

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-074

Equipment ID No. EGA1

Equip. Class¹ 16

Equipment Description 10 KVA STATIC INVERTER #21



Note: *South-west anchor*



Note: *East anchors*

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 1 of 5

IP2

Status: Y N U **Seismic Walkdown Checklist (SWC) SWEL1-075**Equipment ID No. EGA8Equip. Class¹ 16Equipment Description 10 KVA STATIC INVERTER #23Location: Bldg. CBFloor El. 33'-0"

Room, Area _____

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 not required.

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

Anchorage of internal components to cabinet could not be inspected as operations is not allowed to open cabinet when cabinet is powered. Cabinet to be powered down and opened for internal inspection.

Anchorage of cabinet to concrete floor is external to cabinet and was inspected.

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

Yes the 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

Yes, the anchorage is free of visible cracks in the concrete near the anchor.

¹ Enter the equipment class name from EPRI 1025286, Appendix B: Classes of Equipment.

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-075

Equipment ID No. EGA8

Equip. Class¹ 16

Equipment Description 10 KVA STATIC INVERTER #23

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.)

Not applicable since component is not part of the anchorage configuration verification.

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

Yes 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

Yes 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

Block wall is seismicly qualified by Computech report No. R547.01.

Fluorescent bulbs need to be secured to fixture with wires. CR IP2-2012-06120 tracks installation of wires to tie florescent bulb to fixture. It is judged the hard target inverter will remain operable if the fluorescent bulbs were to fall on it.

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

Yes attached lines 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

Yes based on the above anchorage evaluations, the anchorage is free of potentially adverse seismic conditions.

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 3 of 5

IP2

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-075

Equipment ID No. EGA8

Equip. Class¹ 16

Equipment Description 10 KVA STATIC INVERTER #23

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

Yes we have looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment.

Comments (Additional pages may be added as necessary)

References: Drawings and AWC

Drawings: A206640, Rev 10, Arrangement of equipment in cable spreading room elev. 33'

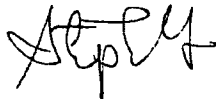
AWC-004

Evaluated by: Nick Crispell



Date: 10/11/2012

Stephen Yuan



10/11/2012

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-075

Equipment ID No. EGA8

Equip. Class¹ 16

Equipment Description 10 KVA STATIC INVERTER #23

Photographs



Note:

10 KVA Static inverter #23



Note:

Right side anchorage.

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-075

Equipment ID No. EGA8

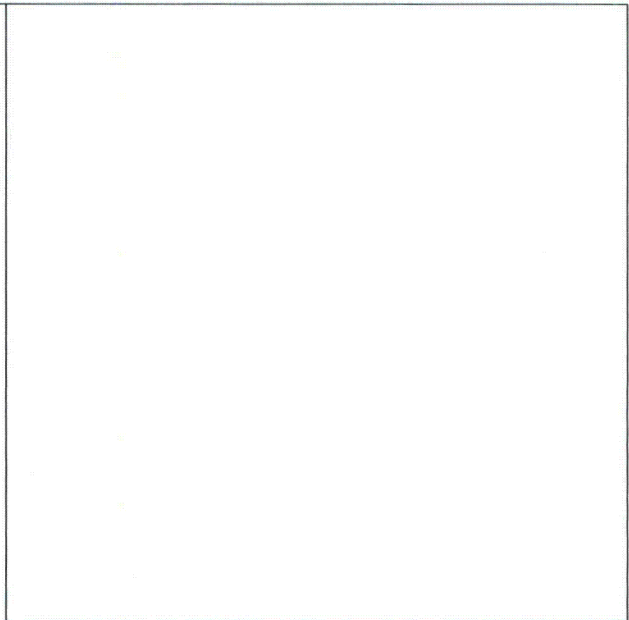
Equip. Class¹ 16

Equipment Description 10 KVA STATIC INVERTER #23



Note:

Left side anchorage.



Note:

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-076

Equipment ID No. 21EDG

Equip. Class¹ 17

Equipment Description DIESEL GENERATOR NO. 21

Location: Bldg. EDG

Floor El. 72'-0"

Room, Area _____

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

Yes the anchorage configuration verification is required.

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

Anchorage of components internal to cabinets attached to diesel where not examined. Opening cabinets attached to EDG's needs to be scheduled for the next diesel generator outage. Internals are to be inspected when cabinets are opened.

External anchorage was inspected and is acceptable.

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

Minor surface rust. Acceptable.

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

A few minor hair like cracks. No significant structural cracks.

¹ Enter the equipment class name from EPRI 1025286, Appendix B: Classes of Equipment.

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 2 of 5

IP2

Status: Y N U Seismic Walkdown Checklist (SWC) SWEL1-076Equipment ID No. 21EDGEquip. Class¹ 17Equipment Description DIESEL GENERATOR NO. 21

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

Anchorage matches the SQUG (SEWS).

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

Yes 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

Numerious tubes touch each other. Judged OK.

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

Refer to AWC-011 for partition discussion.

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

Yes attached lines 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

Yes 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 5

IP2

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-076

Equipment ID No. 21EDG

Equip. Class¹ 17

Equipment Description DIESEL GENERATOR NO. 21

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

Yes we have looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment.

Comments (Additional pages may be added as necessary)

West lower air filters bottom clip does not hold air filter in place. Air can by-pass filter. Operations personnel fixed issue while inspection team was their. Operations CR IP2-2012-06238 issued for trend tracking resolution.

References: Drawings and AWC

Drawings: 9321-H-2250, Rev 7, Diesel generator building general arrangement plan.

9321-F-18533 (A201351), Control and diesel generator buildings foundation plan and details.

AWC-011

Evaluated by: Nick Crispell *Nick Crispell* Date: 10/15/2012

Stephen Yuan *Step Y* 10/15/2012

Dan Nuta *Dan Nuta* 10/15/2012

Status: Y N U

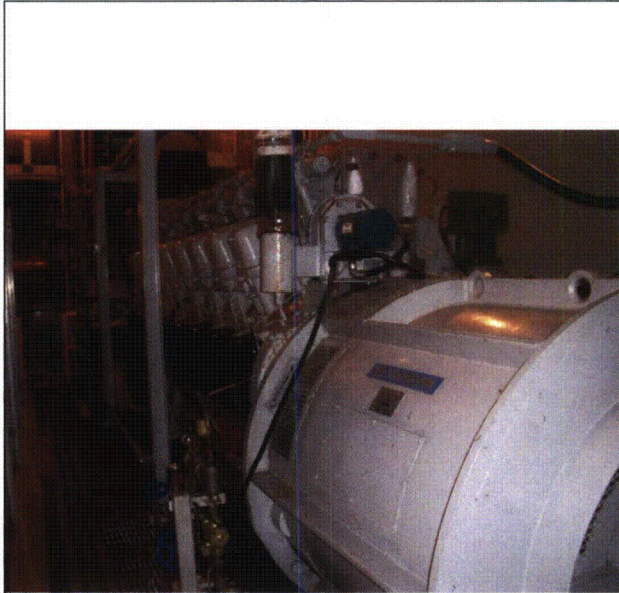
Seismic Walkdown Checklist (SWC) SWEL1-076

Equipment ID No. 21EDG

Equip. Class¹ 17

Equipment Description DIESEL GENERATOR NO. 21

Photographs



Note:

DIESEL GENERATOR NO 21.



Note:

LOWER AIR FILTER NOT FULLY LATCHED.

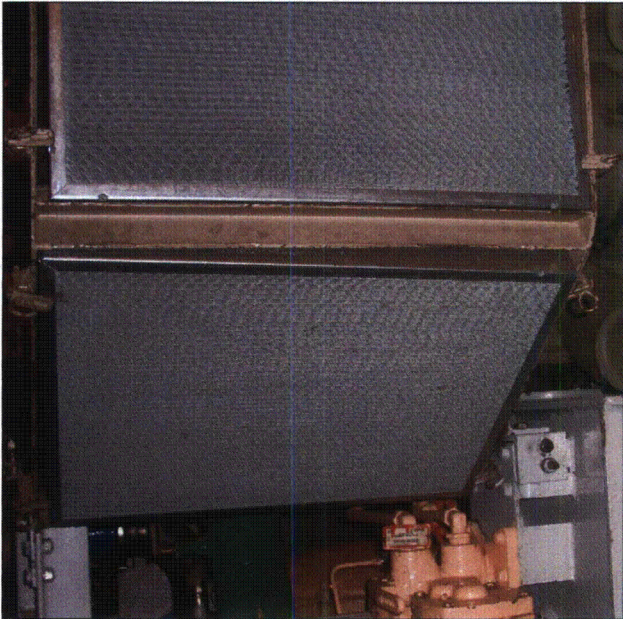
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Status: Y N U

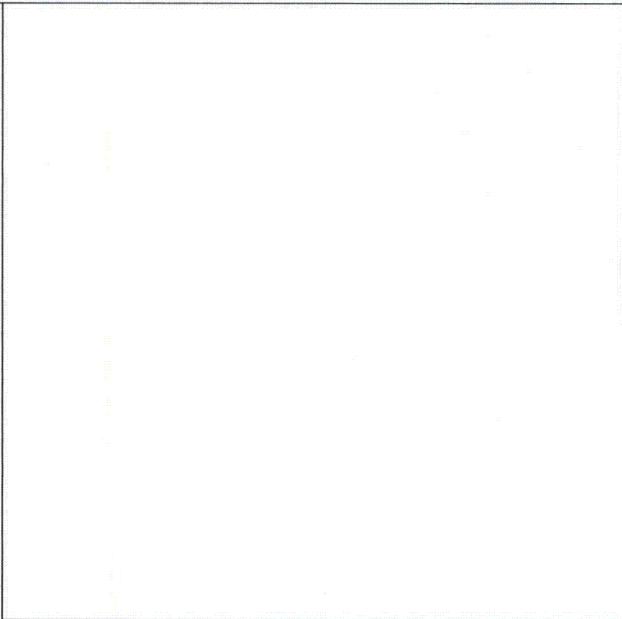
Equipment ID No. 21EDG

Equip. Class¹ 17

Equipment Description DIESEL GENERATOR NO. 21



Note:
LOWER AIR FILTER NOT FULLY LATCHED.



Note:

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-077

Equipment ID No. 0022EDG

Equip. Class¹ 17

Equipment Description DIESEL GENERATOR NO. 22

Location: Bldg. EDG

Floor El. 72'-0"

Room, Area _____

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

Yes the anchorage configuration verification is required.

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

Anchorage of components internal to cabinets attached to diesel where not examined. Opening cabinets attached to EDG's needs to be scheduled for the next diesel generator outage. Internals are to be inspected when cabinets are opened.

Southwest of the EDG near the western post of the EDG exhaust pipe there is a base plate missing 1 of 4 anchor bolt nuts. This is judged seismically adequate as this base plate was abandoned from the old EDG exhaust pipe support and now a 4" pipe bears on but is not welded to the base plate.

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

Yes the anchorage is free of corrosion that is more than mild surface oxidation.

¹ Enter the equipment class name from EPRI 1025286, Appendix B: Classes of Equipment.

ATTACHMENT 9.6**SEISMIC WALKDOWN CHECKLIST FORM**

Sheet 2 of 8

Status: Y N U **Seismic Walkdown Checklist (SWC) SWEL1-077**Equipment ID No. 0022EDGEquip. Class¹ 17Equipment Description DIESEL GENERATOR NO. 22

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

EDG Pedestal has some minor hair line cracks that are none structural. They are not near the anchors. Acceptable.

EDG exhaust pipe is supported on a post frame that also supports fuse panel for 22 Pre Lube Pump, 22 Lube oil HTR, and 22 Jacket Water HTR. This support has damaged & missing grout under the eastern post base plate. LB-11 was issued to resolve.

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

Anchorage matches the SQUG (SEWS).

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

Yes 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

A lot of tubing, hoses, etc. touch each other. All occurrences where judged acceptable. Some but not all of the occurrences are noted below.

-Fuel oil filter line DF-80 touches DF-78 on south west side of 22EDG.

-EDG DLO 13-1 EDG 22 STRNR Vent Stop Valve tubing touches pipe to 22EDLOS.

-EDG JWP-1-1 22EDG PS-1-1 and PS-5-1 stop tubing touches pipe to FE-6469 on east side of 22EDG.

-Line on west side of 22EDG to DLO-539 touches line to DF-107.

ATTACHMENT 9.6**SEISMIC WALKDOWN CHECKLIST FORM**

Sheet 3 of 8

Status: Y N U Seismic Walkdown Checklist (SWC) SWEL1-077Equipment ID No. 0022EDGEquip. Class¹ 17Equipment Description DIESEL GENERATOR NO. 22

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

Refer to AWC-011 for partition discussion.

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

Yes attached lines 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

Yes based on the above seismic interaction evaluations, the equipment is free of potentially adverse seismic interaction effects.

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

Yes we have looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment.

ATTACHMENT 9.6
Sheet 4 of 8

SEISMIC WALKDOWN CHECKLIST FORM

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-077

Equipment ID No. 0022EDG

Equip. Class¹ 17

Equipment Description DIESEL GENERATOR NO. 22

Comments (Additional pages may be added as necessary)

The following are house keeping issues and judged acceptable for seismic concerns.

Grating at valve DA-559 DG22 Starting Air Right Side supply is touching valve hand wheel. This is a non- seismic issue.

One of the roof light bulbs is out. CR IP2-2012-06515 issued to track resolution.

Minor surface rust on some threaded rods, bolts, nuts, and other components. Judged acceptable.

Flange on 22EDG JW & LO Coolers cooling WTR outlet has one out of 23 bolts flush with nut. Judged acceptable.

Latch on 22EDG Gauge board cover panel on north side is not latched. CR IP2-2012-06238 issued to track resolution.

Noted WRT 00172112 was tagged to track resolution of a leak on south east side of diesel.

Evidence of oil leaks below south side of diesel typical for all diesels in area. Judged acceptable.

References: Drawings and AWC


Drawings: 9321-H-2250, Rev 7, Diesel generator building general arrangement plan.

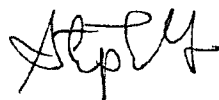
CR IP2-2012-06515

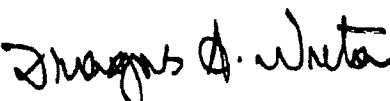
CR IP2-2012-06238

WRT 00172112

AWC-011

Evaluated by: Nick Crispell  Date: 10-15-2012

Stephen Yuan  10-15-2012

Dan Nuta  10-15-2012

Status: Y N U

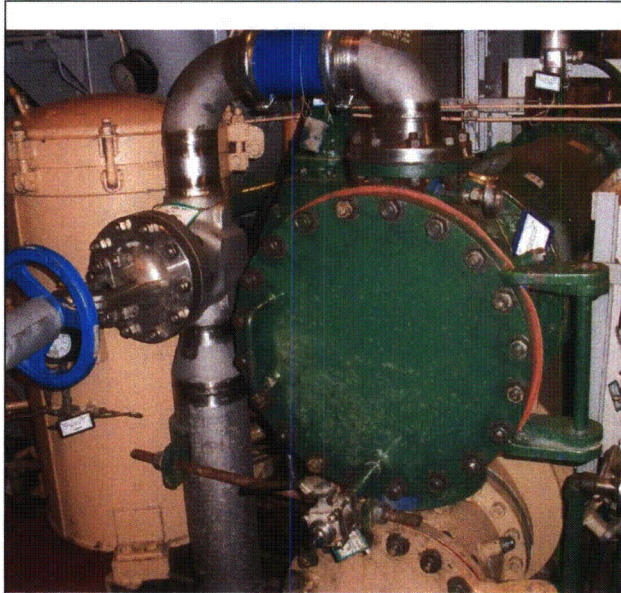
Seismic Walkdown Checklist (SWC) SWEL1-077

Equipment ID No. 0022EDG

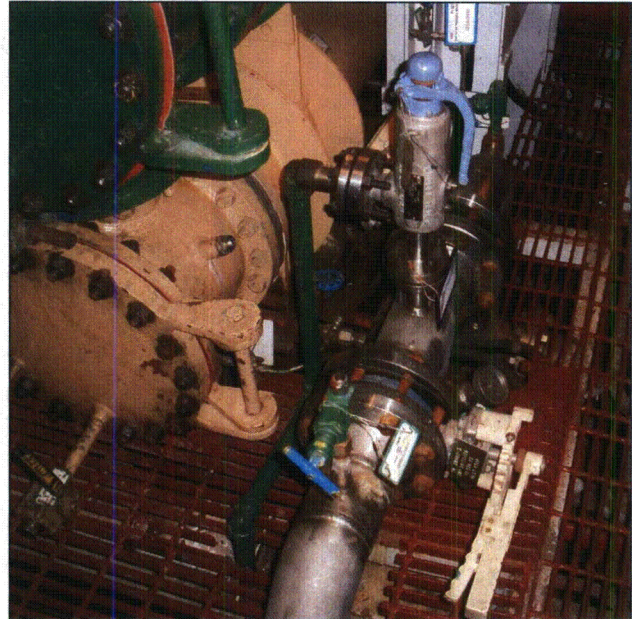
Equip. Class¹ 17

Equipment Description DIESEL GENERATOR NO. 22

Photographs



Note: Flange on 22EDG JW & LO Coolers cooling WTR outlet with flush nut and showing minor surface corrosion.



Note: Minor surface corrosion on flange couplings. Possible galvanic corrosion stainless steel pipe and carbon steel bolts.

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 6 of 8

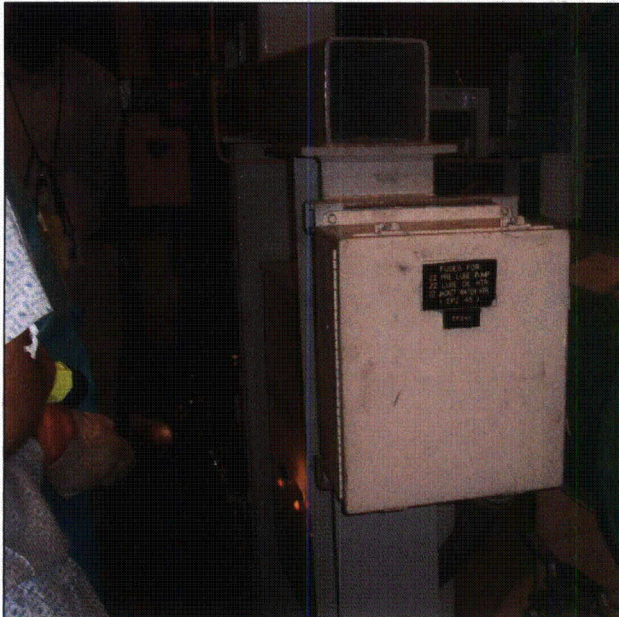
Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-077

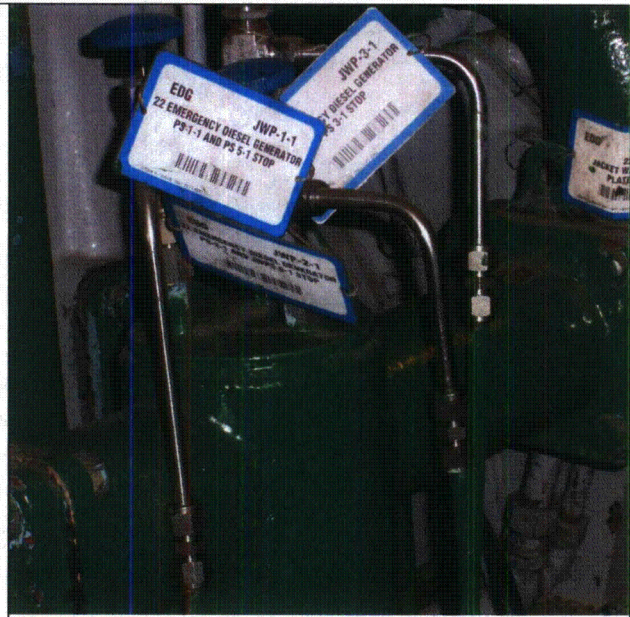
Equipment ID No. 0022EDG

Equip. Class¹ 17

Equipment Description DIESEL GENERATOR NO. 22



Note: Shows fuse panel for 22 Pre Lube Pump, 22 Lube oil HTR, and 22 Jacket Water HTR that has damaged & missing grout under the eastern (close) posts base plate.



Note: Example of tubing touching a pipe.

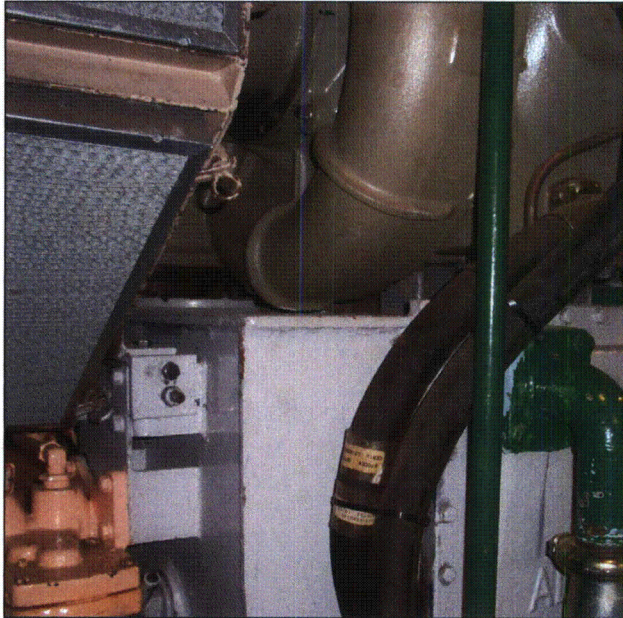
Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-077

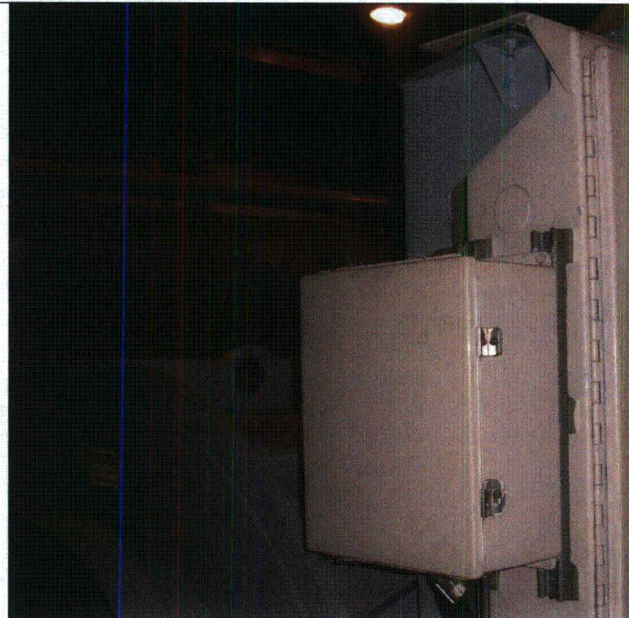
Equipment ID No. 0022EDG

Equip. Class¹ 17

Equipment Description DIESEL GENERATOR NO. 22



Note: *Example of rubber tubing touching.*



Note: *Latch on 22EDG Gauge board cover panel on north side is not latched.*

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-077

Equipment ID No. 0022EDG

Equip. Class¹ 17

Equipment Description DIESEL GENERATOR NO. 22



Note: Cracked wels on partition wall between diesels.



Note: Flimsy partition wall between diesels that needs verification of seismic design.

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-078

Equipment ID No. 0023EDG

Equip. Class¹ 17

Equipment Description DIESEL GENERATOR NO. 23

Location: Bldg. EDG

Floor El. 72'-0"

Room, Area _____

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

Instructions for Completing Checklist

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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

Yes the anchorage configuration verification is required.

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

Anchorage of components internal to cabinets attached to diesel where not examined. Opening cabinets attached to EDG's needs to be scheduled for the next diesel generator outage. Internals are to be inspected when cabinets are opened.

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

Surface corrosion. Not significant.

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

Minor hair line cracks. Not significant.

¹ Enter the equipment class name from EPRI 1025286, Appendix B: Classes of Equipment.

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-078

Equipment ID No. 0023EDG

Equip. Class¹ 17

Equipment Description DIESEL GENERATOR NO. 23

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

Anchorage matches the SQUG (SEWS).

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

Yes 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

Yes 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

Refer to AWC-011 for partition discussion.

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

Numerous lines touching. Judged acceptable.

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

Yes based on the above seismic interaction evaluations, the equipment is free of potentially adverse seismic interaction effects.

ATTACHMENT 9.6
Sheet 3 of 4

SEISMIC WALKDOWN CHECKLIST FORM
IP2

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-078

Equipment ID No. 0023EDG

Equip. Class¹ 17

Equipment Description DIESEL GENERATOR NO. 23

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

Yes we have looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment.

Comments (Additional pages may be added as necessary)

1 of 4 air filter latches do not hold air filter in place. Air can by-pass filter. Operations personnel fixed issue in our presence. CR IP2-2012-06238 issued for trend tracking purposes.

References: Drawings and AWC

Drawings: 9321-H-2250, Rev 7, Diesel generator building general arrangement plan, AWC-011

| | | | | |
|---------------|----------------------|----------------------|-------|-------------------|
| Evaluated by: | <u>Nick Crispell</u> | <i>Nick Crispell</i> | Date: | <u>10/15/2012</u> |
| | <u>Stephen Yuan</u> | <i>Step Y</i> | | <u>10/15/2012</u> |
| | <u>Dan Nuta</u> | <i>Dan Nuta</i> | | <u>10/15/2012</u> |

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 4 of 4

IP2

Status: Y N U

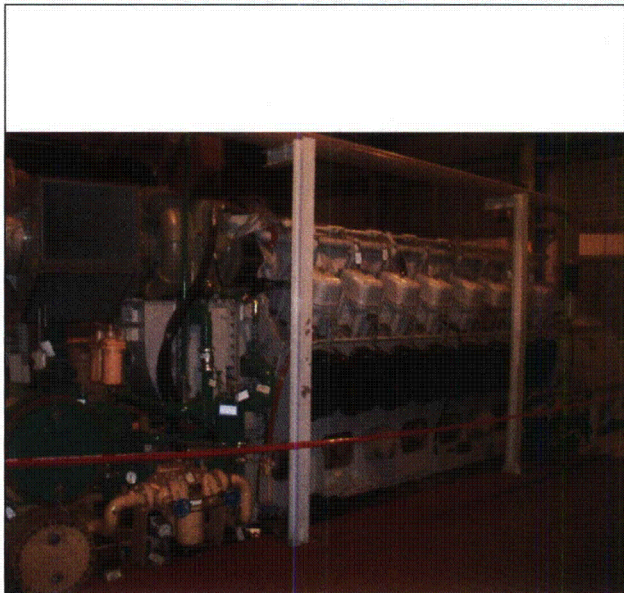
Seismic Walkdown Checklist (SWC) SWEL1-078

Equipment ID No. 0023EDG

Equip. Class¹ 17

Equipment Description DIESEL GENERATOR NO. 23

Photographs



Note:

DIESEL GENERATOR NO 23.



Note:

PARTITION WALL BETWEEN GENERATORS.

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 1 of 5

IP2

Status: Y N U Seismic Walkdown Checklist (SWC) SWEL1-079Equipment ID No. INST RK5Equip. Class¹ 18Equipment Description INSTRUMENT RACK 5Location: Bldg. AFBFloor El. 18'-6"

Room, Area _____

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

Yes, the anchorage configuration verification is required.

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

Yes, 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

Yes, the 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

Yes, the anchorage is free of visible cracks in the concrete near the anchor.

¹ Enter the equipment class name from EPRI 1025286, Appendix B: Classes of Equipment.

ATTACHMENT 9.6**SEISMIC WALKDOWN CHECKLIST FORM**

Sheet 2 of 5

IP2

Status: Y N U **Seismic Walkdown Checklist (SWC) SWEL1-079**Equipment ID No. INST RK5Equip. Class¹ 18Equipment Description INSTRUMENT RACK 5

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 at the base of the rack is consistent with drawing 9321-F-7003-23 & SQUG (SEWS). The anchorage at the base was observed directly and the anchorage at the top was observed by use of a camera held overhead..

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

Yes, 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 7' tall Rack 5 is anchored at the top and bottom per drawing 9321-F-7003. There are conduits/tubing fixed on the concrete wall and going into the rack. During a seismic event the rack will move with the concrete wall preventing it from beating against the wall. Conduits entering Rack 5 are attached to the concrete wall which the rack is attached to so conduits and rack will move together during a seismic event.

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 fluorescent light tubes need wires securing them to the fixture to prevent them from falling on the rack in a seismic event. Several fluorescent lights are out and need to be replaced. CR IP2-2012-06483 has been issued to track resolution.

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

See response to #7.

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-079

Equipment ID No. INST RK5

Equip. Class¹ 18

Equipment Description INSTRUMENT RACK 5

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

Yes, based on the above seismic interaction evaluations, the equipment is free of potentially adverse seismic interaction effects.

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

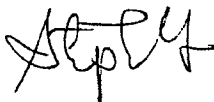
Yes we have looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment.

Comments (Additional pages may be added as necessary)

References:

1. SQUG INSTRUMENT RACK 5
2. DWG 9321-F-7003, Rev 23, (A201097), Transmitter racks piping arrangement-sht. No.2 instrumentation.
3. CR IP2-2012-06483
4. AWC-035

Evaluated by: Stephen Yuan



Date: 10/25/2012

Paul Huebsch



10/25/2012

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 4 of 5

IP2

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-079

Equipment ID No. INST RK5

Equip. Class¹ 18

Equipment Description INSTRUMENT RACK 5

Photographs



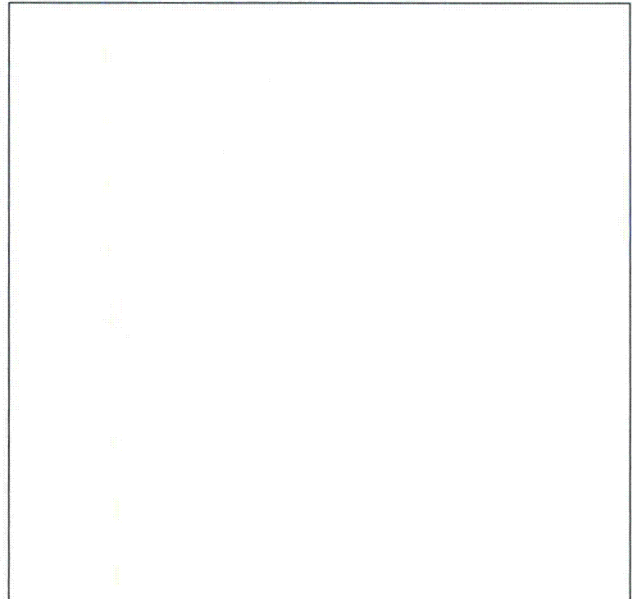
Note: View at the top of rack 5 showing the two clip angle supports attaching the rack to the wall.



Note: Close up view of far top connection



Note: *Close up view of near top connection*



Note:

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-080

Equipment ID No. PCV-1139 Equip. Class¹ 18

Equipment Description AUX. FWP TURB SUPP PRESS REDUCING VALVE

Location: Bldg. AFB Floor El. 18'-6" Room, Area _____

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

Instructions for Completing Checklist

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

Anchorage

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

In-line valve. No anchorage to check.

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

Not applicable since it is an in-line valve.

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

Not applicable since it is an in-line valve.

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

Not applicable since it is an in-line valve.

¹ Enter the equipment class name from EPRI 1025286, Appendix B: Classes of Equipment.

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 2 of 4

IP2

Status: Y N U **Seismic Walkdown Checklist (SWC) SWEL1-080**Equipment ID No. PCV-1139Equip. Class¹ 18Equipment Description AUX. FWP TURB SUPP PRESS REDUCING 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.)

Not applicable since component is an in-line valve.

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

Yes 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

Tubing over head between valve and MS-576 is near to touching control conduits for PCV-1139. Judged acceptable.

Tubing to IA-1196 close to control conduit. Judged acceptable.

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 needs wire securing bulb to fixture. CR IP2-2012-06483 issued to track resolution. This is considered a non-seismic issue for this item.

Light bulb out near valve PCV-1139. CR IP2-2012-06483 issued to track resolution.

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

Unistrut on containment wall near tubing elbow tubing line judged to have adequate flexibility. Tubing clamp is near end of unistrut is judged acceptable due to negligible weight of tubing.

Tubing to MS-576 support near end of unistrut. Judged acceptable given negligible weight of tubing.

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 3 of 4

IP2

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-080

Equipment ID No. PCV-1139

Equip. Class¹ 18

Equipment Description AUX. FWP TURB SUPP PRESS REDUCING VALVE

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

Yes based on the above seismic interaction evaluations, the equipment is free of potentially adverse seismic interaction effects.

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

Support for PI-1261 is braced from the pipe near wear this valve PCV-1139 is mounted. This is a non typical design detail that is judged acceptable for a seismic event.

Comments (Additional pages may be added as necessary)

*References: Drawings and AWC
 Drawings: B226033, Rev 3, Auxiliary boiler feed pump # 22 instrument piping detail for PCV-1139.
 B226034, Rev 1, Auxiliary boiler feed pump # 22 instrument control rack detail for PCV-1139.
 9321-F-7053, (A201147) Rev 38, Auxiliary boiler feed pump room instrument piping sht. No. 2 Instrumentation.
 CR IP2-2012-06483
 AWC-035*

Evaluated by: Nick Crispell *Nick Crispell* Date: 10-15-2012

Stephen Yuan *Step Y* 10-15-2012

Dan Nuta *Dan Nuta* 10-15-2012

ATTACHMENT 9.6
Sheet 4 of 4

SEISMIC WALKDOWN CHECKLIST FORM
IP2

Status: Y N U

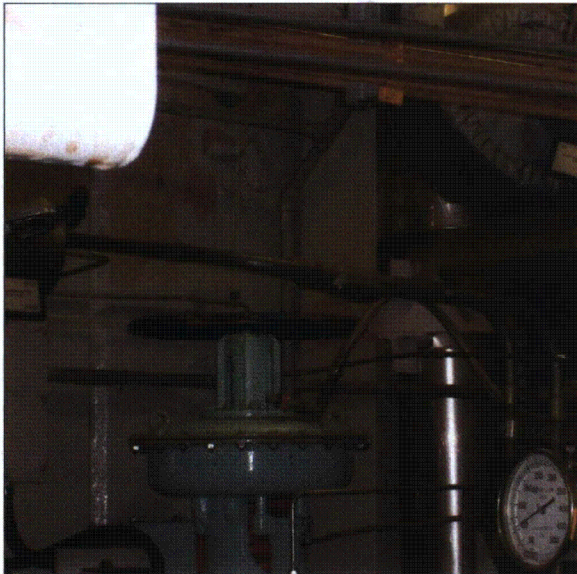
Seismic Walkdown Checklist (SWC) SWEL1-080

Equipment ID No. PCV-1139

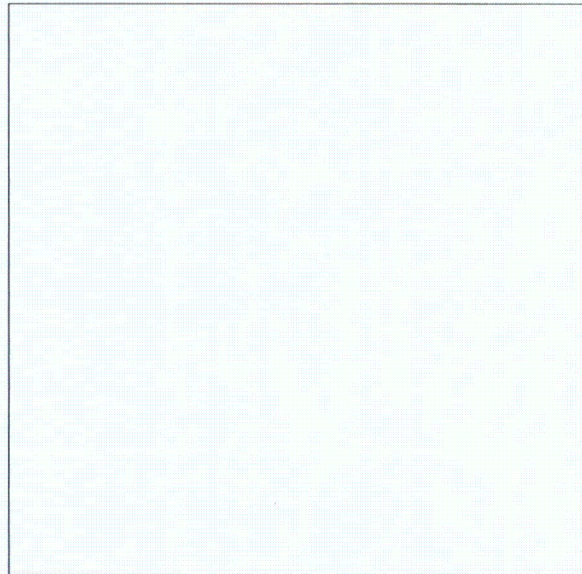
Equip. Class¹ 18

Equipment Description AUX. FWP TURB SUPP PRESS REDUCING VALVE

Photographs



Note: *Photo showing tubing above PCV-1139 that is touching and very close to other components. Judged acceptable given flexibility and weight of tubing.*



Note:

ATTACHMENT 9.6**SEISMIC WALKDOWN CHECKLIST FORM**

Sheet 1 of 4

IP2

Status: Y N U **Seismic Walkdown Checklist (SWC) SWEL1-081**Equipment ID No. IP2-EDGB-72-DB6Equip. Class¹ 18Equipment Description EDG BLDG 72' EL ENGINE AUXILIARIES CTRL PNLLocation: Bldg. EDGFloor El. 72'-0"

Room, Area _____

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

No, the anchorage configuration verification is not required.

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

Cabinet was not opened for internal inspection. Cabinet can not be opened when powered. Cabinet needs to be powered down and internals inspected.

External anchorage is present and was inspected. External anchorage is free of bent, brocken, missing or loose hardware.

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

Minor surface corrosion. Judged OK.

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

Floor is coated. No visible cracks.

¹ Enter the equipment class name from EPRI 1025286, Appendix B: Classes of Equipment.

ATTACHMENT 9.6**SEISMIC WALKDOWN CHECKLIST FORM**

Sheet 2 of 4

IP2

Status: Y N U **Seismic Walkdown Checklist (SWC) SWEL1-081**Equipment ID No. IP2-EDGB-72-DB6Equip. Class¹ 18Equipment Description EDG BLDG 72' EL ENGINE AUXILIARIES CTRL PNL

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.)

Not applicable since component is not part of the anchorage configuration verification.

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

Yes based on the above anchorage evaluations, the anchorage is free of potentially adverse seismic conditions. However internal components must be examined when cabinet can be opened.

Interaction Effects

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

Yes 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

Speaker and heater overhead judged to be adequately supported.

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

Yes attached lines 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

Yes 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

IP2

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-081

Equipment ID No. IP2-EDGB-72-DB6

Equip. Class¹ 18

Equipment Description EDG BLDG 72' EL ENGINE AUXILIARIES CTRL PNL

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

Yes we have looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment.

Comments (Additional pages may be added as necessary)

Top right cover screw is loose. Panel is judged by the walkdown team to be seismicly adequate with missing screw. Operations personnel fixed issue immediately for walkdown team.

References: Drawings and AWC.

Drawings: 9321-F-3049, Rev 30, Conduit layout diesel generator building, elev 67' and 72' plan.

A209208, Rev 11. Conduit layout diesel generator building, elev 67' and 72' section 4 Details.

9321-H-2250, Rev 7. Diesel generator building general arrangement plan.

AWC-011

Evaluated by: Nick Crispell *Nick Crispell* Date: 10/15/2012

Stephen Yuan *Step Y* 10/15/2012

Dan Nuta *Dan Nuta* 10/15/2012

Status: Y N U

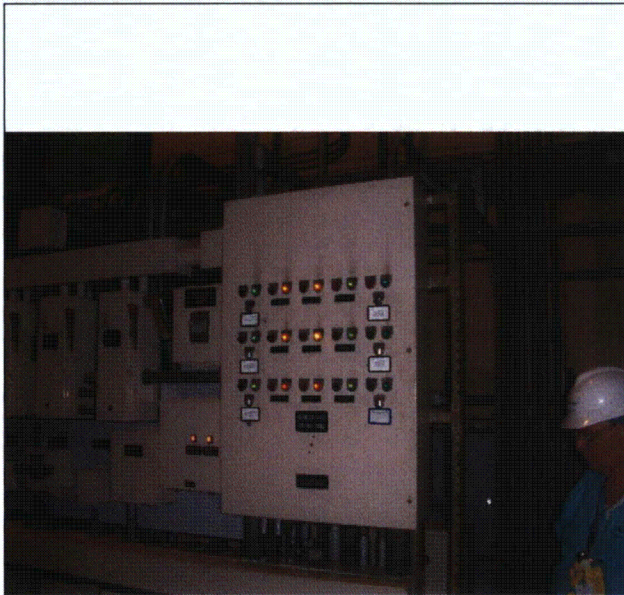
Seismic Walkdown Checklist (SWC) SWEL1-081

Equipment ID No. IP2-EDGB-72-DB6

Equip. Class¹ 18

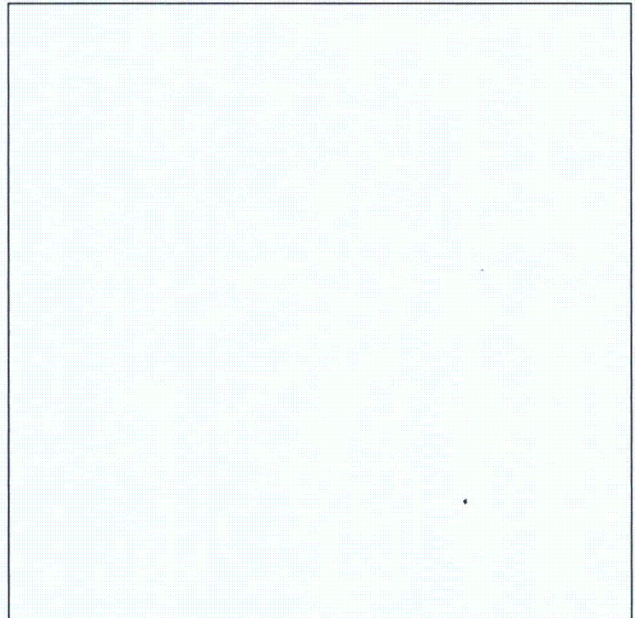
Equipment Description EDG BLDG 72' EL ENGINE AUXILIARIES CTRL PNL

Photographs



Note:

EDG BLDG 72' EL ENGINE AUXILIARIES CTRL PANEL.



Note:

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-084

Equipment ID No. ELJ-10 Equip. Class¹ 19

Equipment Description EDG BLDG THERMOSTAT

Location: Bldg. EDG Floor El. 72'-0" Room, Area _____

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 not required.

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

Yes, 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

Minor surface rust. Judged OK.

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

Anchorage to structural steel, not to concrete.

¹ Enter the equipment class name from EPRI 1025286, Appendix B: Classes of Equipment.

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 2 of 4

IP2

Status: Y N U **Seismic Walkdown Checklist (SWC) SWEL1-084**Equipment ID No. ELJ-10Equip. Class¹ 19Equipment Description EDG BLDG THERMOSTAT

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.)

Not applicable since component is not part of the anchorage configuration verification.

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

Yes, 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

Yes, 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

Yes, 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

Yes, attached lines 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

Yes, 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

IP2

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-084

Equipment ID No. ELJ-10

Equip. Class¹ 19

Equipment Description EDG BLDG THERMOSTAT

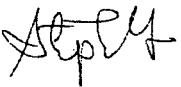
Other Adverse Conditions

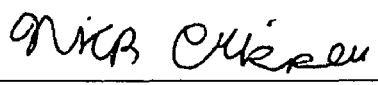
11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? Y N U

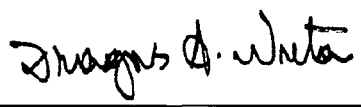
Yes, we have looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment.

Comments (Additional pages may be added as necessary)

*References: Drawings and AWC
Drawings: 9321-F-1460, (A201195), Rev 15, Diesel Generator Building Plan, Section and Elevation.
9321-F-3049, Rev 30, Conduit Layout Diesel Generator Building, Elevation 67' and 72'.
A209208, Rev 11, Conduit Layout Diesel Generator Building, Elevations 67' and 72' Sections and Details.
AWC-011*

Evaluated by: Stephen Yuan  Date: 10/15/12

Nick Crispell  10/15/12

Dan Nuta  10/15/12

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 4 of 4

IP2

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-084

Equipment ID No. ELJ-10

Equip. Class¹ 19

Equipment Description EDG BLDG THERMOSTAT

Photographs

No photo due to restriction of EN-DC-217

Note:

Note:

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-085

Equipment ID No. TE-130 Equip. Class¹ 19

Equipment Description NON REGHX OUTLET LETDOWN TEMP ELEMENT

Location: Bldg. PAB Floor El. 98'-0" Room, Area _____

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 not required.

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

Temperature element is inline, and therefore anchorage inspection not applicable.

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

Temperature element is inline, and therefore anchorage inspection not applicable.

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

Temperature element is inline, and therefore anchorage inspection not applicable.

¹ Enter the equipment class name from EPR1 1025286, Appendix B: Classes of Equipment.

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 2 of 4

IP2

Status: Y N U **Seismic Walkdown Checklist (SWC) SWEL1-085**Equipment ID No. TE-130Equip. Class¹ 19Equipment Description NON REGHX OUTLET LETDOWN TEMP ELEMENT

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.)

Temperature element is inline, and therefore anchorage inspection not applicable.

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

Yes 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

Yes 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

Block wall penetration (approximately 4' x 4') is qualified by Computech report R547.01.

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

Yes attached lines 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

Yes 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

IP2

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-085

Equipment ID No. TE-130

Equip. Class¹ 19

Equipment Description NON REGHX OUTLET LETDOWN TEMP ELEMENT

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

Yes we have looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment.

Comments (Additional pages may be added as necessary)

References: Drawings and AWC

Drawings: 9321-F-1397, Rev 21, (A200204), Primary Auxiliary building floor plans and elevations.

9321-F-2592, Rev 38, (A200678), Primary Auxiliary building composite piping arrangement sections sheet no.7

AWC-025

Evaluated by: Nick Crispell

Nick Crispell

Date: 10-22-2012

Dan Nuta

Dan Nuta

10-22-2012

ATTACHMENT 9.6
Sheet 4 of 4

SEISMIC WALKDOWN CHECKLIST FORM
IP2

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-085

Equipment ID No. TE-130

Equip. Class¹ 19

Equipment Description NON REGHX OUTLET LETDOWN TEMP ELEMENT

Photographs



Note: *Temperature element*



Note: *Temperature element closeup.*

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-087

Equipment ID No. PNL PP9

Equip. Class¹ 20

Equipment Description EDG 21 CONTROL PANEL

Location: Bldg. EDG

Floor El. 72'-0"

Room, Area _____

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

No, the anchorage configuration verification is not required.

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

Internal anchorage could not be checked as panel is not allowed to be opened when panel is powered. Panel to be powered down and internal anchorage inspected when possible.

External anchors where inspected and 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

No corrosion found on external bolts. Internal bolts could not be observed as panel could not be opened.

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

Internal bolts could not be observed since panel could not be opened. No visible cracks at external anchors.

¹ Enter the equipment class name from EPRI 1025286, Appendix B: Classes of Equipment.

ATTACHMENT 9.6**SEISMIC WALKDOWN CHECKLIST FORM**

Sheet 2 of 4

IP2Status: Y N U **Seismic Walkdown Checklist (SWC) SWEL1-087**Equipment ID No. PNL PP9Equip. Class¹ 20Equipment Description EDG 21 CONTROL 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.)

Not applicable since component is not part of the anchorage configuration verification.

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

Cannot be determined since some anchorage is internal to cabinet and door could not be opened.

Interaction Effects

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

The 21EDG control panel has a side synch panel. The side synch panel is free to swing on hinge into 21EDG control panel. Restraint bracket on bottom of side panel is broken. Operations personnel reattached and repaired restraint bracket immediately in our presence. CR IP2-2012-6207 issued for tracking purposes.

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

Yes 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

Yes attached lines 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

Yes based on the above seismic interaction evaluations, the equipment is free of potentially adverse seismic interaction effects.

ATTACHMENT 9.6
Sheet 3 of 4

SEISMIC WALKDOWN CHECKLIST FORM
IP2

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-087

Equipment ID No. PNL PP9

Equip. Class¹ 20

Equipment Description EDG 21 CONTROL 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

Yes we have looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment.

Comments (Additional pages may be added as necessary)

Panel on north end of #23 EDG control panel is missing 1 of 24 bolts. Bottom latch of #22 and #23 EDG control panel not latched. Operations personnel fixed issues on the spot in our presence. CR IP2-2012-06238 issued for tracking.

References: Drawings and AWC

Drawings: 9321-H-2250, Rev 7, Diesel generator building general arrangement plan.

AWC-011

Evaluated by: Nick Crispell *Nick Crispell* Date: 10-15-2012

Stephen Yuan *Step Y* 10-15-2012

Dan Nuta *Dan Nuta* 10-15-2012

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 4 of 4

IP2

Status: Y N U

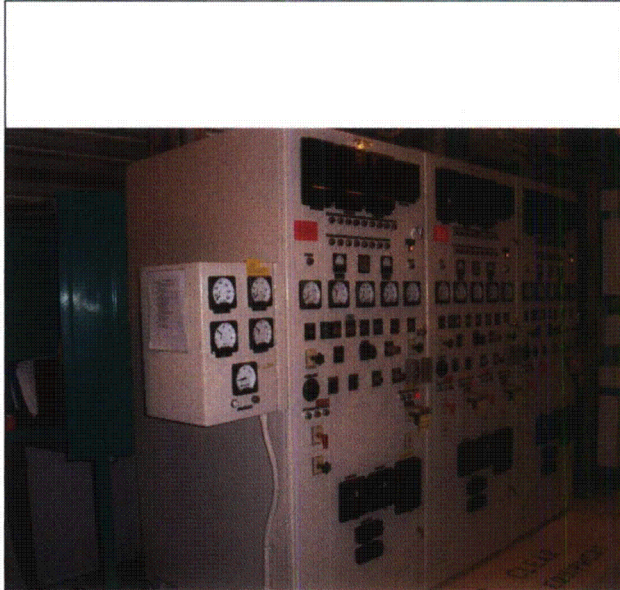
Seismic Walkdown Checklist (SWC) SWEL1-087

Equipment ID No. PNL PP9

Equip. Class¹ 20

Equipment Description EDG 21 CONTROL PANEL

Photographs



Note: EDG 21 control panel showing side Synch panel that is free to swing.



Note:

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 1 of 5

IP2

Status: Y N U Seismic Walkdown Checklist (SWC) SWEL1-088Equipment ID No. EPK1Equip. Class¹ 20Equipment Description SW PMP #21 STRAINER CONT PNLLocation: Bldg. SWSTR PITFloor El. 5'-9"

Room, Area _____

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 not required.

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

Yes the anchorage is free of bent, broken, missing or loose hardware. The panel was opened up and internal components were examined and acceptable.

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

Slight surface corrosion was observed and is judged acceptable.

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

Wall is coated. No significant cracks observed.

¹ Enter the equipment class name from EPRI 1025286, Appendix B: Classes of Equipment.

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-088

Equipment ID No. EPK1

Equip. Class¹ 20

Equipment Description SW PMP #21 STRAINER CONT PNL

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.)

Not applicable since component is not part of the anchorage configuration verification.

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

Yes 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

Yes 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

Fluorescent bulb overhead has a plexiglass cover to catch bulb if it falls out of the prongs. No issues noted.

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

Yes attached lines 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

Yes 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 5

IP2

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-088

Equipment ID No. EPK1

Equip. Class¹ 20

Equipment Description SW PMP #21 STRAINER CONT PNL

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

Yes we have looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment.

Comments (Additional pages may be added as necessary)

Cover is missing 2 of 10 hold downs. Panel judged seismically adequate with missing hold downs. CR IP2-2012-06841 issued to fix hold downs.

References: Drawings and AWC

Drawings: 9321-F-2011, Rev 9, General arrangement intake structure plan unit 2.

CR IP2-2012-06841

AWC-013

Evaluated by: Nick Crispell

Nick Crispell

Date: 10-17-2012

Dan Nuta

Dan Nuta

10-17-2012

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-088

Equipment ID No. EPK1

Equip. Class¹ 20

Equipment Description SW PMP #21 STRAINER CONT PNL

Photographs



Note: EPK1



Note: Missing latches.

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-088

Equipment ID No. EPK1

Equip. Class¹ 20

Equipment Description SW PMP #21 STRAINER CONT PNL



Note: *Missing latches.*



Note: *Anchorage at bottom of panel.*

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-089

Equipment ID No. EPG9 Equip. Class¹ 20

Equipment Description REMOTE UNDERVOLTAGE RELAY CABINET, BUS 6A

Location: Bldg. CB Floor El. 15'-0" Room, Area _____

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 not required.

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

Cabinet door was opened and internal component anchorage was acceptable.

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

Minor surface corrosion present. Judged acceptable.

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

Minor crack near by but not significant. Judged acceptable.

¹ Enter the equipment class name from EPRI 1025286, Appendix B: Classes of Equipment.

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-089

Equipment ID No. EPG9

Equip. Class¹ 20

Equipment Description REMOTE UNDERVOLTAGE RELAY CABINET, BUS 6A

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.)

Not applicable since component is not part of the anchorage configuration verification.

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

Yes, 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

Yes, 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

Yes, 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

Yes, attached lines 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

Yes, 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

IP2

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-089

Equipment ID No. EPG9

Equip. Class¹ 20

Equipment Description REMOTE UNDERVOLTAGE RELAY CABINET, BUS 6A

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

Yes, we have looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment.

Comments (Additional pages may be added as necessary)

*References: Drawings and AWC
Drawings: 9321-F-7028, (A201122), Rev 46, Containment Building Instrument Arrangement-Sheet no 2, Instrumentation.
AWC-002*

Evaluated by: Nick Crispell *Nick Crispell* Date: 10/9/12

Steph Yuan *Steph Yuan* 10/9/12

Dan Nuta *Dan Nuta* 10/9/12

ATTACHMENT 9.6
Sheet 4 of 4

SEISMIC WALKDOWN CHECKLIST FORM
IP2

Seismic Walkdown Checklist (SWC) SWEL1-089

Status: Y N U

Equipment ID No. EPG9

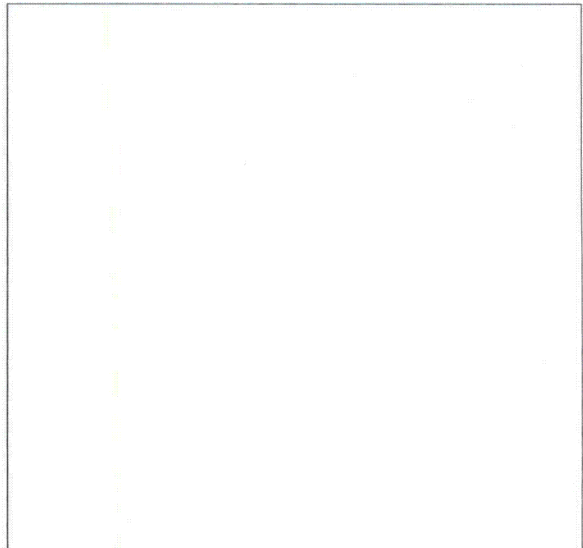
Equip. Class¹ 20

Equipment Description REMOTE UNDERVOLTAGE RELAY CABINET, BUS 6A

Photographs



Note: *EPG9 Cabinet*



Note:

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 1 of 5

IP2

Status: Y N U Seismic Walkdown Checklist (SWC) SWEL1-090Equipment ID No. 22SIPEquip. Class¹ 20Equipment Description 22 SAFETY INJECTION PUMPLocation: Bldg. PABFloor El. 59'-0"

Room, Area _____

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

Yes 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

Yes the 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

Yes the anchorage is free of visible cracks in the concrete near the anchors.

¹ Enter the equipment class name from EPR1 I025286, Appendix B: Classes of Equipment.

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 2 of 5

IP2

Status: Y N U **Seismic Walkdown Checklist (SWC) SWEL1-090**Equipment ID No. 22SIPEquip. Class¹ 20Equipment Description 22 SAFETY INJECTION PUMP

5. Is the anchorage configuration consistent with plant documentation? Y N U N/A

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

Anchorage matches drawing 9321-F-1167 & 9321-F-1166.

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

Yes 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

Yes 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

Yes 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

Yes attached lines 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

Yes 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 5

IP2

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-090

Equipment ID No. 22SIP

Equip. Class¹ 20

Equipment Description 22 SAFETY INJECTION 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

Yes we have looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment.

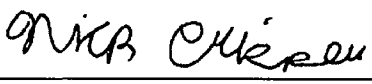
Comments (Additional pages may be added as necessary)

References: Drawings and AWC

Drawings: 9321-F-1166, Rev. 26, Primary Auxiliary Building Concrete Plans at El. 15'-0", 35'-0" & 42'-0"

9321-F-1167, Rev. 24, Primary Auxiliary Building Concrete Plans at El. 59'-0" and 68'-0"

AWC-017

Evaluated by: Nick Crispell  Date: 10/19/2012

Paul Huebsch  10/19/2012

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 4 of 5

IP2

Status: Y N U

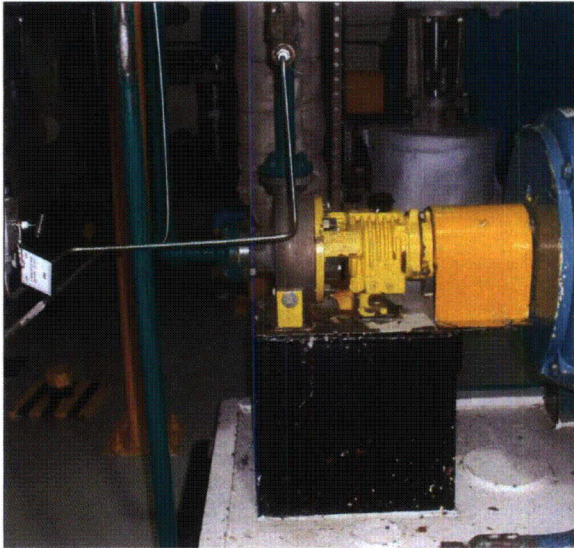
Seismic Walkdown Checklist (SWC) SWEL1-090

Equipment ID No. 22SIP

Equip. Class¹ 20

Equipment Description 22 SAFETY INJECTION PUMP

Photographs



Note: *SIJ Pump*



Note: *SIJ Pump*

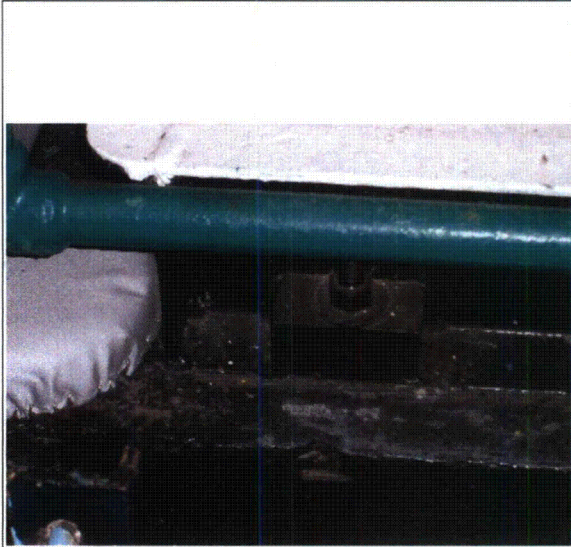
Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-090

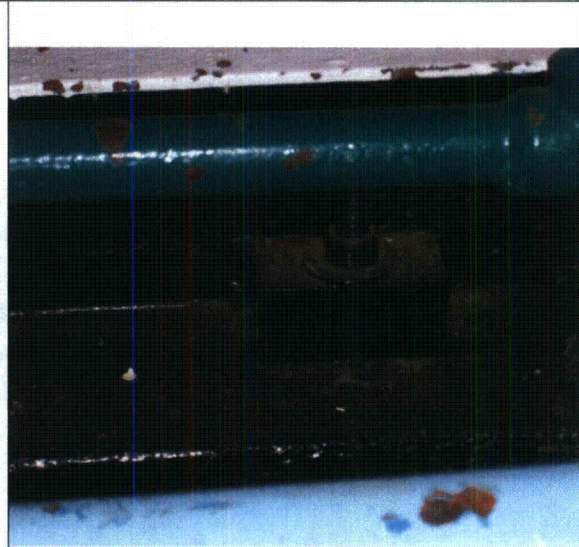
Equipment ID No. 22SIP

Equip. Class¹ 20

Equipment Description 22 SAFETY INJECTION PUMP



Note: Typical anchorage



Note: Typical anchorage

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 1 of 5

IP2

Status: Y N U **Seismic Walkdown Checklist (SWC) SWEL1-091**Equipment ID No. PNL EPA10Equip. Class¹ 20Equipment Description PAB EXH & CB PRG FAN 21 CONTROL PANELLocation: Bldg. FAN HOUSEFloor El. 80'-0"

Room, Area _____

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 not required.

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

Yes 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

Yes the 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

Yes the anchorage is free of visible cracks in the concrete near the anchors.

*An abandoned hole near the lower anchorage found about 4" away
Not a seismic issue.*

¹ Enter the equipment class name from EPRI 1025286, Appendix B: Classes of Equipment.

ATTACHMENT 9.6
Sheet 2 of 5

SEISMIC WALKDOWN CHECKLIST FORM
IP2

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-091

Equipment ID No. PNL EPA10

Equip. Class¹ 20

Equipment Description PAB EXH & CB PRG FAN 21 CONTROL 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.)

Not applicable since component is not part of the anchorage configuration verification.

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

Yes 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

Yes 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

Yes 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

Yes attached lines 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

Yes 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 5

IP2

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-091

Equipment ID No. PNL EPA10

Equip. Class¹ 20

Equipment Description PAB EXH & CB PRG FAN 21 CONTROL 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

Yes we have looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment.

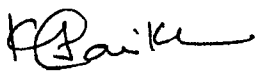
Comments (Additional pages may be added as necessary)

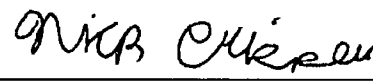
References: Drawings and AWC

Drawings: 9321-F-1166, Rev 24, (A200107), Primary Auxiliary building concrete plans at elev. 59'-0" and 68'-0".

9321-F-11666, Rev 26, (A200106), Primary Auxiliary building concrete plans at elev. 15',35', and 42'

AWC-030

Evaluated by: Kirit Parikh  Date: 10/24/2012

Nick Crispell  10/24/2012

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 4 of 5

IP2

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-091

Equipment ID No. PNL EPA10

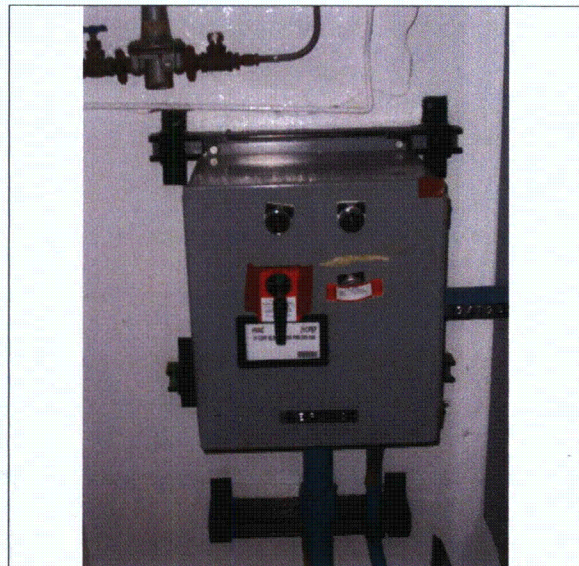
Equip. Class¹ 20

Equipment Description PAB EXH & CB PRG FAN 21 CONTROL PANEL

Photographs



Note: *Panel identification*



Note:

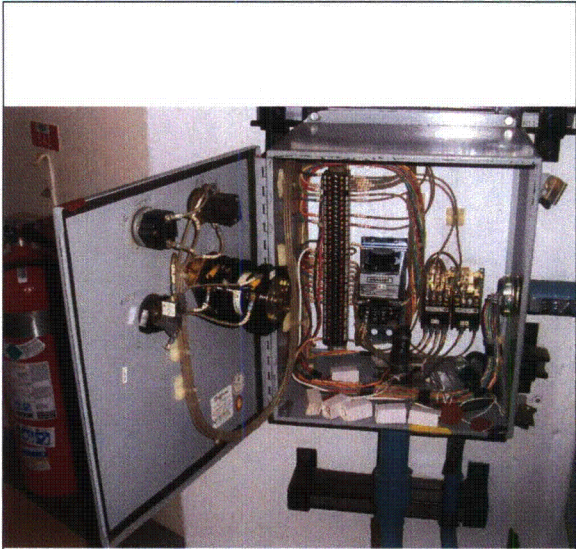
Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-091

Equipment ID No. PNL EPA10

Equip. Class¹ 20

Equipment Description PAB EXH & CB PRG FAN 21 CONTROL PANEL



Note: Open panel EPA10 / Anchorage.
Replacement bulbs for the panel are laying on the bottom inside of the panel. Walkdown engineers judged this acceptable.



Note: Panel anchorage.

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-092

Equipment ID No. 21CCST

Equip. Class¹ 21

Equipment Description 21 COMPONENT COOLING SURGE TNK

Location: Bldg. PAB Floor El. 98'-0" Room, Area _____

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

Yes 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

Yes the 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

Yes the anchorage is free of visible cracks in the concrete near the anchors.

¹ Enter the equipment class name from EPRI 1025286, Appendix B: Classes of Equipment.

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 2 of 5

IP2

Status: Y N U **Seismic Walkdown Checklist (SWC) SWEL1-092**Equipment ID No. 21CCSTEquip. Class¹ 21Equipment Description 21 COMPONENT COOLING SURGE TNK

5. Is the anchorage configuration consistent with plant documentation? Y N U N/A

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

Anchorage matches SQUG (SEWS).

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

Yes 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

Yes 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

Yes 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

Yes attached lines 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

Yes based on the above seismic interaction evaluations, the equipment is free of potentially adverse seismic interaction effects.

ATTACHMENT 9.6
Sheet 3 of 5

SEISMIC WALKDOWN CHECKLIST FORM
IP2

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-092

Equipment ID No. 21CCST

Equip. Class¹ 21

Equipment Description 21 COMPONENT COOLING SURGE TNK

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

Yes we have looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment.

Comments (Additional pages may be added as necessary)

*References: Drawings and AWC
Drawings: 9321-F-2510, (A200627), Rev 49, Primary Auxiliary building general arrangement plans.
AWC-023*

Evaluated by: Nick Crispell *Nick Crispell* Date: 10-22-2012
Dan Nuta *Dan Nuta* 10-22-2012

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 4 of 5

IP2

Status: Y N U

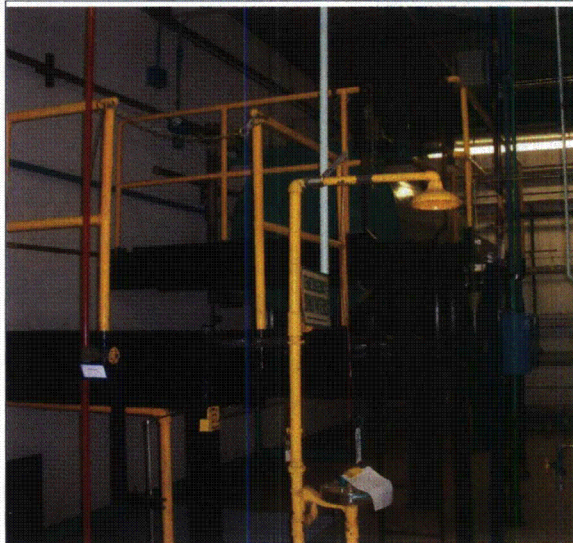
Seismic Walkdown Checklist (SWC) SWEL1-092

Equipment ID No. 21CCST

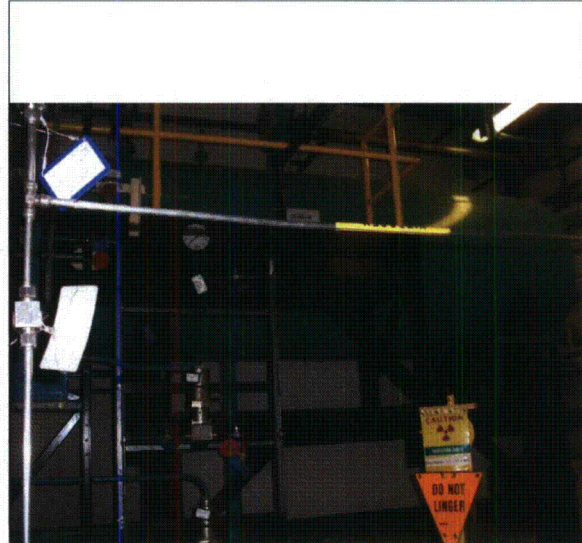
Equip. Class¹ 21

Equipment Description 21 COMPONENT COOLING SURGE TNK

Photographs



Note: Overview of tank.



Note: Overview of tank.

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 5 of 5

IP2


Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-092

Equipment ID No. 21CCST

Equip. Class¹ 21

Equipment Description 21 COMPONENT COOLING SURGE TNK

| | |
|--|---------------------|
|  | |
| <p>Note: <i>Typical anchorage to structural steel.</i></p> | <p>Note:</p> |

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 1 of 5

IP2

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-093

Equipment ID No. 22BAT

Equip. Class¹ 21

Equipment Description BORIC ACID TANK

Location: Bldg. PAB

Floor El. 98'-0"

Room, Area _____

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

Yes 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

Yes the 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

Yes the anchorage is free of visible cracks in the concrete near the anchors.

¹ Enter the equipment class name from EPRI 1025286, Appendix B: Classes of Equipment.

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 2 of 5

IP2

Status: Y N U **Seismic Walkdown Checklist (SWC) SWEL1-093**Equipment ID No. 22BATEquip. Class¹ 21Equipment Description BORIC ACID 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.)

Anchorage matches SQUG (SEWS).

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

Yes 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

Yes 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

One fluorescent light is burnt out nearby - not a seismic concern. CR IP2-2012-06354 issued to track resolution.

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

Yes attached lines 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

Yes 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 5

IP2

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-093

Equipment ID No. 22BAT

Equip. Class¹ 21

Equipment Description BORIC ACID 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

Yes we have looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment.

Comments (Additional pages may be added as necessary)

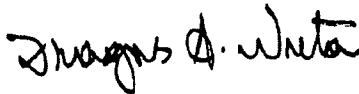
*References: Drawings and AWC.
Drawings: 9321-F-2510, (A200627), Rev 49, Primary Auxiliary building general arrangement plans.
684J905 Rev 40, Boric acid tank
AWC-023*

Evaluated by: Nick Crispell



Date: 10-22-2012

Dan Nuta



10-22-2012

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 4 of 5

IP2

Status: Y N U

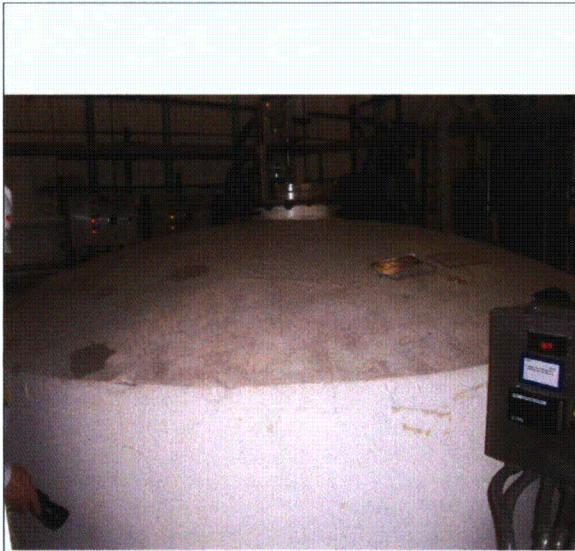
Seismic Walkdown Checklist (SWC) SWEL1-093

Equipment ID No. 22BAT

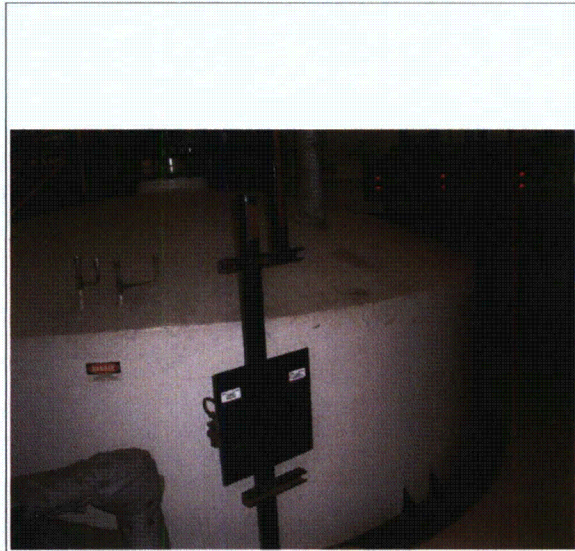
Equip. Class¹ 21

Equipment Description BORIC ACID TANK

Photographs



Note: *Boric Acid Tank*



Note: *Typical anchorage.*

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 5 of 5

IP2

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-093

Equipment ID No. 22BAT

Equip. Class¹ 21

Equipment Description BORIC ACID TANK



Note: Typical anchorage.



Note: Typical anchorage.

Status: Y N U

Seismic Walk down Checklist (SWC) SWEL1-094

Equipment ID No. 0021RWST

Equip. Class¹ 21

Equipment Description 21 REFUELING WATER STORAGE TANK

Location: Bldg. NTF

Floor El. 82'-0"

Room, Area _____

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

Yes 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 corrosion. Acceptable, not a seismic concern.

Yes the 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

Small cracks near bolt nos. 30, 24 & 25. Acceptable, not a seismic concern.

Significant concrete spalling and numerous cracks near bolt nos. 16,17,18,19. See photos below. CR IP2-2012-06547 issued for tracking.LB-03 issued for resolution

¹ Enter the equipment class name from EPR1 1025286, Appendix B: Classes of Equipment.

ATTACHMENT 9.6**SEISMIC WALKDOWN CHECKLIST FORM**

Sheet 2 of 5

IP2

Status: Y N U **Seismic Walk down Checklist (SWC) SWEL1-094**Equipment ID No. 0021RWSTEquip. Class¹ 21Equipment Description 21 REFUELING WATER STORAGE 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 matches drawing 9321-F-1468, Rev 5 and 9321-F-1004, Rev 1.

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

No see question 4, and pictures below.

Interaction Effects

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

The tank is very close to the nearby platform steel structure. Refer to AWC-032 for discussion. LB-07 issued to resolve.

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

Transmission line above the tank. Acceptable due to enough height

Yes 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

Yes attached lines 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 not free of potentially adverse seismic interaction effects.

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 3 of 5

IP2

Status: Y N U

Seismic Walk down Checklist (SWC) SWEL1-094

Equipment ID No. 0021RWST

Equip. Class¹ 21

Equipment Description 21 REFUELING WATER STORAGE TANK

Other Adverse Conditions

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

Yes we have looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment.

Comments (Additional pages may be added as necessary)

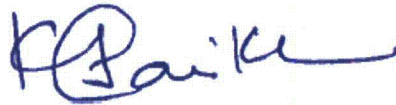
References: Drawings and AWC

Drawings: 9321-F-1468, Rev 5, Primary and refueling water tanks concrete foundations.

9321-F-1004, Rev 1 Plan of the entrance roads units 1,2& 3

AWC-032

Evaluated by: Kirit Parikh



Date: 10/25/2012

Nick Crispell



10/25/2012

Status: Y N U

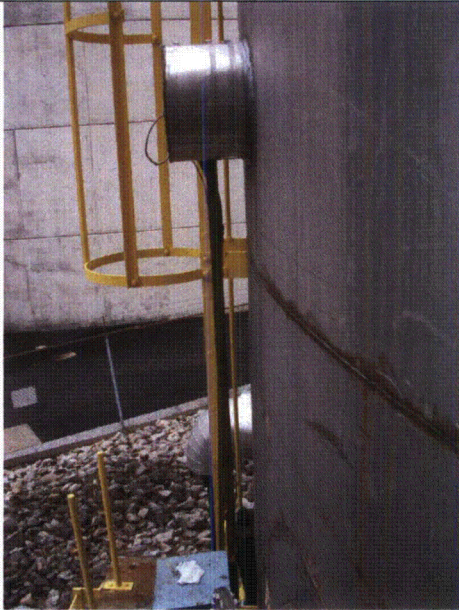
Seismic Walk down Checklist (SWC) SWEL1-094

Equipment ID No. 0021RWST

Equip. Class¹ 21

Equipment Description 21 REFUELING WATER STORAGE TANK

Photographs



Note: Tank 0021 RWST view.



Note: The tank too close to the platform railing

Status: Y N U

Seismic Walk down Checklist (SWC) SWEL1-094

Equipment ID No. 0021RWST

Equip. Class¹ 21

Equipment Description 21 REFUELING WATER STORAGE TANK



Note: Significant Spalling and cracks near bolts 16 and 17



Note: The tank valve handle almost touching the platform steel and the cut bracing on the platform legs.

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-095

Equipment ID No. CST

Equip. Class¹ 21

Equipment Description CONDENSATE STORAGE TANK

Location: Bldg. CWST Floor El. 80'-0" Room, Area _____

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

Instructions for Completing Checklist

This checklist may be used to document the results of the Seismic Walk down of an item of equipment on the SWEL. The space below each of the following questions may be 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

Yes 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 corrosion on the bolt surface, Acceptable, no seismic concern.

Yes the 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 cracks due to weather. Acceptable not a seismic concern.

Yes the anchorage is free of visible cracks in the concrete near the anchors.

¹ Enter the equipment class name from EPRI 1025286, Appendix B: Classes of Equipment.

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 2 of 5

IP2

Status: Y N U Seismic Walkdown Checklist (SWC) SWEL1-095Equipment ID No. CSTEquip. Class¹ 21Equipment Description CONDENSATE STORAGE 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 matches drawing 9321-F-1472-1 Rev 1 and 9321-F-1004-1 Rev 1.

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

Yes 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

Yes 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

Yes 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

Yes attached lines 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

Yes based on the above seismic interaction evaluations, the equipment is free of potentially adverse seismic interaction effects.

EN-DC-168 REV 0

ATTACHMENT 9.6
Sheet 3 of 5

SEISMIC WALKDOWN CHECKLIST FORM
IP2

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-095

Equipment ID No. CST

Equip. Class¹ 21

Equipment Description CONDENSATE STORAGE TANK

Other Adverse Conditions


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

Yes we have looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment.

Comments (Additional pages may be added as necessary)

*References: Drawings and AWC
Drawings: 9321-F-1472, Rev 1, Condensate water storage tank concrete foundation.
9321-F-1004, Rev 1, Plan of entrance roads units no. 1, 2 & 3.
AWC-034*

Evaluated by: Kirit Parikh  Date: 10/25/2012

Nick Crispell  10/25/2012

Status: Y N U

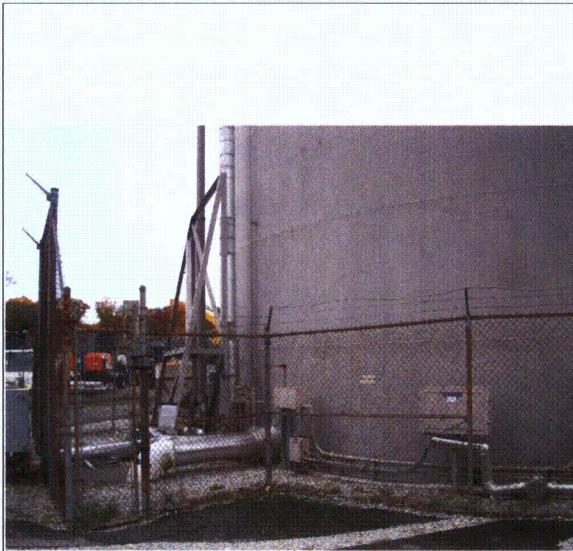
Seismic Walkdown Checklist (SWC) SWEL1-095

Equipment ID No. CST

Equip. Class¹ 21

Equipment Description CONDENSATE STORAGE TANK

Photographs



Note: *Condensate storage tank view*



Note: *Anchorage of the storage tank*

ATTACHMENT 9.6
Sheet 5 of 5

SEISMIC WALKDOWN CHECKLIST FORM
IP2

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-095

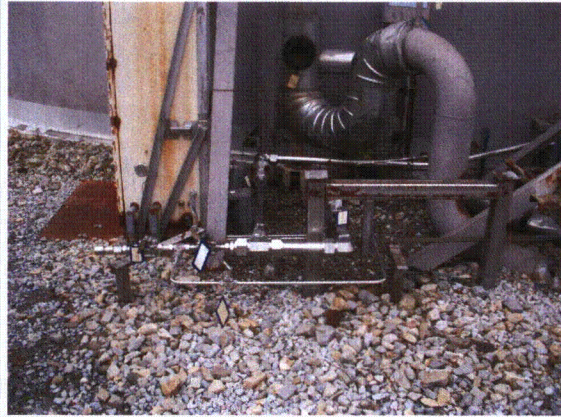
Equipment ID No. CST

Equip. Class¹ 21

Equipment Description CONDENSATE STORAGE TANK



Note: *The view above the storage tank.*



Note: *The soft connections on the storage tank*

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-096

Equipment ID No. 21FODT

Equip. Class¹ 21

Equipment Description F.O. DAY TANK NO. 21

Location: Bldg. EDG

Floor El. 72'-0"

Room, Area _____

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

Yes the anchorage configuration verification is required.

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

Yes 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

Yes the 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 to structural steel not to concrete.

¹ Enter the equipment class name from EPRI 1025286, Appendix B: Classes of Equipment.

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 2 of 4

IP2

Status: Y N U **Seismic Walkdown Checklist (SWC) SWEL1-096**Equipment ID No. 21FODTEquip. Class¹ 21Equipment Description F.O. DAY TANK NO. 21

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

Anchorage matches calculation 91177-C-02.

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

Yes 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

Yes 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

Yes 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

Yes attached lines 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

Yes based on the above seismic interaction evaluations, the equipment is free of potentially adverse seismic interaction effects.

ATTACHMENT 9.6
Sheet 3 of 4

SEISMIC WALKDOWN CHECKLIST FORM
IP2

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-096

Equipment ID No. 21FODT

Equip. Class¹ 21

Equipment Description F.O. DAY TANK NO. 21


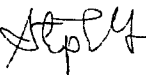
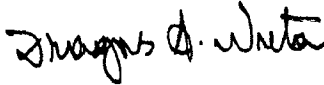
Other Adverse Conditions

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

Fire piping over top of tank is threaded and has sprinkler heads nearby. At time of walk down it was not known if system was a dry or wet system. Leaks could occur due to a seismic event the would leak or spray water onto tank. Water leaking or spraying on tank is judged acceptable as there are no electrical components on tank. See AWC-011 for reference as well as photos below.

Comments (Additional pages may be added as necessary)

*References: Drawings and AWC.
 Drawings: 9321-H-2250, Rev 7, Diesel generator building general arrangement plan.
 AWC-011*

| | | |
|------------------------------------|---|-------------------------|
| Evaluated by: <u>Nick Crispell</u> |  | Date: <u>10-16-2012</u> |
| <u>Stephen Yuan</u> |  | <u>10-16-2012</u> |
| <u>Dan Nuta</u> |  | <u>10-16-2012</u> |

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 4 of 4

IP2

Status: Y N U

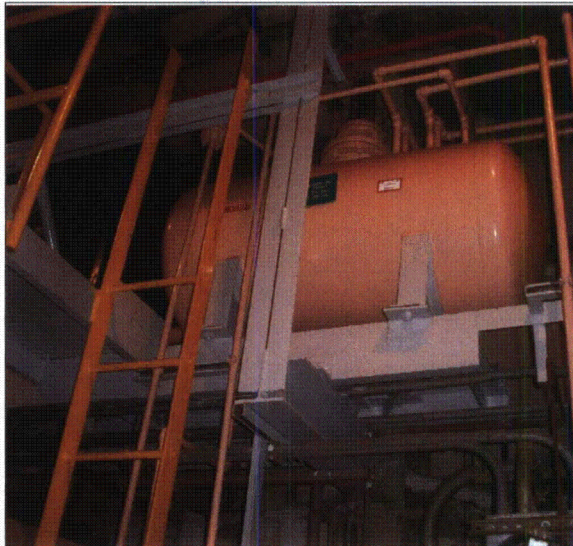
Seismic Walkdown Checklist (SWC) SWEL1-096

Equipment ID No. 21FODT

Equip. Class¹ 21

Equipment Description F.O. DAY TANK NO. 21

Photographs



Note: *F.O. Day Tank for 21 EDG*



Note: *Anchorage of tank.*

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 1 of 5

IP2

Status: Y N U **Seismic Walkdown Checklist (SWC) SWEL1-097**Equipment ID No. 21NRHXEquip. Class¹ 21Equipment Description NON REGEN HEAT EXCHANGER NO 21Location: Bldg. PABFloor El. 98'-0"

Room, Area _____

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

Instructions for Completing Checklist

This checklist may be used to document the results of the Seismic Walk down of an item of equipment on the SWEL. The space below each of the following questions may be 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

Yes 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

Yes the 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

Yes the anchorage is free of visible cracks in the concrete near the anchors.

¹ Enter the equipment class name from EPRI 1025286, Appendix B: Classes of Equipment.

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 2 of 5

IP2

Status: Y N U**Seismic Walkdown Checklist (SWC) SWEL1-097**Equipment ID No. 21NRHXEquip. Class¹ 21Equipment Description NON REGEN HEAT EXCHANGER NO 21

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

Anchorage matches SEWS & drawing 9321-F-1169.

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

Yes 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

Yes 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

Block wall penetration is seismicly qualified by Computech report R547.01.

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

Yes attached lines 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

Yes based on the above seismic interaction evaluations, the equipment is free of potentially adverse seismic interaction effects.

ATTACHMENT 9.6
Sheet 3 of 5

SEISMIC WALKDOWN CHECKLIST FORM
IP2

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-097

Equipment ID No. 21NRHX

Equip. Class¹ 21

Equipment Description NON REGEN HEAT EXCHANGER NO 21

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

Yes we have looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment.

Comments (Additional pages may be added as necessary)

References: Drawings and AWC

Drawings:

9321-F-2510, Rev 49, (A200627), Primary Auxiliary Building General Arrangement Plans.

9321-F-1169, Rev 14, (A200109), Primary Auxiliary Building Concrete Floor Plan at Elevation 98'.

AWC-025

Evaluated by: Nick Crispell *Nick Crispell* Date: 10-22-2012

Dan Nuta *Dan Nuta* 10-22-2012

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 4 of 5

IP2

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-097

Equipment ID No. 21NRHX

Equip. Class¹ 21

Equipment Description NON REGEN HEAT EXCHANGER NO 21

Photographs



Note: South end of Non Regen Heat Exchanger



Note: View of HX from door way into cubical.

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 5 of 5

IP2

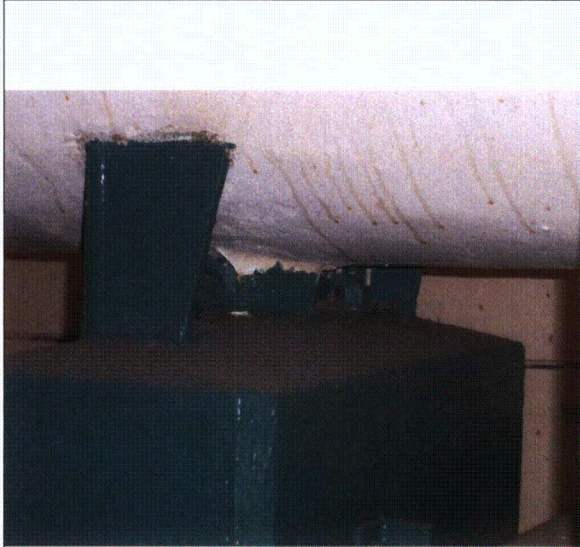
Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-097

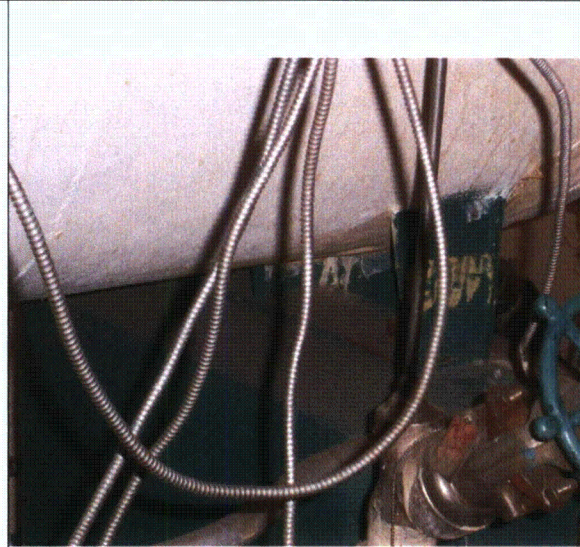
Equipment ID No. 21NRHX

Equip. Class¹ 21

Equipment Description NON REGEN HEAT EXCHANGER NO 21



Note: North anchorage pedestal of HX.



Note: South anchorage pedestal of HX.

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 1 of 6

IP2

Status: Y N U **Seismic Walkdown Checklist (SWC) SWEL1-098**Equipment ID No. 21CCHXEquip. Class¹ 21Equipment Description CCW HEAT EXCH NO 21Location: Bldg. PABFloor El. 80' to 98'

Room, Area _____

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

Yes 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

Yes the 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

Yes the anchorage is free of visible cracks in the concrete near the anchors.

¹ Enter the equipment class name from EPRI 1025286, Appendix B: Classes of Equipment.

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 2 of 6

IP2

Status: Y N U **Seismic Walkdown Checklist (SWC) SWEL1-098**Equipment ID No. 21CCHXEquip. Class¹ 21Equipment Description CCW HEAT EXCH NO 21

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

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

Anchorage matches SQUG (SEWS).

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

*Yes 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
-

On 80' elevation conduit is close to tank with approximately 3/8" gap between tank wall and conduit. Judged ok given tank is a hard target.

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

Fluorescent bulbs need wire securing bulb to fixture. One light bulb is out in the area. Judged ok and not to be seismic concern given hard target tank, valves, and piping in the area. CR IP2-2012-06354 issued to track resolution.

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

Yes attached lines 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
-

Yes based on the above seismic interaction evaluations, the equipment is free of potentially adverse seismic interaction effects.

EN-DC-168 REV 0

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 3 of 6

IP2

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-098

Equipment ID No. 21CCHX

Equip. Class¹ 21

Equipment Description CCW HEAT EXCH NO 21

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

Yes we have looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment.

Comments (Additional pages may be added as necessary)

References: Drawings and AWC

Drawings: 9321-F-2510, (A200627), Rev 49, Primary Auxiliary building general arrangement plans.

9321-F-1169, (A200109), Rev 14, Primary Auxiliary building concrete floor plan at elev. 98'

AWC-023

Evaluated by: Nick Crispell *Nick Crispell* Date: 10-22-2012

Dan Nuta *Dan Nuta* 10-22-2012

ATTACHMENT 9.6
Sheet 4 of 6

SEISMIC WALKDOWN CHECKLIST FORM
IP2

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-098

Equipment ID No. 21CCHX

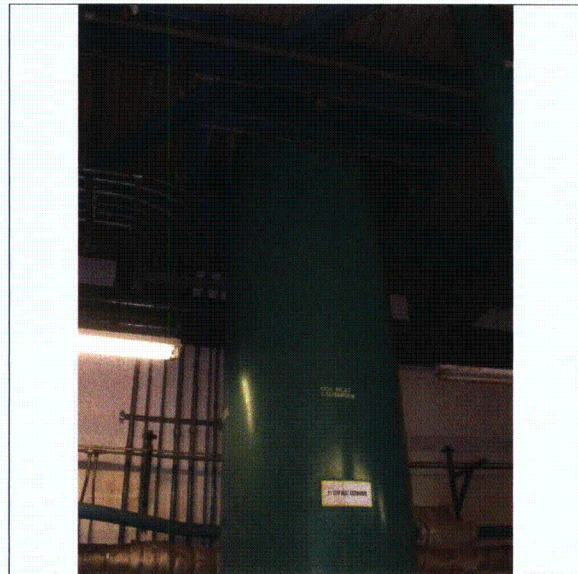
Equip. Class¹ 21

Equipment Description CCW HEAT EXCH NO 21

Photographs



Note: CCW HX on 80' elevation.



Note: CCW HX on 80' elevation looking at ceiling.

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 5 of 6

IP2

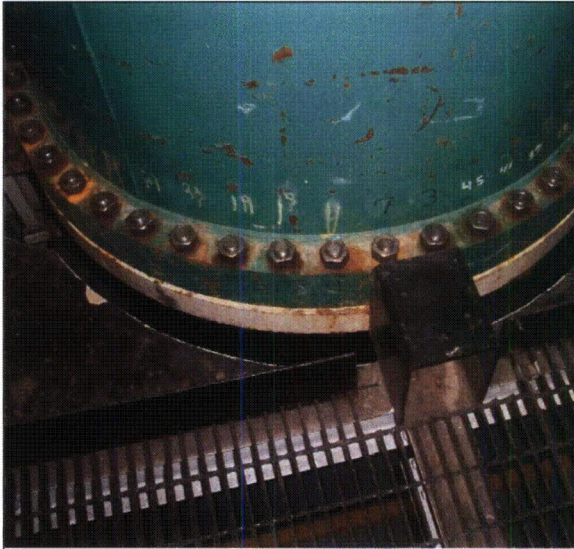
Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-098

Equipment ID No. 21CCHX

Equip. Class¹ 21

Equipment Description CCW HEAT EXCH NO 21



Note: Typical anchorage on 80' elevation.



Note: CCW HX on 98' elevation.

ATTACHMENT 9.6
Sheet 6 of 6

SEISMIC WALKDOWN CHECKLIST FORM
IP2

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-098

Equipment ID No. 21CCHX

Equip. Class¹ 21

Equipment Description CCW HEAT EXCH NO 21



Note: CCW HX on 98' elevation.



Note: Typical anchorage on 98' elevation.

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 1 of 4

IP2

Status: Y N U Seismic Walkdown Checklist (SWC) SWEL1-099Equipment ID No. 0022IACAEquip. Class¹ 21Equipment Description INST AIR COMP 22 AFTERCOOLERLocation: Bldg. CB Floor El. 15'-0" Room, Area _____

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 an in line component.

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

In line component.

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

In line component.

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

In line component.

¹ Enter the equipment class name from EPRI 1025286, Appendix B: Classes of Equipment.

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 2 of 4

IP2

Status: Y N U**Seismic Walkdown Checklist (SWC) SWEL1-099**Equipment ID No. 0022IACAEquip. Class¹ 21Equipment Description INST AIR COMP 22 AFTERCOOLER

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.)

Not applicable since component is in-line.

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

*Yes, 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

Yes, 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 masonry brick wall was seismic qualified by Computech Report no. R547.01. Therefore, 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

Yes, attached lines 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

Yes, 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

IP2

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-099

Equipment ID No. 0022IACA

Equip. Class¹ 21

Equipment Description INST AIR COMP 22 AFTERCOOLER

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

Yes, we have looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment.

Comments (Additional pages may be added as necessary)

*References: Drawings and AWC
Drawings: 9321-F-3052, Rev 38, Equipment arrangement Control building.
AWC-001*

Evaluated by: Nick Crispell *Nick Crispell* Date: 10/9/12

Stephen Yuan *Step Y* 10/9/12

Dan Nuta *Dan Nuta* 10/9/12

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 4 of 4

IP2

Status: Y N U

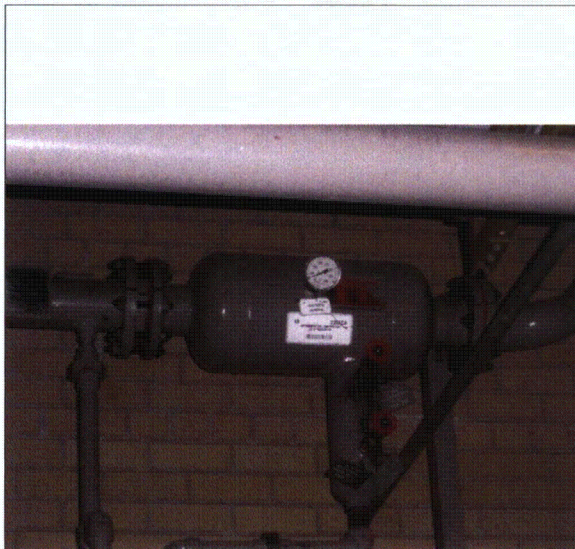
Seismic Walkdown Checklist (SWC) SWEL1-099

Equipment ID No. 0022IACA

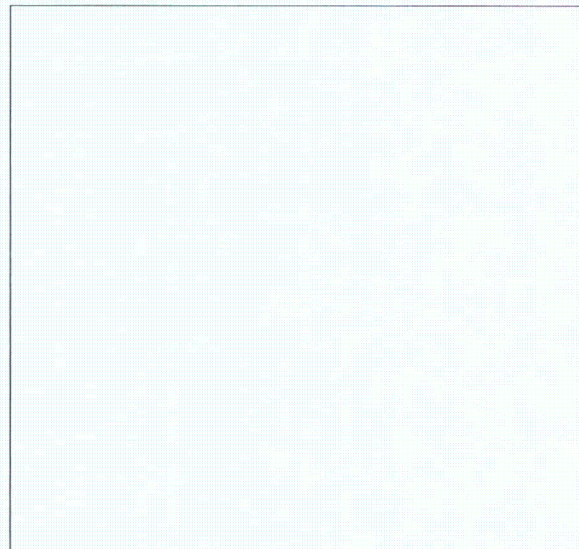
Equip. Class¹ 21

Equipment Description INST AIR COMP 22 AFTERCOOLER

Photographs



Note: *Inst Air Comp 22 Aftercoller.*



Note:

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-100

Equipment ID No. 0022EDSAT

Equip. Class¹ 21

Equipment Description START AIR TANK 22DG

Location: Bldg. EDG Floor El. 67'-0" Room, Area _____

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

Yes the anchorage configuration verification is required.

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

Yes 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

Minimal surface corrosion on anchors & tank side. Judged acceptable.

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

Coating is chipped on concrete pedestal and nearby floor. No noticable cracks of significance where observed. Acceptable.

¹ Enter the equipment class name from EPRI 1025286, Appendix B: Classes of Equipment.

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 2 of 5

IP2

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-100

Equipment ID No. 0022EDSAT

Equip. Class¹ 21

Equipment Description START AIR TANK 22DG

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

Anchorage matches SQUG (SEWS).

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

Yes 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

Conduits and unistruts near by tank are close to touching tank. 1/8" to 1/2" gap on some of the nearby conduits. All occurrences are judged acceptable given robustness of conduits and 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

Yes 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

Yes attached lines 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

Yes based on the above seismic interaction evaluations, the equipment is free of potentially adverse seismic interaction effects.

ATTACHMENT 9.6
Sheet 3 of 5

SEISMIC WALKDOWN CHECKLIST FORM
IP2

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-100

Equipment ID No. 0022EDSAT

Equip. Class¹ 21

Equipment Description START AIR TANK 22DG

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

Fire piping above uses threaded fittings that could leak and spray due to a seismic event. At time of walk down it was not known if the system was a dry or wet system. If they leak water the tank would remain operable.

Comments (Additional pages may be added as necessary)

References: Drawings and AWC
Drawings: 9321-H-2250, Rev 7, Diesel generator building general arrangement plan
9321-H-2251, Rev 5, Diesel generator building general arrangement sections.
AWC-011

| | | | |
|---------------|----------------------|-------|-------------------|
| Evaluated by: | <u>Stephen Yuan</u> | Date: | <u>10-16-2012</u> |
| | <u>Nick Crispell</u> | | <u>10-16-2012</u> |
| | <u>Dan Nuta</u> | | <u>10-16-2012</u> |

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 4 of 5

IP2

Seismic Walkdown Checklist (SWC) SWEL1-100

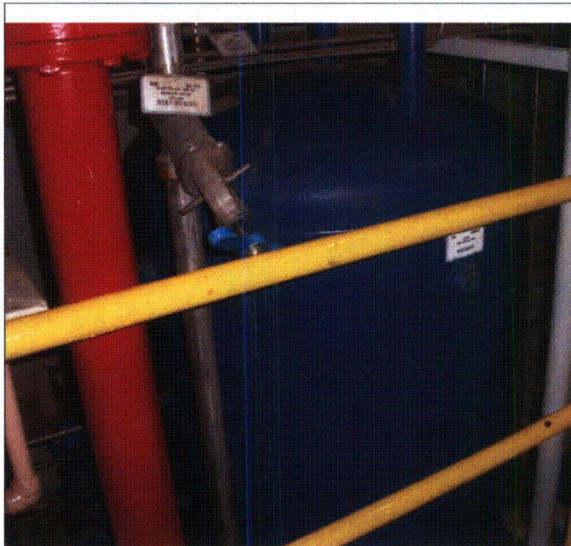
Status: Y N U

Equipment ID No. 0022EDSAT

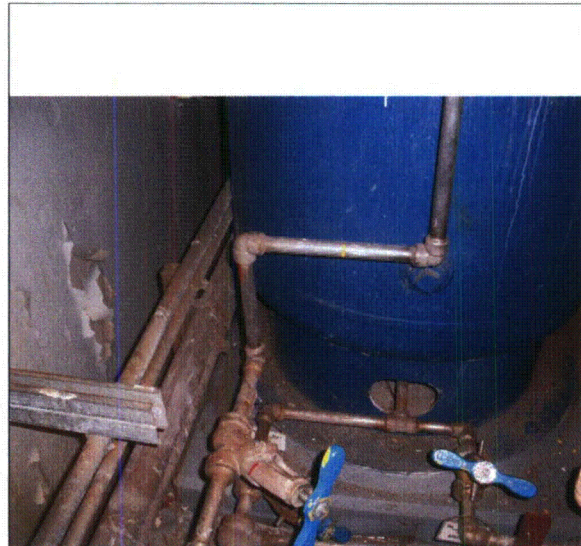
Equip. Class¹ 21

Equipment Description START AIR TANK 22DG

Photographs



Note: EDG starting air tank



Note: Base plate for starting air tank

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 5 of 5

IP2

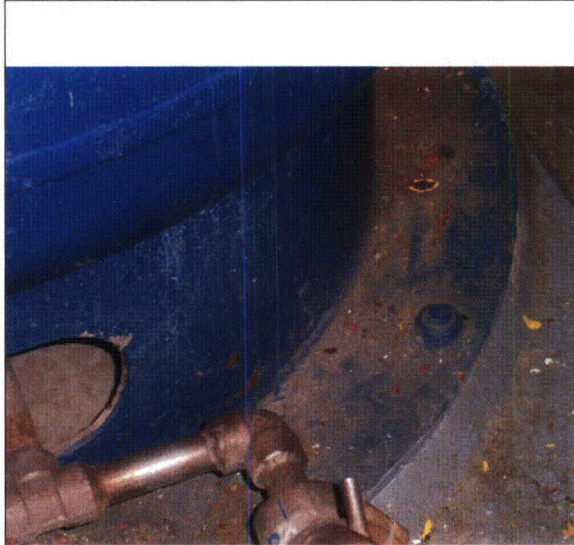
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Seismic Walkdown Checklist (SWC) SWEL1-100

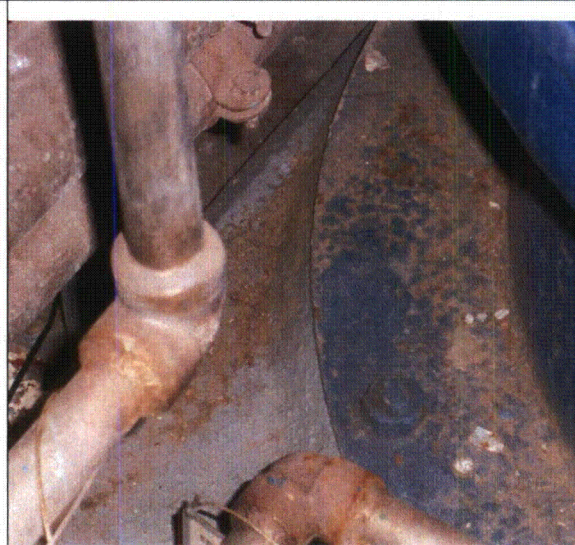
Equipment ID No. 0022EDSAT

Equip. Class¹ 21

Equipment Description START AIR TANK 22DG



Note: *Typical anchor bolt for 22EDSAT*



Note: *Typical anchor bolt for 22EDSAT*

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL2-001

Equipment ID No. 21RWPP Equip. Class¹ 5

Equipment Description Refueling Water Purification Pump 21 and Motor

Location: Bldg. PAB Floor El. 68 Room, Area _____

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

Yes 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

Yes the 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

Yes the anchorage is free of visible cracks in the concrete near the anchors.

¹ Enter the equipment class name from EPR1 1025286, Appendix B: Classes of Equipment.

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 2 of 5

IP2

Status: Y N U **Seismic Walkdown Checklist (SWC) SWEL2-001**Equipment ID No. 21RWPPEquip. Class¹ 5Equipment Description Refueling Water Purification Pump 21 and Motor

5. Is the anchorage configuration consistent with plant documentation? Y N U N/A

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

Anchorage matches drawing 9321-F-1167 & 9321-F-1166.

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

Yes 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

Yes 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

Yes 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

Yes attached lines 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

Yes 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 5

IP2

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL2-001

Equipment ID No. 21RWPP

Equip. Class¹ 5

Equipment Description Refueling Water Purification Pump 21 and Motor

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

Yes we have looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment.

Comments (Additional pages may be added as necessary)

References: Drawings and AWC

Drawings: 9321-F-1167, Rev 24, (A200107) Primary Auxiliary building concrete plans at elev. 59'-0" and 68'-0".

9321-F-1166, Rev 6, (A200106), Primary Auxiliary building concrete plans at elev. 15'-0", 35'-0" and 42'-0".

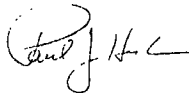
AWC-019

Evaluated by: Nick Crispell



Date: 10-19-2012

Paul Huebsch



10-19-2012

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 4 of 5

IP2

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL2-001

Equipment ID No. 21RWPP

Equip. Class¹ 5

Equipment Description Refueling Water Purification Pump 21 and Motor

Photographs



Note: 21RWPP



Note: 21RWPP

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 5 of 5

IP2

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL2-001

Equipment ID No. 21RWPP

Equip. Class¹ 5

Equipment Description Refueling Water Purification Pump 21 and Motor



Note: Typical anchorage



Note: Typical anchorage

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL2-002

Equipment ID No. 21SFPP

Equip. Class¹ 5

Equipment Description Spent Fuel Pit Pump 21 and Motor

Location: Bldg. FSB Floor El. 70'-0" Room, Area _____

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

Yes 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

Yes the 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

Yes the anchorage is free of visible cracks in the concrete near the anchors.

¹ Enter the equipment class name from EPRI 1025286, Appendix B: Classes of Equipment.

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 2 of 4

IP2

Status: Y N U **Seismic Walkdown Checklist (SWC) SWEL2-002**Equipment ID No. 21SFPPEquip. Class¹ 5Equipment Description Spent Fuel Pit Pump 21 and Motor

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

Anchorage matches drawing 9321-F-1197.

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

Yes the anchorage is free of visible cracks in the concrete near the anchors.

Interaction Effects

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

Yes 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

Light cage nearby looks to be cross threaded (Typical 3 lights). Missing glass dome inside cage (2 lights). CR IP2-2012-06744 tracks resolution of lighting issue.

Masonry block wall next to the SFP exchanger.

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

Yes overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls are not likely to collapse onto the equipment.

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

Yes based on the above seismic interaction evaluations, the equipment is free of potentially adverse seismic interaction effects.

EN-DC-168 REV 0

ATTACHMENT 9.6
Sheet 3 of 4

SEISMIC WALKDOWN CHECKLIST FORM
IP2

Seismic Walkdown Checklist (SWC) SWEL2-002

Status: Y N U

Equipment ID No. 21SFPP

Equip. Class¹ 5

Equipment Description Spent Fuel Pit Pump 21 and Motor

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

Yes we have looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment.

Comments (Additional pages may be added as necessary)

Pump has a boric acid leak showing signs under impeller as well as valves. Boric acid will be resolved by work order tags in the area. Label fell off.


Minor corrosion on structural beams overhead. No structural impact.

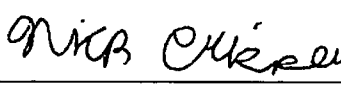
References: Drawings and AWC

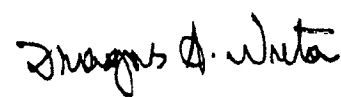
Drawings: 9321-F-2514, Rev 19, Fuel storage building general arrangement plans and elevations, Unit 2.

9321-F-1197, Rev 8, (A200137), Fuel storage building concrete details sheet 2

AWC-007

Evaluated by: Stephen Yuan  Date: 10/12/12

Nick Crispell  10/12/12

Dan Nuta  10/12/12

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 4 of 4

IP2

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL2-002

Equipment ID No. 21SFPP

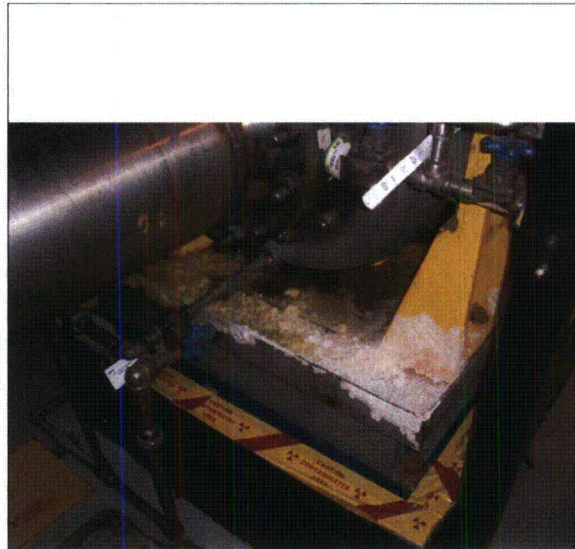
Equip. Class¹ 5

Equipment Description Spent Fuel Pit Pump 21 and Motor

Photographs



Note: SFP Pump



Note: SFP Pump

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 1 of 5

IP2

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL2-003

Equipment ID No. 22SFPP

Equip. Class¹ 5

Equipment Description Spent Fuel Pit Pump 22 and Motor

Location: Bldg. FSB Floor El. 70'-0" Room, Area _____

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

Yes 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

Yes the 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

Yes the anchorage is free of visible cracks in the concrete near the anchors.

¹ Enter the equipment class name from EPR1 1025286, Appendix B: Classes of Equipment.

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 2 of 5

IP2

Status: Y N U **Seismic Walkdown Checklist (SWC) SWEL2-003**Equipment ID No. 22SFPPEquip. Class¹ 5Equipment Description Spent Fuel Pit Pump 22 and Motor

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

Anchorage matches drawing 9321-1197.

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

*Yes 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

Yes 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

Yes 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

Yes attached lines 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

Yes based on the above seismic interaction evaluations, the equipment is free of potentially adverse seismic interaction effects.

EN-DC-168 REV 0

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 3 of 5

IP2

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL2-003

Equipment ID No. 22SFPP

Equip. Class¹ 5

Equipment Description Spent Fuel Pit Pump 22 and Motor

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

Yes we have looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment.

Comments (Additional pages may be added as necessary)

Pump has a boric acid leak showing signs under impeller, as well as valves. Leak is being worked by WRT IP2-06-WAJ-24968 per tag near leak. See photos below. This is not a seismic issue as no significant boric acid corrosion was observed.

References: Drawings and AWC

*Drawings: 9321-F-1197(A200137) Rev 8, Fuel storage building concrete details sheet-2
AWC-007*

| | | | |
|---------------|----------------------|-------|-----------------|
| Evaluated by: | <u>Stephen Yuan</u> | Date: | <u>10/12/12</u> |
| | <u>Nick Crispell</u> | | <u>10/12/12</u> |
| | <u>Dan Nuta</u> | | <u>10/12/12</u> |

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 4 of 5

IP2

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL2-003

Equipment ID No. 22SFPP

Equip. Class¹ 5

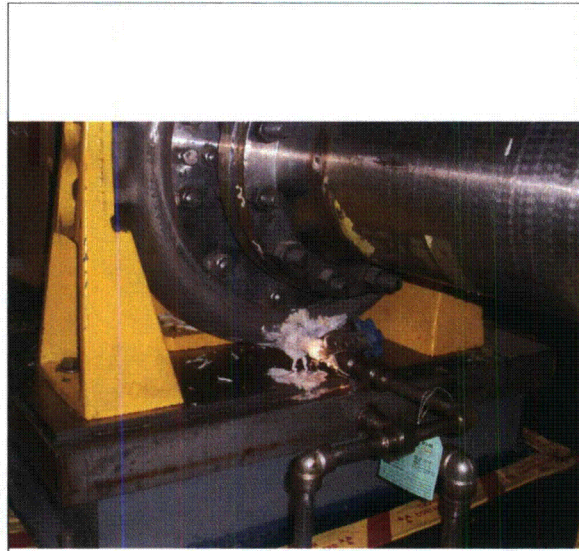
Equipment Description Spent Fuel Pit Pump 22 and Motor

Photographs



Note:

22SFPP



Note:

BORIC ACID LEAK

ATTACHMENT 9.6
Sheet 5 of 5

SEISMIC WALKDOWN CHECKLIST FORM
IP2

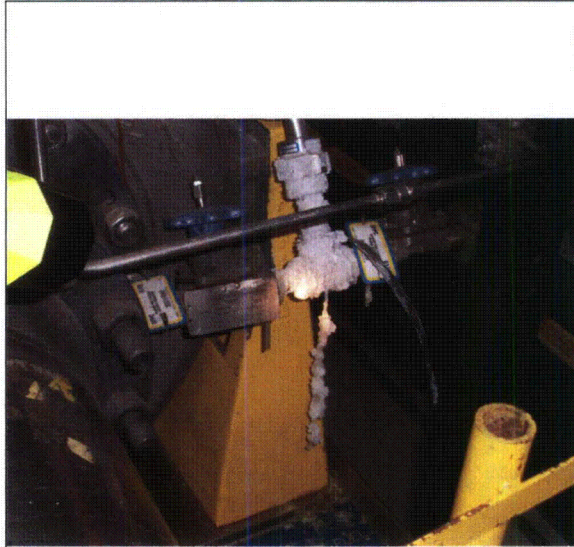
Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL2-003

Equipment ID No. 22SFPP

Equip. Class¹ 5

Equipment Description Spent Fuel Pit Pump 22 and Motor



Note:
BORIC ACID LEAK



Note:
BORIC ACID LEAK

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 1 of 4

IP2

Status: Y N U **Seismic Walkdown Checklist (SWC) SWEL2-004**Equipment ID No. 21SFPHXEquip. Class¹ 21Equipment Description Spent Fuel Pit Heat ExchangerLocation: Bldg. FSBFloor El. 80

Room, Area _____

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

Yes 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

Yes the 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

Yes the anchorage is free of visible cracks in the concrete near the anchors.

¹ Enter the equipment class name from EPRI 1025286, Appendix B: Classes of Equipment.

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 2 of 4

IP2

Status: Y N U **Seismic Walkdown Checklist (SWC) SWEL2-004**Equipment ID No. 21SFPHXEquip. Class¹ 21Equipment Description Spent Fuel Pit Heat Exchanger

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

Anchorage matches drawing 9321-F-1197.

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

*Yes based on the above seismic interaction evaluations, the
equipment is free of potentially adverse seismic interaction effects.*

Interaction Effects

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

*Yes 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

*Fluorescent bulbs need to be secured by wires. CR IP2-2012-06741
tracks the resolution. Falling bulb would break small diameter tubes
running to heat exchanger in seismic event.*

*Masonry wall is seismically qualified by computech report R547.01 per
SQUG SEWS.*

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

Yes attached lines 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

*Yes 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

IP2

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL2-004

Equipment ID No. 21SFPHX

Equip. Class¹ 21

Equipment Description Spent Fuel Pit Heat Exchanger

Other Adverse Conditions

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

Tubing (1/4") runing to CCW-4 is vibrating significantly. Its unsupported span length is approximately 6'. CR IP2-2012-06753 track the resolution.

Comments (Additional pages may be added as necessary)

One of the fluorescent bulb above is out. Needs to be replaced.

References: Drawings and AWC

Drawings: 9321-F-2514(A200629) Rev 19, Fuel storage building general arrangement plans and elevations.

9321-F-1197(A200137) Rev 8, Fuel storage building concrete details, sheet 2

AWC-008

Evaluated by: Nick Crispell *Nick Crispell* Date: 10/12/12

Stephen Yuan *Step Y* 10/12/12

Dan Nuta *Dan Nuta* 10/12/12

ATTACHMENT 9.6
Sheet 4 of 4

SEISMIC WALKDOWN CHECKLIST FORM
IP2

Seismic Walkdown Checklist (SWC) SWEL2-004

Status: Y N U

Equipment ID No. 21SFPHX

Equip. Class¹ 21

Equipment Description Spent Fuel Pit Heat Exchanger

Photographs



Note:

21SFPHX



Note:

One light above is out..

ATTACHMENT 9.6
Sheet 1 of 7

SEISMIC WALKDOWN CHECKLIST FORM
IP2

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL2-005

Equipment ID No. SFPBH Equip. Class¹ 0

Equipment Description Spent Fuel Pit Bridge Crane

Location: Bldg. FSB Floor El. 95'-0" Room, Area _____

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 not required.

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

Yes 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

Yes the 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

Yes the anchorage is free of visible cracks in the concrete near the anchors.

¹ Enter the equipment class name from EPR1 1025286, Appendix B: Classes of Equipment.

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 2 of 7

IP2

Status: Y N U **Seismic Walkdown Checklist (SWC) SWEL2-005**Equipment ID No. SFPBHEquip. Class¹ 0Equipment Description Spent Fuel Pit Bridge Crane

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.)

Not applicable since component is not part of the anchorage configuration verification.

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

Yes 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

Yes 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

Yes 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

Yes attached lines 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

Yes 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 7

IP2

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL2-005

Equipment ID No. SFPBH

Equip. Class¹ 0

Equipment Description Spent Fuel Pit Bridge Crane

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


Yes we have looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment.


Comments (Additional pages may be added as necessary)

References: Drawings and AWC

Drawings: 9321-F-2514, Rev 19, Fuel storage building general arrangement plans and elevations (Unit no. 2).

AWC-020

Evaluated by: Paul Huebsch  Date: 10-19-2012

Nick Crispell  10-19-2012

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 4 of 7

IP2

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL2-005

Equipment ID No. SFPBH

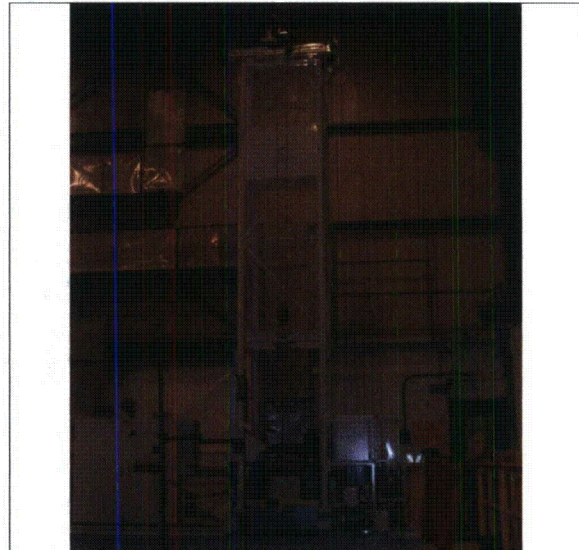
Equip. Class¹ 0

Equipment Description Spent Fuel Pit Bridge Crane

Photographs



Note: *Spent Fuel Pit Bridge Crane.*



Note: *Tower on Spent Fuel Pit Bridge Crane.*

Seismic Walkdown Checklist (SWC) SWEL2-005

Status: Y N U

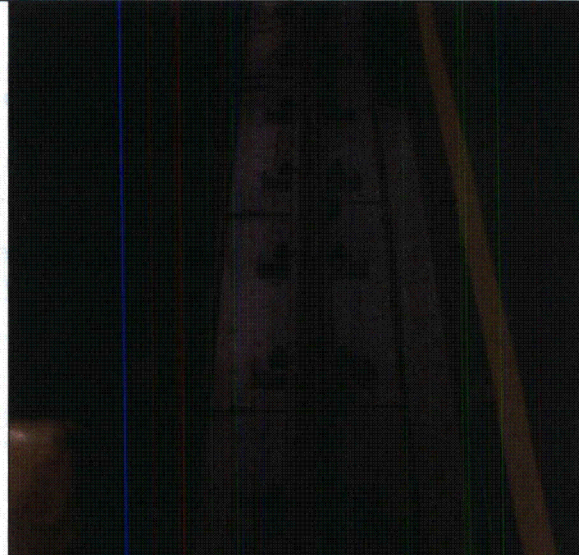
Equipment ID No. SFPBH

Equip. Class¹ 0

Equipment Description Spent Fuel Pit Bridge Crane



Note: Side view of Spent Fuel Pit Bridge Crane



Note: Rail clips

ATTACHMENT 9.6
Sheet 6 of 7

SEISMIC WALKDOWN CHECKLIST FORM
IP2

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL2-005

Equipment ID No. SFPBH

Equip. Class¹ 0

Equipment Description Spent Fuel Pit Bridge Crane



Note: Top of mast.



Note: Bottom of mast and operator platform.

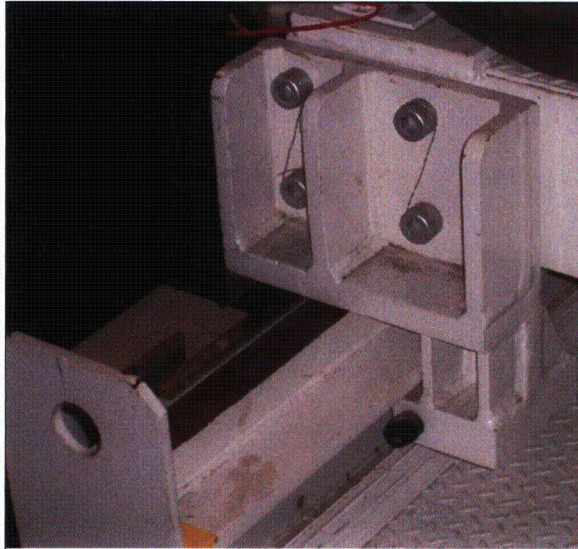
Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL2-005

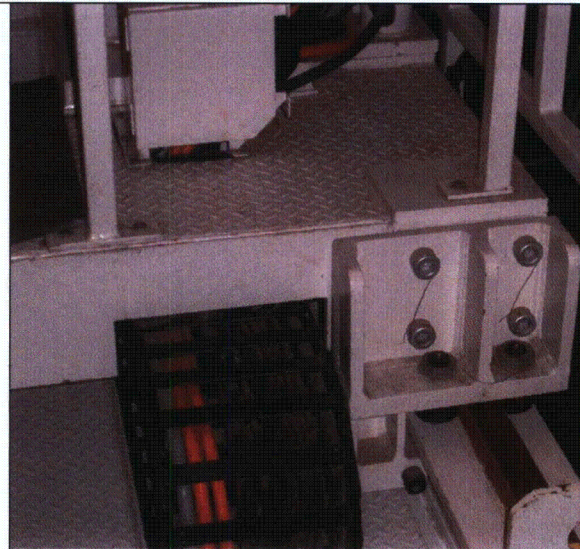
Equipment ID No. SFPBH

Equip. Class¹ 0

Equipment Description Spent Fuel Pit Bridge Crane



Note: Mast uplift bracket so mast will not topple over into the SFP do to a seismic event.



Note: Mast uplift bracket so mast will not topple over into the SFP do to a seismic event.

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 1 of 5

IP2

Status: Y N U Seismic Walkdown Checklist (SWC) SWEL2-006Equipment ID No. 40TFSBHEquip. Class¹ 1Equipment Description Fuel Storage Building 40/5 Ton CraneLocation: Bldg. FSB Floor El. 95'-0" Room, Area _____

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

No, the anchorage configuration verification is not required.

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

There are no visible defects.

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

There are no visible defects.

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

Yes, the anchorage is free of visible cracks in the concrete near the anchor.

¹ Enter the equipment class name from EPRI 1025286, Appendix B: Classes of Equipment.

ATTACHMENT 9.6**SEISMIC WALKDOWN CHECKLIST FORM**

Sheet 2 of 5

IP2

Status: Y N U **Seismic Walkdown Checklist (SWC) SWEL2-006**Equipment ID No. 40TFSBHEquip. Class¹ 1Equipment Description Fuel Storage Building 40/5 Ton Crane

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.)

Not applicable since component is not part of the anchorage configuration verification.

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

Yes 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

Not a soft target.

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

Yes 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

Yes attached lines 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

Yes 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 5

IP2

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL2-006

Equipment ID No. 40TFSBH

Equip. Class¹ 1

Equipment Description Fuel Storage Building 40/5 Ton Crane

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

Yes we have looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment.

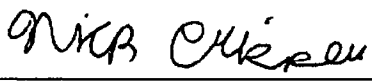
Comments (Additional pages may be added as necessary)

References: Drawings and AWC

Drawings: 9321-F-2514, Rev 19, General arrangement plans and elevations (Unit 2).

9321-F-1306(A200185), Rev 8, Fuel storage building framing plan at roof crane girders and platform elev. 96'-6"

AWC-020

Evaluated by: Nick Crispell  Date: 10/19/2012

Paul Huebsch  10/19/2012

ATTACHMENT 9.6
Sheet 4 of 5

SEISMIC WALKDOWN CHECKLIST FORM
IP2

Seismic Walkdown Checklist (SWC) SWEL2-006

Status: Y N U

Equipment ID No. 40TFSBH

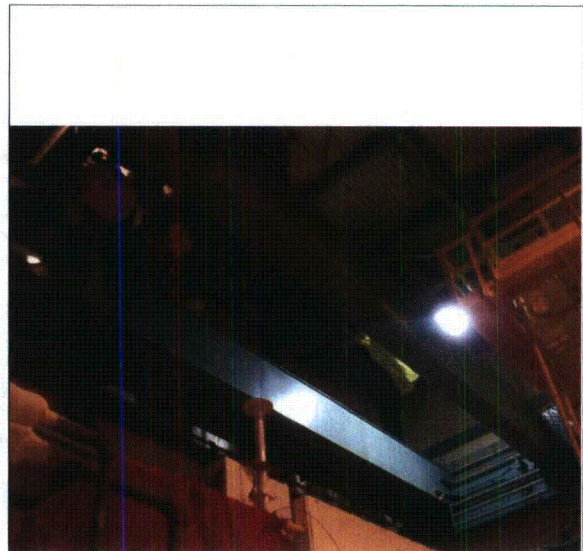
Equip. Class¹ 1

Equipment Description Fuel Storage Building 40/5 Ton Crane

Photographs



Note: *View of trolley.*



Note: *View of crane bridge.*

ATTACHMENT 9.6
Sheet 5 of 5

SEISMIC WALKDOWN CHECKLIST FORM
IP2

Seismic Walkdown Checklist (SWC) SWEL2-006

Status: Y N U

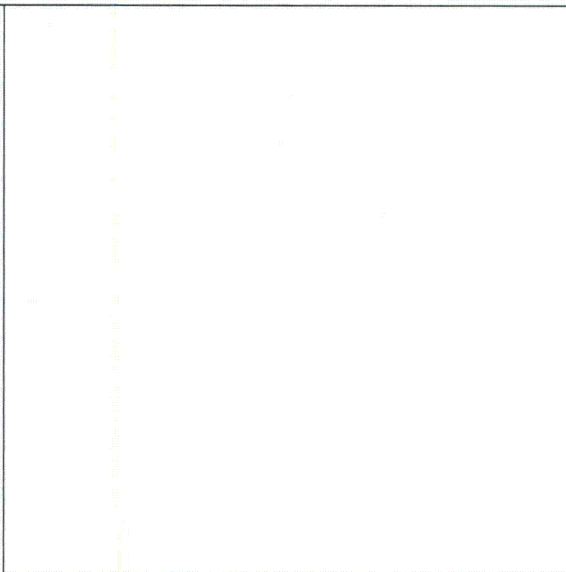
Equipment ID No. 40TFSBH

Equip. Class¹ 1

Equipment Description Fuel Storage Building 40/5 Ton Crane



Note: *General roof framing and diaphragm was inspected along with building walls.*



Note:

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 1 of 5

IP2

Status: Y N U Seismic Walkdown Checklist (SWC) SWEL2-007Equipment ID No. 110TF5BEquip. Class¹ 0Equipment Description Ederer Crane (Dry Fuel Storage)Location: Bldg. FSBFloor El. 95'-0"

Room, Area _____

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 not required.

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

Yes 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

Yes the 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

Yes the anchorage is free of visible cracks in the concrete near the anchors.

¹ Enter the equipment class name from EPRI 1025286, Appendix B: Classes of Equipment.

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 2 of 5

IP2

Status: Y N U **Seismic Walkdown Checklist (SWC) SWEL2-007**Equipment ID No. 110TFSBEquip. Class¹ 0Equipment Description Ederer Crane (Dry Fuel Storage)

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.)

Not applicable since component is not part of the anchorage configuration verification.

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

Yes 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

Not a soft target.

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

Yes 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

Yes attached lines 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

Yes 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 5

IP2

Seismic Walkdown Checklist (SWC) SWEL2-007

Status: Y N U

Equipment ID No. 110TFSB

Equip. Class¹ 0

Equipment Description Ederer Crane (Dry Fuel Storage)

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

Yes we have looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment.

Comments (Additional pages may be added as necessary)

References: Drawings and AWC

Drawings: 9321-F-2514, Rev 19, Fuel Storage building general arrangement, plans and elevations. (Unit no. 2).

AWC-020

Evaluated by: Paul Huebsch



Date: 10-19-2012

Nick Crispell



10-19-2012

ATTACHMENT 9.6
Sheet 4 of 5

SEISMIC WALKDOWN CHECKLIST FORM
IP2

Seismic Walkdown Checklist (SWC) SWEL2-007

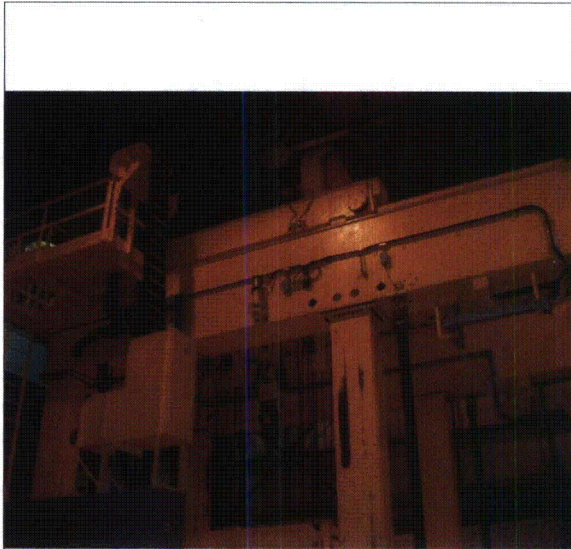
Status: Y N U

Equipment ID No. 110TFSB

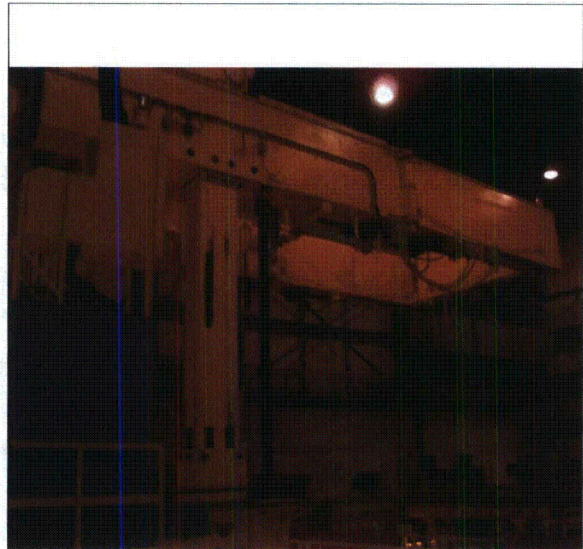
Equip. Class¹ 0

Equipment Description Ederer Crane (Dry Fuel Storage)

Photographs



Note: *Top of crane and trolley.*



Note: *Crane extended to right over top of SFP.*

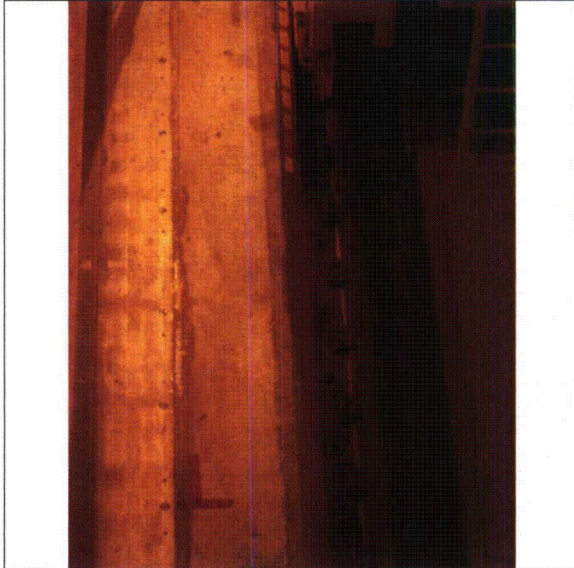
Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL2-007

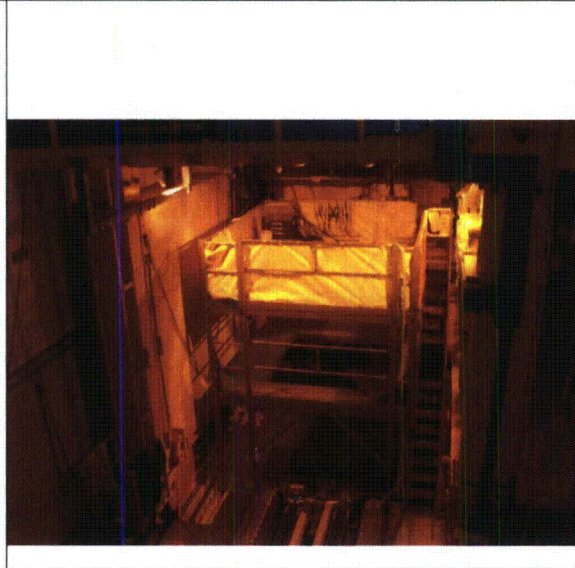
Equipment ID No. 110TFSB

Equip. Class¹ 0

Equipment Description Ederer Crane (Dry Fuel Storage)



Note: Rail clips for crane.



Note: Base of crane and counter weights.

ATTACHMENT D – AREA WALK-BY CHECKLISTS (AWCs)

ATTACHMENT 9.7**AREA WALK-BY CHECKLIST**

Sheet 1 of 5

IP2Status: Y N U **Area Walk-By Checklist (AWC) AWC-001**Location: Bldg. CB Floor El. 15'-0" Room, Area¹ _____**SWEL Components: SWEL1-017, 019, 024, 051, 058, 059, 099****Instructions for Completing Checklist**

This checklist may be used to document the results of the Area Walk-By near one or more SWEL items. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

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

Yes anchorage of equipment in the area appears to be free of potentially adverse seismic conditions.

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

Minor surface corrosion noted. Judged insignificant.

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

Conduit east of column J8,10.1 missing anchor bolt to brick wall for conduit for instrument air SOV-1199. No operability issue conduit spans less than 8'. Conduit anchorage condition was documented in CR- IP2-2012-06495.

Conduit east of column H6,10.1 missing anchor to brick wall for conduit to IACC TC-1106S. No operability issue conduit spans less than 8'. Was documented in CR- IP2-2012-06495.

Unistrut supporting cable tray overhead half way between instrument air compressor 21 and double doors to transformer yard is wrapped with temporary paper and tape preventing inspection of two unistrut joints. Observation was noted in CR IP2-2012-06495 and this is not a seismic concern.

All of the above concerns are accepted.

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

ATTACHMENT 9.7

AREA WALK-BY CHECKLIST

Sheet 2 of 5

IP2

Status: Y N U Area Walk-By Checklist (AWC) AWC-001Location: Bldg. CB Floor El. 15'-0" Room, Area¹ _____SWEL Components: SWEL1-017, 019, 024, 051, 058, 059, 099

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

Masonry (brick & block) walls are in the area are seismically qualified per Computech report R547.01.

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

Component cooling water in room is judged to be adequately supported and therefore will not cause flooding or spray interactions.

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

Yes it appears that the area is free of potentially adverse seismic spatial interactions with other equipment in the area.

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

Carts near double doors to transformer yard are adequately secured with chains.

Portable ladder near double doors is laid down and secured only on one end allowing other end to slide freely on the floor. Discussed with operations personnel in area and they corrected the problem immediately. CR IP2-2012-06495 issued for tracking.

All of the above concerns are acceptable. No seismic concern

EN-DC-168 REV 0

ATTACHMENT 9.7

AREA WALK-BY CHECKLIST

Sheet 3 of 5

IP2

Status: Y N U

Area Walk-By Checklist (AWC) AWC-001

Location: Bldg. CB Floor El. 15'-0" Room, Area¹ _____



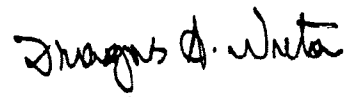
SWEL Components: SWEL1-017, 019, 024, 051, 058, 059, 099

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

Yes we have looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment in the area.

Comments (Additional pages may be added as necessary)

No more seismic concerns.

| | | |
|------------------------------------|---|------------------------|
| Evaluated by: <u>Nick Crispell</u> |  | Date: <u>10-8-2012</u> |
| <u>Stephen Yuan</u> |  | <u>10-8-2012</u> |
| <u>Dan Nuta</u> |  | <u>10-8-2012</u> |

ATTACHMENT 9.7

AREA WALK-BY CHECKLIST

Sheet 4 of 5

IP2

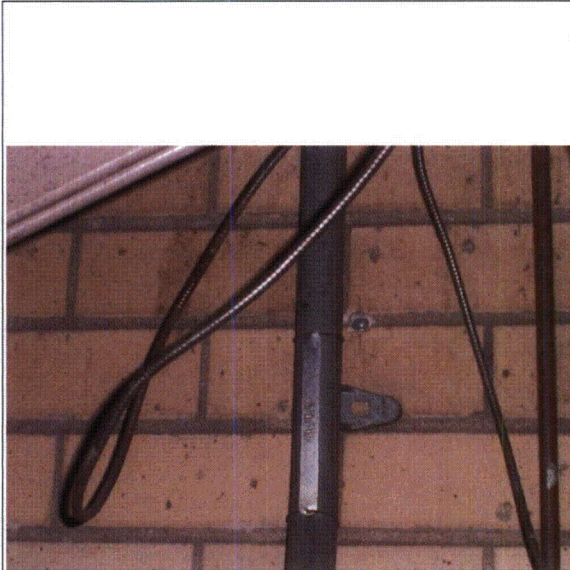
Status: Y N U

Area Walk-By Checklist (AWC) AWC-001

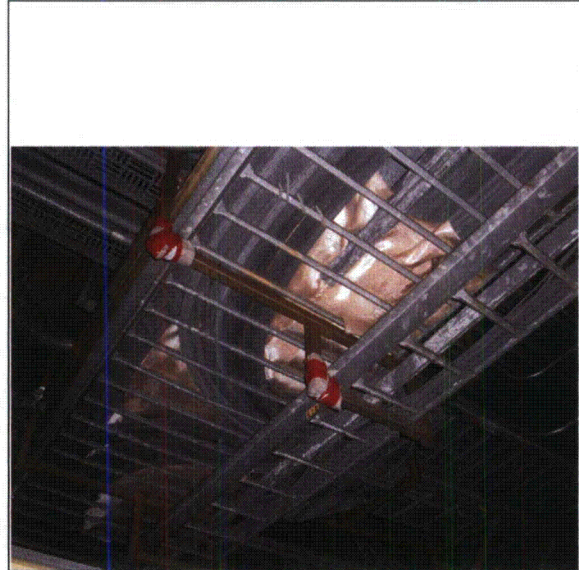
Location: Bldg. CB Floor El. 15'-0" Room, Area¹ _____

SWEL Components: SWEL1-017, 019, 024, 051, 058, 059, 099

Photographs



Note: Missing conduit anchor on instrument air SOV-1199.



Note: Taped and paper rapped unistrut connections supporting cable tray.

ATTACHMENT 9.7

AREA WALK-BY CHECKLIST

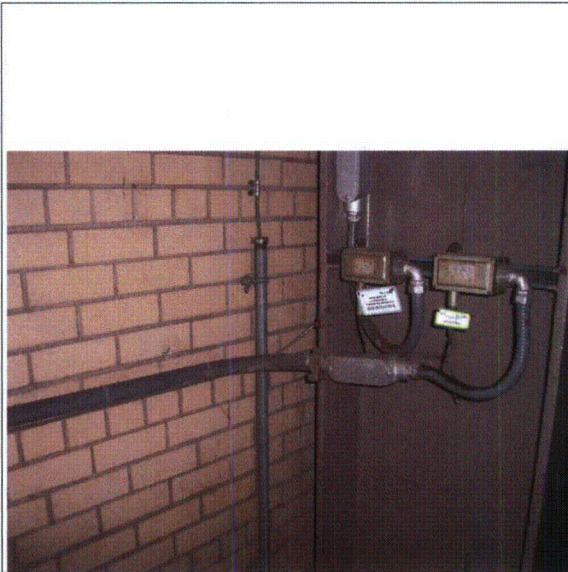
Sheet 5 of 5

IP2
Status: Y N U

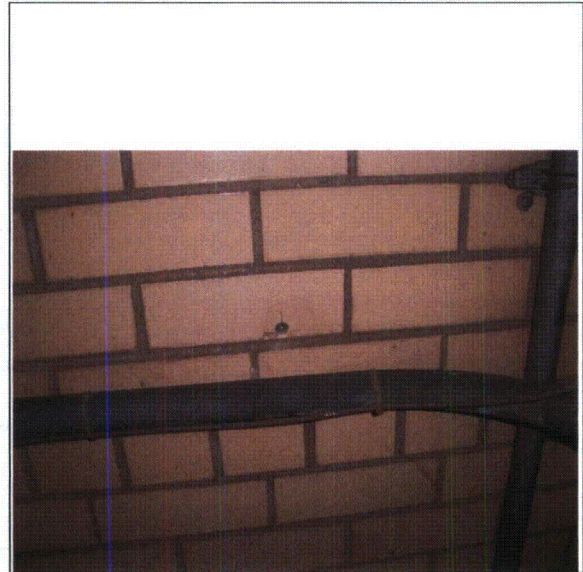
Area Walk-By Checklist (AWC) AWC-001

Location: Bldg. CB Floor El. 15'-0" Room, Area¹ _____

SWEL Components: SWEL1-017, 019, 024, 051, 058, 059, 099



Note: Missing conduit anchor on IACC TC-1106S.
Conduit support spacing judged acceptable.
CR IP2-2012-06495 issued for tracking.



Note: Missing conduit anchor on IACC TC-1106S

ATTACHMENT 9.7

AREA WALK-BY CHECKLIST

Sheet 1 of 4

IP2

Status: Y N U

Area Walk-By Checklist (AWC) AWC-002

Location: Bldg. CB Floor El. 15'-0" Room, Area¹ _____

SWEL Components: SWEL1-013, 014, 016, 065, 066, 089

Instructions for Completing Checklist

This checklist may be used to document the results of the Area Walk-By near one or more SWEL items. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

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

Yes anchorage of equipment in the area appears to be free of potentially adverse seismic conditions.

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

Slight surface corrosion acceptable.

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

Yes based on a visual inspection from the floor, the cable/conduit raceways and HVAC ducting appears to be free of potentially adverse seismic conditions.

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

ATTACHMENT 9.7

AREA WALK-BY CHECKLIST

Sheet 2 of 4

IP2

Status: Y N U Area Walk-By Checklist (AWC) AWC-002Location: Bldg. CB Floor El. 15'-0" Room, Area¹ _____SWEL Components: SWEL1-013, 014, 016, 065, 066, 089

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

Masonry (brick & block) walls in the area are seismically qualified per Computech report R547.01.

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

Component cooling water in room is judged to be adequately supported and therefore will not cause flooding or spray interactions.

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

Yes it appears that the area is free of potentially adverse seismic interactions that could cause a fire in the area.

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

Portable ladder near double doors is laid down and secured only on one end allowing other end to slide freely on the floor. Discussed with operations personnel in area and they corrected the problem in our presence.

ATTACHMENT 9.7

AREA WALK-BY CHECKLIST

Sheet 3 of 4

IP2

Status: Y N U

Area Walk-By Checklist (AWC) AWC-002

Location: Bldg. CB Floor El. 15'-0" Room, Area¹ _____



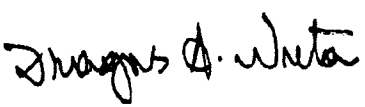
SWEL Components: SWEL1-013, 014, 016, 065, 066, 089

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

Yes we have looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment in the area.

Comments (Additional pages may be added as necessary)

No more seismic concerns.

| | | |
|------------------------------------|---|------------------------|
| Evaluated by: <u>Nick Crispell</u> |  | Date: <u>10-8-2012</u> |
| <u>Stephen Yuan</u> |  | <u>10-8-2012</u> |
| <u>Dan Nuta</u> |  | <u>10-8-2012</u> |

ATTACHMENT 9.7

AREA WALK-BY CHECKLIST

Sheet 4 of 4

IP2

Status: Y N U

Area Walk-By Checklist (AWC) AWC-002

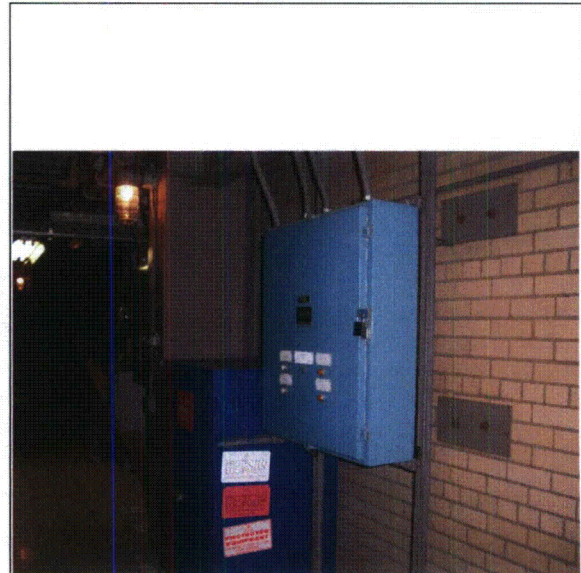
Location: Bldg. CB Floor El. 15'-0" Room, Area¹ _____

SWEL Components: SWEL1-013, 014, 016, 065, 066, 089

Photographs



Note: Ladder top that is unsecured.



Note: Masonry brick wall. Wall sandwich plates are not on the entire length of wall.

ATTACHMENT 9.7**AREA WALK-BY CHECKLIST**

Sheet 1 of 5

IP2

Status: Y N U Area Walk-By Checklist (AWC) AWC-003Location: Bldg. CB Floor El. 33'-0" Room, Area¹ _____SWEL Components: SWEL1-018, 015, 061, 062**Instructions for Completing Checklist**

This checklist may be used to document the results of the Area Walk-By near one or more SWEL items. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

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

Yes anchorage of equipment in the area appears to be free of potentially adverse seismic conditions.

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

Yes anchorage of equipment in the area appears to be free of significant degraded conditions.

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

Cable tray support frame (over top of 22 MG SET) appears too close to the conduit west of the frame. The frame might interact with the conduit. Additionally the cable tray support frame does not appear to be seismically designed. This is documented in CR-IP2-2012-06498 and evaluated in LB-01.

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

Some florescent bulbs need wires securing the bulb to the fixture. CR IP2-2012-06120 tracks resolution of this issue. Not a seismic issue given location of bulbs and targets in the area. Bulbs are to be secured as a good seismic housekeeping practice.

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

ATTACHMENT 9.7

AREA WALK-BY CHECKLIST

Sheet 2 of 5

IP2

Status: Y N U

Area Walk-By Checklist (AWC) AWC-003

Location: Bldg. CB Floor El. 33'-0" Room, Area¹ _____

SWEL Components: SWEL1-018, 015, 061, 062

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

Yes it appears that the area is free of potentially adverse seismic interactions that could cause flooding or spray in the area.

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

Yes it appears that the area is free of potentially adverse seismic interactions that could cause a fire in the area.

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

The engine hoist tool located on the north wall needs to be tied more securely to the fixed post. Hoist can roll side to side along wall and impact the nearby instrument rack. See photo below. CR IP2-2012-6135 issued to resolves.

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

Yes we have looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment in the area.

Comments (Additional pages may be added as necessary)

ATTACHMENT 9.7

AREA WALK-BY CHECKLIST

Sheet 3 of 5

IP2

Status: Y N U

Area Walk-By Checklist (AWC) AWC-003

Location: Bldg. CB Floor El. 33'-0" Room, Area¹ _____

SWEL Components: SWEL1-018, 015, 061, 062

A few bolts on equipment cover panels are missing. See photos below. Cover panels judged acceptable during seismic event. CR IP2-2012-06155 issued to track resolution. See SWEL1-015 for reference.

Door hold down missing on upper small box. See photos below. Box judged acceptable during a seismic event. CR IP2-2012-06155 issued to track resolution.

References:

CR IP2-2012-06155

CR IP2-2012-6135

Evaluated by: Nick Crispell

Nick Crispell

Date: 10-10-2012

Stephen Yuan

Steph

10-10-2012

Dan Nuta

Dan Nuta

10-10-2012

ATTACHMENT 9.7

AREA WALK-BY CHECKLIST

Sheet 4 of 5

IP2

Status: Y N U

Area Walk-By Checklist (AWC) AWC-003

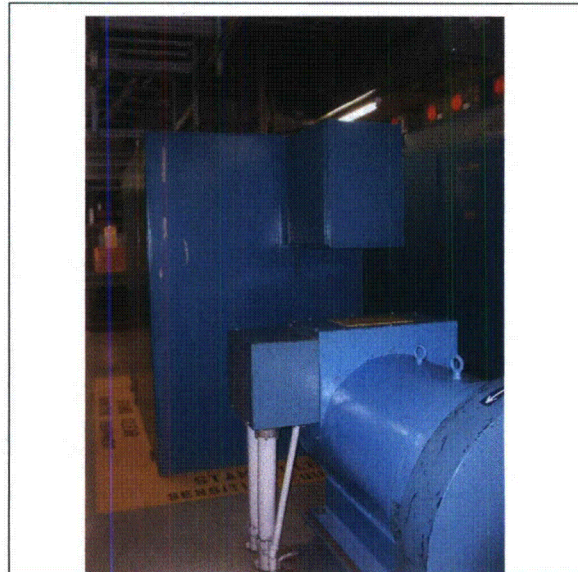
Location: Bldg. CB Floor El. 33'-0" Room, Area¹ _____

SWEL Components: SWEL1-018, 015, 061, 062

Photographs



Note: Engine hoist needing to be secured to the cross bars to prevent movement from left to right in this photo.



Note: Panel on west side of reactor/turbine trip cabinet missing 2 bolts.

ATTACHMENT 9.7

AREA WALK-BY CHECKLIST

Sheet 5 of 5

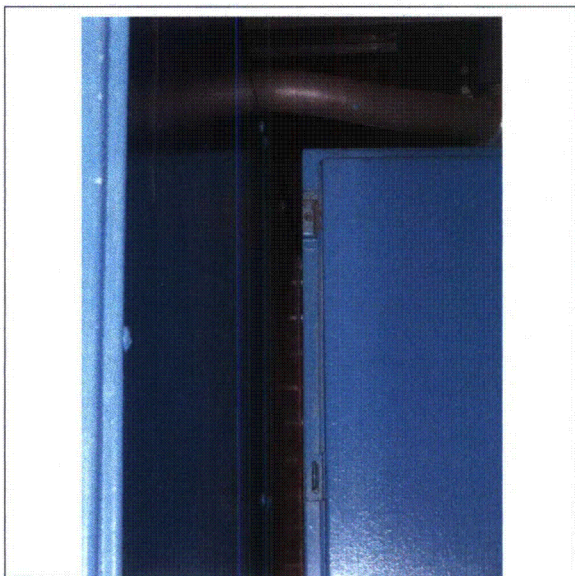
IP2

Status: Y N U

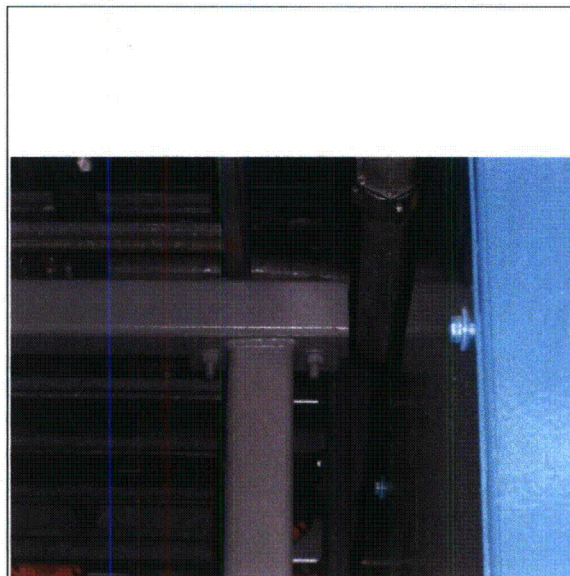
Area Walk-By Checklist (AWC) AWC-003

Location: Bldg. CB Floor El. 33'-0" Room, Area¹ _____

SWEL Components: SWEL1-018, 015, 061, 062



Note: Cabinet hanging on west side of reactor/turbine trip cabinet missing top latch.



Note: Cable tray support over top of 22 MG SET and next to Reactor Trip Breaker cabinet appears to be none seismically designed and appears to have a seismic separation issue with the conduit pictured. Tray support is the tube steel pictured.

ATTACHMENT 9.7**AREA WALK-BY CHECKLIST**

Sheet 1 of 5

IP2

Status: Y N U **Area Walk-By Checklist (AWC) AWC-004**Location: Bldg. CB Floor El. 33'-0" Room, Area¹ _____**SWEL Components: SWEL1-011, 012, 018, 067, 072, 073, 074, 075****Instructions for Completing Checklist**

This checklist may be used to document the results of the Area Walk-By near one or more SWEL items. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

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

One anchor bolt is missing on baseplate for EL1A & EL4A support along north wall. Plant drawing 309189-00 allows 3 anchors in this baseplate therefore acceptable.

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

Yes anchorage of equipment in the area appears to be free of significant degraded conditions.

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

Yes based on a visual inspection from the floor, the cable/conduit raceways and HVAC ducting appears to be free of potentially adverse seismic conditions.

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

ATTACHMENT 9.7

AREA WALK-BY CHECKLIST

Sheet 2 of 5

IP2

Status: Y N U

Area Walk-By Checklist (AWC) AWC-004

Location: Bldg. CB Floor El. 33'-0" Room, Area¹ _____

SWEL Components: SWEL1-011, 012, 018, 067, 072, 073, 074, 075

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

Some fluorescent bulbs need to be secured to the light fixture with wires and a bulb is missing in the light behind MCC27A. Not a seismic concern given location of bulbs and hard target in the area. CR IP2-2012-06120 securing bulbs to light fixtures for good seismic housekeeping.

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

Yes it appears that the area is free of potentially adverse seismic interactions that could cause flooding or spray in the area.

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

Yes it appears that the area is free of potentially adverse seismic interactions that could cause a fire in the area.

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

Lighting panel 219 door slightly ajar (not closed/latched). Operations personnel shut panel in our presence. CR IP2-2012-06119 issued to ensure the issue does not happen again.

23DC Power Panel door not closed. Latch is broken and latch is missing parts. CR IP2-2012-06117 was issued for tracking.

24DC Power PNL has latches in the open position. Door is shut and multiple other latches on door are in closed position. CR IP2-2012-06117 was issued for tracking.

ATTACHMENT 9.7

AREA WALK-BY CHECKLIST

Sheet 3 of 5

IP2

Status: Y N U

Area Walk-By Checklist (AWC) AWC-004

Location: Bldg. CB Floor El. 33'-0" Room, Area¹ _____

SWEL Components: SWEL1-011, 012, 018, 067, 072, 073, 074, 075

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

Yes we have looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment in the area.

Comments (Additional pages may be added as necessary)

No more seismic concerns.

Evaluated by: Nick Crispell

Nick Crispell

Date: 10-10-2012

Stephen Yuan

Stephen Yuan

10-10-2012

Dan Nuta

Dan Nuta

10-10-2012

ATTACHMENT 9.7

AREA WALK-BY CHECKLIST

Sheet 4 of 5

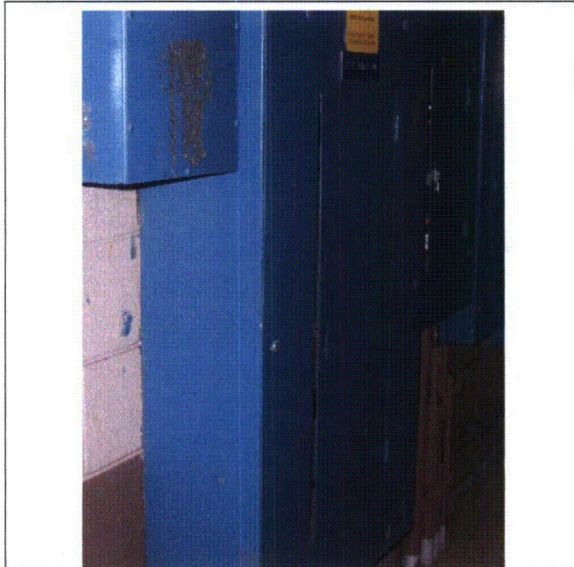
Status: Y N U IP2

Area Walk-By Checklist (AWC) AWC-004

Location: Bldg. CB Floor El. 33'-0" Room, Area¹ _____

SWEL Components: SWEL1-011, 012, 018, 067, 072, 073, 074, 075

Photographs



Note: 23DC Power Panel door not closed. Latch is broken and latch is missing parts.



Note: 24DC Power PNL has latches in the open position. Door is shut and multiple other latches on door are in closed position.

ATTACHMENT 9.7

AREA WALK-BY CHECKLIST

Sheet 5 of 5

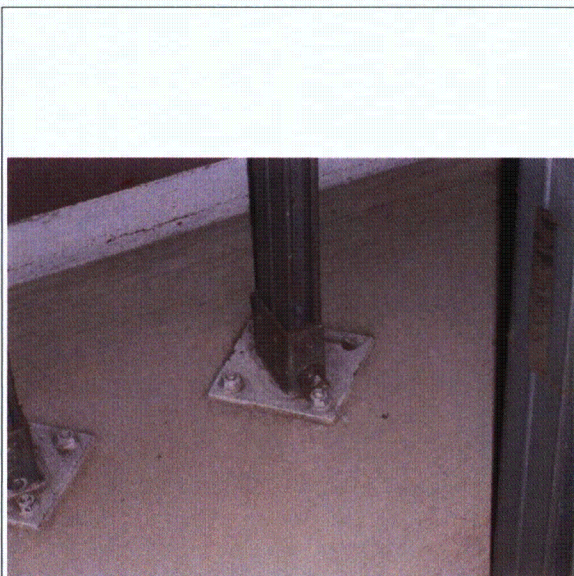
IP2

Status: Y N U

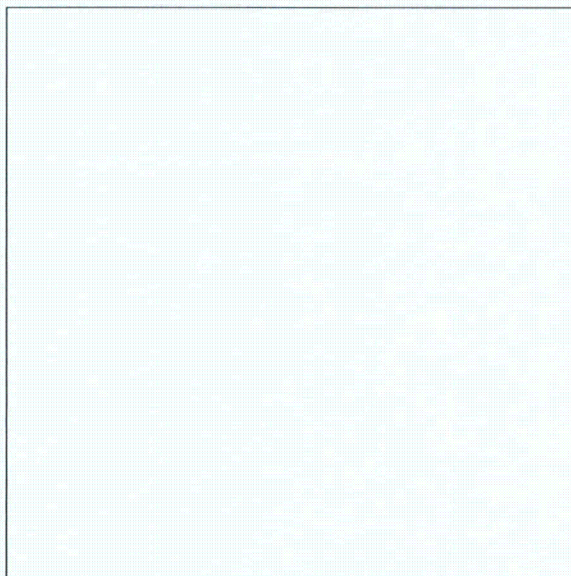
Area Walk-By Checklist (AWC) AWC-004

Location: Bldg. CB Floor El. 33'-0" Room, Area¹ _____

SWEL Components: SWEL1-011, 012, 018, 067, 072, 073, 074, 075



Note: Anchor bolt is missing on baseplate for EL1A & EL4A support along north wall.



Note:

ATTACHMENT 9.7

AREA WALK-BY CHECKLIST

Sheet 1 of 4

IP2

Status: Y N U Area Walk-By Checklist (AWC) AWC-005Location: Bldg. CB Floor El. 33'-0" Room, Area¹ 22 Battery RoomSWEL Components: SWEL 1-069**Instructions for Completing Checklist**

This checklist may be used to document the results of the Area Walk-By near one or more SWEL items. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

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

Yes anchorage of equipment in the area appears to be free of potentially adverse seismic conditions.

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

Yes anchorage of equipment in the area appears to be free of significant degraded conditions.

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

Yes based on a visual inspection from the floor, the cable/conduit raceways and HVAC ducting appears to be free of potentially adverse seismic conditions.

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

ATTACHMENT 9.7

AREA WALK-BY CHECKLIST

Sheet 2 of 4

IP2

Status: Y N U

Area Walk-By Checklist (AWC) AWC-005

Location: Bldg. CB Floor El. 33'-0" Room, Area¹ 22 Battery Room

SWEL Components: SWEL 1-069

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

Some fluorescent bulbs need to be secured to the light fixture with wires. This is judged not to be a seismic concern given hard target batteries below. CR IP2-2012-06120 securing bulbs for good seismic housekeeping.

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

Yes it appears that the area is free of potentially adverse seismic interactions that could cause flooding or spray in the area.

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

Yes it appears that the area is free of potentially adverse seismic interactions that could cause a fire in the area.

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

Yes it appears that the area is free of potentially adverse seismic interactions associated with housekeeping practices, storage of portable equipment, and temporary installations.

ATTACHMENT 9.7

AREA WALK-BY CHECKLIST

Sheet 3 of 4

IP2

Status: Y N U

Area Walk-By Checklist (AWC) AWC-005

Location: Bldg. CB Floor El. 33'-0" Room, Area¹ 22 Battery Room

SWEL Components: SWEL1-069

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

Yes we have looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment in the area.

Comments (Additional pages may be added as necessary)

Lose 12" long steel member (construction waist) found lying on floor under the battery rack located in the south-east corner of room. This is considered to be not a seismic concern. CR IP2-2012-06510 issued to remove the item.

Evaluated by: Nick Crispell

Nick Crispell

Date: 10-10-2012

Stephen Yuan

Stephen Yuan

10-10-2012

Dan Nuta

Dan Nuta

10-10-2012

ATTACHMENT 9.7

AREA WALK-BY CHECKLIST

Sheet 4 of 4

IP2

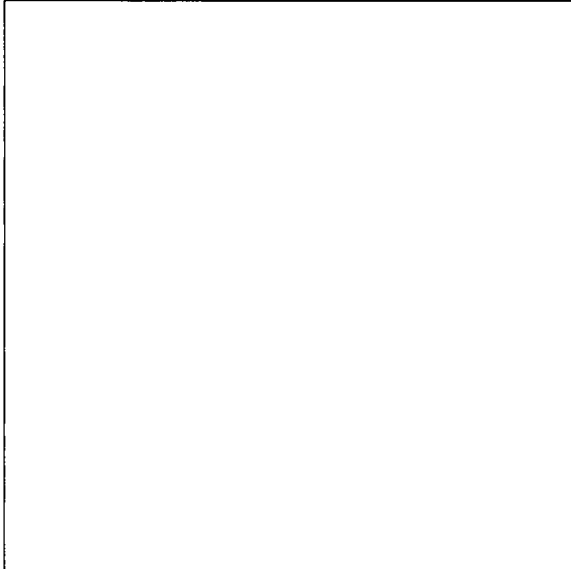
Status: Y N U

Area Walk-By Checklist (AWC) AWC-005

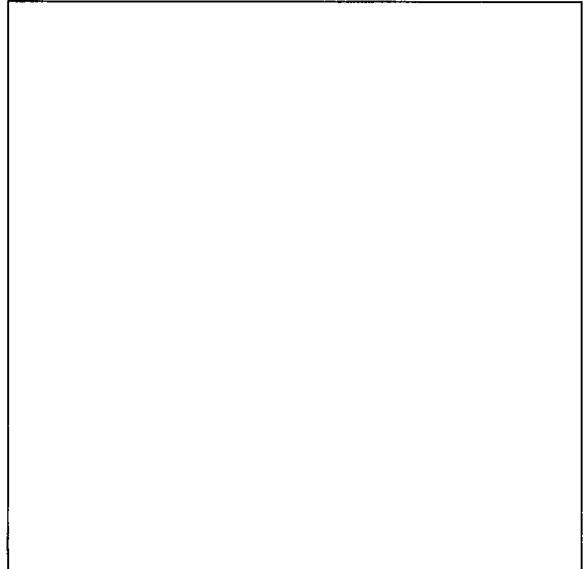
Location: Bldg. CB Floor El. 33'-0" Room, Area¹ 22 Battery Room

SWEL Components: SWEL1-069

Photographs



Note: *Pictures could not be taken while meeting the procedural camera standoff requirements.*



Note:

ATTACHMENT 9.7**AREA WALK-BY CHECKLIST**

Sheet 1 of 4

IP2

Status: Y N U Area Walk-By Checklist (AWC) AWC-006Location: Bldg. CB Floor El. 33'-0" Room, Area¹ 21 Battery RoomSWEL Components: SWEL 1-068**Instructions for Completing Checklist**

This checklist may be used to document the results of the Area Walk-By near one or more SWEL items. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

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

Yes anchorage of equipment in the area appears to be free of potentially adverse seismic conditions.

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

Yes anchorage of equipment in the area appears to be free of significant degraded conditions.

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

Yes based on a visual inspection from the floor, the cable/conduit raceways and HVAC ducting appears to be free of potentially adverse seismic conditions.

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

ATTACHMENT 9.7**AREA WALK-BY CHECKLIST**

Sheet 2 of 4

IP2

Status: Y N U Area Walk-By Checklist (AWC) AWC-006Location: Bldg. CB Floor El. 33'-0" Room, Area¹ 21 Battery RoomSWEL Components: SWEL1-068

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

One light needs to have a safety cover. This is not a seismic concern given hard target batteries below light. CR IP2-2012-06120 safety cover installation as a good seismic housekeeping practice.

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

Yes it appears that the area is free of potentially adverse seismic interactions that could cause flooding or spray in the area.

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

Yes it appears that the area is free of potentially adverse seismic interactions that could cause a fire in the area.

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

Yes it appears that the area is free of potentially adverse seismic interactions associated with housekeeping practices, storage of portable equipment, and temporary installations.

ATTACHMENT 9.7

AREA WALK-BY CHECKLIST

Sheet 3 of 4

IP2

Status: Y N U

Area Walk-By Checklist (AWC) AWC-006

Location: Bldg. CB Floor El. 33'-0" Room, Area¹ 21 Battery Room

SWEL Components: SWEL1-068

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

Yes we have looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment in the area.

Comments (Additional pages may be added as necessary)

No comments.

Evaluated by: Nick Crispell

Nick Crispell

Date: 10-10-2012

Stephen Yuan

Stephen Yuan

10-10-2012

Dan Nuta

Dan Nuta

10-10-2012

ATTACHMENT 9.7

AREA WALK-BY CHECKLIST

Sheet 4 of 4

IP2

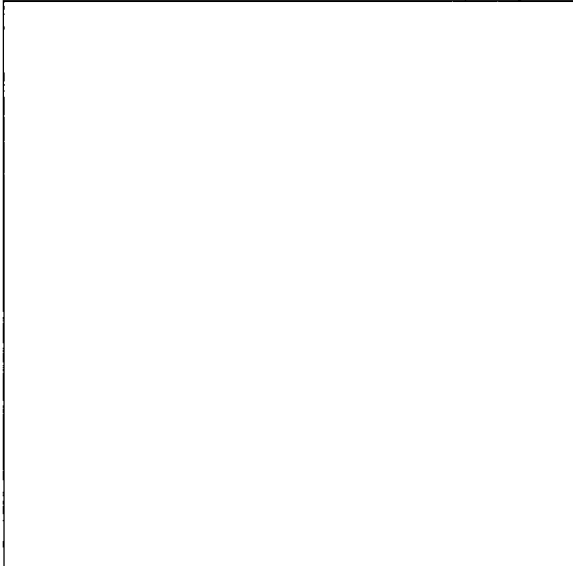
Status: Y N U

Area Walk-By Checklist (AWC) AWC-006

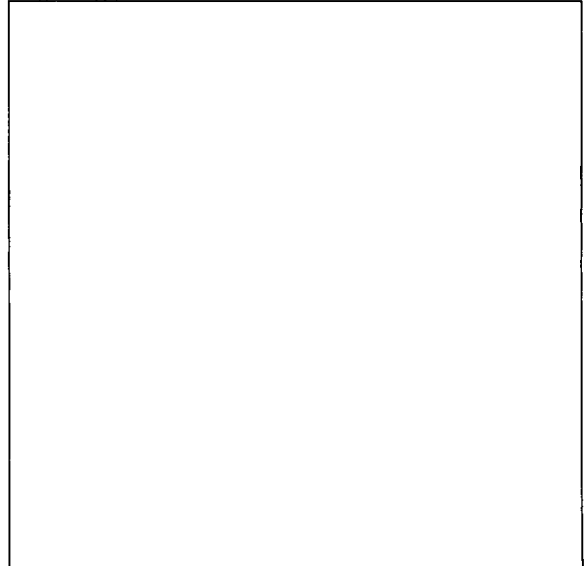
Location: Bldg. CB Floor El. 33'-0" Room, Area¹ 21 Battery Room

SWEL Components: SWEL1-068

Photographs



Note: *Pictures could not be taken while meeting the procedural camera standoff requirements.*



Note:

ATTACHMENT 9.7**AREA WALK-BY CHECKLIST**

Sheet 1 of 6

IP2Status: Y N U **Area Walk-By Checklist (AWC) AWC-007**Location: Bldg. FSB Floor El. 70' Room, Area¹ SFP Pump Room**SWEL Components: SWEL2-002, 003****Instructions for Completing Checklist**

This checklist may be used to document the results of the Area Walk-By near one or more SWEL items. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

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

Yes anchorage of equipment in the area appears to be free of potentially adverse seismic conditions.

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

Minor surface corrosion on pipe hangers in area. Not significant.

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

Yes based on a visual inspection from the floor, the cable/conduit raceways and HVAC ducting appears to be free of potentially adverse seismic conditions.

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

ATTACHMENT 9.7 **AREA WALK-BY CHECKLIST**

Sheet 2 of 6

IP2

Status: Y N U

Area Walk-By Checklist (AWC) AWC-007

Location: Bldg. FSB Floor El. 70' Room, Area¹ SFP Pump Room

SWEL Components: SWEL2-002, 003

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

Yes it appears that the area is free of potentially adverse seismic spatial interactions with other equipment in the area.

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

Yes it appears that the area is free of potentially adverse seismic interactions that could cause flooding or spray in the area.

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

Yes it appears that the area is free of potentially adverse seismic interactions that could cause a fire in the area.

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

Yes it appears that the area is free of potentially adverse seismic interactions associated with housekeeping practices, storage of portable equipment, and temporary installations.

ATTACHMENT 9.7

AREA WALK-BY CHECKLIST

Sheet 3 of 6

IP2

Status: Y N U

Area Walk-By Checklist (AWC) AWC-007

Location: Bldg. FSB Floor El. 70' Room, Area¹ SFP Pump Room

SWEL Components: SWEL2-002, 003

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

Yes we have looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment in the area.

Comments (Additional pages may be added as necessary)

1. Valve SFP 719A outlet to SFP Demin Stop shows slight surface rust. As well as 2 pipe hangers on the pipe to this valve. Not significant.
2. Top of overhead concrete beam is jagged. Not a structural issue.
3. Light bulb above 22SFP Pump is burnt out. This is not a seismic issue Lights Out Hotline (extension-7600) was contacted regarding the light out.
4. Light safety cages on all three lights in the room appear to be sitting in the light fixtures incorrectly. They look to be cross threaded. Hard target pumps would not be rendered inoperable. CR IP2-2012-06744 issued to track fixing the light safety cages.
5. Multiple boric acid leaks noted in the area on SFP pumps. No significant boric acid corrosion observed. Boric acid leaks are already work order tagged in the field for repairs. See photos below.

References:

CR IP2-2012-06744

Evaluated by: Nick Crispell  Date: 10-12-2012

Stephen Yuan  Date: 10/12/2012

Dan Nuta  Date: 10-12-2012

ATTACHMENT 9.7

AREA WALK-BY CHECKLIST

Sheet 4 of 6

IP2

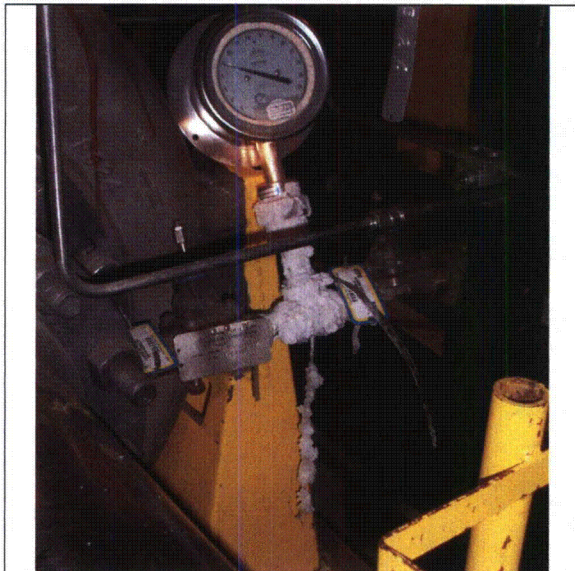
Status: Y N U

Area Walk-By Checklist (AWC) AWC-007

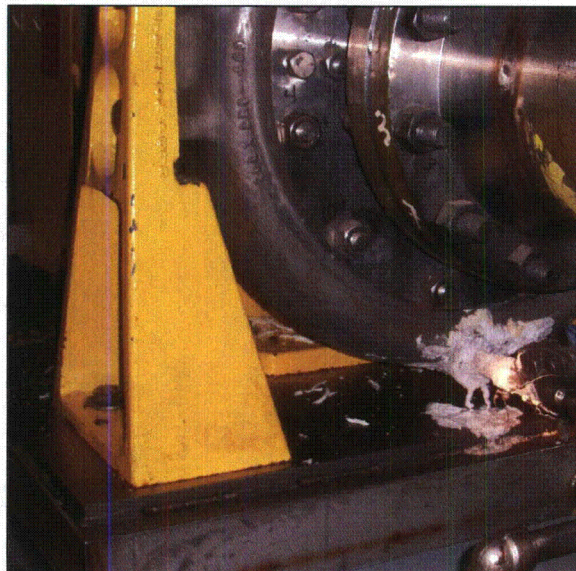
Location: Bldg. FSB Floor El. 70' Room, Area¹ SFP Pump Room

SWEL Components: SWEL2-002, 003

Photographs



Note: Boric acid leak noted in SWEL2-003 forms.



Note: Boric acid leak noted in SWEL2-003 forms.

ATTACHMENT 9.7

AREA WALK-BY CHECKLIST

Sheet 5 of 6

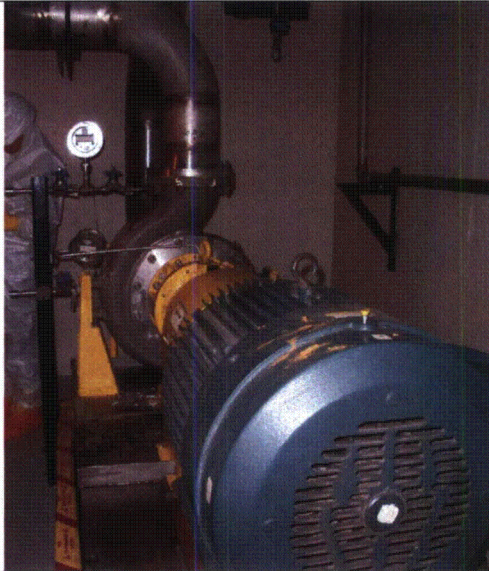
IP2

Status: Y N U

Area Walk-By Checklist (AWC) AWC-007

Location: Bldg. FSB Floor El. 70' Room, Area¹ SFP Pump Room

SWEL Components: SWEL2-002, 003



Note: General area of 22 SFP Pump



Note: General area of 21 SFP Pump

ATTACHMENT 9.7

AREA WALK-BY CHECKLIST

Sheet 6 of 6

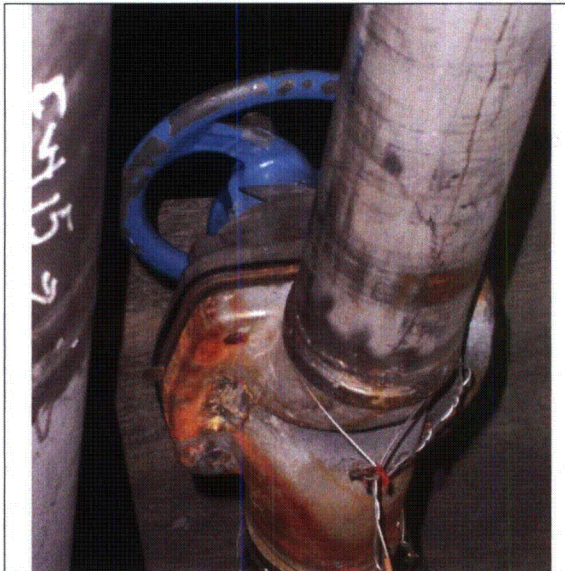
IP2

Status: Y N U

Area Walk-By Checklist (AWC) AWC-007

Location: Bldg. FSB Floor El. 70' Room, Area¹ SFP Pump Room

SWEL Components: SWEL2-002, 003



Note: Valve SFP 719A outlet to SFP Demin Stop shows slight surface rust.



Note: Pipe hanger near valve SFP 719A shows slight surface rust.

ATTACHMENT 9.7

AREA WALK-BY CHECKLIST

Sheet 1 of 9

IP2

Status: Y N U

Area Walk-By Checklist (AWC) AWC-008

Location: Bldg. FSB Floor El. 80'-0" Room, Area¹ SFP Heat Exchanger Room

SWEL Components: SWEL2-004

Instructions for Completing Checklist

This checklist may be used to document the results of the Area Walk-By near one or more SWEL items. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

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

Yes anchorage of equipment in the area appears to be free of potentially adverse seismic conditions.

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

Yes anchorage of equipment in the area appears to be free of significant degraded conditions.

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

Tubing running to the SFP heat exchanger is vibrating significantly. Long span of approximately 6' for a 1/4" tubing appears to be excessive. CR IP2-2012-06753 issued to investigate vibration fatigue issues and provided seismic adequacy of the long span. See photo below.

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

ATTACHMENT 9.7

AREA WALK-BY CHECKLIST

Sheet 2 of 9

IP2

Status: Y N U

Area Walk-By Checklist (AWC) AWC-008

Location: Bldg. FSB Floor El. 80'-0" Room, Area¹ SFP Heat Exchanger Room

SWEL Components: SWEL2-004

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

Yes it appears that the area is free of potentially adverse seismic spatial interactions with other equipment in the area.

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

Tool box is secured such that its restraint chain would load and possibly damage the fire water pipe shown in photo below. CR IP2-2012-06774 issued to better secure the tool box.

See question 3 and CR IP2-2012-06753 for flooding/spray adequacy of possible leakage from the vibrating small diameter tubing.

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

Yes it appears that the area is free of potentially adverse seismic interactions that could cause a fire in the area.

ATTACHMENT 9.7**AREA WALK-BY CHECKLIST**

Sheet 3 of 9

IP2

Status: Y N U **Area Walk-By Checklist (AWC) AWC-008**Location: Bldg. FSB Floor El. 80'-0" Room, Area¹ SFP Heat Exchanger Room**SWEL Components: SWEL2-004**

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

Y N U N/A

Numerous miscellaneous tools, ladders, stands, etc. under and round stairs are not adequately secured with chains. See multiple photos below. CR IP2-2012-06774 was issued to resolve the issue.

Gas bottle has support chain attached to a moveable ladder on the other side of a concrete column. Ladder is not tight against the column. This would allow gas bottle to topple in a seismic event. Bottle should be secured around concrete column alone with two chains one high and one low on the bottle. See photos below. CR IP2-2012-06774 was issued to resolve the issue.

Magnetic mount for camera doesn't appear adequate for a seismic event. Falling of camera will not effect operation of safety related SSC's however room monitoring for accident response would be lost. CR IP2-2012-06774 issued to determine if camera should be seismically mounted.

Hair line cracks in concrete wall on north side. Cracks are normal concrete cracks and are not structurally significant.

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

Y N U

Yes we have looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment in the area.

Comments (Additional pages may be added as necessary)

CR IP2-2012-06753

CR IP2-2012-06774

ATTACHMENT 9.7

AREA WALK-BY CHECKLIST

Sheet 4 of 9

IP2

Status: Y N U

Area Walk-By Checklist (AWC) AWC-008

Location: Bldg. FSB Floor El. 80'-0" Room, Area¹ SFP Heat Exchanger Room

SWEL Components: SWEL2-004

Evaluated by: Nick Crispell

Nick Crispell

Date: 10/13/2012

Dan Nuta

Dan Nuta

10/13/2012

ATTACHMENT 9.7

AREA WALK-BY CHECKLIST

Sheet 5 of 9

IP2

Status: Y N U

Area Walk-By Checklist (AWC) AWC-008

Location: Bldg. FSB Floor El. 80'-0" Room, Area¹ SFP Heat Exchanger Room

SWEL Components: SWEL2-004

Photographs



Note: Picture of heat exchanger. Tubing in question is in the top right of photo running from the concrete column to near the gage on the large bore pipe shown.



Note: Tool box secured on left side only could damage the fire water pipe causing flooding. Tool box should be tied back at both left and right sides.

ATTACHMENT 9.7

AREA WALK-BY CHECKLIST

Sheet 6 of 9

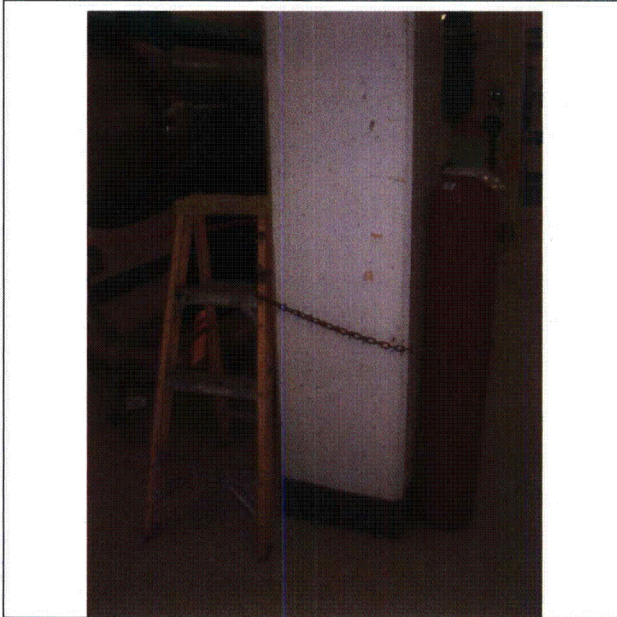
IP2

Status: Y N U

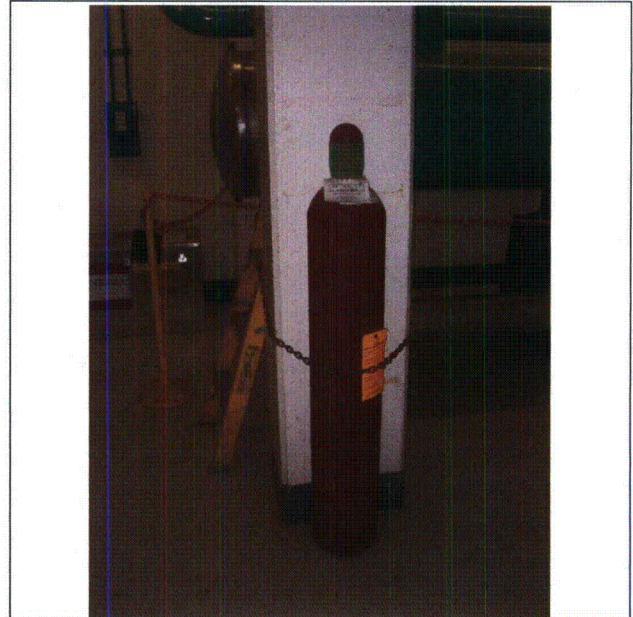
Area Walk-By Checklist (AWC) AWC-008

Location: Bldg. FSB Floor El. 80'-0" Room, Area¹ SFP Heat Exchanger Room

SWEL Components: SWEL2-004



Note: Gas bottle secured to moveable ladder on other side of column. Bottle and ladder can move easily in a seismic event.



Note: Gas bottle secured to moveable ladder on other side of column. Bottle and ladder can move easily in a seismic event.

ATTACHMENT 9.7

AREA WALK-BY CHECKLIST

Sheet 7 of 9

IP2

Status: Y N U

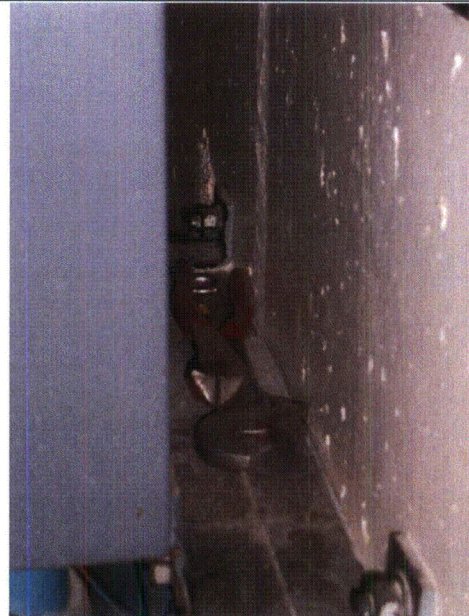
Area Walk-By Checklist (AWC) AWC-008

Location: Bldg. FSB Floor El. 80'-0" Room, Area¹ SFP Heat Exchanger Room

SWEL Components: SWEL2-004



Note: Magnetic camera mount does not appear seismically adequate.



Note: Miscellaneous tools left loose behind 21 Spent Fuel Pit Pump switch.

ATTACHMENT 9.7

AREA WALK-BY CHECKLIST

Sheet 8 of 9

IP2

Status: Y N U

Area Walk-By Checklist (AWC) AWC-008

Location: Bldg. FSB Floor El. 80'-0" Room, Area¹ SFP Heat Exchanger Room

SWEL Components: SWEL2-004



Note: Unsecured ladder next to stair way.



Note: Numerous unsecured items under stair way.

ATTACHMENT 9.7

AREA WALK-BY CHECKLIST

Sheet 9 of 9

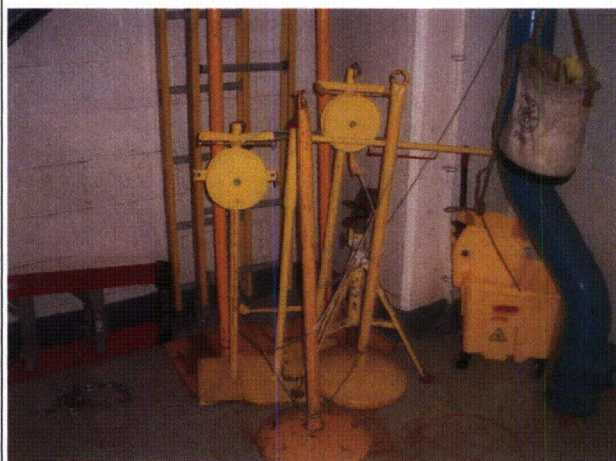
IP2

Status: Y N U

Area Walk-By Checklist (AWC) AWC-008

Location: Bldg. FSB Floor El. 80'-0" Room, Area¹ SFP Heat Exchanger Room

SWEL Components: SWEL2-004



Note: Numerous unsecured items under stair way.



Note: Numerous unsecured items under stair way.

ATTACHMENT 9.7 **AREA WALK-BY CHECKLIST**

Sheet 1 of 5

IP2
Status: Y N U

Area Walk-By Checklist (AWC) AWC-009

Location: Bldg. AF Floor El. 32'-6" Room, Area¹ _____

SWEL Components: SWEL1-035

Instructions for Completing Checklist

This checklist may be used to document the results of the Area Walk-By near one or more SWEL items. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

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

Yes anchorage of equipment in the area appears to be free of potentially adverse seismic conditions.

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

Yes anchorage of equipment in the area appears to be free of significant degraded conditions.

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

Yes based on a visual inspection from the floor, the cable/conduit raceways and HVAC ducting appears to be free of potentially adverse seismic conditions.

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

ATTACHMENT 9.7

AREA WALK-BY CHECKLIST

Sheet 2 of 5

IP2

Status: Y N U

Area Walk-By Checklist (AWC) AWC-009

Location: Bldg. AF Floor El. 32'-6" Room, Area¹ _____

SWEL Components: SWEL1-035

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

Some florescent bulbs need wires securing the bulb to the fixture. CR IP2-2012-06485 tracks resolution of this issue.

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

Yes it appears that the area is free of potentially adverse seismic interactions that could cause flooding or spray in the area.

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

Yes it appears that the area is free of potentially adverse seismic interactions that could cause a fire in the area.

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

Yes it appears that the area is free of potentially adverse seismic interactions associated with housekeeping practices, storage of portable equipment, and temporary installations.

ATTACHMENT 9.7

AREA WALK-BY CHECKLIST

Sheet 3 of 5

IP2

Status: Y N U

Area Walk-By Checklist (AWC) AWC-009

Location: Bldg. AF Floor El. 32'-6" Room, Area¹ _____

SWEL Components: SWEL 1-035

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

Yes we have looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment in the area.

Comments (Additional pages may be added as necessary)

*Miscellaneous small items (nuts, bolts, unistrut clamp) found near overhead crane trolley door.
CR IP2-2012-06511 issued to clean up.*

Evaluated by: Nick Crispell

Nick Crispell

Date: 10-12-2012

Stephen Yuan

Steph

10-12-2012

ATTACHMENT 9.7

AREA WALK-BY CHECKLIST

Sheet 4 of 5

IP2

Status: Y N U

Area Walk-By Checklist (AWC) AWC-009

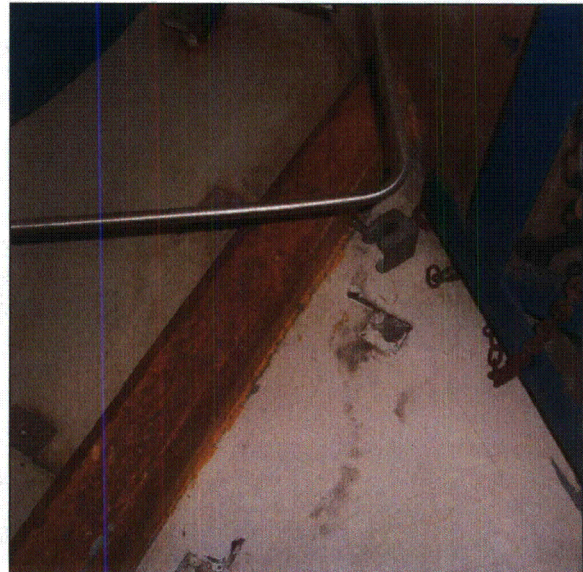
Location: Bldg. AF Floor El. 32'-6" Room, Area¹ _____

SWEL Components: SWEL1-035

Photographs



Note: Miscellaneous bolts nuts, and unistrut parts left near overhead trolley door.



Note: Miscellaneous bolts nuts, and unistrut parts left near overhead trolley door.

ATTACHMENT 9.7

AREA WALK-BY CHECKLIST

Sheet 5 of 5

IP2

Status: Y N U

Area Walk-By Checklist (AWC) AWC-009

Location: Bldg. AF Floor El. 32'-6" Room, Area¹ _____

SWEL Components: SWEL1-035



Note: General area of walk by



Note: General area of walk by

ATTACHMENT 9.7**AREA WALK-BY CHECKLIST**

Sheet 1 of 4

IP2Status: Y N U **Area Walk-By Checklist (AWC) AWC-010**Location: Bldg. AFB Floor El. 43'-0" Room, Area¹ _____**SWEL Components: SWEL1-034****Instructions for Completing Checklist**

This checklist may be used to document the results of the Area Walk-By near one or more SWEL items. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

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

Yes anchorage of equipment in the area appears to be free of potentially adverse seismic conditions.

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

Yes anchorage of equipment in the area appears to be free of significant degraded conditions.

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

Yes based on a visual inspection from the floor, the cable/conduit raceways and HVAC ducting appears to be free of potentially adverse seismic conditions.

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

ATTACHMENT 9.7

AREA WALK-BY CHECKLIST

Sheet 2 of 4

IP2

Status: Y N U

Area Walk-By Checklist (AWC) AWC-010

Location: Bldg. AFB Floor El. 43'-0" Room, Area¹ _____

SWEL Components: SWEL1-034

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

Yes it appears that the area is free of potentially adverse seismic spatial interactions with other equipment in the area.

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

Yes it appears that the area is free of potentially adverse seismic interactions that could cause flooding or spray in the area.

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

Yes it appears that the area is free of potentially adverse seismic interactions that could cause a fire in the area.

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

Moveable stairs in area is chain secured on one side. But can roll into nearby small valves by rotating about chain in a seismic event. Piping & valves judged to survive seismic impact from moveable stairs. CR IP2-2012-06636 issued to better secure movable stairs.

ATTACHMENT 9.7

AREA WALK-BY CHECKLIST

Sheet 3 of 4

IP2

Status: Y N U

Area Walk-By Checklist (AWC) AWC-010

Location: Bldg. AFB Floor El. 43'-0" Room, Area¹ _____

SWEL Components: SWEL1-034

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

Yes we have looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment in the area.

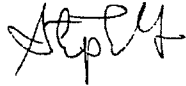
Comments (Additional pages may be added as necessary)


Some fluorescent bulbs need wires securing the bulb to the fixture. CR IP2-2012-06640 tracks resolution of this issue.

Insulation in area has been removed from main steam lines for work. This is not a seismic issue. CR IP2-2012-06638 issued to track resolution.

References:

- CR IP2-2012-06636
- CR IP2-2012-06638
- CR IP2-2012-06640

Evaluated by: Stephen Yuan  Date: 10-12-2012

Nick Crispell  10-12-2012

ATTACHMENT 9.7

AREA WALK-BY CHECKLIST

Sheet 4 of 4

IP2
Status: Y N U

Area Walk-By Checklist (AWC) AWC-010

Location: Bldg. AFB Floor El. 43'-0" Room, Area¹ _____

SWEL Components: SWEL1-034

Photographs



Note: Moveable stairs needing to be secured.



Note: Insulation in area has been removed from main steam lines for work. This is not a seismic issue. CR IP2-2012-06638 issued to track resolution.

ATTACHMENT 9.7**AREA WALK-BY CHECKLIST**

Sheet 1 of 7

IP2

Status: Y N U **Area Walk-By Checklist (AWC) AWC-011**Location: Bldg. EDG Floor El. All Room, Area¹ _____**SWEL Components: SWEL1-036, 037, 047, 060, 076, 077, 078, 081, 084, 087, 096, & 100****Instructions for Completing Checklist**

This checklist may be used to document the results of the Area Walk-By near one or more SWEL items. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

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

Yes anchorage of equipment in the area appears to be free of potentially adverse seismic conditions.

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

Minor surface corrosion. Judged acceptable.

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

Conduit above door needs support on west side of door. Conduit goes to box TPS-5 which is a security box. CR IP2-2012-06235 issued to resolve. This is not a seismic concern and therefore is acceptable. Conduit is located such that failure and falling of the conduit would not affect the function of safety related equipment.

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

ATTACHMENT 9.7

AREA WALK-BY CHECKLIST

Sheet 2 of 7

IP2

Status: Y N U

Area Walk-By Checklist (AWC) AWC-011

Location: Bldg. EDG Floor El. All Room, Area¹ _____

SWEL Components: SWEL1-036, 037, 047, 060, 076, 077, 078, 081, 084, 087, 096, & 100

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

Yes it appears that the area is free of potentially adverse seismic interactions that could cause flooding or spray in the area.

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

Fire protection pipes in the area uses threaded fittings without welding. The fire protection piping is seismically analyzed, and EDG building is qualified for spray & flooding as discussed in existing operability evaluation attached to CR IP2-2005-04868 and calculation IP-CALC-06-00039.

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

Yes it appears that the area is free of potentially adverse seismic interactions that could cause a fire in the area.

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

Loose parts scattered around platform in North East corner to EDG building. The Crane hook should be tied off. These items are not near safe shutdown SSCs and therefore are judged acceptable seismically. Operations fixed the problems in our presence and CR IP2-2012-06238 was issued for trend tracking.

ATTACHMENT 9.7

AREA WALK-BY CHECKLIST

Sheet 3 of 7

IP2

Status: Y N U

Area Walk-By Checklist (AWC) AWC-011

Location: Bldg. EDG Floor El. All Room, Area¹ _____

SWEL Components: SWEL1-036, 037, 047, 060, 076, 077, 078, 081, 084, 087, 096, & 100

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

Partitions between EDG's are shown on drawing 207634. These partitions between EDG's have multiple cracked welds (see photos below). These partitions are discussed in CR IP2-2003-03195, and seismically qualified in calculation FCX-00534. These partitions and calculation FCX-00534 require further investigation as cracked welds indicate a problem. CR IP2-2012-06278 issued to track investigation and resolution of the cracked welds. Walk down team judged partitions to be seismically adequate with cracked welds.

Walk down team recommends redesigning the partitions to include personnel loads (i.e. handrail lateral loads) as observations showed most personnel hold onto the ends of the partition when stepping next to the EDG's as the transition from flat grating to the sloped partition base is difficult. Also recommend removing the sloped base as this makes walking next to the EDG's difficult and presents a safety issue.

Comments (Additional pages may be added as necessary)

Grating south of 21 & 22 EDG's have their bearing bars spanning the wrong direction. Bearing bars span east-west where they do not bear on structural floor beams. The bearing bars should be rotated 90 degrees to bear on structural steel as the grating is cupping under just personnel load as the cross wires are bearing all the weight. This is judged not to be a seismic issue but a safety issue. CR IP2-2012-06512 issued to track resolution. It should be noted that this deficiency was previously noted in IP2-2005-03784, IP2-2008-04346, and IP2-2009-0195. Work request No. 00141381 was written in 2008 and work order IP2-05-01026.

Evaluated by: Nick Crispell

Nick Crispell

Date: 10-15-2012

Stephen Yuan

Stephen Yuan

10-15-2012

Dan Nuta

Dan Nuta

10-15-2012

ATTACHMENT 9.7

AREA WALK-BY CHECKLIST

Sheet 4 of 7

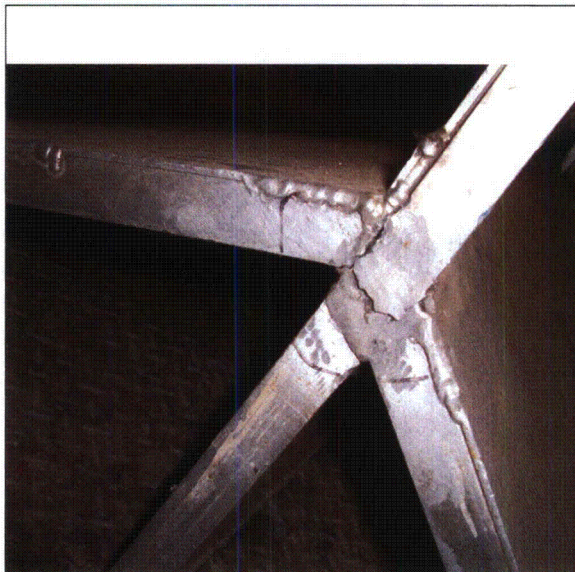
IP2
Status: Y N U

Area Walk-By Checklist (AWC) AWC-011

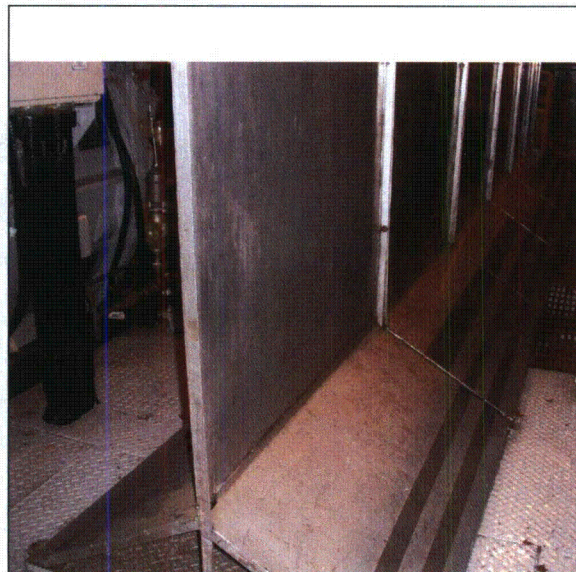
Location: Bldg. EDG Floor El. All Room, Area¹ _____

SWEL Components: SWEL1-036, 037, 047, 060, 076, 077, 078, 081, 084, 087, 096, & 100

Photographs



Note: Multiple cracked welds on the partitions between EDG's.



Note: Partitions between EDG's

ATTACHMENT 9.7

AREA WALK-BY CHECKLIST

Sheet 5 of 7

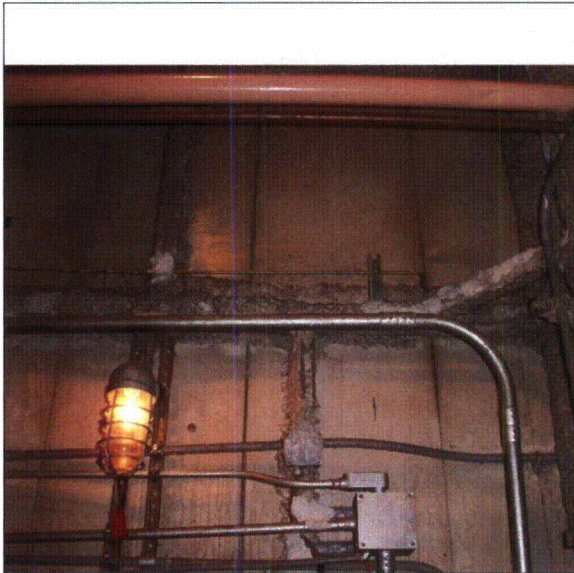
IP2

Status: Y N U

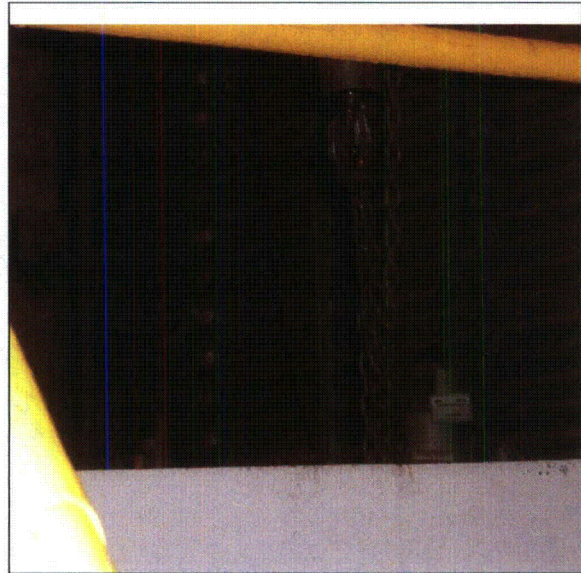
Area Walk-By Checklist (AWC) AWC-011

Location: Bldg. EDG Floor El. All Room, Area¹ _____

SWEL Components: SWEL1-036, 037, 047, 060, 076, 077, 078, 081, 084, 087, 096, & 100



Note: Conduit above door needs support on west side of door. Large conduit above the light shown here. Conduit goes to box TPS-5.



Note: Crane hook is not secured.

ATTACHMENT 9.7

AREA WALK-BY CHECKLIST

Sheet 6 of 7

IP2

Status: Y N U

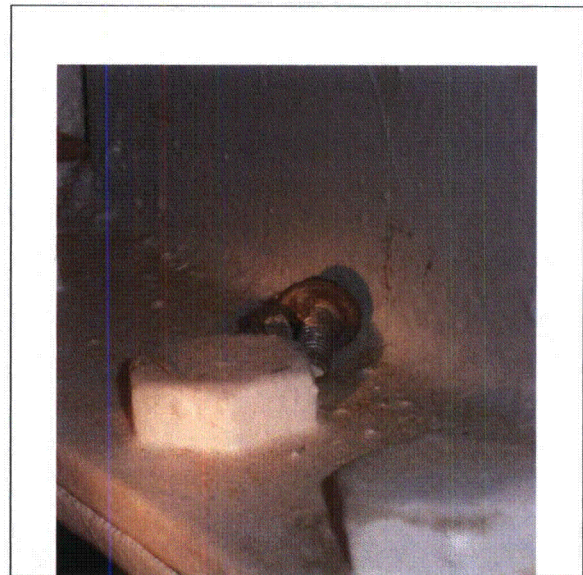
Area Walk-By Checklist (AWC) AWC-011

Location: Bldg. EDG Floor El. All Room, Area¹ _____

SWEL Components: SWEL1-036, 037, 047, 060, 076, 077, 078, 081, 084, 087, 096, & 100



Note: Loose parts scattered around platform in north east corner of EDG's.



Note: Loose parts scattered around platform in north east corner of EDG's.

ATTACHMENT 9.7

AREA WALK-BY CHECKLIST

Sheet 7 of 7

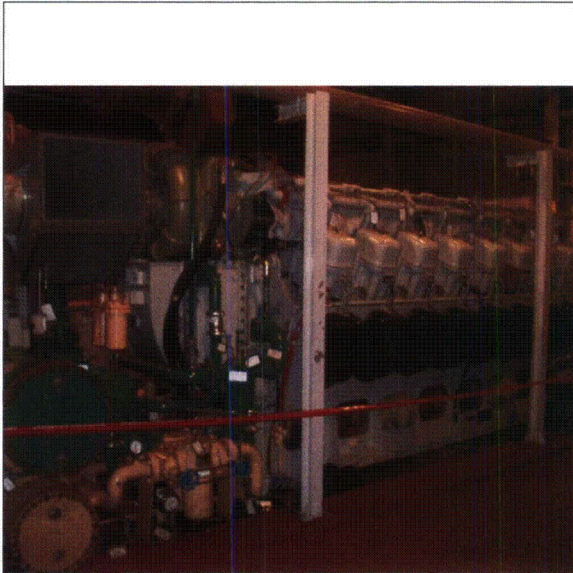
IP2

Status: Y N U

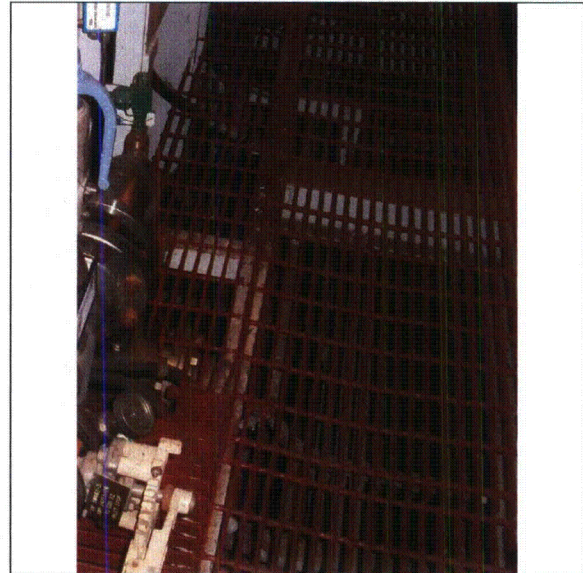
Area Walk-By Checklist (AWC) AWC-011

Location: Bldg. EDG Floor El. All Room, Area¹ _____

SWEL Components: SWEL1-036, 037, 047, 060, 076, 077, 078, 081, 084, 087, 096, & 100



Note: General picture of a EDG in the area.



Note: Picture of grating south of EDG 21 & 22 that has baring bars spanning the wrong direction. A noticeable plastic deformation cupping of grating has occurred as cross wires are having to span the opening.

ATTACHMENT 9.7

AREA WALK-BY CHECKLIST

Sheet 1 of 9

IP2

Status: Y N U

Area Walk-By Checklist (AWC) AWC-012

Location: Bldg. FOST Floor El. 77'-6" Room, Area¹ _____

SWEL Components: SWEL1-032

Instructions for Completing Checklist

This checklist may be used to document the results of the Area Walk-By near one or more SWEL items. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

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

One pipe is supported from another pipe see photo below. This is a non typical pipe support. Design drawings for this support were not available at time of walk down. One pipe (insulated pipe) runs to the Emergency Domestic truck fill stop valve and the other orange pipes from the EDG building to near 23FOTP. LB-09 issued to resolve.

The overhead pipe near the roof line of the EDG building is supported on three wide flange columns. These columns are supported on baseplates with some nuts not fully engaged. Typical of all three baseplates. LB-02 issued for resolution.

There is a transmission tower located to the east of the area that is tall enough to fall into the area of this walk by. The transmission tower is judged to be adequate for seismic loading and therefore is acceptable.

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

Grout under base plate for orange pipe west of pump 23FOTP has multiple cracks and is missing a corner. It is judged acceptable for seismic loading in its existing condition. Cracks should be sealed to prevent further degradation. CR IP2-2012-06847 issued to track sealing of the cracks.

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

ATTACHMENT 9.7

AREA WALK-BY CHECKLIST

Sheet 2 of 9

IP2

Status: Y N U

Area Walk-By Checklist (AWC) AWC-012

Location: Bldg. FOST Floor El. 77'-6" Room, Area¹ _____

SWEL Components: SWEL1-032

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

Spring can on south side of overhead pipe is showing surface rust. Judged acceptable at this time.

Yes based on a visual inspection from the floor, the cable/conduit raceways and HVAC ducting appears to be free of potentially adverse seismic conditions.

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

Yes the area is free of potentially adverse seismic spatial interactions with other equipment in the area.

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

Yes the area is free of potentially adverse seismic interactions that could cause flooding or spray in the area. Additionally the area is an outdoor environment that is designed to be rained on. Flooding and spray water would runoff the elevated on grade slab and not pool to significant levels in the area.

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

Yes the area is free of potentially adverse seismic interactions that could cause a fire in the area.

ATTACHMENT 9.7**AREA WALK-BY CHECKLIST**

Sheet 3 of 9

IP2

Status: Y N U **Area Walk-By Checklist (AWC) AWC-012**Location: Bldg. FOST Floor El. 77'-6" Room, Area¹ _____**SWEL Components: SWEL1-032**

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

Yes the area is free of potentially adverse seismic interactions associated with housekeeping practices, storage of portable equipment, and temporary installations.

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

Yes we have looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment in the area.

Comments (Additional pages may be added as necessary)

Following items are housekeeping and good practices. They are judged acceptable (i.e. they do not pose an seismic issues).

*A wood stick is left lying on the ground next to the EDG building. See photo below.
CR IP2-2012-06542 issued to track resolution.*

*Clear tubing running to EDG Fuel Oil Fill level panel is falling out of Unistrut support. See photo below.
CR IP2-2012-06542 issued to track resolution.*

On grade slab has numerous cracks of large size. Not a seismic concern and no repair needed.

*A trash bag filled with construction debris was left against the pipe south of 21FOTP. See photo below.
CR IP2-2012-06542 issued to track resolution.*

*Insulation is missing and damaged on discharge pipe from pump 21 FOTP. See photo below.
CR IP2-2012-06542 issued to track resolution.*

ATTACHMENT 9.7

AREA WALK-BY CHECKLIST

Sheet 4 of 9

IP2

Status: Y N U

Area Walk-By Checklist (AWC) AWC-012

Location: Bldg. FOST Floor El. 77'-6" Room, Area¹ _____

SWEL Components: SWEL1-032

Evaluated by: Nick Crispell

Nick Crispell

Date: 10-16-2012

Dan Nuta

Dan Nuta

10-16-2012

ATTACHMENT 9.7

AREA WALK-BY CHECKLIST

Sheet 5 of 9

IP2

Status: Y N U

Area Walk-By Checklist (AWC) AWC-012

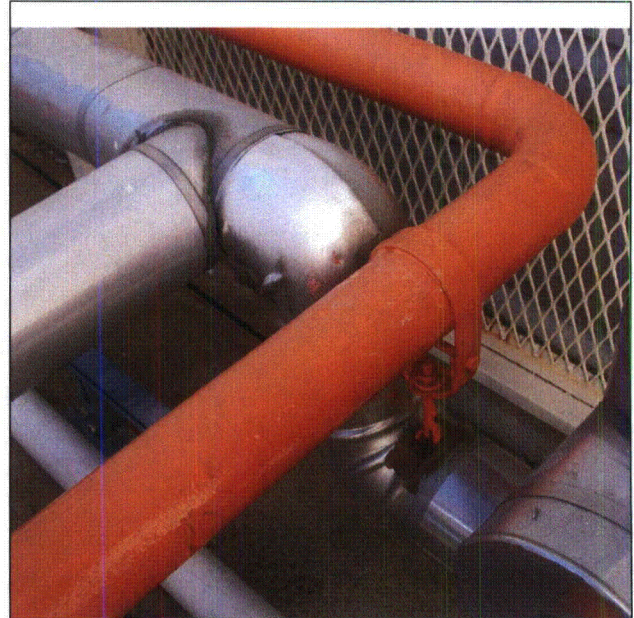
Location: Bldg. FOST Floor El. 77'-6" Room, Area¹ _____

SWEL Components: SWEL1-032

Photographs



Note: Cracked grout pad under baseplate for the orange pipe.



Note: One pipe is supported from another pipe. This is a none typical pipe support. One pipe (insulated pipe) runs to the Emergency Domestic truck fill stop valve and the other orange pipe from the EDG building into ground near 23FOTP.

ATTACHMENT 9.7

AREA WALK-BY CHECKLIST

Sheet 6 of 9

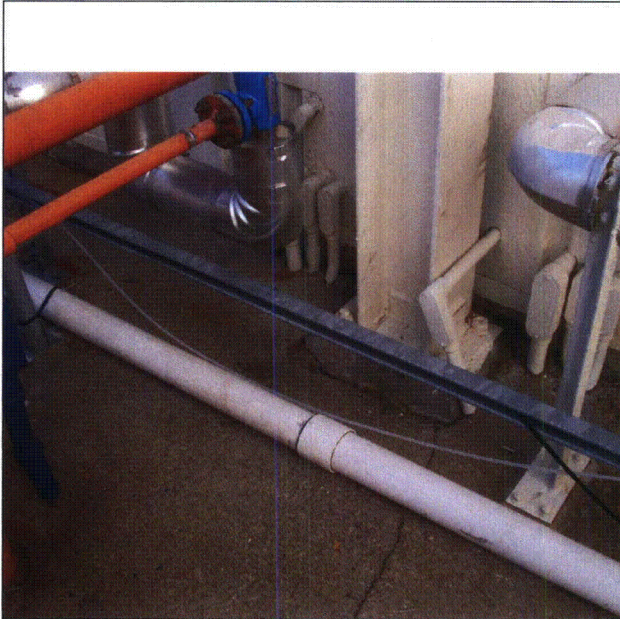
IP2

Status: Y N U

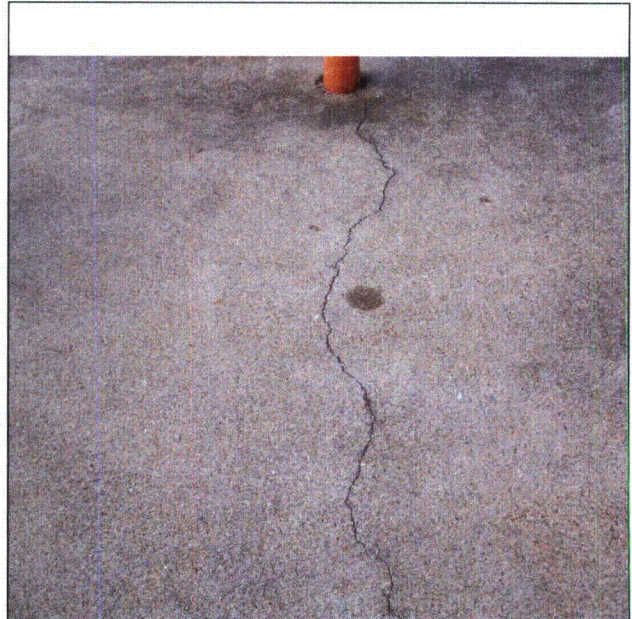
Area Walk-By Checklist (AWC) AWC-012

Location: Bldg. FOST Floor El. 77'-6" Room, Area¹ _____

SWEL Components: SWEL1-032



Note: Clear tubing lying on ground should be wire tied inside of the horizontal unistrut.



Note: Example of on grade slab crack.

ATTACHMENT 9.7

AREA WALK-BY CHECKLIST

Sheet 7 of 9

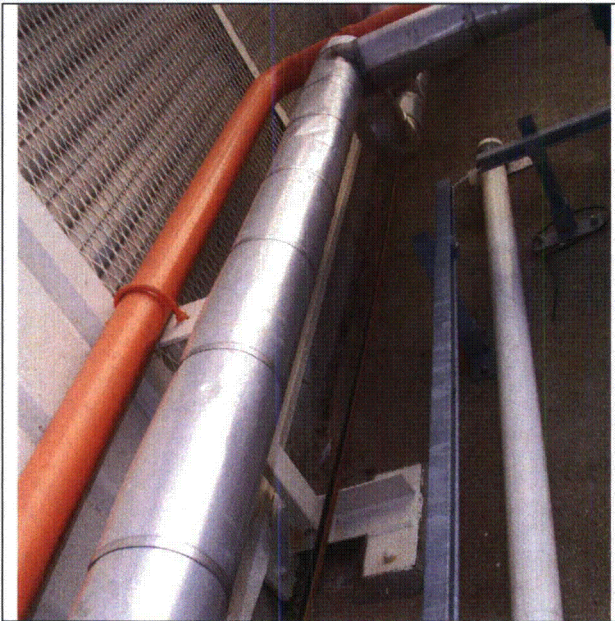
IP2

Status: Y N U

Area Walk-By Checklist (AWC) AWC-012

Location: Bldg. FOST Floor El. 77'-6" Room, Area¹ _____

SWEL Components: SWEL1-032



Note: Wood stick laying on ground next to EDG building.



Note: Trash bag full of construction trash lying next to pump 21FOTP.

ATTACHMENT 9.7

AREA WALK-BY CHECKLIST

Sheet 8 of 9

IP2

Status: Y N U

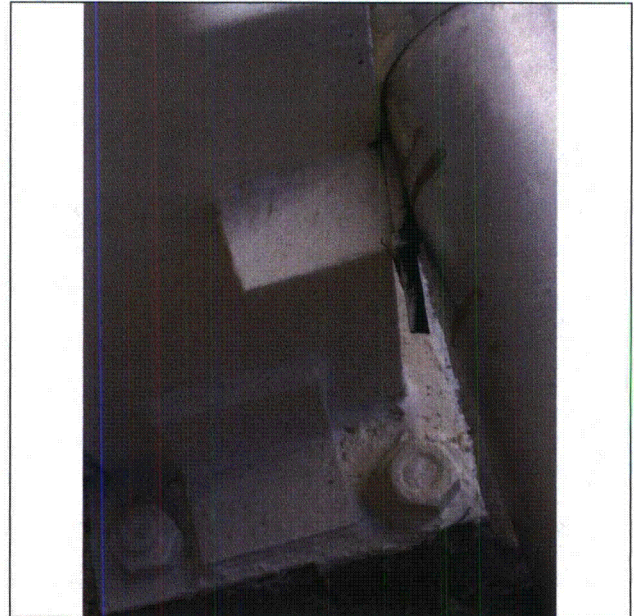
Area Walk-By Checklist (AWC) AWC-012

Location: Bldg. FOST Floor El. 77'-6" Room, Area¹ _____

SWEL Components: SWEL1-032



Note: One of the baseplates for the overhead pipe that do not have full thread engagement.



Note: Another one of the baseplates for the overhead pipe that do not have full thread engagement.

ATTACHMENT 9.7

AREA WALK-BY CHECKLIST

Sheet 9 of 9

IP2

Status: Y N U

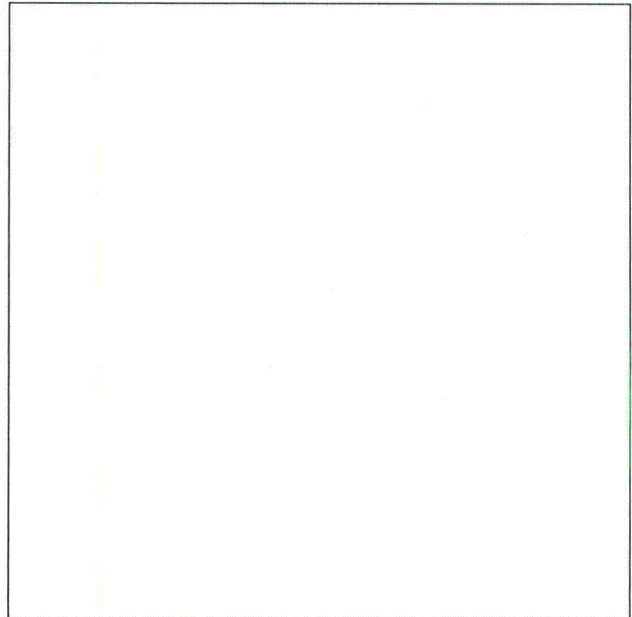
Area Walk-By Checklist (AWC) AWC-012

Location: Bldg. FOST Floor El. 77'-6" Room, Area¹ _____

SWEL Components: SWEL1-032



Note: Pipe to pump 21FOTP that has damaged and missing insulation.



Note: