anchorage

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y N
The item is not one of the 50% of SWEL items requiring anchorage configuration verification.
2. Is the anchorage free of bent, broken, missing or loose hardware? Y N U N/A
The one (1) anchor bolt is free of bent, broken, missing or loose hardware.
3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y N U N/A
Anchorage is free of corrosion that is more than mild surface oxidation.
4. Is the anchorage free of visible cracks in the concrete near the anchors? Y N U N/A
There are no visible cracks in the concrete near the anchors.

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

ATTACHMENT 9.6**SEISMIC WALKDOWN CHECKLIST FORM**

Sheet 2 of 4

Status: Y N U **Seismic Walkdown Checklist (SWC) SWEL1-366**Equipment ID No. 46STR-5A1 Equip. Class 00-OtherEquipment Description Emergency Service Water Pump A Discharge South Basket Strainer

5. Is the anchorage configuration consistent with plant documentation? Y N U N/A
 (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)
Item is not one of the 50% for which an anchorage configuration verification is required.
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y N U
Based on the above anchorage evaluations, the anchorage is free of potentially adverse seismic conditions.

Interaction Effects

7. Are soft targets free from impact by nearby equipment or structures? Y N U N/A
There are no soft targets on the equipment.
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y N U N/A
There is a masonry block wall near the equipment; however, the wall was evaluated under IPEEE effort to reinforce the block walls. (Ref Section 3.1.4.6, page 3-57 JAF-RPT-MISC-02211)
9. Do attached lines have adequate flexibility to avoid damage? Y N U N/A
The lines attached to the SWEL item have adequate flexibility to avoid damage.
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y N U
Based on the above seismic interaction evaluations, the equipment is free of potentially adverse seismic interaction effects.

ATTACHMENT 9.6**SEISMIC WALKDOWN CHECKLIST FORM**

Sheet 3 of 4

Status: Y N U Seismic Walkdown Checklist (SWC) SWEL1-366Equipment ID No. 46STR-5A1 Equip. Class 00-OtherEquipment Description Emergency Service Water Pump A Discharge South Basket Strainer

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

No other seismic conditions that could adversely affect the safety functions of the equipment in the area were found.

Comments (Additional pages may be added as necessary)

No additional comments.

Evaluated by: Harpreet Ghuman Date: 09/21/2012Yaroslav Losev 09/21/2012

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 4 of 4

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-366

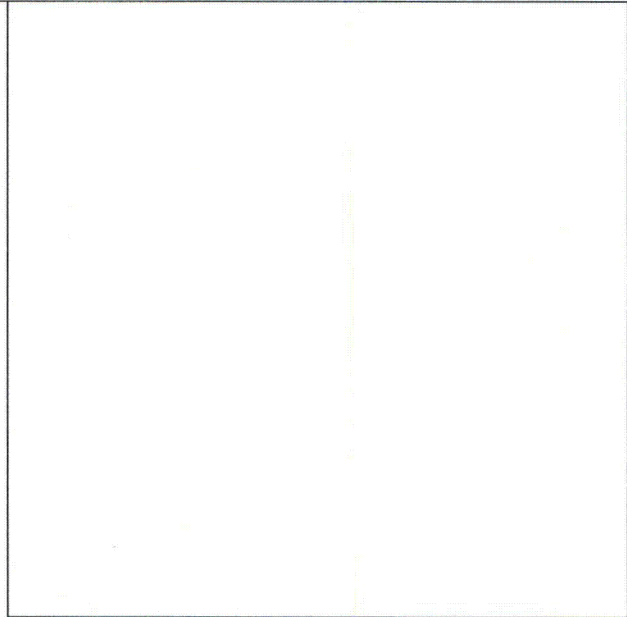
Equipment ID No. 46STR-5A1 Equip. Class 00-Other

Equipment Description Emergency Service Water Pump A Discharge South Basket Strainer

Photographs



Note: *Picture of equipment 46STR-5A1.*



Note:

ATTACHMENT 9.6**SEISMIC WALKDOWN CHECKLIST FORM**

Sheet 1 of 4

Status: Y N U **Seismic Walkdown Checklist (SWC) SWEL1-367**Equipment ID No. 46STR-5A2 Equip. Class¹ 00-OtherEquipment Description Emergency Service Water Pump A Discharge North Basket StrainerLocation: Bldg. SP Floor El. 255' Room, Area Pump Room Train A, Col. 26, Row B

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

Instructions for Completing Checklist

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

Anchorage

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y N
The item is not one of the 50% of SWEL items requiring anchorage configuration verification.
2. Is the anchorage free of bent, broken, missing or loose hardware? Y N U N/A
The one (1) anchor bolt is free of bent, broken, missing or loose hardware.
3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y N U N/A
Anchorage is free of corrosion that is more than mild surface oxidation.
4. Is the anchorage free of visible cracks in the concrete near the anchors? Y N U N/A
There are no visible cracks in the concrete near the anchors.

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

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 2 of 4

Status: Y N U Seismic Walkdown Checklist (SWC) SWEL1-367Equipment ID No. 46STR-5A2 Equip. Class 00-OtherEquipment Description Emergency Service Water Pump A Discharge North Basket Strainer

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.)
Item is not one of the 50% for which an anchorage configuration verification is required. Y N U N/A
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?
Based on the above anchorage evaluations, the anchorage is free of potentially adverse seismic conditions. Y N U

Interaction Effects

7. Are soft targets free from impact by nearby equipment or structures?
There are no soft targets on the equipment. Y N U N/A
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?
*There is a masonry block wall near the equipment; however, the wall was evaluated under IPEEE effort to reinforce the block walls.
(Ref Section 3.1.4.6, page 3-57 JAF-RPT-MISC-02211)* Y N U N/A
9. Do attached lines have adequate flexibility to avoid damage?
The lines attached to the SWEL item have adequate flexibility to avoid damage. Y N U N/A
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?
Based on the above seismic interaction evaluations, the equipment is free of potentially adverse seismic interaction effects. Y N U

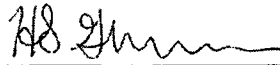
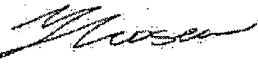
ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 3 of 4

Status: Y N U Seismic Walkdown Checklist (SWC) SWEL1-367Equipment ID No. 46STR-5A2 Equip. Class 00-OtherEquipment Description Emergency Service Water Pump A Discharge North Basket Strainer**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
No other seismic conditions that could adversely affect the safety functions of the equipment in the area were found.

Comments (Additional pages may be added as necessary)*No additional comments.*Evaluated by: Harpreet GhumanDate: 09/21/2012Yaroslav Losev09/21/2012

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 4 of 4

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-367

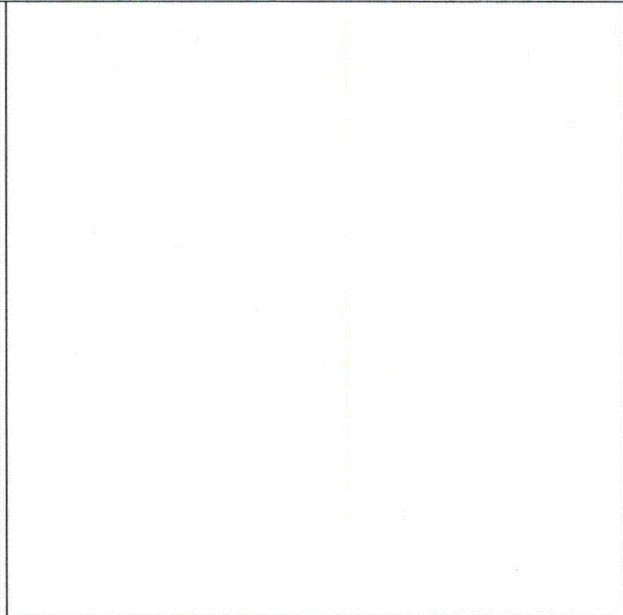
Equipment ID No. 46STR-5A2 Equip. Class 00-Other

Equipment Description Emergency Service Water Pump A Discharge North Basket Strainer

Photographs



Note: *Picture of equipment 46STR-5A2.*



Note:

ATTACHMENT 9.6**SEISMIC WALKDOWN CHECKLIST FORM**

Sheet 1 of 4

Status: Y N U **Seismic Walkdown Checklist (SWC) SWEL1-371**Equipment ID No. 66TCV-107E Equip. Class: 7 - Pnuematic-Operated ValvesEquipment Description West Crescent Area UC-22E SWS Inlet Temperature Control ValveLocation: Bldg. RB Floor El. 242 Room, Area Col 3

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

Instructions for Completing Checklist

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

Anchorage

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y N
2. Is the anchorage free of bent, broken, missing or loose hardware? Y N U N/A
3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y N U N/A
4. Is the anchorage free of visible cracks in the concrete near the anchors? Y N U N/A

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

ATTACHMENT 9.6**SEISMIC WALKDOWN CHECKLIST FORM**

Sheet 2 of 4

Status: Y N U**Seismic Walkdown Checklist (SWC) SWEL1-371**Equipment ID No: 66TCV-107E Equip. Class 7 – Pnuematic-Operated ValvesEquipment Description West Crescent Area UC-22E SWS Inlet Temperature Control Valve

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

Interaction Effects

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

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 3 of 4

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-371

Equipment ID No. 66TCV-107E Equip. Class 7 – Pnuematic-Operated Valves


Equipment Description West Crescent Area UC-22E SWS Inlet Temperature Control Valve

Other Adverse Conditions

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

Comments (Additional pages may be added as necessary)

Evaluated by: Donald Koberg  Date: 9/24/12

Pouria Pourghobadi  9/24/12

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 4 of 4

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-371

Equipment ID No. 66TCV-107E Equip. Class 7 – Pnuematic-Operated Valves

Equipment Description West Crescent Area UC-22E SWS Inlet Temperature Control Valve

Photographs



Note: 66TCV-107E



Note: 66TCV-107E

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 1 of 4

Status: Y N U Seismic Walkdown Checklist (SWC) SWEL1-372Equipment ID No. 66UC-22A Equip. Class¹ 10 – Air HandlersEquipment Description West Crescent Area Unit Cooler 22ALocation: Bldg. RB Floor El. 242 Room, Area Col 1, Line R

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

Instructions for Completing Checklist

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

Anchorage

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y N
2. Is the anchorage free of bent, broken, missing or loose hardware? Y N U N/A
The anchorage is free of bent, broken, missing or loose hardware.
3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y N U N/A
Slight visible corrosion.
4. Is the anchorage free of visible cracks in the concrete near the anchors? Y N U N/A

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

ATTACHMENT 9.6**SEISMIC WALKDOWN CHECKLIST FORM**

Sheet 2 of 4

Status: Y N U **Seismic Walkdown Checklist (SWC) SWEL1-372**Equipment ID No. 66UC-22A Equip. Class 10 – Air HandlersEquipment Description West Crescent Area Unit Cooler 22A

5. Is the anchorage configuration consistent with plant documentation? Y N U N/A
 (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)
The anchorage configuration is consistent with DWG. No. 10.00-113.
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y N U

Interaction Effects

7. Are soft targets free from impact by nearby equipment or structures? Y N U N/A
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y N U N/A
Scaffolding in the area is determined to be adequate however it has reached the 90 day review period. Not an adverse seismic condition. Site personnel were notified and the scaffolding is to be evaluated for long term erection in accordance with EN-MA-133.
9. Do attached lines have adequate flexibility to avoid damage? Y N U N/A
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y N U

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 3 of 4

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-372

Equipment ID No. 66UC-22A Equip. Class 10 – Air Handlers

Equipment Description West Crescent Area Unit Cooler 22A

Other Adverse Conditions

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

Comments (Additional pages may be added as necessary)

Evaluated by: Donald Koberg



Date: 9/24/12

Pouria Pourghobadi



9/24/12

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 4 of 4

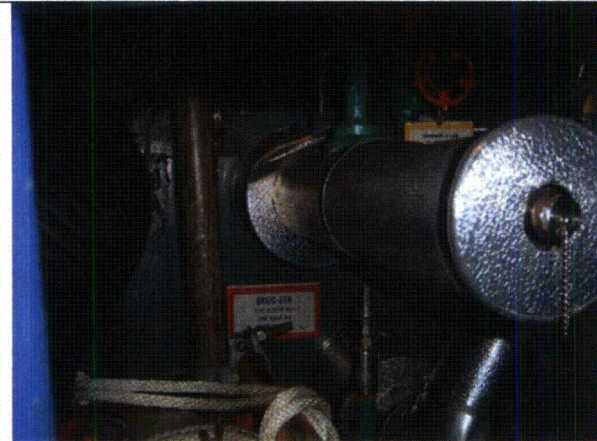
Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-372

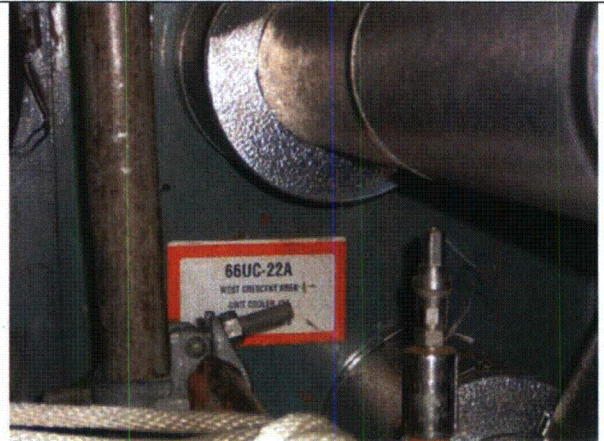
Equipment ID No. 66UC-22A Equip. Class 10 – Air Handlers

Equipment Description West Crescent Area Unit Cooler 22A

Photographs



Note: 66UC-22A



Note: 66UC-22A

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 1 of 5

Status: Y N U Seismic Walkdown Checklist (SWC) SWEL1-373Equipment ID No. 66UC-22B Equip. Class¹ 10 – Air HandlersEquipment Description East Crescent Area Unit Cooler 22BLocation: Bldg. RB Floor El. 242 Room, Area Col 4 Line D

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

Instructions for Completing Checklist

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

Anchorage

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y N
The anchorage configuration verification is required.
2. Is the anchorage free of bent, broken, missing or loose hardware? Y N U N/A
The anchorage is free of bent, broken, missing or loose hardware.
3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y N U N/A
Mild surface corrosion around the anchorage, but not an adverse seismic condition.
4. Is the anchorage free of visible cracks in the concrete near the anchors? Y N U N/A
The cooler is mounted on I-beam supports.

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

ATTACHMENT 9.6**SEISMIC WALKDOWN CHECKLIST FORM**

Sheet 2 of 5

Status: Y N U **Seismic Walkdown Checklist (SWC) SWEL1-373**Equipment ID No. 66UC-22B Equip. Class 10 – Air HandlersEquipment Description East Crescent Area Unit Cooler 22B

5. Is the anchorage configuration consistent with plant documentation?
(Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)
The anchorage configuration is consistent with SEWS for 66UNC-22B, which is identical 66UNC-22A and DGW. No. 10.00-113. Y N U N/A
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y N U

Interaction Effects

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

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 3 of 5

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-373

Equipment ID No. 66UC-22B Equip. Class 10 – Air Handlers

Equipment Description East Crescent Area Unit Cooler 22B

Other Adverse Conditions

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

Comments (Additional pages may be added as necessary)

Evaluated by: Donald Koberg



Date: 9/23/12

Pouria Pourghobadi



9/23/12

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 4 of 5

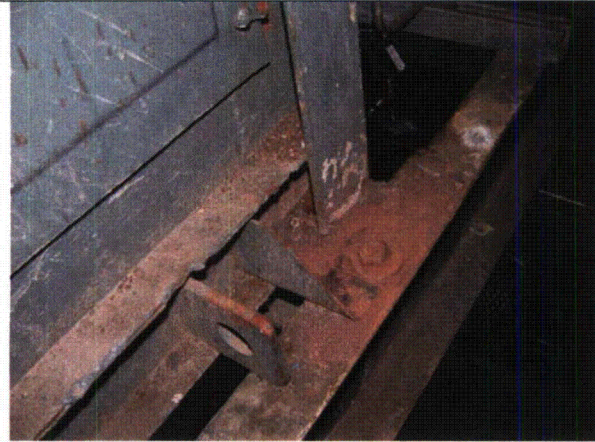
Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-373

Equipment ID No. 66UC-22B Equip. Class 10 – Air Handlers

Equipment Description East Crescent Area Unit Cooler 22B

Photographs



Note: *mild surface corrosion on connection.*



Note: 66UNC-22B

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

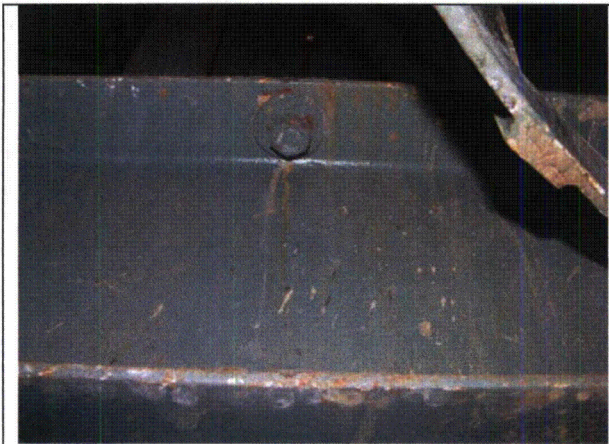
Sheet 5 of 5

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-373

Equipment ID No. 66UC-22B Equip. Class 10 – Air Handlers

Equipment Description East Crescent Area Unit Cooler 22B



Note: 66UNC-22B connection to I-beam flange.

Note:

ATTACHMENT 9.6**SEISMIC WALKDOWN CHECKLIST FORM**

Sheet 1 of 4

Status: Y N U **Seismic Walkdown Checklist (SWC) SWEL1-406**Equipment ID No. 70FN-4A Equip. Class¹ 9 - FansEquipment Description Control Room Ventilation Exhaust Fan ALocation: Bldg. AD Floor El. 300 Room, Area Col. 9.5, Line V

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

Instructions for Completing Checklist

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

Anchorage

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y N
2. Is the anchorage free of bent, broken, missing or loose hardware? Y N U N/A
Anchorage is free of bent, broken, missing or loose hardware.
3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y N U N/A
Anchorage is free of corrosion that is more than mild surface oxidation.
4. Is the anchorage free of visible cracks in the concrete near the anchors? Y N U N/A
The fan is mounted on a skid that is welded to the building steel. No cracks are visible on the walls which the beams are bolted to.

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

ATTACHMENT 9.6**SEISMIC WALKDOWN CHECKLIST FORM**

Sheet 2 of 4

Status: Y N U **Seismic Walkdown Checklist (SWC) SWEL1-406**Equipment ID No. 70FN-4A Equip. Class 9 – FansEquipment Description Control Room Ventilation Exhaust Fan A

5. Is the anchorage configuration consistent with plant documentation? Y N U N/A
 (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)
The anchorage configuration is consistent with the SEWS for 70FN-4A (Rev. 0) and drawing SFSK-41. The fan is supported from a substantial welded steel frame which is welded to building steel.
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y N U

Interaction Effects

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

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 3 of 4

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-406

Equipment ID No. 70FN-4A Equip. Class 9 - Fans

Equipment Description Control Room Ventilation Exhaust Fan A

Other Adverse Conditions

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

Comments (Additional pages may be added as necessary)

Evaluated by: Donald Koberg



Date: 9/24/12

Pouria Pourghobadi



9/24/12

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 4 of 4

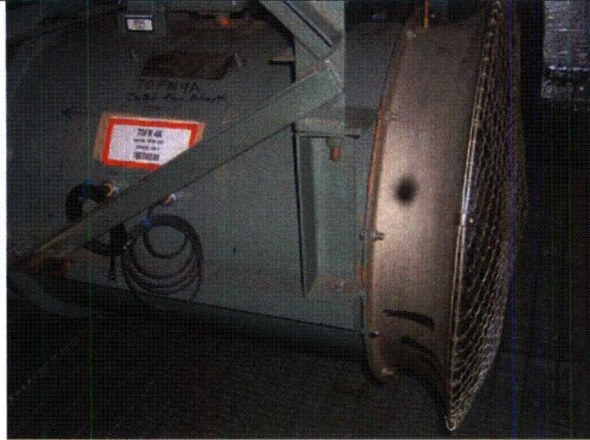
Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-406

Equipment ID No. 70FN-4A Equip. Class 9 – Fans

Equipment Description Control Room Ventilation Exhaust Fan A

Photographs



Note: Fan 70FN-4A



Note: Fan 70FN-4A

ATTACHMENT 9.6**SEISMIC WALKDOWN CHECKLIST FORM**

Sheet 1 of 5

Status: Y N U Seismic Walkdown Checklist (SWC) SWEL1-426Equipment ID No. 70RWC-2A(CND) Equip. Class¹ 11 - ChillersEquipment Description Control Room Chiller A CondenserLocation: Bldg. AD Floor El. 300 Room, Area Col. 10.5 Line S

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

Instructions for Completing Checklist

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

Anchorage

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y N
2. Is the anchorage free of bent, broken, missing or loose hardware? Y N U N/A
Anchorage is free of bent, broken, missing or loose hardware.
3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y N U N/A
Anchorage is free of corrosion that is more than mild surface oxidation.
4. Is the anchorage free of visible cracks in the concrete near the anchors? Y N U N/A
Anchorage is free of visible cracks in the concrete near the anchors.

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

ATTACHMENT 9.6**SEISMIC WALKDOWN CHECKLIST FORM**

Sheet 2 of 5

Status: Y N U **Seismic Walkdown Checklist (SWC) SWEL1-426**Equipment ID No. 70RWC-2A(CND) Equip. Class 11 - ChillersEquipment Description Control Room Chiller A Condenser

5. Is the anchorage configuration consistent with plant documentation? Y N U N/A
 (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)
The anchorage and base plate is consistent with DWG. No SK-051351-C-023 SH 1 (Calculation JAF-CALC-09-00004) and DWG. No. FC-32C. Refer to "Comments" section of this document for details.
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y N U

Interaction Effects

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

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 3 of 5

Status: Y N U Seismic Walkdown Checklist (SWC) SWEL1-426Equipment ID No. 70RWC-2A(CND) Equip. Class 11 - ChillersEquipment Description Control Room Chiller A Condenser**Other Adverse Conditions**

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

Comments (Additional pages may be added as necessary)

At the front support of the condenser, Four 5/8" DIA HKB-3 X 10" Long anchors are used to install the 1" THK base plate and the 3/4" THK mounting plates. The 5/8" vendor provided plate is welded on top of the mounting plates, making this connection rigid.

At the back support, a sole plate 3/4" X 2' X 6' A36, is installed on top of the existing concrete pedestal. Eight 5/8" DIA. HKB-3 X 10" Long anchors are used to install the sole plate. 5/8" THK supplied by vendor is welded on top of the sole plate.

Evaluated by: Donald KobergDate: 9/25/12Pouria Pourghobadi9/25/12

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 4 of 5

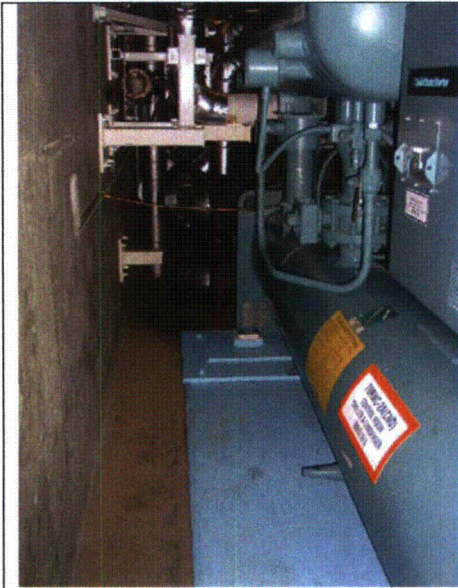
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Seismic Walkdown Checklist (SWC) SWEL1-426

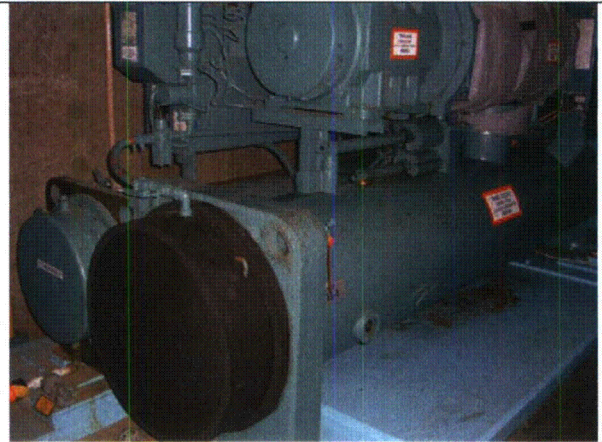
Equipment ID No. 70RWC-2A(CND) Equip. Class 11 - Chillers

Equipment Description Control Room Chiller A Condenser

Photographs



Note: 70RWC-2A(CND) Condenser



Note: 70RWC-2A (CND) Chiller and Condenser.

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 5 of 5

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-426

Equipment ID No. 70RWC-2A(CND) Equip. Class 11 - Chillers

Equipment Description Control Room Chiller A Condenser



Note: front base plate of 70RWC-2A (CND) Chiller Condenser.

Note:

ATTACHMENT 9.6**SEISMIC WALKDOWN CHECKLIST FORM**

Sheet 1 of 5

Status: Y N U **Seismic Walkdown Checklist (SWC) SWEL1- 430**Equipment ID No. 71-10502 Equip. Class Medium Voltage, Metal-clad SwitchgearEquipment Description 4160V Switchgear Distribution (Bus 10500)Location: Bldg. EG Floor El. 272 Room, Area Col 24 line A1

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

Instructions for Completing Checklist

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

Anchorage

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

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

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

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y N U N/A
 From north end of panel on side, hairline cracks (< 1/16" wide) at 2", 6", 14", 18.5", 22.5". Cracks are likely a second pour (concrete or grout) in cavity that was excavated for embedded anchorage.

ATTACHMENT 9.6**SEISMIC WALKDOWN CHECKLIST FORM**

Sheet 2 of 5

Status: Y N U **Seismic Walkdown Checklist (SWC) SWEL1- 430**Equipment ID No. 71-10502 Equip. Class Medium Voltage, Metal-clad SwitchgearEquipment Description 4160V Switchgear Distribution (Bus 10500)

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

Interaction Effects

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

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 3 of 5

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1- 430

Equipment ID No. 71-10502 Equip. Class Medium Voltage, Metal-clad Switchgear

Equipment Description 4160V Switchgear Distribution (Bus 10500)

Other Adverse Conditions

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

Comments (Additional pages may be added as necessary)

Evaluated by: R Casella

Rich Casella

Date: 10-31-12

A Porch

A. C. Porch

10-31-12

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 4 of 5

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1- 430

Equipment ID No. 71-10502 Equip. Class Medium Voltage, Metal-clad Switchgear

Equipment Description 4160V Switchgear Distribution (Bus 10500)

Photographs



Note: 71-10502



Note: Conduit, duct, and cable trays above 71-10502

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 5 of 5

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1- 430

Equipment ID No. 71-10502 Equip. Class Medium Voltage, Metal-clad Switchgear

Equipment Description 4160V Switchgear Distribution (Bus 10500)



Note: Side view of 71-10502



Note: Cracks in grout at rear of 71-10502

ATTACHMENT 9.6**SEISMIC WALKDOWN CHECKLIST FORM**

Sheet 1 of 5

Status: Y N U **Seismic Walkdown Checklist (SWC) SWEL1- 433**Equipment ID No. 71-10560 Equip. Class Medium Voltage, Metal-clad SwitchgearEquipment Description 4160V Switchgear Distribution (Bus 10500)Location: Bldg. EG Floor El. 272 Room, Area Col 26 line A1

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

Instructions for Completing Checklist

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

Anchorage

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

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

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

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y N U N/A
Rear side has hairline cracks at 2", 9", 13.5", 20", and 26" from north end. All cracks are less than 1/16" wide. The largest crack is at 20". The cracks are likely through a second pour in a cavity that was excavated for embedded anchorage.

ATTACHMENT 9.6**SEISMIC WALKDOWN CHECKLIST FORM**

Sheet 2 of 5

Status: Y N U **Seismic Walkdown Checklist (SWC) SWEL1-433**Equipment ID No. 71-10560 Equip. Class Medium Voltage, Metal-clad SwitchgearEquipment Description 4160V Switchgear Distribution (Bus 10500)

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

Interaction Effects

7. Are soft targets free from impact by nearby equipment or structures? Y N U N/A
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?
Fluorescent light at rear of unit could potentially come unhooked at one end. However, to impact 71-10560, significant out-of-plane pendulum motion would have to occur. This is not a credible scenario. Therefore, no adverse seismic interaction effect. Y N U N/A
9. Do attached lines have adequate flexibility to avoid damage? Y N U N/A
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y N U

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 3 of 5

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1- 433

Equipment ID No. 71-10560 Equip. Class Medium Voltage, Metal-clad Switchgear

Equipment Description 4160V Switchgear Distribution (Bus 10500)

Other Adverse Conditions

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

Comments (Additional pages may be added as necessary)

Evaluated by: Rich Casella Date: 10-31-12

A Porch A.C. Dunch 10-31-12

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 4 of 5

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1- 433

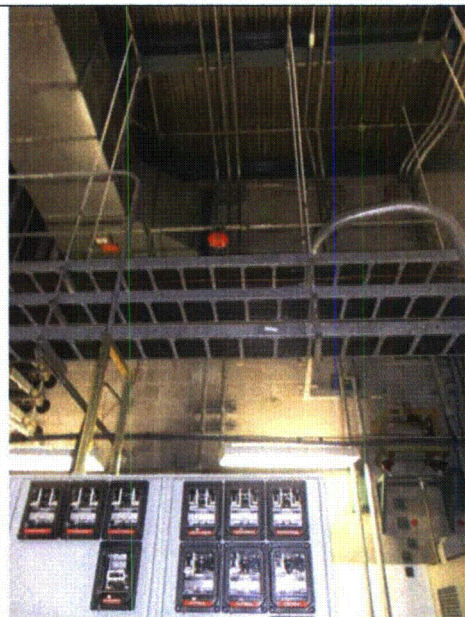
Equipment ID No. 71-10560 Equip. Class Medium Voltage, Metal-clad Switchgear

Equipment Description 4160V Switchgear Distribution (Bus 10500)

Photographs



Note: 71-10560



Note: Conduits, ducts, and cable trays above 71-10560

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 5 of 5

Status: Y N U

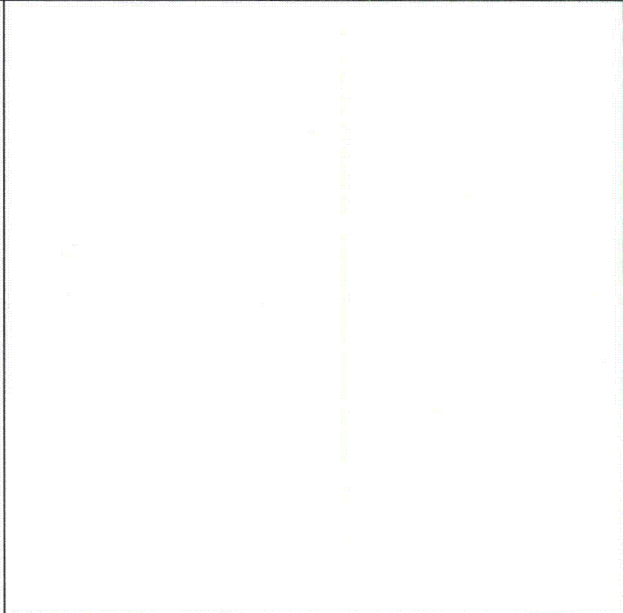
Seismic Walkdown Checklist (SWC) SWEL1- 433

Equipment ID No. 71-10560 Equip. Class Medium Voltage, Metal-clad Switchgear

Equipment Description 4160V Switchgear Distribution (Bus 10500)



Note: Crack in grouting at rear of 71-10560



Note:

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 1 of 5

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1- 434

Equipment ID No. 71-10602 Equip. Class Medium Voltage, Metal-clad Switchgear

Equipment Description 4160V Switchgear Distribution (Bus 10600)

Location: Bldg. EG Floor El. 272 Room, Area Col 26 line A1

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

Instructions for Completing Checklist

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

Anchorage

- 1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y N
- 2. Is the anchorage free of bent, broken, missing or loose hardware? Y N U N/A
The anchorage is free of bent broken, missing or loose hardware.
- 3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y N U N/A
No corrosion evident.
- 4. Is the anchorage free of visible cracks in the concrete near the anchors? Y N U N/A
No cracks are visible.

ATTACHMENT 9.6**SEISMIC WALKDOWN CHECKLIST FORM**

Sheet 2 of 5

Status: Y N U **Seismic Walkdown Checklist (SWC) SWEL1-434**Equipment ID No. 71-10602 Equip. Class Medium Voltage, Metal-clad SwitchgearEquipment Description 4160V Switchgear Distribution (Bus 10600)

5. Is the anchorage configuration consistent with plant documentation?
(Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)
The anchorage configuration is consistent with SEWS for 71-10602, and vendor DWG. No. 0673D0516. Y N U N/A
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y N U

Interaction Effects

7. Are soft targets free from impact by nearby equipment or structures?
The equipment is free from impact by nearby equipment. Y N U N/A
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?
Fluorescent light at rear of unit could potentially come unhooked at one end allowing it to swing into the panel near its top (Out of plane motion). Based on a low g level and low mass of a aluminum light frame, impact loading would not cause adverse seismic condition at the panel. Also to impact 71-10602, significant out-of-plane pendulum motion would have to occur. This is not a credible scenario. Therefore, No credible seismic interaction. Y N U N/A
9. Do attached lines have adequate flexibility to avoid damage?
The attached lines have adequate flexibility. Y N U N/A
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y N U

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 3 of 5

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1- 434

Equipment ID No. 71-10602 Equip. Class Medium Voltage, Metal-clad Switchgear


Equipment Description 4160V Switchgear Distribution (Bus 10600)

Other Adverse Conditions

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

Comments (Additional pages may be added as necessary)

Evaluated by: Pouria Pourghobadi



Date: 09-27-12

Donald Kolberg



09-27-12

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 4 of 5

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1- 434

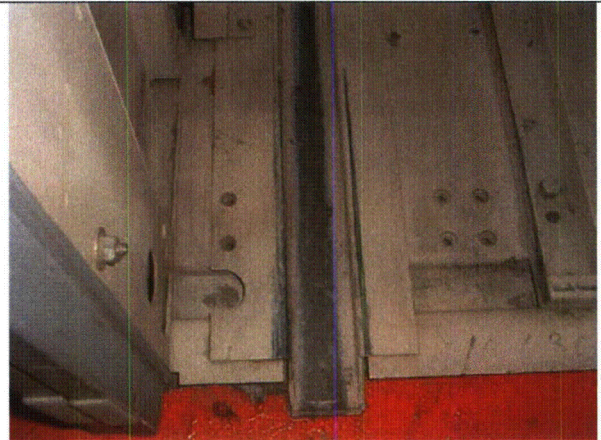
Equipment ID No. 71-10602 Equip. Class Medium Voltage, Metal-clad Switchgear

Equipment Description 4160V Switchgear Distribution (Bus 10600)

Photographs



Note: 71-10602 anchorage configuration.



Note: 71-10602 plug welds

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

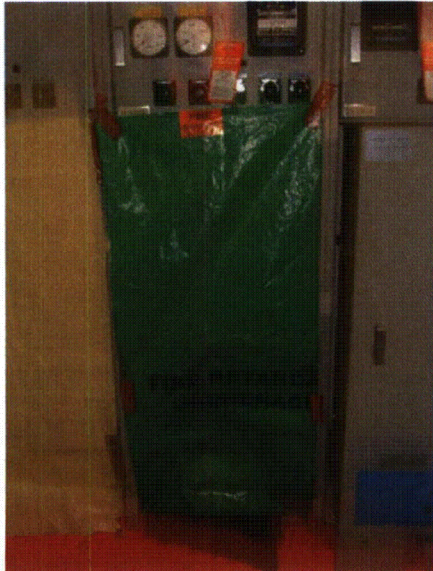
Sheet 5 of 5

Status: Y N U

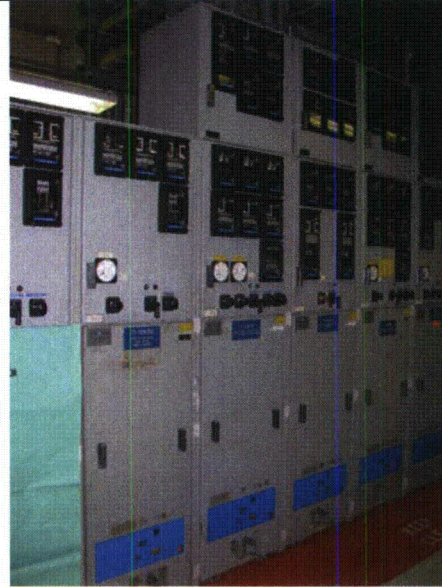
Seismic Walkdown Checklist (SWC) SWEL1- 434

Equipment ID No. 71-10602 Equip. Class Medium Voltage, Metal-clad Switchgear

Equipment Description 4160V Switchgear Distribution (Bus 10600)



Note: 71-10602



Note: 71-10602

ATTACHMENT 9.6**SEISMIC WALKDOWN CHECKLIST FORM**

Sheet 1 of 4

Status: Y N U **Seismic Walkdown Checklist (SWC) SWEL1- 436**Equipment ID No. 71-10614 Equip. Class Medium Voltage, Metal-clad SwitchgearEquipment Description 4160V Switchgear Distribution (Bus 10600)Location: Bldg. EG Floor El. 272 Room, Area Col 26 line A1

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

Instructions for Completing Checklist

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

Anchorage

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

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

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

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

ATTACHMENT 9.6**SEISMIC WALKDOWN CHECKLIST FORM**

Sheet 2 of 4

Status: Y N U **Seismic Walkdown Checklist (SWC) SWEL1- 436**Equipment ID No. 71-10614 Equip. Class Medium Voltage, Metal-clad SwitchgearEquipment Description 4160V Switchgear Distribution (Bus 10600)

5. Is the anchorage configuration consistent with plant documentation? Y N U N/A
 (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)
The anchorage configuration is consistent with SEWS for 71-10614 and vendor DWG. No.0673D0517.
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y N U

Interaction Effects

7. Are soft targets free from impact by nearby equipment or structures? Y N U N/A
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y N U N/A
 Fluorescent light at rear of unit could potentially come unhooked at one end allowing it to swing into the panel near its top (out of plane motion). Based on a low g level and low mass of a aluminum light frame, impact loading would not cause adverse seismic condition at the panel. Also to impact 71-10614, significant out-of-plane pendulum motion would have to occur. This is not a credible scenario.
9. Do attached lines have adequate flexibility to avoid damage? Y N U N/A
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y N U

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 3 of 4

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1- 436

Equipment ID No. 71-10614 Equip. Class Medium Voltage, Metal-clad Switchgear

Equipment Description 4160V Switchgear Distribution (Bus 10600)

Other Adverse Conditions

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

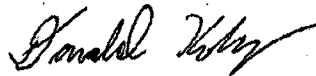
Comments (Additional pages may be added as necessary)

Evaluated by: Pouria Pourghobadi



Date: 09-27-12

Donald Kolberg



09-27-12

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 4 of 4

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1- 436

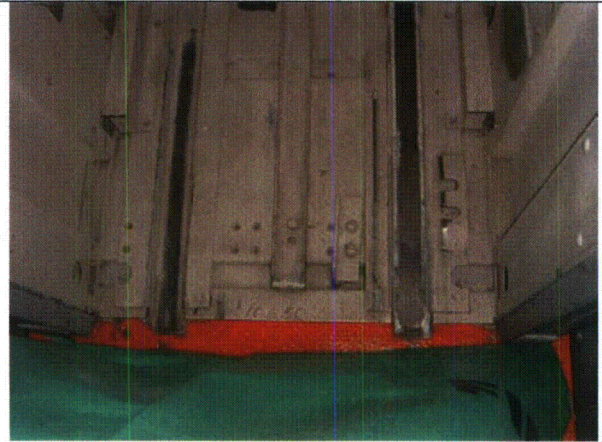
Equipment ID No. 71-10614 Equip. Class Medium Voltage, Metal-clad Switchgear

Equipment Description 4160V Switchgear Distribution (Bus 10600)

Photographs



Note: 71-10614 anchorage configuration.



Note: 71-10614 plug welds

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 1 of 4

Status: Y N U Seismic Walkdown Checklist (SWC) SWEL1-437Equipment ID No. 71-10660 Equip. Class Medium Voltage, Metal-clad SwitchgearEquipment Description 4160V Switchgear Distribution (Bus 10600)Location: Bldg. EG Floor El. 272 Room, Area Col 26 line A1

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

Instructions for Completing Checklist

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

Anchorage

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

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

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

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

ATTACHMENT 9.6**SEISMIC WALKDOWN CHECKLIST FORM**

Sheet 2 of 4

Status: Y N U **Seismic Walkdown Checklist (SWC) SWEL1- 437**Equipment ID No. 71-10660 Equip. Class Medium Voltage, Metal-clad SwitchgearEquipment Description 4160V Switchgear Distribution (Bus 10600)

5. Is the anchorage configuration consistent with plant documentation? Y N U N/A
 (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)
The anchorage configuration is consistent with SEWS for 71-10660 and vendor DGW. No. 0673D0518
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y N U

Interaction Effects

7. Are soft targets free from impact by nearby equipment or structures? Y N U N/A
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y N U N/A
 Fluorescent light at rear of unit could potentially come unhooked at one end allowing it to swing into the panel near its top (out of plane motion). Based on a low g level and low mass of a aluminum light frame, impact loading would not cause adverse seismic condition at the panel. Also to impact 71-10660, significant out-of-plane pendulum motion would have to occur. This is not a credible scenario.
9. Do attached lines have adequate flexibility to avoid damage? Y N U N/A
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y N U

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 3 of 4

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1- 437


Equipment ID No. 71-10660 Equip. Class Medium Voltage, Metal-clad Switchgear


Equipment Description 4160V Switchgear Distribution (Bus 10600)

Other Adverse Conditions

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

Comments (Additional pages may be added as necessary)

Evaluated by: Pouria Pourghobadi  Date: 09-27-12

Donald Kolberg  09-27-12

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 4 of 4

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1- 437

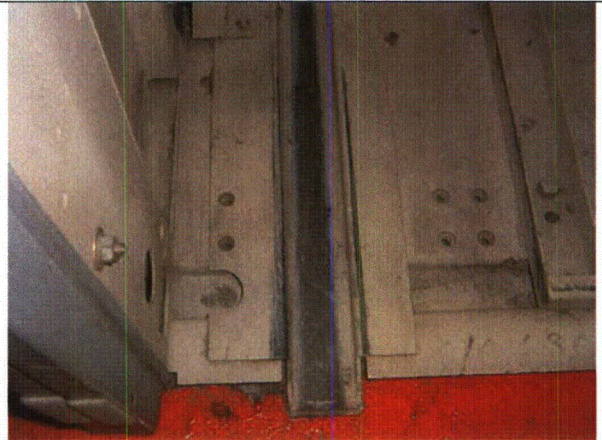
Equipment ID No. 71-10660 Equip. Class Medium Voltage, Metal-clad Switchgear

Equipment Description 4160V Switchgear Distribution (Bus 10600)

Photographs



Note: 71-10660



Note: 71-10660 plug welds

ATTACHMENT 9.6**SEISMIC WALKDOWN CHECKLIST FORM**

Sheet 1 of 5

Status: Y N U **Seismic Walkdown Checklist (SWC) SWEL1- 438**Equipment ID No. 71-11502 Equip. Class¹ 2 Low Voltage Switch gear and Breaker PanelEquipment Description 600V Switchgear Distribution (Bus 11500) BKR 02Location: Bldg. RB Floor El. 300 Room, Area Col 2 Line R

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

Instructions for Completing Checklist

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

Anchorage

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y N
2. Is the anchorage free of bent, broken, missing or loose hardware? Y N U N/A
3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y N U N/A
4. Is the anchorage free of visible cracks in the concrete near the anchors? Y N U N/A

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

ATTACHMENT 9.6**SEISMIC WALKDOWN CHECKLIST FORM**

Sheet 2 of 5

Status: Y N U **Seismic Walkdown Checklist (SWC) SWEL1- 438**Equipment ID No. 71-11502 Equip. Class 2 Low Voltage Switch gear and Breaker PanelEquipment Description 600V Switchgear Distribution (Bus 11500) BKR 02

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

Interaction Effects

7. Are soft targets free from impact by nearby equipment or structures?
No soft targets. Y N U N/A
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y N U N/A
9. Do attached lines have adequate flexibility to avoid damage? Y N U N/A
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y N U

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 3 of 5

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1- 438

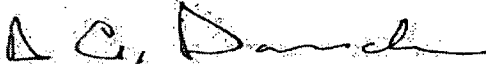
Equipment ID No. 71-11502 Equip. Class 2 Low Voltage Switch gear and Breaker Panel

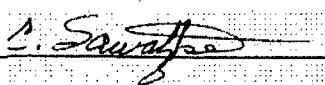
Equipment Description 600V Switchgear Distribution (Bus 11500) BKR 02

Other Adverse Conditions

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

Comments (Additional pages may be added as necessary)

Evaluated by: A. Porch  Date: 10/31/2012

C. Swatzke  10/31/2012

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 4 of 5

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1- 438

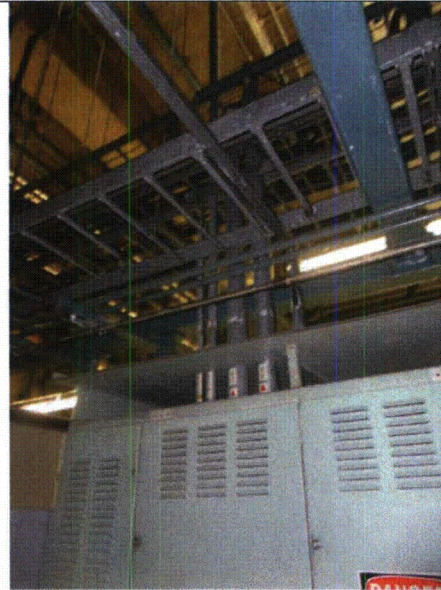
Equipment ID No. 71-11502 Equip. Class 2 Low Voltage Switch gear and Breaker Panel

Equipment Description 600V Switchgear Distribution (Bus 11500) BKR 02

Photographs



Note: 71-11502



Note: 71-11502

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

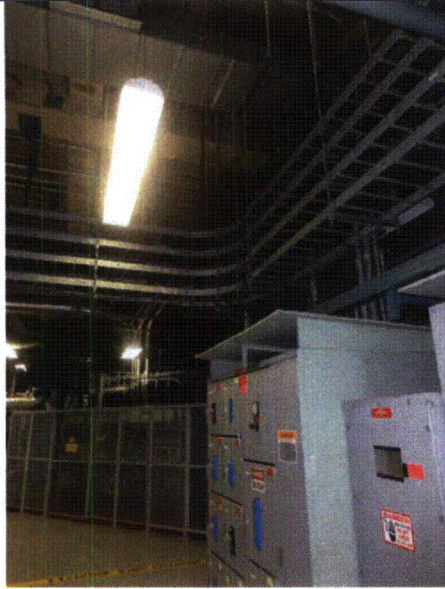
Sheet 5 of 5

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1- 438

Equipment ID No. 71-11502 Equip. Class 2 Low Voltage Switch gear and Breaker Panel

Equipment Description 600V Switchgear Distribution (Bus 11500) BKR 02



Note: 71-11502

Note: *Hairline crack near 71-11502*

ATTACHMENT 9.6**SEISMIC WALKDOWN CHECKLIST FORM**

Sheet 1 of 5

Status: Y N U **Seismic Walkdown Checklist (SWC) SWEL1- 439**Equipment ID No. 71-11602 Equip. Class: 2 Low Voltage Switch gear and Breaker PanelEquipment Description 600V Switchgear Distribution (Bus 11600) BKR 02Location: Bldg. RB Floor El. 300 Room, Area Col 6 Line R

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

Instructions for Completing Checklist

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

Anchorage

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y N
2. Is the anchorage free of bent, broken, missing or loose hardware? Y N U N/A
3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y N U N/A
4. Is the anchorage free of visible cracks in the concrete near the anchors? Y N U N/A

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

ATTACHMENT 9.6**SEISMIC WALKDOWN CHECKLIST FORM**

Sheet 2 of 5

Status: Y N U **Seismic Walkdown Checklist (SWC) SWEL1- 439**Equipment ID No. 71-11602 Equip. Class 2 Low Voltage Switch gear and Breaker PanelEquipment Description 600V Switchgear Distribution (Bus 11600) BKR 02

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

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

Interaction Effects

7. Are soft targets free from impact by nearby equipment or structures? Y N U N/A
 No soft targets.

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

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

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

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 3 of 5

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1- 439

Equipment ID No. 71-11602 Equip. Class 2 Low Voltage Switch gear and Breaker Panel

Equipment Description 600V Switchgear Distribution (Bus 11600) BKR 02

Other Adverse Conditions

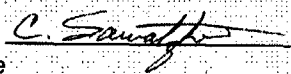
11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? Y N U

Comments (Additional pages may be added as necessary)

Communication cable above and north of unit is lightweight and well supported.



Evaluated by: A. G. Porch Date: 10/31/2012



C. Sawatzke 10/31/2012

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 4 of 5

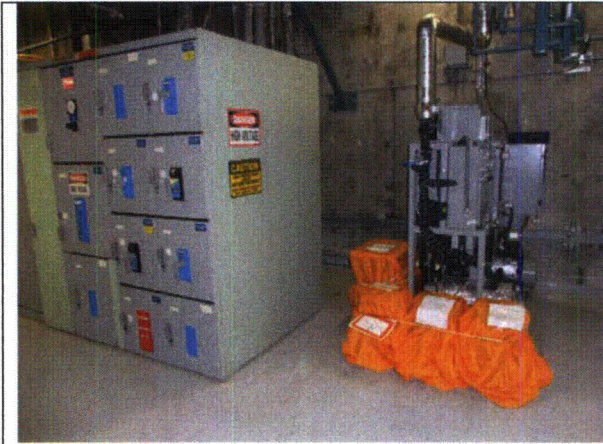
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Seismic Walkdown Checklist (SWC) SWEL1- 439

Equipment ID No. 71-11602 Equip. Class 2 Low Voltage Switch gear and Breaker Panel

Equipment Description 600V Switchgear Distribution (Bus 11600) BKR 02

Photographs



Note: 71-11602



Note: 71-11602

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 5 of 5

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1- 439

Equipment ID No. 71-11602 Equip. Class 2 Low Voltage Switch gear and Breaker Panel

Equipment Description 600V Switchgear Distribution (Bus 11600) BKR 02



Note: 71-11602

Note:

ATTACHMENT 9.6**SEISMIC WALKDOWN CHECKLIST FORM**

Sheet 1 of 5

Status: Y N U **Seismic Walkdown Checklist (SWC) SWEL1-444**Equipment ID No. 71ACB4 Equip. Class¹ 14 – Distribution PanelsEquipment Description EDG Building Emergency Power Distribution PanelLocation: Bldg. EG Floor El. 272 Room, Area Col. 26, Line A

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

Instructions for Completing Checklist

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

Anchorage

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y N
2. Is the anchorage free of bent, broken, missing or loose hardware? Y N U N/A
Anchorage is free of bent, broken, missing or loose hardware.
3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y N U N/A
Anchorage is free of corrosion that is more than mild surface oxidation.
4. Is the anchorage free of visible cracks in the concrete near the anchors? Y N U N/A
Anchorage is free of visible cracks in the concrete near the anchors.

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

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 2 of 5

Status: Y N U Seismic Walkdown Checklist (SWC) SWEL1-444Equipment ID No. 71ACB4 Equip. Class 14 – Distribution PanelsEquipment Description EDG Building Emergency Power Distribution Panel

5. Is the anchorage configuration consistent with plant documentation? Y N U N/A
 (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)
The anchorage configuration is consistent with SEWS for 71ACB4 (Rev. 0). The Distribution panel is 14" wide x 33" high x 5" deep and is bolted by 4 1/2" bolts to a pair of unistruts.
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y N U

Interaction Effects

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

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 3 of 5

Status: Y N U Seismic Walkdown Checklist (SWC) SWEL1-444Equipment ID No. 71ACB4 Equip. Class 14 – Distribution PanelsEquipment Description EDG Building Emergency Power Distribution Panel**Other Adverse Conditions**

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

Comments (Additional pages may be added as necessary)

Tool cart with no locked wheels or any chain is present near the panel. It was judged not to be a credible seismic condition considering the height of the cart and the elevation of the component. Site personnel were notified immediately.

Evaluated by: Donald KobergDate: 9/27/12Pouria Pourghobadi9/27/12

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 4 of 5

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-444

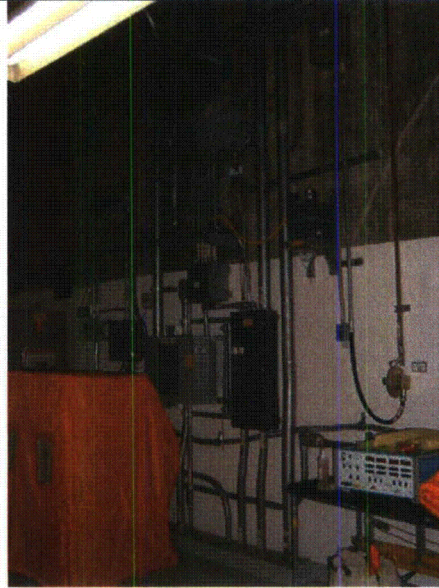
Equipment ID No. 71ACB4 Equip. Class 14 – Distribution Panels

Equipment Description EDG Building Emergency Power Distribution Panel

Photographs



Note: 71ACB4 Distribution Panel



Note: Room View.

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 5 of 5

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-444

Equipment ID No. 71ACB4 Equip. Class 14 – Distribution Panels

Equipment Description EDG Building Emergency Power Distribution Panel



Note: *Cart with unlocked wheels and no other attachments. 71ACB4 is in the background.*

Note:

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 1 of 4

Status: Y N U Seismic Walkdown Checklist (SWC) SWEL1-445Equipment ID No. 71ACUPS Equip. Class¹ 14 - Distribution PanelsEquipment Description Relay Room Uninterruptable Bus Distribution PanelLocation: Bldg. RR Floor El. 284.8 Room, Area Col. 11, Line F

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

Instructions for Completing Checklist

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

Anchorage

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

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

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

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y N U N/A
The component is mounted on unistruts which are welded to the steel column I-beam.

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

ATTACHMENT 9.6**SEISMIC WALKDOWN CHECKLIST FORM**

Sheet 2 of 4

Status: Y N U **Seismic Walkdown Checklist (SWC) SWEL1-445**Equipment ID No. 71ACUPS Equip. Class 14 – Distribution PanelsEquipment Description Relay Room Uninterruptable Bus Distribution Panel

5. Is the anchorage configuration consistent with plant documentation? Y N U N/A
 (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)
The anchorage configuration is consistent with the SEWS for 71ACUPS (Rev. 0). The panel is bolted to a pair of Unistruts which are welded to building steel.
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y N U

Interaction Effects

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

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 3 of 4

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-445

Equipment ID No. 71ACUPS Equip. Class 14 – Distribution Panels

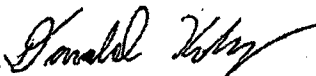
Equipment Description Relay Room Uninterruptable Bus Distribution Panel

Other Adverse Conditions

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

Comments (Additional pages may be added as necessary)

Evaluated by: Donald Koberg



Date: 9/24/12

Pouria Pourghobadi



9/24/12

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 4 of 4

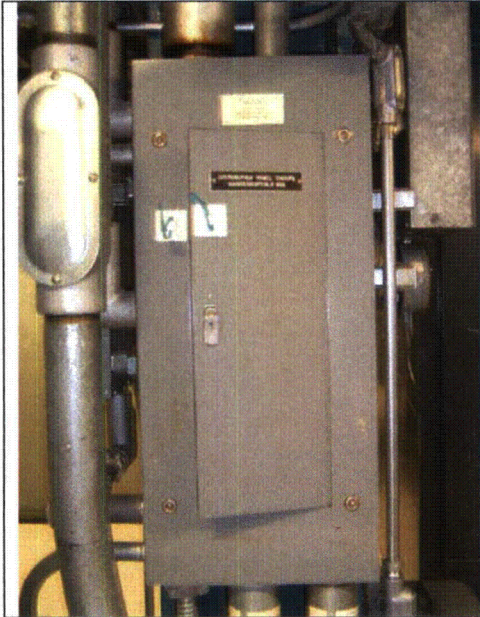
Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-445

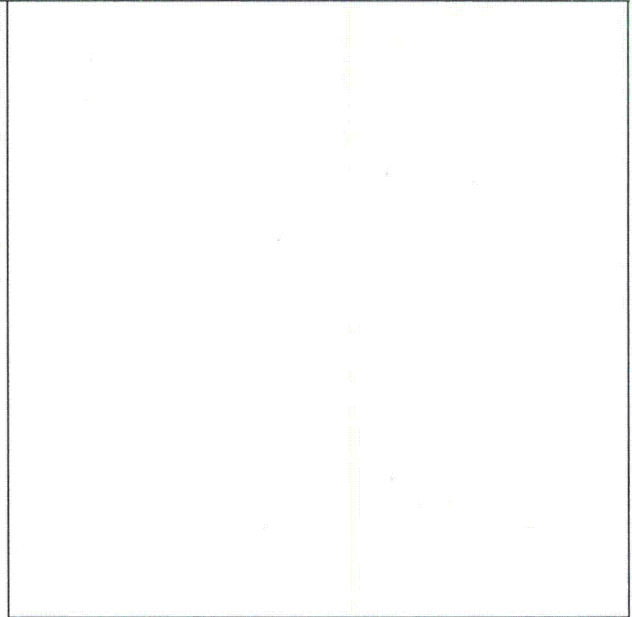
Equipment ID No. 71ACUPS Equip. Class 14 – Distribution Panels

Equipment Description Relay Room Uninterruptable Bus Distribution Panel

Photographs



Note: 71ACUPS Panel



Note:

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 1 of 4

Status: Y N U Seismic Walkdown Checklist (SWC) SWEL1-446Equipment ID No. 71BAT-3A Equip. Class¹ 16-Battery Chargers and Inverters.Equipment Description LPCI Inverter BatteryLocation: Bldg. RB Floor El. 344.6' Room, Area LPCI Battery Room, Col.5.5, Line R

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

Instructions for Completing Checklist

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

Anchorage

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y N
The item is one of the 50% of SWEL items requiring anchorage configuration verification.
2. Is the anchorage free of bent, broken, missing or loose hardware? Y N U N/A
The 1/2" expansion anchors are free of bent, broken, missing or loose hardware.
Panels need to be removed and anchorage of internal components needs to be checked.
3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y N U N/A
Anchorage is free of corrosion that is more than mild surface oxidation.
4. Is the anchorage free of visible cracks in the concrete near the anchors? Y N U N/A
There are hair line cracks in the concrete which are insignificant to the strength of the anchors.

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

ATTACHMENT 9.6**SEISMIC WALKDOWN CHECKLIST FORM**

Sheet 2 of 4

Status: Y N U **Seismic Walkdown Checklist (SWC) SWEL1-446**Equipment ID No. 71BAT-3A Equip. Class 16-Battery Chargers and Inverters.Equipment Description LPCI Inverter Battery

5. Is the anchorage configuration consistent with plant documentation? Y N U N/A
 (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)
The 1/2" expansion anchors are configured in accordance with the SEWS document for equipment 71BAT-3A, Rev. 0.
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y N U
Inverters panels need to be removed and anchorage of internal components needs to be checked.

Interaction Effects

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

ATTACHMENT 9.6**SEISMIC WALKDOWN CHECKLIST FORM**

Sheet 3 of 4

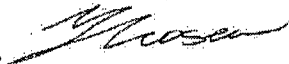
Status: Y N U Seismic Walkdown Checklist (SWC) SWEL1-446Equipment ID No. 71BAT-3A Equip. Class 16-Battery Chargers and Inverters.Equipment Description LPCI Inverter Battery**Other Adverse Conditions**

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

No other seismic conditions that could adversely affect the safety functions of the equipment in the area were found.

Comments (Additional pages may be added as necessary)

There is no equipment tag on any of the walls in the room or on the equipment itself. The need to add equipment tag to identify the battery racks was brought to site personnel's attention. Site personnel were notified and the matter was discussed with Operations and it was indicated that appropriate tags are located on control panels out site of the room. No further action required.

Evaluated by: Harpreet GhumanDate: 09/30/2012Yaroslav Losev09/30/2012

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 4 of 4

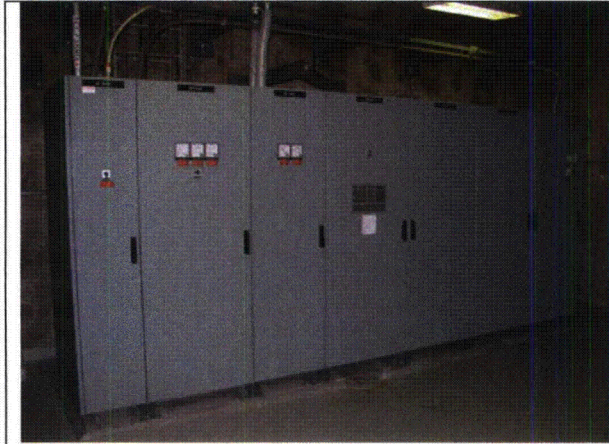
Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-446

Equipment ID No. 71BAT-3A Equip. Class 16-Battery Chargers and Inverters.

Equipment Description LPCI Inverter Battery

Photographs



Note: *Picture of equipment 71BAT-3A.*

Note:

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 1 of 5

Status: Y N U Seismic Walkdown Checklist (SWC) SWEL1- 448Equipment ID No. 71BC-1A Equip. Class 16 - Battery Chargers and InvertersEquipment Description 125VDC Station Battery ChargerLocation: Bldg. BR Floor El. 272 Room, Area 12.5 E

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

Instructions for Completing Checklist

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

Anchorage

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

2. Is the anchorage free of bent, broken, missing or loose hardware? Y N U N/A
*The external bolting of cabinet contains all necessary hardware
The panels need to be opened and anchorage of internal components needs to be checked.*

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y N U N/A
The bolting shows signs of oxidation. However, the oxidation is mild and not a structural concern

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y N U N/A
Cracking in grout around bolts. However, based on review of SEWs the bolts are connected to a steel plate which cannot be visually verified. Conclusion – Grout cracking has no impact on seismic capacity of anchorage.

ATTACHMENT 9.6**SEISMIC WALKDOWN CHECKLIST FORM**

Sheet 2 of 5

Status: Y N U **Seismic Walkdown Checklist (SWC) SWEL1- 448**Equipment ID No. 71BC-1A Equip. Class 16 - Battery Chargers and InvertersEquipment Description 125VDC Station Battery Charger

5. Is the anchorage configuration consistent with plant documentation? Y N U N/A
(Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)
(associated SEWS sheet)
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y N U
The panels need to be opened and anchorage of internal components needs to be checked.
-

Interaction Effects

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

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 3 of 5

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1- 448

Equipment ID No. 71BC-1A Equip. Class 16 - Battery Chargers and Inverters

Equipment Description 125VDC Station Battery Charger

Other Adverse Conditions

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

Comments (Additional pages may be added as necessary)

The panels for this item need to be opened and internal anchorage of the components need to be checked.

Evaluated by: Rick Casella Date: 10/30/12

Al Porch 10/30/12

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 4 of 5

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1- 448

Equipment ID No. 71BC-1A Equip. Class 16 - Battery Chargers and Inverters

Equipment Description 125VDC Station Battery Charger

Photographs



Note: 71BC-1A



Note: 71BC-1A anchorage

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 5 of 5

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1- 448

Equipment ID No. 71BC-1A Equip. Class 16 - Battery Chargers and Inverters

Equipment Description 125VDC Station Battery Charger



Note: 71BC-1A anchorage showing grout cracking

Note:

ATTACHMENT 9.6**SEISMIC WALKDOWN CHECKLIST FORM**

Sheet 1 of 5

Status: Y N U **Seismic Walkdown Checklist (SWC) SWEL1- 450**Equipment ID No. 71BCB-2A Equip. Class 14 - Distrubution Panels and Auomatic Transfer SwitchesEquipment Description Battery A Control BoardLocation: Bldg. BR Floor El. 272 Room, Area 13 C

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

Instructions for Completing Checklist

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

Anchorage

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

2. Is the anchorage free of bent, broken, missing or loose hardware? Y N U N/A
*The anchorage contains all necessary hardware
Panels need to be removed and anchorage of internal components needs to be checked.*

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y N U N/A
Mild surface oxidation and mild paint chipping was observed - no structural concern

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

ATTACHMENT 9.6**SEISMIC WALKDOWN CHECKLIST FORM**

Sheet 2 of 5

Status: Y N U **Seismic Walkdown Checklist (SWC) SWEL1- 450**Equipment ID No. 71BCB-2A Equip. Class 14 - Distrubution Panels and Auomatic Transfer SwitchesEquipment Description Battery A Control Board

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.)
(Ref. DSK-71U, associated SEWS sheet) Y N U N/A
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?
Panels need to be removed and anchorage of internal components needs to be checked. Y N U

Interaction Effects

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

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 3 of 5

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1- 450

Equipment ID No. 71BCB-2A Equip. Class 14 - Distribution Panels and Automatic Transfer Switches

Equipment Description Battery A Control Board

Other Adverse Conditions

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

Comments (Additional pages may be added as necessary)

Evaluated by: Rick Casella

Rick Casella

Date: 10/30/12

Al Porch

Al Porch

10/30/12

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 4 of 5

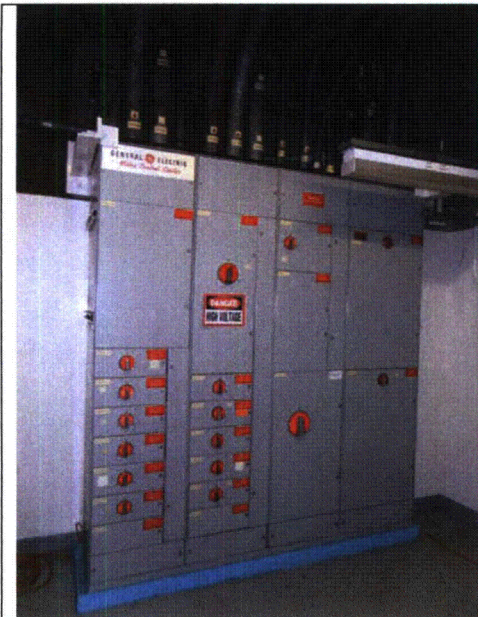
Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1- 450

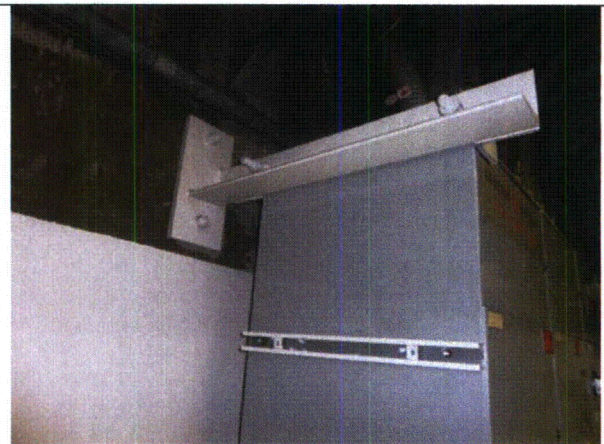
Equipment ID No. 71BCB-2A Equip. Class 14 - Distrubution Panels and Auomatic Transfer Switches

Equipment Description Battery A Control Board

Photographs



Note: 71BCB-2A



Note: 71BCB-2A (note support added at top of unit based on SEWS A-46 evaluation)

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 5 of 5

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1- 450

Equipment ID No. 71BCB-2A Equip. Class 14 - Distrubution Panels and Auomatic Transfer Switches

Equipment Description Battery A Control Board



Note: 71BCB-2A anchorage (note panel bolted to channel)



Note: 71BCB-2A (note intermittent fillet welds connecting channel to steel)

ATTACHMENT 9.6**SEISMIC WALKDOWN CHECKLIST FORM**

Sheet 1 of 5

Status: Y N U **Seismic Walkdown Checklist (SWC) SWEL1-452**Equipment ID No. 71BMCC-1 Equip. Class¹ 1- Motor Control CenterEquipment Description Reactor building West Crescent Motor Control CenterLocation: Bldg. RB Floor El. 242' Room, Area Col / Line 1R

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

Instructions for Completing Checklist

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

Anchorage

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y N
2. Is the anchorage free of bent, broken, missing or loose hardware? Y N U N/A
No bent, broken, loose or missing hardware.
3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y N U N/A
Mild surface rust on painted anchorage brackets
4. Is the anchorage free of visible cracks in the concrete near the anchors? Y N U N/A
No concrete in area

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

ATTACHMENT 9.6**SEISMIC WALKDOWN CHECKLIST FORM**

Sheet 2 of 5

Status: Y N U **Seismic Walkdown Checklist (SWC) SWEL1-452**Equipment ID No. 71BMCC-1 Equip. Class 1- Motor Control CenterEquipment Description Reactor building West Crescent Motor Control Center

5. Is the anchorage configuration consistent with plant documentation? Y N U N/A
 (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)
The anchorage configuration matches the descriptions on SEWS for 71BMCC-1
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y N U

Interaction Effects

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

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 3 of 5

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-452

Equipment ID No. 71BMCC-1 Equip. Class 1- Motor Control Center

Equipment Description Reactor building West Crescent Motor Control Center

Other Adverse Conditions

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

Comments (Additional pages may be added as necessary)

Portable HEPA unit adequately secured to rigid handrails. No credible seismic interaction.

Evaluated by: Rick Casella *Rick Casella* Date: 11/01/2012

Robert S. Kester *RSK* 11/01/2012

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 4 of 5

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-452

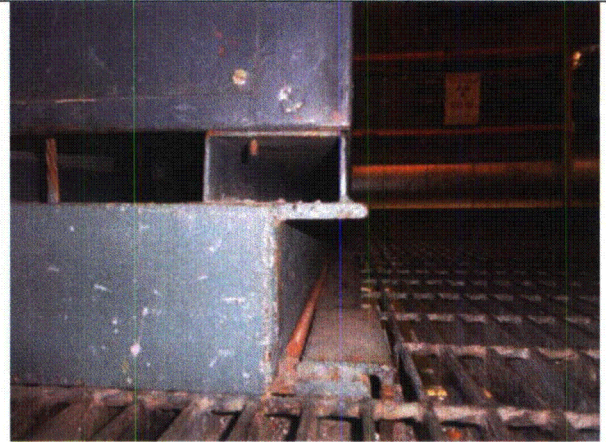
Equipment ID No. 71BMCC-1 Equip. Class 1- Motor Control Center

Equipment Description Reactor building West Crescent Motor Control Center

Photographs



Note: 71BMCC-1 Front View



Note: 71BMCC-1 Anchorage

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 5 of 5

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-452

Equipment ID No. 71BMCC-1 Equip. Class 1- Motor Control Center

Equipment Description Reactor building West Crescent Motor Control Center



Note: 71BMCC-1 From Above.

Note: