

Sheet 1 of 5

Status: Y N U **Seismic Walkdown Checklist (SWC) SWEL1-065**Equipment ID No. F-52B Equip. Class¹ 17 – ENGINE GENERATORSEquipment Description DG2 ENGINE MOUNTED TURBO FILTERLocation: Bldg. RAB Floor El. 369 Room, Area 86Manufacturer, Model, Etc. (optional but recommended) Electro-Motive**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 anchorage configuration verification required.
2. Is the anchorage free of bent, broken, missing or loose hardware? Y N U N/A
The anchorage is free of bent, broken, missing and loose hardware.
3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y N U N/A
The anchorage is free of corrosion.
4. Is the anchorage free of visible cracks in the concrete near the anchors? Y N U N/A
This component is anchored directly to the EDG skid. No cracks in concrete around skid observed.

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

Sheet 2 of 5

Status: Y N U **Seismic Walkdown Checklist (SWC) SWEL1-065**Equipment ID No. F-52B Equip. Class² 17 – ENGINE GENERATORSEquipment Description DG2 ENGINE MOUNTED TURBO FILTER

5. Is the anchorage configuration consistent with plant documentation?
(Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) Y N U N/A
This is not applicable since it is not part of the 50% of SWEL items requiring anchorage configuration verification.
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y N U
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 turbocharger filter is bolted at the rear end of the diesel engine. There were no major structures or equipment that could have any significant interaction with the filter.
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y N U N/A
There is overhead duct work that is properly secured with steel hangers.
9. Do attached lines have adequate flexibility to avoid damage? Y N U N/A
Attached lines have adequate flexibility.
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y N U
Based on the above seismic interaction evaluations, the equipment is free of potentially adverse seismic interaction effects.

² Enter the equipment class name from Appendix B: Classes of Equipment.

Sheet 3 of 5

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-065

Equipment ID No. F-52B Equip. Class³ 17 – ENGINE GENERATORS

Equipment Description DG2 ENGINE MOUNTED TURBO FILTER

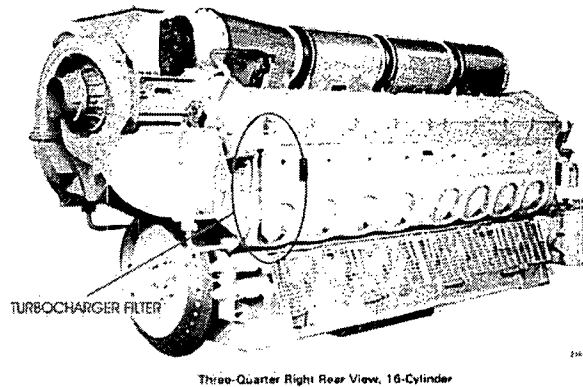
Other Adverse Conditions

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

It was looked for, and no other seismic conditions that could adversely affect the safety functions of the equipment were found.

Comments (Additional pages may be added as necessary)

The Turbocharger Filter is a critical component of the diesel engine. Every mounting bolt was observed to be in place. The entire engine appeared clean and well maintained. There were no visible leaks or signs of previous leaks at any location where accessory components were bolted to the main engine block.



Evaluated by: Daniel Parker *Daniel Parker* Date: 10/03/2012

Eric Dilbone *Eric Dilbone* 10/03/2012

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

Sheet 4 of 5

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-065

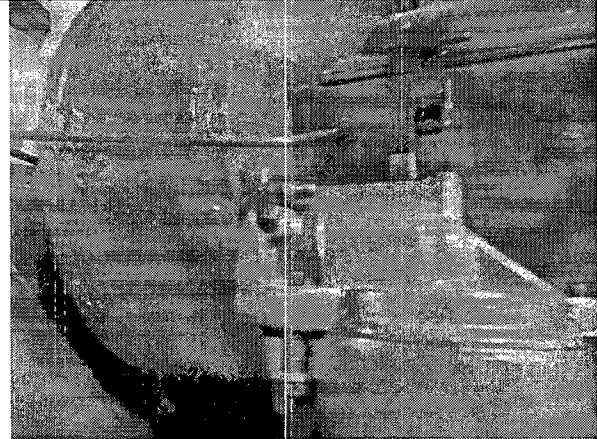
Equipment ID No. F-52B Equip. Class⁴ 17 – ENGINE GENERATORS

Equipment Description DG2 ENGINE MOUNTED TURBO FILTER

Photographs



Note: *Component Overview*



Note: *Top of Component*

⁴ Enter the equipment class name from Appendix B: Classes of Equipment.

Sheet 5 of 5

Status: Y N U

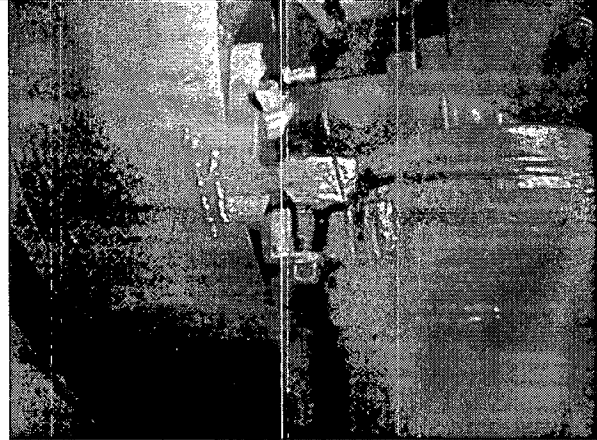
Seismic Walkdown Checklist (SWC) SWEL1-065

Equipment ID No. F-52B Equip. Class⁵ 17 – ENGINE GENERATORS

Equipment Description DG2 ENGINE MOUNTED TURBO FILTER



Note: *Component Bolts*



Note: *Component Attachment*

⁵ Enter the equipment class name from Appendix B: Classes of Equipment.

Sheet 1 of 5

Status: Y N U **Seismic Walkdown Checklist (SWC) SWEL1-066**Equipment ID No. M-225B Equip. Class¹ 17 – Engine GeneratorsEquipment Description DIESEL GENERATOR TURBOCHARGERLocation: Bldg. RAB Floor El. 369 Room, Area 86Manufacturer, Model, Etc. (optional but recommended) Electro-Motive T2001**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 anchorage configuration verification required.
2. Is the anchorage free of bent, broken, missing or loose hardware? Y N U N/A
The anchorage is free of bent, broken, missing and loose hardware.
3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y N U N/A
The anchorage is free of corrosion.
4. Is the anchorage free of visible cracks in the concrete near the anchors? Y N U N/A
This component is anchored directly to the EDG skid.

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

Sheet 2 of 5

Status: Y N U**Seismic Walkdown Checklist (SWC) SWEL1-066**Equipment ID No. M-225B Equip. Class² 17 – Engine GeneratorsEquipment Description DIESEL GENERATOR TURBOCHARGER

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.)
This is not applicable since it is not part of the 50% of SWEL items requiring anchorage configuration verification. Y N U N/A
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?
Based on the above anchorage evaluations, the anchorage is free of potentially adverse seismic conditions. Y N U

Interaction Effects

7. Are soft targets free from impact by nearby equipment or structures?
The turbocharger is bolted at the rear end of the diesel engine. There were no significant structures or equipment that could have any significant interaction with the turbocharger. Y N U N/A
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?
There is overhead duct work that is properly secured with steel hangers. Y N U N/A
9. Do attached lines have adequate flexibility to avoid damage?
Attached lines have adequate flexibility. Y N U N/A
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?
Based on the above seismic interaction evaluations, the equipment is free of potentially adverse seismic interaction effects. Y N U

² Enter the equipment class name from Appendix B: Classes of Equipment.

Sheet 3 of 5

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-066

Equipment ID No. M-225B Equip. Class³ 17 – Engine Generators

Equipment Description DEISEL GENERATOR TURBOCHARGER

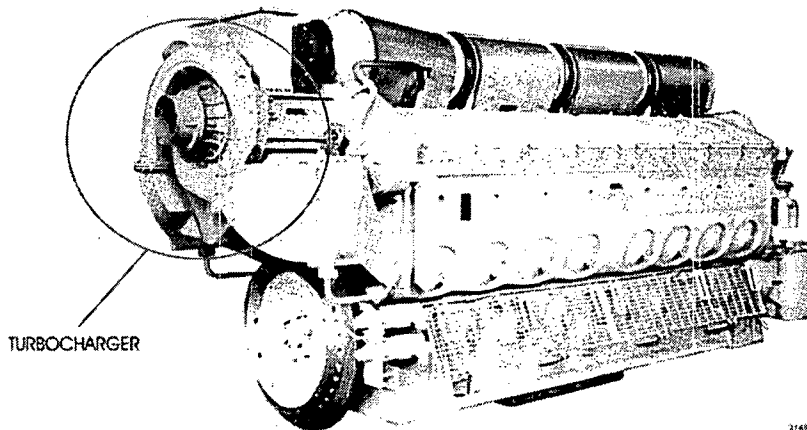
Other Adverse Conditions

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

It was looked for, and no other seismic conditions that could adversely affect the safety functions of the equipment were found.

Comments (Additional pages may be added as necessary)

The turbocharger is a critical component of the diesel engine. Every mounting bolt was observed to be in place. The entire engine appeared clean and well maintained. There were no visible leaks or signs of previous leaks at any location where accessory components were bolted to the main engine block.



Three-Quarter Right Rear View, 16-Cylinder

Evaluated by: Daniel Parker  Date: 10/22/2012

Eric Dilbone  10/2/2012

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

Sheet 4 of 5

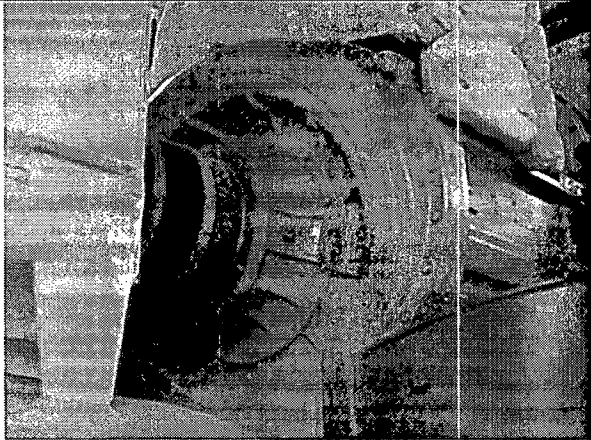
Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-066

Equipment ID No. M-225B Equip. Class⁴ 17 – Engine Generators

Equipment Description DEISEL GENERATOR TURBOCHARGER

Photographs



Note: Component Overview



Note: Component Overview

⁴ Enter the equipment class name from Appendix B: Classes of Equipment.

Sheet 5 of 5

Status: Y N U

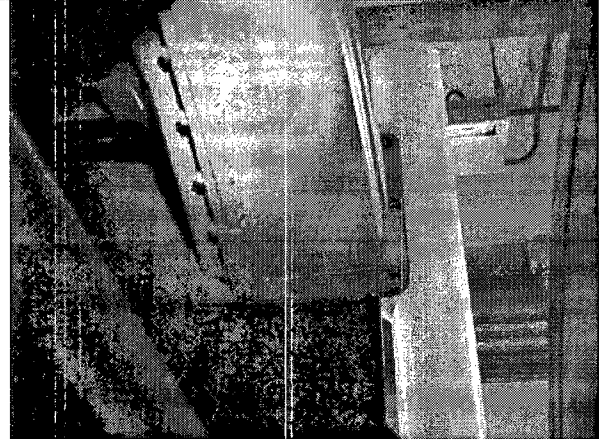
Seismic Walkdown Checklist (SWC) SWEL1-066

Equipment ID No. M-225B Equip. Class⁵ 17 – Engine Generators

Equipment Description DEISEL GENERATOR TURBOCHARGER



Note: Close up of Component from underside



Note: Close up of component from underside

⁵ Enter the equipment class name from Appendix B: Classes of Equipment.

Sheet 1 of 5

Status: Y N U**Seismic Walkdown Checklist (SWC) SWEL1- 067**Equipment ID No. SS-5211 Equip. Class¹ 18 - Instrument RacksEquipment Description DG1 OVERSPEED TRIP SWITCHLocation: Bldg. RAB Floor El. 369 Room, Area 87

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

Instructions for Completing Checklist

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

Anchorage

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y N
Item is not part of the 50%.

2. Is the anchorage free of bent, broken, missing or loose hardware? Y N U N/A
The bolts anchoring the switch to the EDG skid are free of bent, broken, missing and loose hardware.

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y N U N/A
The anchorage had very mild surface oxidation, but is free of corrosion otherwise. No adverse seismic conditions exist because of this.

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y N U N/A
The switch is anchored to the EDG. No cracks around EDG skid were observed.

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

Sheet 2 of 5

Status: Y N U **Seismic Walkdown Checklist (SWC) SWEL1-067**Equipment ID No. SS-5211 Equip. Class 18 - Instrument RacksEquipment Description DG1 OVERSPEED TRIP SWITCH

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.)
This does not apply since this item is not part of the 50% requiring anchorage configuration verification. Y N U N/A
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?
All visible anchorage was free of potentially adverse seismic conditions. Y N U

Interaction Effects

7. Are soft targets free from impact by nearby equipment or structures?
There are no soft targets that could be impacted by nearby equipment or structures. Y N U N/A
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?
There are no masonry block walls or ceiling tiles in the room. The lights are in good condition, and do not present an interaction effect. Y N U N/A
9. Do attached lines have adequate flexibility to avoid damage?
The attached lines have adequate flexibility. Y N U N/A
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?
Based on the above evaluation, the switch is free of potentially adverse seismic interaction effects. Y N U

Sheet 3 of 5

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-067

Equipment ID No. SS-5211 Equip. Class 18 - Instrument Racks

Equipment Description DG1 OVERSPEED TRIP SWITCH

Other Adverse Conditions

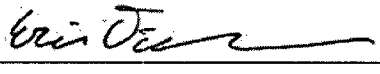
11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? Y N U

It was looked for, and no other seismic conditions that could adversely affect the safety functions were found.

Comments (Additional pages may be added as necessary)

SS-5211 is not immediately identifiable using the primary equipment ID tag. A tag of "S 23" is visible on the component, and this is listed in Asset Suite as a Component Alternate Tag for SS-5211.

Evaluated by: Daniel Parker  Date: 10/11/2012

Eric Dilbone  10/11/2012

Sheet 4 of 5

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-067

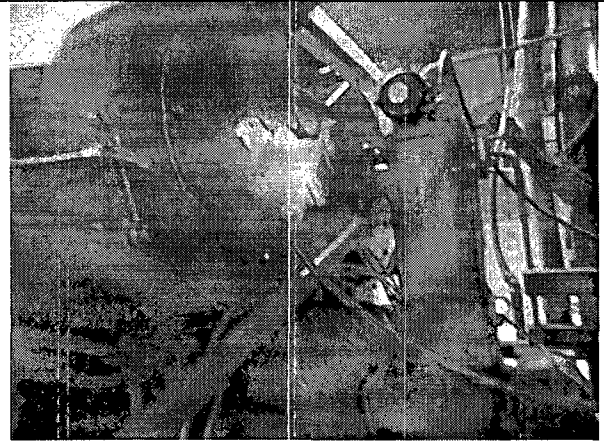
Equipment ID No. SS-5211 Equip. Class 18 - Instrument Racks

Equipment Description DG1 OVERSPEED TRIP SWITCH

Photographs



Note: Alternate tag showing S 23 identifies the component SS-5211.



Note: Overspeed trip switch is shown mounted to the EDG.

Sheet 5 of 5

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-067

Equipment ID No. SS-5211 Equip. Class 18 - Instrument Racks

Equipment Description DG1 OVERSPEED TRIP SWITCH



Note: *The manufacturer tag is shown for the overspeed trip switch.*

Note:

Sheet 1 of 4

Status: Y N U**Seismic Walkdown Checklist (SWC) SWEL1-068**Equipment ID No. SE-5220 Equip. Class¹ 18 - INSTRUMENT RACKSEquipment Description SPEED DETECTOR FOR K-4BLocation: Bldg. RAB Floor El. 369 Room, Area 86

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
Anchorage configuration verification is not required for this component.

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

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

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y N U N/A
The component is not anchored into concrete; therefore, this question is not applicable.

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

Sheet 2 of 4

Status: Y N U**Seismic Walkdown Checklist (SWC) SWEL1-068**Equipment ID No. SE-5220 Equip. Class 18 - INSTRUMENT RACKSEquipment Description SPEED DETECTOR FOR K-4B

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 configuration verification is not required for this component; therefore, this question is not applicable.
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y N U
Based on the above anchorage evaluation, 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 primary soft target in the area is the electrical cable connected to SE-5220. The cable is free from impact by any 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
There are no potential interactions with overhead equipment, lighting or masonry block walls.
9. Do attached lines have adequate flexibility to avoid damage? Y N U N/A
The 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 free of potentially adverse seismic interaction effects.

Sheet 3 of 4

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-068

Equipment ID No. SE-5220 Equip. Class 18 - INSTRUMENT RACKS

Equipment Description SPEED DETECTOR FOR K-4B


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

It was looked for, and no seismic conditions that could adversely affect the safety function of the equipment was found.

Comments (Additional pages may be added as necessary)

SE-5220, Speed Detector for K-4B does not have an equipment tag; the component location was positively identified on design drawings and field verified by the Unit 1 Emergency Diesel Generators System Engineer. The Speed Detector is very well anchored.

Evaluated by: Chris Johnson  Date: 11/08/12

Ojaswi Shrestha  11/08/12

Sheet 4 of 4

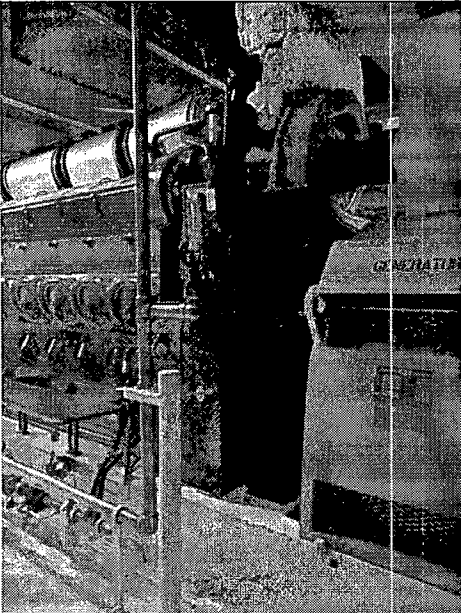
Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-068

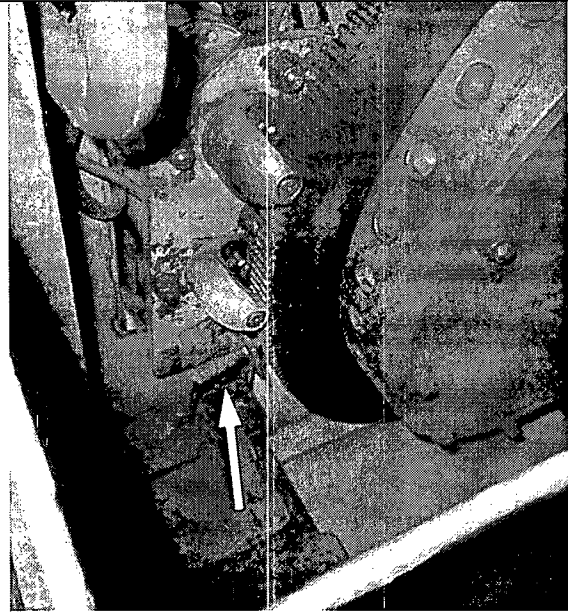
Equipment ID No. SE-5220 Equip. Class 18 - INSTRUMENT RACKS

Equipment Description SPEED DETECTOR FOR K-4B

Photographs



Note: This photo shows the relative location of SE-5220 on K-4B.



Note: SE-5220 is mounted next the flywheel as indicated by the yellow arrow.

Sheet 1 of 5

Status: Y N U **Seismic Walkdown Checklist (SWC) SWEL1-069**Equipment ID No. PS-5284 Equip. Class¹ 18 – INSTRUMENT RACKSEquipment Description K4B CRANKCASE PRESS HILocation: Bldg. RAB Floor El. 369 Room, Area 86Manufacturer, Model, Etc. (optional but recommended) Electro-Motive 645E4B Turbocharged Diesel Engine**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 anchorage configuration verification required.
2. Is the anchorage free of bent, broken, missing or loose hardware? Y N U N/A
The anchorage is free of bent, broken, missing and loose hardware.
3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y N U N/A
The anchorage is free of corrosion.
4. Is the anchorage free of visible cracks in the concrete near the anchors? Y N U N/A
This component is anchored directly to the EDG skid. No cracks in the concrete around the anchorage of the skid were observed.

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

Sheet 2 of 5

Status: Y N U **Seismic Walkdown Checklist (SWC) SWEL1-069**Equipment ID No. PS-5284 Equip. Class² 18 – INSTRUMENT RACKSEquipment Description K4B CRANKCASE PRESS HI

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.)
This is not applicable since it is not part of the 50% of SWEL items requiring anchorage configuration verification. Y N U N/A
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?
Based on the above anchorage evaluations, the anchorage is free of potentially adverse seismic conditions. Y N U

Interaction Effects

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

² Enter the equipment class name from Appendix B: Classes of Equipment.

Sheet 3 of 5

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-069

Equipment ID No. PS-5284 Equip. Class³ 18 - INSTRUMENT RACKS

Equipment Description K4B CRANKCASE PRESS HI

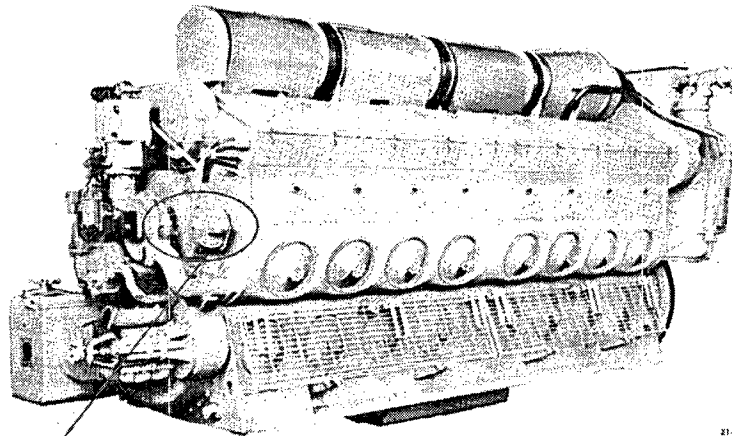
Other Adverse Conditions

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

It was looked for, and no other seismic conditions that could adversely affect the safety functions of the equipment were found.

Comments (Additional pages may be added as necessary)

The Crankcase Pressure Detector is a critical component of the diesel engine. Every mounting bolt was observed to be in place. The entire engine appeared clean and well maintained. There were no visible leaks or signs of previous leaks at any location where accessory components were bolted to the main engine block.



Crankcase Pressure Detector.

Three-Quarter Left Front View, 16-Cylinder

Evaluated by: Daniel Parker  Date: 10/2/2012

Eric Dilbone  10/2/2012

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

Sheet 4 of 5

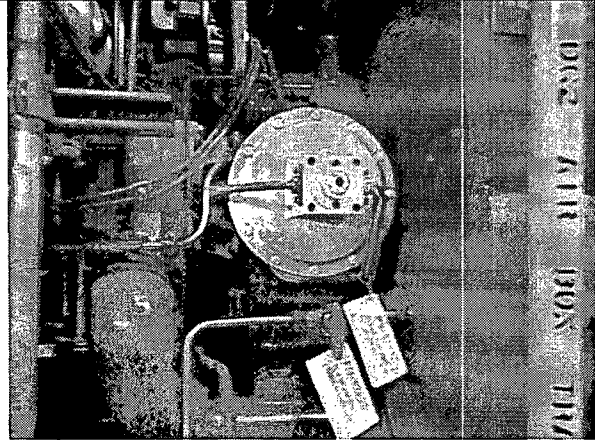
Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-069

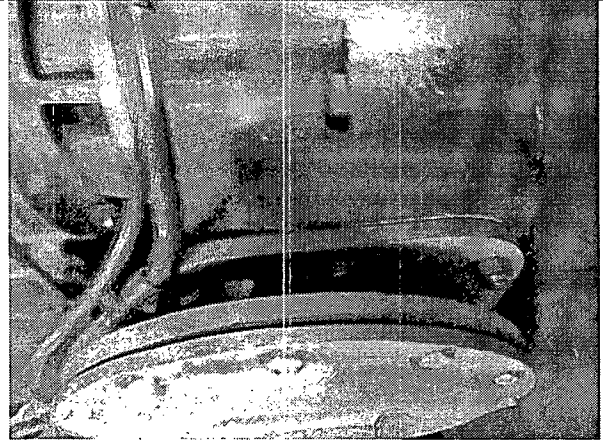
Equipment ID No. PS-5284 Equip. Class⁴ 18 – INSTRUMENT RACKS

Equipment Description K4B CRANKCASE PRESS HI

Photographs



Note: *Front of PS-5284*



Note: *Upper Mounting Bolts of PS-5284*

⁴ Enter the equipment class name from Appendix B: Classes of Equipment.

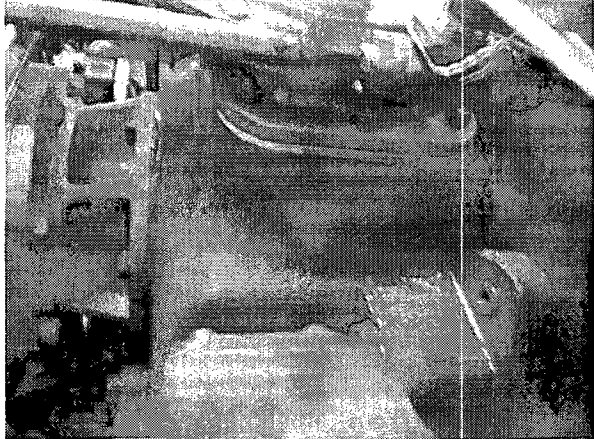
Sheet 5 of 5

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-069

Equipment ID No. PS-5284 Equip. Class⁵ 18 – INSTRUMENT RACKS

Equipment Description K4B CRANKCASE PRESS HI



Note: Lower Mounting Bolts of PS-5284

Note:

⁵ Enter the equipment class name from Appendix B: Classes of Equipment.

Sheet 1 of 5

Status: Y N U**Seismic Walkdown Checklist (SWC) SWEL1-070**Equipment ID No. D14 Equip. Class¹ 18 - Instrument RacksEquipment Description D06 MANUAL DISCONNECTLocation: Bldg. RAB Floor El. 372 Room, Area 98

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

Instructions for Completing Checklist

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

Anchorage

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y N
This item is part of the 50%.
2. Is the anchorage free of bent, broken, missing or loose hardware? Y N U N/A
No bent broken or missing hardware was found.
3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y N U N/A
No corrosion was observed.
4. Is the anchorage free of visible cracks in the concrete near the anchors? Y N U N/A
Concrete around anchors in support frame base plates were observed to be free of cracks.

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

Sheet 2 of 5

Status: Y N U**Seismic Walkdown Checklist (SWC) SWEL1-070**Equipment ID No. D14 Equip. Class 18 - Instrument RacksEquipment Description D06 MANUAL DISCONNECT

5. Is the anchorage configuration consistent with plant documentation?
(Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)
Anchorage configuration was determined to be consistent with CALC-94-SQ-1001-18, pages 19-29. Y N U N/A
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?
Anchorage was determined to be free from adverse seismic conditions. Y N U

Interaction Effects

7. Are soft targets free from impact by nearby equipment or structures?
No soft targets were observed. Y N U N/A
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?
Overhead support conditions appeared to be adequate. Y N U N/A
9. Do attached lines have adequate flexibility to avoid damage?
Attached lines appear to be ok (both flexible and rigid conduits) Y N U N/A
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?
No adverse seismic interaction conditions were observed. Y N U

Sheet 3 of 5

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-070

Equipment ID No. D14 Equip. Class 18 - Instrument Racks

Equipment Description D06 MANUAL DISCONNECT

Other Adverse Conditions

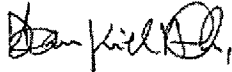
11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? Y N U

No other adverse seismic conditions were observed.

Comments (Additional pages may be added as necessary)

No adverse seismic conditions were observed.

Evaluated by: Daniel Andoh



Date: 10/10/2012

Genaro Barragan Jr.



10/10/2012

Sheet 4 of 5

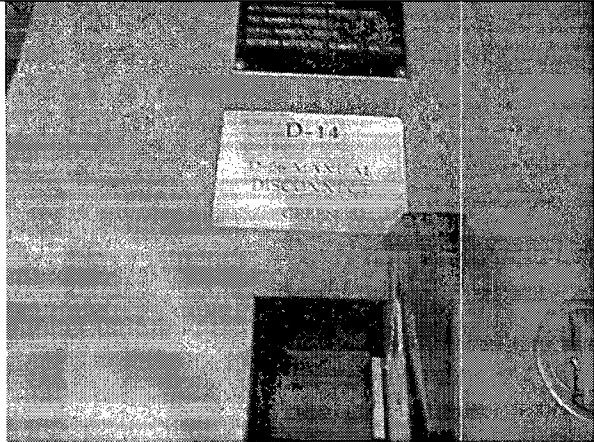
Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-070

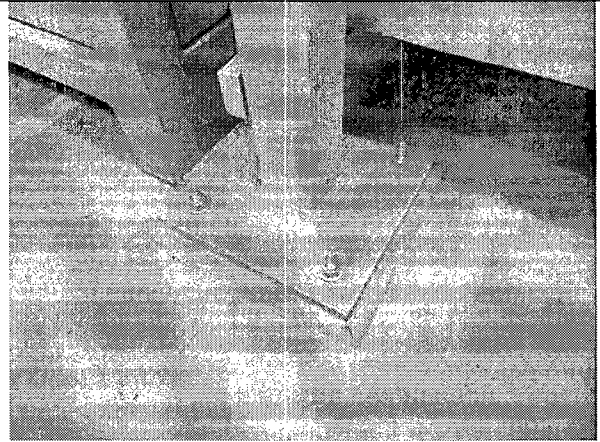
Equipment ID No. D14 Equip. Class 18 - Instrument Racks

Equipment Description D06 MANUAL DISCONNECT

Photographs



Note: *Equipment Tag*



Note: *Support frame base plate*

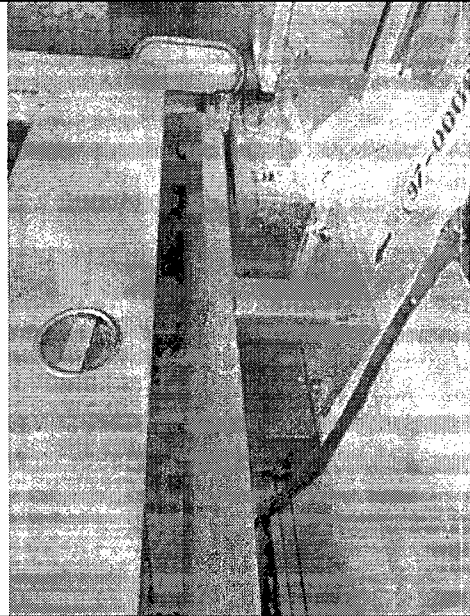
Sheet 5 of 5

Status: Y N U

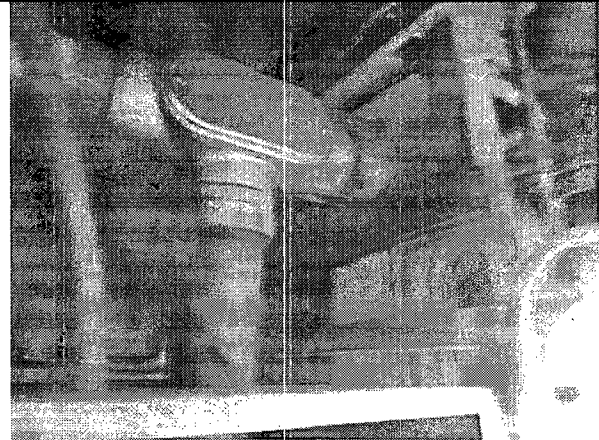
Seismic Walkdown Checklist (SWC) SWEL1-070

Equipment ID No. D14 Equip. Class 18 - Instrument Racks

Equipment Description D06 MANUAL DISCONNECT



Note: *Support frame connection to wall*



Note: *Panel support to frame*

Sheet 1 of 5

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-071

Equipment ID No. PT-2667A Equip. Class¹ 18 - Instrument Racks

Equipment Description E24B MAIN STM PRESS-MSLI

Location: Bldg. RAB Floor El. 386 Room, Area 144

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, this is one of the 50% of SWEL items requiring anchorage configuration verification.

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

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

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y N U N/A
The anchorage for the plate was inspected and there were no visible cracks in the concrete.

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

Sheet 2 of 5

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-071

Equipment ID No. PT-2667A Equip. Class 18 - Instrument Racks

Equipment Description E24B MAIN STM PRESS-MSLI

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.)
Yes, anchorage configuration is consistent with CALC-94-SQ-1001-18, pages 202-206. Y N U N/A
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?
Yes, the anchorage is free of potentially adverse seismic conditions. Y N U

Interaction Effects

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

Sheet 3 of 5

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-071

Equipment ID No. PT-2667A Equip. Class 18 - Instrument Racks

Equipment Description E24B MAIN STM PRESS-MSLI

Other Adverse Conditions

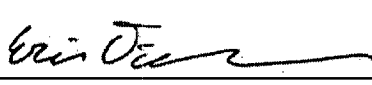
11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? Y N U

Yes, no other seismic conditions that could adversely affect the safety functions of the equipment were identified.

Comments (Additional pages may be added as necessary)

Anchorage was consistent with the plant documentation. The anchorage of concern was the 16 x 30 x 1/4 inch plate anchored to the wall. The pressure transmitter (PT-2667A) was bolted to this plate. The plate was bolted to the wall with a pair of Unistruts. Each Unistrut was anchored with two expansion anchors. See SEWS package, PT-2667A (Rev.0) for more details.

Evaluated by: Genaro Barragan Jr.  Date: 10/9/2012

Eric Dilbone  10/9/2012

Sheet 4 of 5

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-071

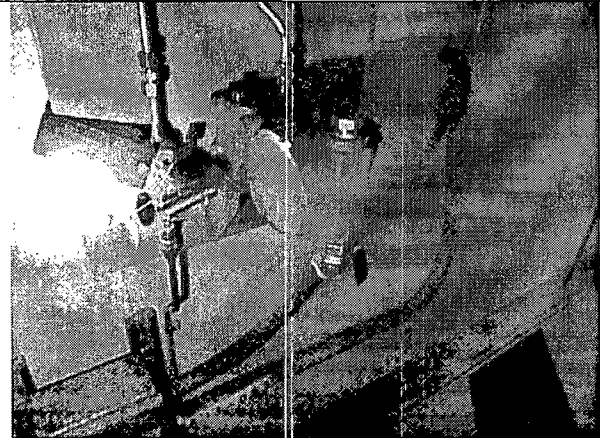
Equipment ID No. PT-2667A Equip. Class 18 - Instrument Racks

Equipment Description E24B MAIN STM PRESS-MSLI

Photographs



Note: General image of the equipment tag, PT-2667A.



Note: General image of the Pressure Transmitter anchored to the plate in the wall.

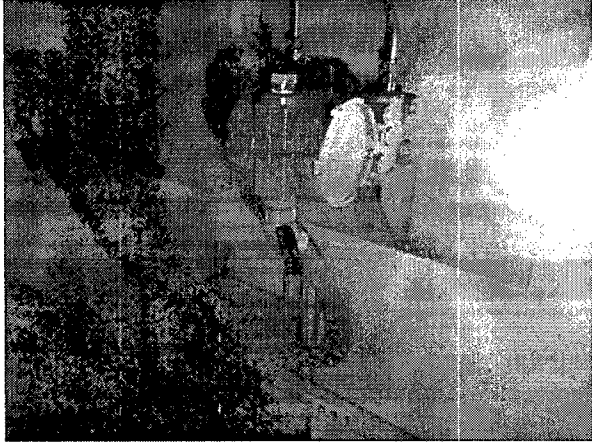
Sheet 5 of 5

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-071

Equipment ID No. PT-2667A Equip. Class 18 - Instrument Racks

Equipment Description E24B MAIN STM PRESS-MSLI



Note: General image of the PT-2667A.



Note: General image of the PT-2667A.

Sheet 1 of 5

Status: Y N U **Seismic Walkdown Checklist (SWC) SWEL1-072**Equipment ID No. N/A Equip. Class¹ N/AEquipment Description NOT USEDLocation: Bldg. N/A Floor El. N/A Room, Area N/A

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

Instructions for Completing Checklist

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

Anchorage

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

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

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

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

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

Sheet 2 of 5

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-072

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

Equipment Description NOT USED

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

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

Interaction Effects

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

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

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

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

Sheet 3 of 5

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-072

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

Equipment Description NOT USED

Other Adverse Conditions

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

Comments (Additional pages may be added as necessary)

Evaluated by: _____ Date: _____

Sheet 4 of 5

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-072

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

Equipment Description NOT USED

Photographs

<p>Note:</p>	<p>Note:</p>

Sheet 5 of 5

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-072

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

Equipment Description NOT USED

Note:	Note:

Sheet 1 of 5

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-073

Equipment ID No. LSL-5206 Equip. Class¹ 18 - Instrument Racks

Equipment Description LOW LEVEL DIESEL SWITCH

Location: Bldg. RAB Floor El. 369 Room, Area 87

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

Instructions for Completing Checklist

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

Anchorage

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y N
Item is not part of the 50%.

2. Is the anchorage free of bent, broken, missing or loose hardware? Y N U N/A
The bolts anchoring the switch to the EDG skid are free of bent, broken, missing and loose hardware.

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y N U N/A
The anchorage had very mild surface oxidation, but is free of corrosion otherwise.

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y N U N/A
The switch is anchored to the EDG skid. No cracks in concrete were observed around the skid anchorage.

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

Sheet 2 of 5

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1- 073

Equipment ID No. LSL-5206 Equip. Class² 18 - Instrument Racks

Equipment Description LOW LEVEL DIESEL SWITCH

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.)
This does not apply since this item is not part of the 50% requiring anchorage configuration
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y N U
All anchorage was free of potentially adverse seismic conditions.

Interaction Effects

7. Are soft targets free from impact by nearby equipment or structures? Y N U N/A
There are no soft targets that could be impacted 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
There are no masonry block walls or ceiling tiles in the room. The lights are in good condition, and do not present an interaction effect.
9. Do attached lines have adequate flexibility to avoid damage? Y N U N/A
The attached lines have adequate flexibility.
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y N U
Based on the above evaluation, the component is free of potentially adverse seismic interaction effects.

² Enter the equipment class name from Appendix B: Classes of Equipment.

Sheet 3 of 5

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-073

Equipment ID No. LSL-5206 Equip. Class³ 18 - Instrument Racks

Equipment Description LOW LEVEL DIESEL SWITCH

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

It was looked for, and no other seismic conditions that could adversely affect the safety functions were found.

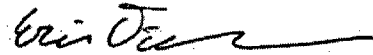
Comments (Additional pages may be added as necessary)

Evaluated by: Daniel Parker



Date: 10/11/2012

Eric Dilbone



10/11/2012

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

Sheet 4 of 5

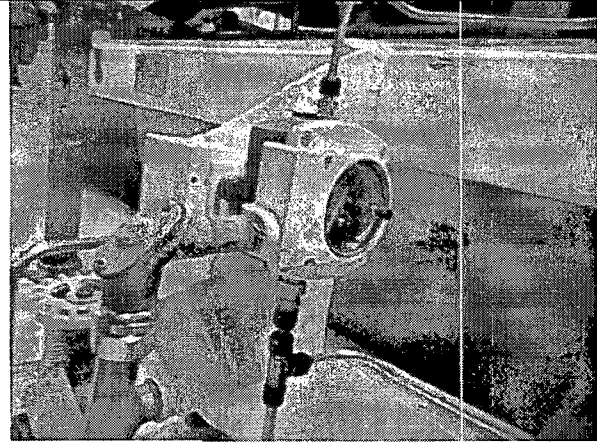
Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1- 073

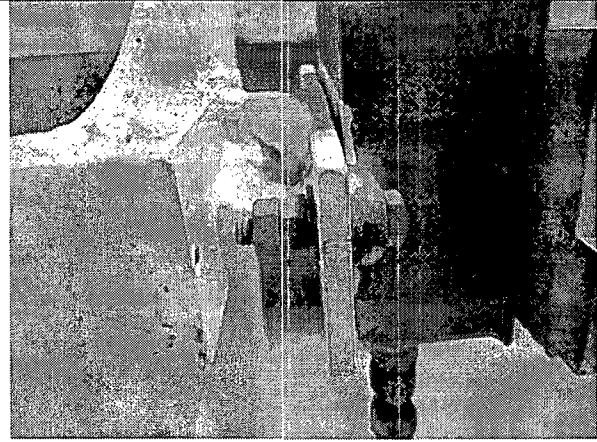
Equipment ID No. LSL-5206 Equip. Class⁴ 18 - Instrument Racks

Equipment Description LOW LEVEL DIESEL SWITCH

Photographs



Note: View of the level switch with the equipment ID tag.



Note: Side view of the switch showing the anchorage to the skid.

⁴ Enter the equipment class name from Appendix B: Classes of Equipment.

Sheet 5 of 5

Status: Y N U

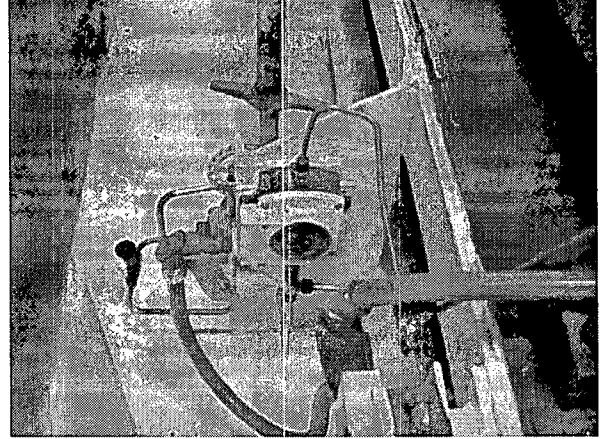
Seismic Walkdown Checklist (SWC) SWEL1-073

Equipment ID No. LSL-5206 Equip. Class⁵ 18 - Instrument Racks

Equipment Description LOW LEVEL DIESEL SWITCH



Note: Overhead view of the switch showing the anchor bolt not visible in the previous image.



Note: General view of the level switch showing attached lines.

⁵ Enter the equipment class name from Appendix B: Classes of Equipment.

Sheet 1 of 5

Status: Y N U **Seismic Walkdown Checklist (SWC) SWEL1-074**Equipment ID No. PT-2812 Equip. Class¹ 18 – INSTRUMENT RACKSEquipment Description EFPW P-7B DISCHARGE PRESSURELocation: Bldg. RAB Floor El. 335 Room, Area 38

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 anchorage configuration verification required.

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

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

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y N U N/A
The component is anchored by a bracket to a clamp on a pipe, so concrete near the anchorage is not applicable.

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

Sheet 2 of 5

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-074

Equipment ID No. PT-2812 Equip. Class² 18 – INSTRUMENT RACKS

Equipment Description EFWP P-7B DISCHARGE PRESSURE

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.)
This is not part of the 50%. Y N U N/A
6. Based on the above anchorage evaluations, is the anchorage free of
potentially adverse seismic conditions? Y N U
*Based on the above anchorage evaluations, the anchorage is free of
potentially adverse seismic conditions.*

Interaction Effects

7. Are soft targets free from impact by nearby equipment or structures?
*All adjacent equipment are adequately spaced apart from each other
where this component is mounted.* Y N U N/A
8. Are overhead equipment, distribution systems, ceiling tiles and lighting,
and masonry block walls not likely to collapse onto the equipment? Y N U N/A
*All overhead piping systems and electrical conduit are adequately
secured.*
9. Do attached lines have adequate flexibility to avoid damage?
Attached lines have adequate flexibility. Y N U N/A
10. Based on the above seismic interaction evaluations, is equipment free
of potentially adverse seismic interaction effects? Y N U
*Based on the above seismic interaction evaluations, the equipment is
free of potentially adverse seismic interaction effects.*

² Enter the equipment class name from Appendix B: Classes of Equipment.

Sheet 3 of 5

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-074

Equipment ID No. PT-2812 Equip. Class³ 18 - INSTRUMENT RACKS

Equipment Description EFWP P-7B DISCHARGE PRESSURE

Other Adverse Conditions

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

A fire extinguisher is mounted on the wall near this component.

Comments (Additional pages may be added as necessary)

The PT-2812 component is clamped to an ~ 1 1/2 " diameter pipe support bolted into the adjacent RC wall. This pipe support and clamp appear to be adequately secure to support the equipment during a seismic event.

Evaluated by: Michael E. Perez  Date: 10/8/2012

Daniel Parker  10/8/2012

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

Sheet 4 of 5

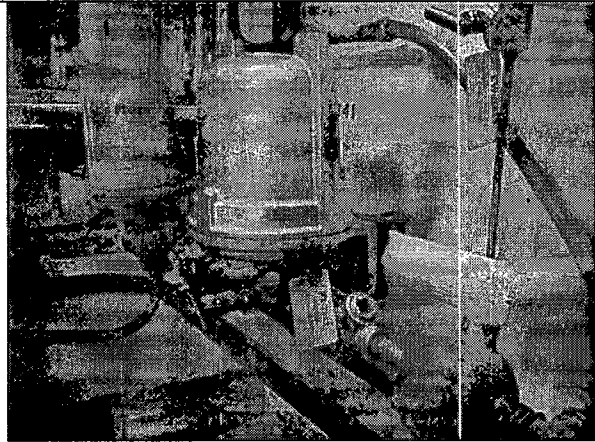
Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-074

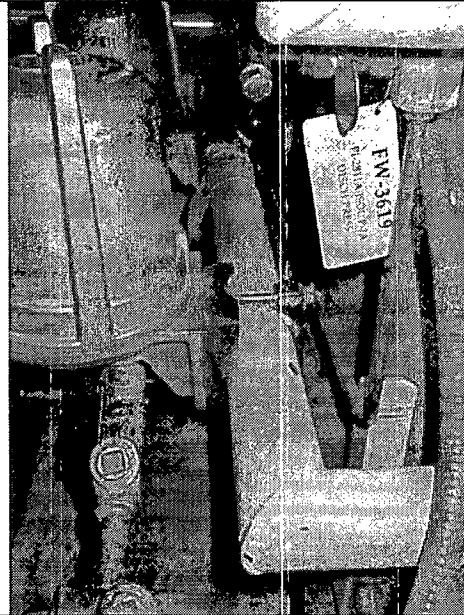
Equipment ID No. PT-2812 Equip. Class⁴ 18 – INSTRUMENT RACKS

Equipment Description EFWP P-7B DISCHARGE PRESSURE

Photographs



Note: *PT-2812 with equipment identification tag.*



Note: *Clamp support, top view.*

⁴ Enter the equipment class name from Appendix B: Classes of Equipment.

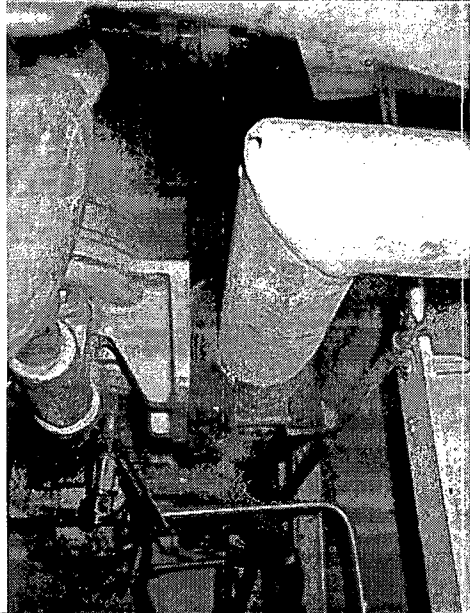
Sheet 5 of 5

Status: Y N U

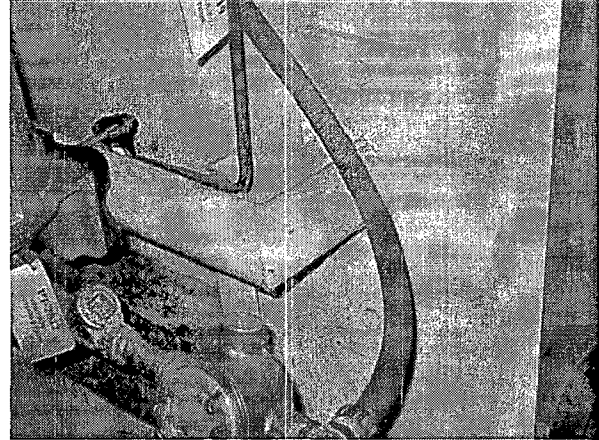
Seismic Walkdown Checklist (SWC) SWEL1-074

Equipment ID No. PT-2812 Equip. Class⁵ 18 – INSTRUMENT RACKS

Equipment Description EFWP P-7B DISCHARGE PRESSURE



Note: Clamp support, bottom view.



Note: Pipe anchorage to RC wall.

⁵ Enter the equipment class name from Appendix B: Classes of Equipment.

Sheet 1 of 5

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-075

Equipment ID No. N/A Equip. Class¹ N/A

Equipment Description NOT USED

Location: Bldg. N/A Floor El. N/A Room, Area N/A

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

Instructions for Completing Checklist

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

Anchorage

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

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

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

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

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

Sheet 2 of 5

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-075

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

Equipment Description NOT USED

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

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

Interaction Effects

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

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

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

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

Sheet 3 of 5

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-075

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

Equipment Description NOT USED

Other Adverse Conditions

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

Comments (Additional pages may be added as necessary)

Evaluated by: _____ Date: _____

Sheet 4 of 5

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-075

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

Equipment Description NOT USED

Photographs

Note:	Note:

Sheet 5 of 5

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-075

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

Equipment Description NOT USED

Note:	Note:

Sheet 1 of 5

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-076

Equipment ID No. TE-1139 Equip. Class¹ 19 – Temperature Sensors

Equipment Description 'B' LOOP TH TEMP

Location: Bldg. RB Floor El. 410 Room, Area 150

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

Instructions for Completing Checklist

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

Anchorage

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

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

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

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

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

Sheet 2 of 5

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-076

Equipment ID No. TE-1139 Equip. Class 19 – Temperature Sensors

Equipment Description 'B' LOOP TH TEMP

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

Interaction Effects

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

Sheet 3 of 5

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-076

Equipment ID No. TE-1139 Equip. Class 19 – Temperature Sensors

Equipment Description 'B' LOOP TH TEMP

Other Adverse Conditions

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

Comments (Additional pages may be added as necessary)

Evaluated by: _____ Date: _____

Sheet 4 of 5

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-076

Equipment ID No. TE-1139 Equip. Class 19 – Temperature Sensors

Equipment Description 'B' LOOP TH TEMP

Photographs

Note:	Note:

Sheet 5 of 5

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-076

Equipment ID No. TE-1139 Equip. Class 19 – Temperature Sensors

Equipment Description 'B' LOOP TH TEMP

Note:	Note:

Sheet 1 of 5

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-077

Equipment ID No. TS-7904 Equip. Class¹ 19 – TEMPERATURE SENSORS

Equipment Description H&V EMGCY D-G RM FAN D

Location: Bldg. RAB Floor El. 369 Room, Area 86

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

Instructions for Completing Checklist

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

Anchorage

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

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

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

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

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

Sheet 2 of 5

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-077

Equipment ID No. TS-7904 Equip. Class² 19 – TEMPERATURE SENSORS

Equipment Description H&V EMGCY D-G RM FAN D

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.)
TS-7904 temperature sensor is mounted to piece of Unistrut which is adequately anchored to the north wall near the center of the room. The anchorage configuration is consistent with CALC-94-SQ-1001-19, page 32.
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y N U
Based on the above anchorage evaluations, the anchorage is free of potentially adverse seismic conditions.

Interaction Effects

7. Are soft targets free from impact by nearby equipment or structures? Y N U N/A
All components mounted on the wall near TS-7904 are mounted similarly on anchored uni-strut. Overhead fluorescent lighting fixtures are adequately secured to prevent falling 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
All rigid electrical conduit, piping, and exhaust ducts overhead are adequately secured to prevent any seismic interaction with the component.
9. Do attached lines have adequate flexibility to avoid damage? Y N U N/A
Attached lines have adequate flexibility.
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y N U
Based on the above seismic interaction evaluations, the equipment is free of potentially adverse seismic interaction effects.

² Enter the equipment class name from Appendix B: Classes of Equipment.

Sheet 3 of 5

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-077

Equipment ID No. TS-7904 Equip. Class³ 19 – TEMPERATURE SENSORS

Equipment Description H&V EMGCY D-G RM FAN D

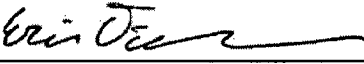
Other Adverse Conditions

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

It was looked for, and no other seismic conditions that could adversely affect the safety functions of the equipment were found.

Comments (Additional pages may be added as necessary)

The component was mounted to a piece of uni-strut anchored to the RC wall. The anchorage was judged to be adequate and sufficient as per ANO documentation, 6030.113 Seismic Raceway Supports, Attachment 3, Support Mounting Details, Attachment 10, Box Supports.

Evaluated by: Eric Dilbone  Date: 10/2/2012

Daniel Parker  10/2/2012

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

Sheet 4 of 5

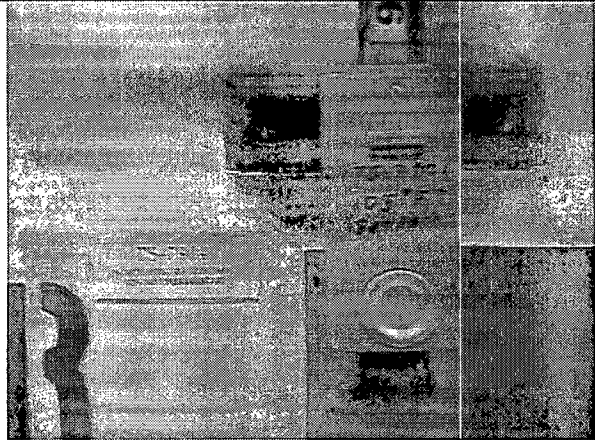
Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-077

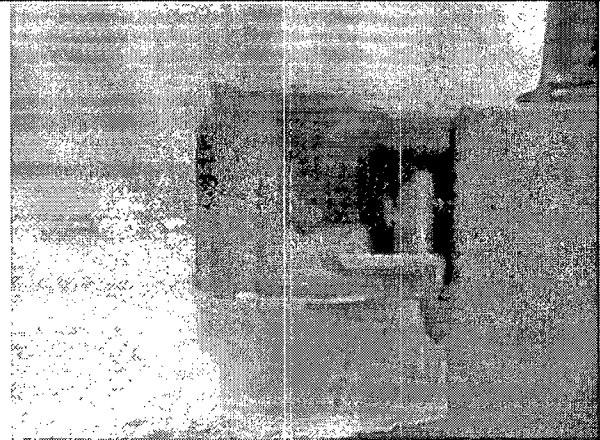
Equipment ID No. TS-7904 Equip. Class⁴ 19 – TEMPERATURE SENSORS

Equipment Description H&V EMGCY D-G RM FAN D

Photographs



Note: *TS-7904 Temperature Sensor*



Note: *TS-7904 Temperature Sensor, Uni-Strut Anchorage to Wall.*

⁴ Enter the equipment class name from Appendix B: Classes of Equipment.

Sheet 5 of 5

Status: Y N U

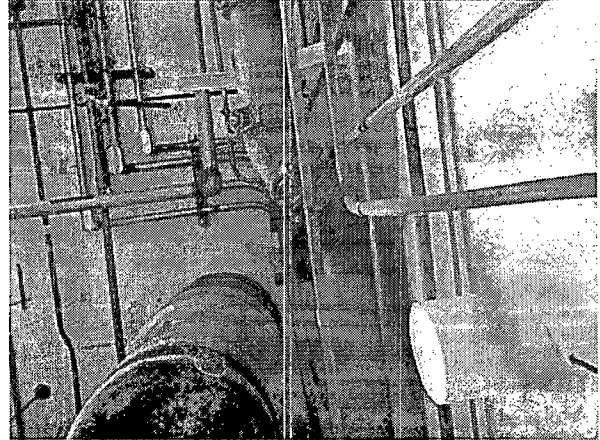
Seismic Walkdown Checklist (SWC) SWEL1-077

Equipment ID No. TS-7904 Equip. Class⁵ 19 – TEMPERATURE SENSORS

Equipment Description H&V EMGCY D-G RM FAN D



Note: *TS-7904 Temperature Sensor, Uni-Strut Anchorage to Wall.*



Note: *Above TS-7904 Temperature Sensor.*

⁵ Enter the equipment class name from Appendix B: Classes of Equipment.

Sheet 1 of 5

Status: Y N U **Seismic Walkdown Checklist (SWC) SWEL1-078**Equipment ID No. C10 Equip. Class¹ 20 - Instrumentation and Control PanelsEquipment Description VERT BD - ELEC AUXLocation: Bldg. RAB Floor El. 386 Room, Area 129

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

Instructions for Completing Checklist

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

Anchorage

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y N
This item is not part of the 50%.

2. Is the anchorage free of bent, broken, missing or loose hardware? Y N U N/A
Visual confirmation of 7 welds on front of cabinet in good condition. It was confirmed that 2 anchor bolts in the front of the cabinet are in good shape. The 2 corresponding anchor bolts in the rear of the cabinet were not visible due to wires on floor.

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

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y N U N/A
Cabinet is welded to an embedded steel channel, but the concrete surrounding the channel was free of cracks.

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

Sheet 2 of 5

Status: Y N U **Seismic Walkdown Checklist (SWC) SWEL1-078**Equipment ID No. C10 Equip. Class² 20 - Instrumentation and Control PanelsEquipment Description VERT BD – ELEC AUX

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.)
All anchorage that was visible was confirmed against CALC-94-SW-1001-20, pages 39-52, but not all anchorage could be seen. Y N U N/A
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?
All visible anchorage was free of potentially adverse seismic conditions. Y N U

Interaction Effects

7. Are soft targets free from impact by nearby equipment or structures?
There are no soft targets that could be impacted by nearby equipment or structures. Y N U N/A
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?
Masonry block walls in the room are seismically qualified, and painted with a qualification number. Ceiling tiles and lights are all in good condition, and are adequately supported. Y N U N/A
9. Do attached lines have adequate flexibility to avoid damage?
The attached lines have adequate flexibility. Y N U N/A
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?
Based on the above evaluation, the cabinet is free of potentially adverse seismic interaction effects. Y N U

² Enter the equipment class name from Appendix B: Classes of Equipment.

Sheet 3 of 5

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-078

Equipment ID No. C10 Equip. Class³ 20 - Instrumentation and Control Panels


Equipment Description VERT BD - ELEC AUX

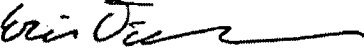
Other Adverse Conditions

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

It was looked for, and no other seismic conditions that could adversely affect the safety functions were found.

Comments (Additional pages may be added as necessary)

Evaluated by: Roy Berryman  Date: 10/4/2012

Eric Dilbone  10/4/2012

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

Sheet 4 of 5

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-078

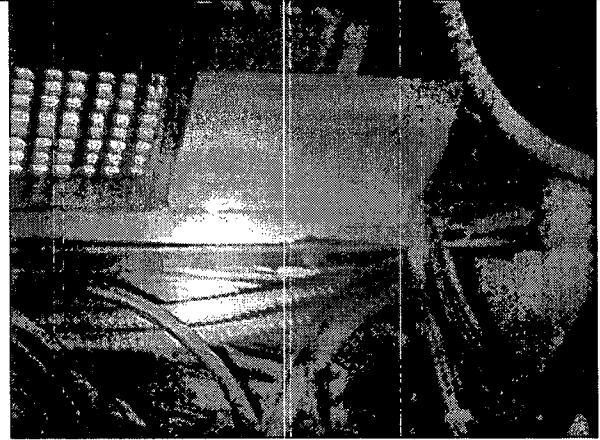
Equipment ID No. C10 Equip. Class⁴ 20 - Instrumentation and Control Panels

Equipment Description VERT BD - ELEC AUX

Photographs



Note: Cabinet C10 tag from the back.



Note: View inside the cabinet. Some of the steel channel anchor bolts were covered by wires that could not be moved for inspection.

⁴ Enter the equipment class name from Appendix B: Classes of Equipment.

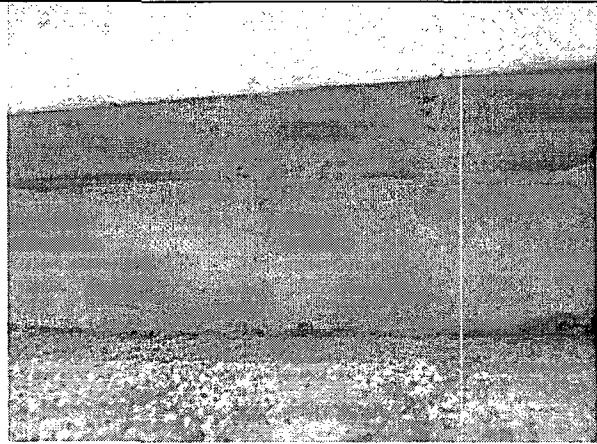
Sheet 5 of 5

Status: Y N U

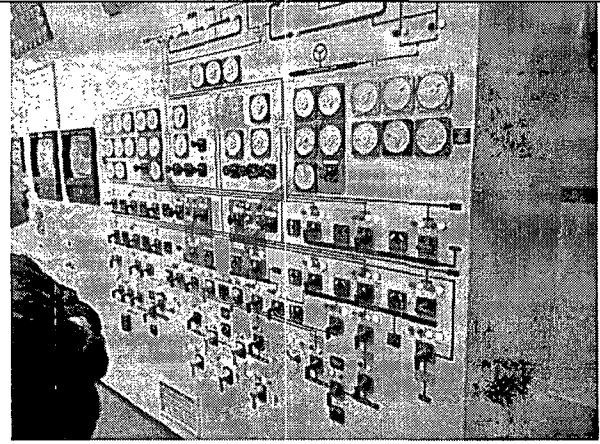
Seismic Walkdown Checklist (SWC) SWEL1-078

Equipment ID No. C10 Equip. Class⁵ 20 - Instrumentation and Control Panels

Equipment Description VERT BD - ELEC AUX



Note: A representative weld on the front of the cabinet to the steel channel.



Note: Cabinet C10 from the front.

⁵ Enter the equipment class name from Appendix B: Classes of Equipment.

Sheet 1 of 5

Status: Y N U **Seismic Walkdown Checklist (SWC) SWEL1- 079**Equipment ID No. PY-2618-A1 Equip. Class¹ 20 - Instrumentation and Control PanelsEquipment Description I/V CONVERTER STM GEN A PRESSLocation: Bldg. RAB Floor El. 368 Room, Area 104

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

Instructions for Completing Checklist

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

Anchorage

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y N
This item is not part of the 50%.

2. Is the anchorage free of bent, broken, missing or loose hardware? Y N U N/A
This component is located in a nest in cabinet C539A. No bent, broken, missing or loose hardware was observed.

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

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y N U N/A
The component is located in a nest of cabinet C539A. No cracks in the concrete were observed around the panel anchorage

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

Sheet 2 of 5

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-079

Equipment ID No. PY-2618-A1 Equip. Class² 20 - Instrumentation and Control Panels

Equipment Description I/V CONVERTER STM GEN A PRESS

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.)
This item is not part of the 50%. Y N U N/A
6. Based on the above anchorage evaluations, is the anchorage free of
potentially adverse seismic conditions?
*Based on the above anchorage evaluations, the anchorage is free of
potentially adverse seismic conditions.* Y N U

Interaction Effects

7. Are soft targets free from impact by nearby equipment or structures?
*Soft targets are free from impact since they are in a cabinet that is
latched closed.* Y N U N/A
8. Are overhead equipment, distribution systems, ceiling tiles and lighting,
and masonry block walls not likely to collapse onto the equipment?
This does not apply since the component is located inside of a cabinet. Y N U N/A
9. Do attached lines have adequate flexibility to avoid damage?
Attached lines have adequate flexibility. Y N U N/A
10. Based on the above seismic interaction evaluations, is equipment free
of potentially adverse seismic interaction effects?
*Based on the above seismic interaction evaluations, the equipment is
free of potentially adverse seismic interaction effects.* Y N U

² Enter the equipment class name from Appendix B: Classes of Equipment.

Sheet 3 of 5

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-079

Equipment ID No. PY-2618-A1 Equip. Class³ 20 - Instrumentation and Control Panels

Equipment Description I/V CONVERTER STM GEN A PRESS

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

It was looked for, and no other seismic conditions that could adversely affect the safety functions were found.

Comments (Additional pages may be added as necessary)

Evaluated by: Eric Dilbone  Date: 10/10/2012

Daniel Parker  10/10/2012

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

Sheet 4 of 5

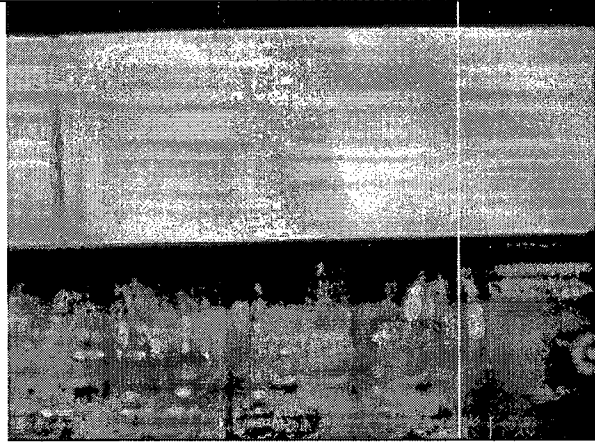
Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-079

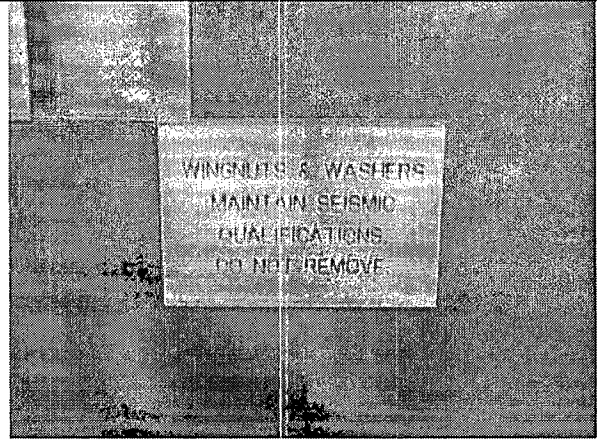
Equipment ID No. PY-2618-A1 Equip. Class⁴ 20 - Instrumentation and Control Panels

Equipment Description I/V CONVERTER STM GEN A PRESS

Photographs



Note: *Front view of component.*



Note: *Sign on cabinet door.*

⁴ Enter the equipment class name from Appendix B: Classes of Equipment.

Sheet 5 of 5

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-079

Equipment ID No. PY-2618-A1 Equip. Class⁵ 20 - Instrumentation and Control Panels

Equipment Description I/V CONVERTER STM GEN A PRESS



Note: *Wingnut and washer are used to keep the metal plate over the door to keep it from swinging open. As the nameplate reads, this is necessary to maintain seismic qualifications for the cabinet.*

Note:

⁵ Enter the equipment class name from Appendix B: Classes of Equipment.

Sheet 1 of 4

Status: Y N U **Seismic Walkdown Checklist (SWC) SWEL1-080**Equipment ID No. PB-0144 Equip. Class¹ 20 - Instrumentation and Control PanelsEquipment Description START BUTTON FOR DIESEL GENERATOR #1Location: Bldg. RAB Floor El. 386 Room, Area 129

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

Instructions for Completing Checklist

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

Anchorage

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y N
This item is not part of the 50%.

2. Is the anchorage free of bent, broken, missing or loose hardware? Y N U N/A
This component is face mounted to a cabinet. No bent, broken, missing or loose hardware was observed.

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y N U N/A
This component is face mounted to a cabinet. No corrosion was observed.

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y N U N/A
This component is face mounted to a cabinet. No cracks in concrete were observed.

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

Sheet 2 of 4

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-080

Equipment ID No. PB-0144 Equip. Class² 20 - Instrumentation and Control Panels

Equipment Description START BUTTON FOR DIESEL GENERATOR #1

5. Is the anchorage configuration consistent with plant documentation?
 (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)
This item is not part of the 50%. Y N U N/A

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?
The anchorage is not visible since it is mounted in the face of a panel. The cabinet could not be opened due to Control Room Operations. However, the button appears to be installed properly and there is no apparent reason why it would be adversely affected in a seismic event. Y N U

Interaction Effects

7. Are soft targets free from impact by nearby equipment or structures?
There are no soft targets that could be impacted by nearby equipment or structures. Y N U N/A

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?
Masonry block walls in the room are seismically qualified, and painted with a qualification number. Ceiling tiles and lights are all in good condition, and are adequately supported. Y N U N/A

9. Do attached lines have adequate flexibility to avoid damage?
There are no visible attached lines, since the button is mounted on the face of a panel. Y N U N/A

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

² Enter the equipment class name from Appendix B: Classes of Equipment.

Sheet 3 of 4

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-080

Equipment ID No. PB-0144 Equip. Class³ 20 - Instrumentation and Control Panels

Equipment Description START BUTTON FOR DIESEL GENERATOR #1

Other Adverse Conditions

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

It was looked for, and no other seismic conditions that could adversely affect the safety functions were found.

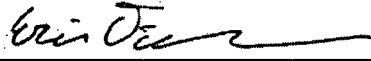
Comments (Additional pages may be added as necessary)

Evaluated by: Roy Berryman



Date: 10/4/2012

Eric Dilbone



10/4/2012

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

Sheet 4 of 4

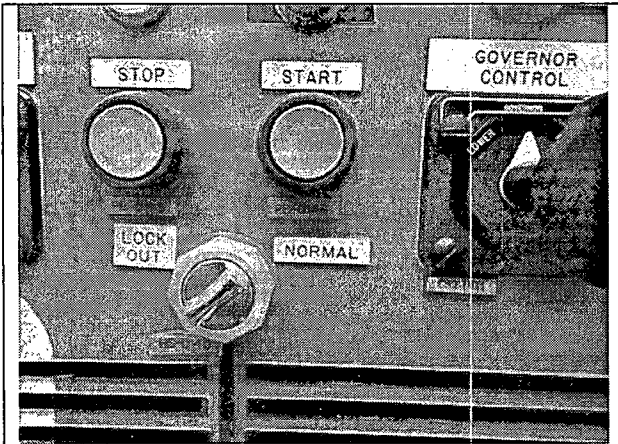
Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-080

Equipment ID No. PB-0144 Equip. Class⁴ 20 - Instrumentation and Control Panels

Equipment Description START BUTTON FOR DIESEL GENERATOR #1

Photographs



Note: *PB-0144 is shown mounted in the face of a panel.*

Note:

⁴ Enter the equipment class name from Appendix B: Classes of Equipment.

Sheet 1 of 5

Status: Y N U **Seismic Walkdown Checklist (SWC) SWEL1-081**Equipment ID No. C539A Equip. Class¹ 20 - Instrumentation and Control PanelsEquipment Description EFIC SIGNAL CONDITIONING CABINETLocation: Bldg. RAB Floor El. 368 Room, Area 104

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

Instructions for Completing Checklist

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

Anchorage

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y N
This is not part of the 50%.

2. Is the anchorage free of bent, broken, missing or loose hardware? Y N U N/A
The visible anchorage is free of bent, broken and loose hardware. However, only half of the anchorage was visible.

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

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

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

Sheet 2 of 5

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-081

Equipment ID No. C539A Equip. Class 20 - Instrumentation and Control Panels

Equipment Description EFIC SIGNAL CONDITIONING CABINET

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.)
This item is not part of the 50%. However, visible anchorage is consistent with CALC-94-SQ-1001-20, pages 235-246.
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y N U
All visible anchorage was 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
Soft targets are free from impact by nearby equipment and structures.
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y N U N/A
There are no masonry block walls or ceiling tiles in the room. The lights are in good condition, and do not present an interaction effect.
9. Do attached lines have adequate flexibility to avoid damage? Y N U N/A
The attached lines have adequate flexibility.
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y N U
Based on the above evaluation, the cabinet is free of potentially adverse seismic interaction effects.

Sheet 3 of 5

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-081

Equipment ID No. C539A Equip. Class 20 - Instrumentation and Control Panels

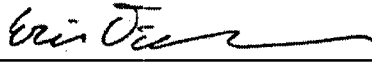
Equipment Description EFIC SIGNAL CONDITIONING CABINET

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

It was looked for, and no other seismic conditions that could adversely affect the safety functions were found.

Comments (Additional pages may be added as necessary)

Evaluated by: Eric Dilbone  Date: 10/10/2012

Daniel Parker  10/10/2012

Sheet 4 of 5

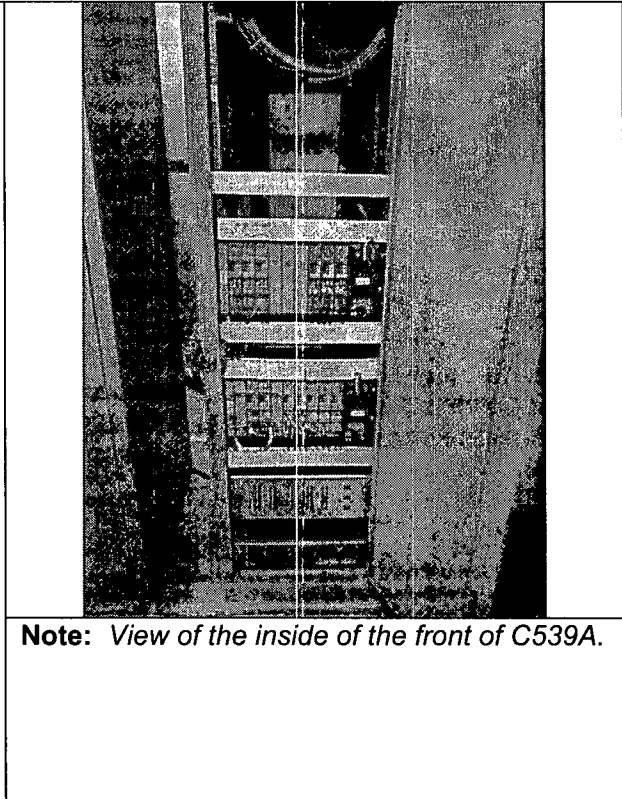
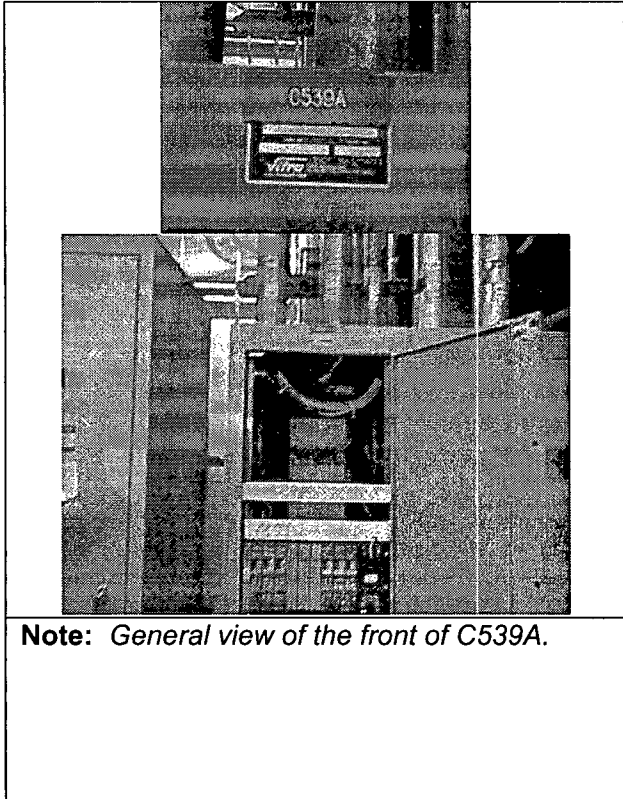
Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-081

Equipment ID No. C539A Equip. Class 20 - Instrumentation and Control Panels

Equipment Description EFIC SIGNAL CONDITIONING CABINET

Photographs



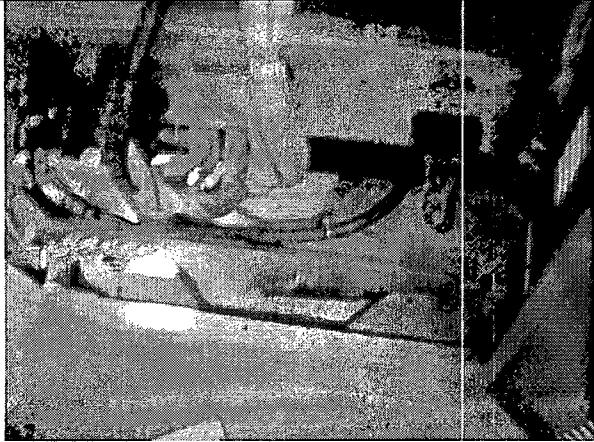
Sheet 5 of 5

Status: Y N U

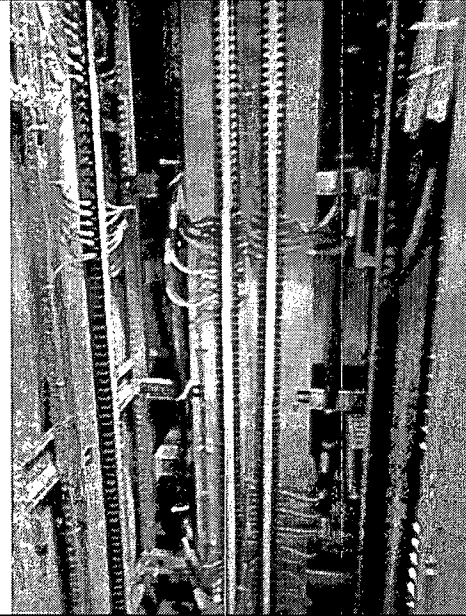
Seismic Walkdown Checklist (SWC) SWEL1-081

Equipment ID No. C539A Equip. Class 20 - Instrumentation and Control Panels

Equipment Description EFIC SIGNAL CONDITIONING CABINET



Note: View of bottom of C539A from the rear.



Note: View of C539A with the back panel taken off.

Sheet 1 of 5

Status: Y N U **Seismic Walkdown Checklist (SWC) SWEL1-082**Equipment ID No. N/A Equip. Class¹ N/AEquipment Description NOT USEDLocation: Bldg. N/A Floor El. N/A Room, Area N/A

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

Instructions for Completing Checklist

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

Anchorage

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

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

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

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

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

Sheet 2 of 5

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-082

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

Equipment Description NOT USED

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

Interaction Effects

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

Sheet 3 of 5

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-082

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

Equipment Description NOT USED

Other Adverse Conditions

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

Comments (Additional pages may be added as necessary)

Evaluated by: _____ Date: _____

Sheet 4 of 5

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-082

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

Equipment Description NOT USED

Photographs

Note:	Note:

Sheet 5 of 5

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-082

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

Equipment Description NOT USED

Note:	Note:

Sheet 1 of 5

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-083

Equipment ID No. N/A Equip. Class¹ N/A

Equipment Description NOT USED

Location: Bldg. N/A Floor El. N/A Room, Area N/A

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

Instructions for Completing Checklist

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

Anchorage

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

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

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

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

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

Sheet 2 of 5

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-083

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

Equipment Description NOT USED

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

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

Interaction Effects

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

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

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

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

Sheet 3 of 5

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-083

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

Equipment Description NOT USED

Other Adverse Conditions

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

Comments (Additional pages may be added as necessary)

Evaluated by: _____ Date: _____

Sheet 4 of 5

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-083

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

Equipment Description NOT USED

Photographs

Note:	Note:

Sheet 5 of 5

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-083

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

Equipment Description NOT USED

Note:	Note:

Sheet 1 of 5

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-084

Equipment ID No. PI-2811A Equip. Class¹ 20 - Instrumentation and Control Panels

Equipment Description EFPW P-7A DISCH PRESS

Location: Bldg. RAB Floor El. 335 Room, Area 38

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
Verification is required for this item. There are four anchor bolts in the item, and thus, this item is part of the 50%.

2. Is the anchorage free of bent, broken, missing or loose hardware? Y N U N/A
Anchorage in the item appears to be free from the conditions stated above.

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y N U N/A
There was no sign of corrosion found anywhere in the item.

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

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

Sheet 2 of 5

Status: Y N U **Seismic Walkdown Checklist (SWC) SWEL1-084**Equipment ID.No. PI-2811A Equip. Class 20 - Instrumentation and Control PanelsEquipment Description EFWP P-7A DISCH PRESS

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 with the description specified in CALC-94-SQ-1001-20, pages 1048 to 1051.
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y N U
No potentially adverse seismic conditions have been found.

Interaction Effects

7. Are soft targets free from impact by nearby equipment or structures? Y N U N/A
All soft targets appear to be free from any impact by nearby equipment and structures.
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y N U N/A
Overhead equipment is properly placed. Therefore, it is very unlikely that they would collapse onto this item.
9. Do attached lines have adequate flexibility to avoid damage? Y N U N/A
All attached lines appear to have adequate flexibility.
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y N U
Because all the mass is found near the anchor, it is very unlikely that it will seismically interact with other equipment.

Sheet 3 of 5

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-084

Equipment ID No. PI-2811A Equip. Class 20 - Instrumentation and Control Panels

Equipment Description EFWP P-7A DISCH PRESS

Other Adverse Conditions


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

No other seismic conditions were found in the area to affect the equipment's safety functions.

Comments (Additional pages may be added as necessary)

Component is found to be in adequate conditions with respect to anchorage, soft targets, overhead equipment, flexibility in attached lines, and seismic interaction. No severe issues have been found to affect the component's integrity.

Evaluated by: Daniel Parker  Date: 10/8/2012

Michael E. Perez  10/8/2012

Sheet 4 of 5

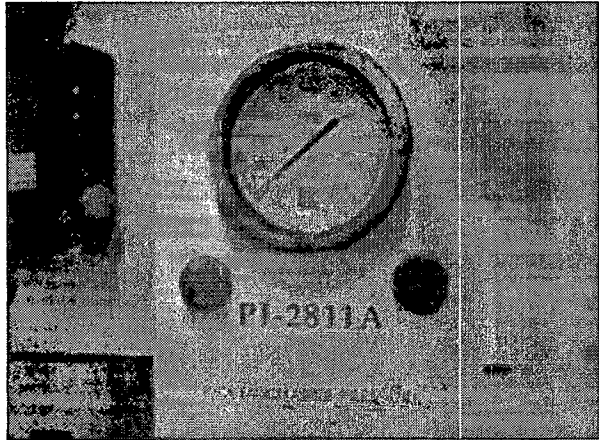
Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-084

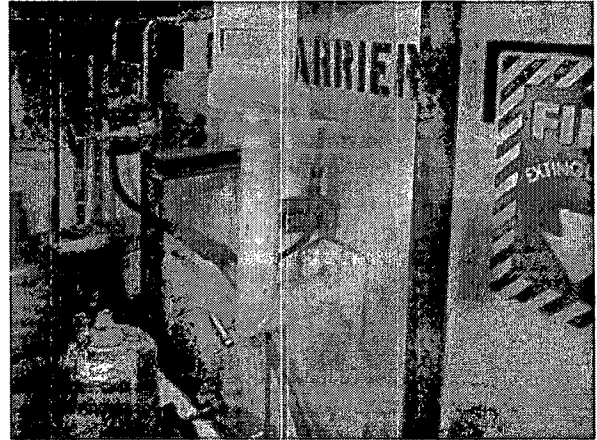
Equipment ID No. PI-2811A Equip. Class 20 - Instrumentation and Control Panels

Equipment Description EFWP P-7A DISCH PRESS

Photographs



Note: Equipment ID tag for Item PI-2811A.



Note: Equipment is mounted on a pipe rack that is anchored by 4 1/2" bolts, as specified in the SEWS. As can be seen, the anchorage is in adequate conditions.

Sheet 5 of 5

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-084

Equipment ID No. PI-2811A Equip. Class 20 - Instrumentation and Control Panels

Equipment Description EFWP P-7A DISCH PRESS



Note: Note that the additional anchors found within the component are free from any signs of corrosion.

Note:

Sheet 1 of 5

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-085

Equipment ID No. C88 Equip. Class¹ 20 - Instrumentation and Control Panels

Equipment Description ESAS CABINET ANALOG SUBSYSTEM No. 1

Location: Bldg. RAB Floor El. 386 Room, Area 129

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
Not part of the 50% anchorage configuration verification.

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

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y N U N/A
There was no observable corrosion, or even mild surface oxidation on the anchorage.

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

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

Sheet 2 of 5

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-085

Equipment ID No. C88 Equip. Class² 20 - Instrumentation and Control Panels

Equipment Description ESAS CABINET ANALOG SUBSYSTEM No. 1

5. Is the anchorage configuration consistent with plant documentation?
(Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)
The anchorage configuration is consistent with plant documentation. The anchorage is in accordance with the description in CALC-94-SQ-1001-20, page 299. Additionally, the configuration is consistent with Drawing C-264, Detail 4. Y N U N/A
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y N U

Interaction Effects

7. Are soft targets free from impact by nearby equipment or structures?
There are no soft targets that are susceptible to impact by nearby equipment or structures. All soft targets are contained within the cabinet, and the cabinet is latched closed. Y N U N/A
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?
None of the overhead equipment, ceiling tiles or lighting are likely to collapse onto the equipment. The masonry block walls in the room are seismically qualified. Y N U N/A
9. Do attached lines have adequate flexibility to avoid damage?
Attached lines have adequate flexibility to avoid damage. Y N U N/A
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?
Based on the above seismic interaction evaluations, the equipment is free of potentially adverse seismic interaction effects. Y N U

² Enter the equipment class name from Appendix B: Classes of Equipment.

Sheet 3 of 5

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-085

Equipment ID No. C88 Equip. Class³ 20 - Instrumentation and Control Panels


Equipment Description ESAS CABINET ANALOG SUBSYSTEM No. 1

Other Adverse Conditions

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

It was looked for, and no other seismic conditions that could adversely affect the safety functions of the equipment were found. It was observed that neighboring cabinets were appropriately bolted together to avoid interaction effects.

Comments (Additional pages may be added as necessary)

Evaluated by: Roy Berryman  Date: 10/4/2012

Eric Dilbone  10/4/2012

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

Sheet 4 of 5

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-085

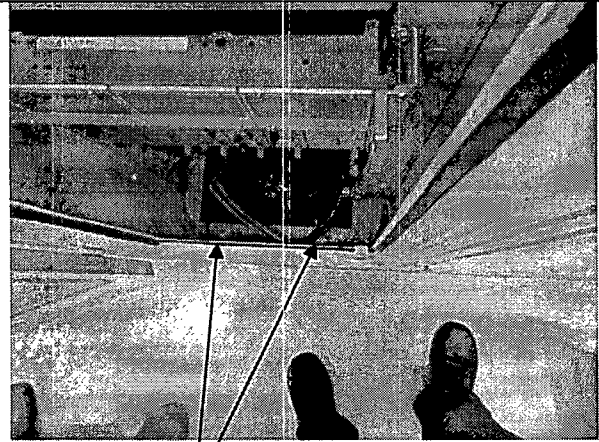
Equipment ID No. C88 Equip. Class⁴ 20 - Instrumentation and Control Panels

Equipment Description ESAS CABINET ANALOG SUBSYSTEM No. 1

Photographs



Note: Equipment ID tag identifying the cabinet.



Expansion anchors

Note: View inside the bottom of the front of the cabinet with the door open. Two of the four expansion anchors are visible.

⁴ Enter the equipment class name from Appendix B: Classes of Equipment.

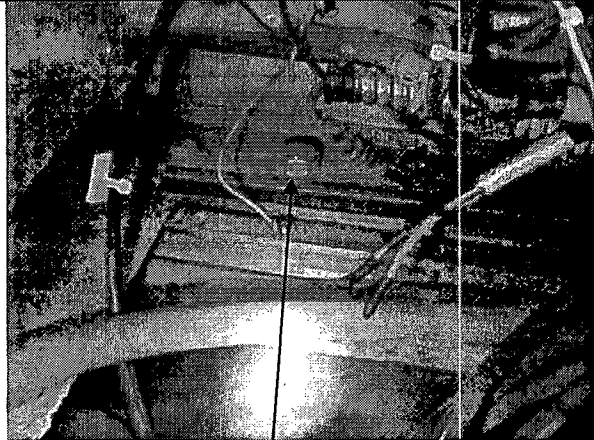
Sheet 5 of 5

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-085

Equipment ID No. C88 Equip. Class⁵ 20 - Instrumentation and Control Panels

Equipment Description ESAS CABINET ANALOG SUBSYSTEM No. 1



Expansion anchor

Note: View of one of the expansion anchors in the rear of the cabinet, as seen from the front with the door open.



Note: View of the bottom of the cabinet from the outside. Consistent with plant documentation, no anchorage is visible without opening the cabinet.

⁵ Enter the equipment class name from Appendix B: Classes of Equipment.

Sheet 1 of 5

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-086

Equipment ID No. C89 Equip. Class¹ 20 - Instrumentation and Control Panels

Equipment Description ESAS ANALOG SUBSYSTEM No. 2

Location: Bldg. RAB Floor El. 386 Room, Area 129

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

Instructions for Completing Checklist

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

Anchorage

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

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

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y N U N/A
There was no observable corrosion, or even mild surface oxidation on the anchorage.

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

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

Sheet 2 of 5

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-086

Equipment ID No. C89 Equip. Class² 20 - Instrumentation and Control Panels

Equipment Description ESAS ANALOG SUBSYSTEM No. 2

5. Is the anchorage configuration consistent with plant documentation?
(Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)
The anchorage configuration is consistent with plant documentation. The anchorage is in accordance with the description in CALC-94-SQ-1001-20, page 303. Additionally, the configuration is consistent with Drawing C-264, Detail 4. Y N U N/A
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?
Based on the above anchorage evaluations, the anchorage is free of potentially adverse seismic conditions. Y N U

Interaction Effects

7. Are soft targets free from impact by nearby equipment or structures?
There are no soft targets that are susceptible to impact by nearby equipment or structures. All soft targets are contained within the cabinet, and the cabinet is latched closed. Y N U N/A
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?
None of the overhead equipment, ceiling tiles or lighting are likely to collapse onto the equipment. The masonry block walls in the room are seismically qualified. Y N U N/A
9. Do attached lines have adequate flexibility to avoid damage?
Attached lines have adequate flexibility to avoid damage. Y N U N/A
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?
Based on the above seismic interaction evaluations, the equipment is free of potentially adverse seismic interaction effects. Y N U

² Enter the equipment class name from Appendix B: Classes of Equipment.

Sheet 3 of 5

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-086

Equipment ID No. C89 Equip. Class³ 20 - Instrumentation and Control Panels

Equipment Description ESAS ANALOG SUBSYSTEM No. 2

Other Adverse Conditions

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

It was looked for, and no other seismic conditions that could adversely affect the safety functions of the equipment were found. It was observed that neighboring cabinets were appropriately bolted together to avoid interaction effects.

Comments (Additional pages may be added as necessary)

Evaluated by: Roy Berryman  Date: 10/4/2012

Eric Dilbone  10/4/2012

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

Sheet 4 of 5

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-086

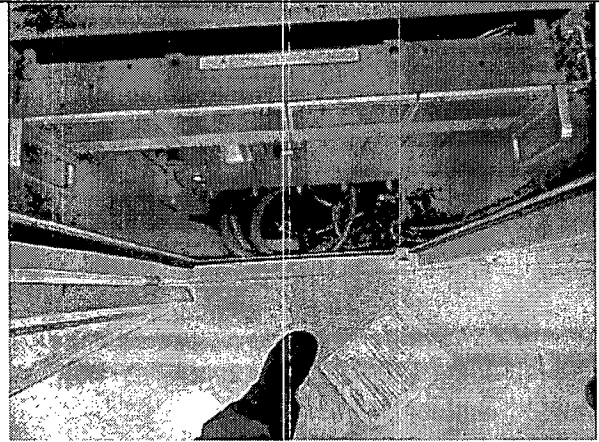
Equipment ID No. C89 Equip. Class⁴ 20 - Instrumentation and Control Panels

Equipment Description ESAS ANALOG SUBSYSTEM No. 2

Photographs



Note: *Equipment ID tag identifying the cabinet.*



Note: *View inside the bottom of the front of the cabinet.*

⁴ Enter the equipment class name from Appendix B: Classes of Equipment.

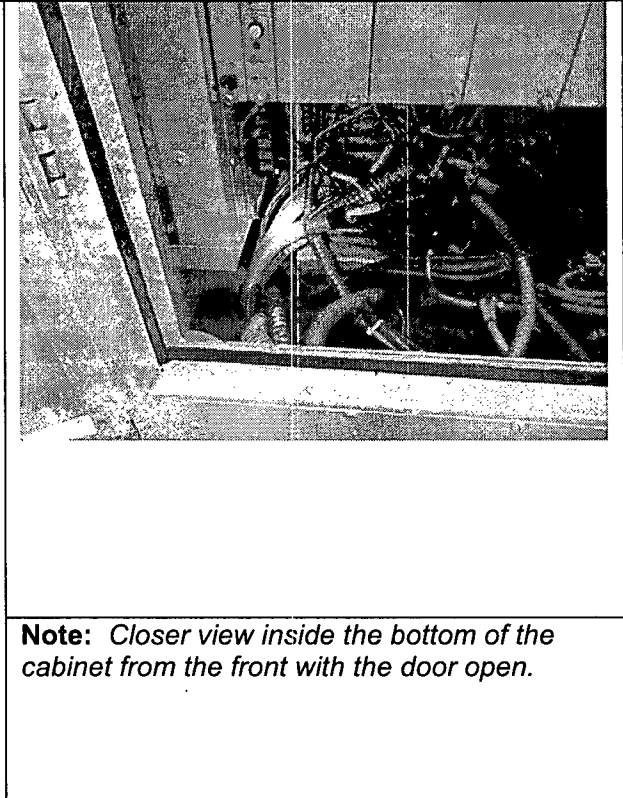
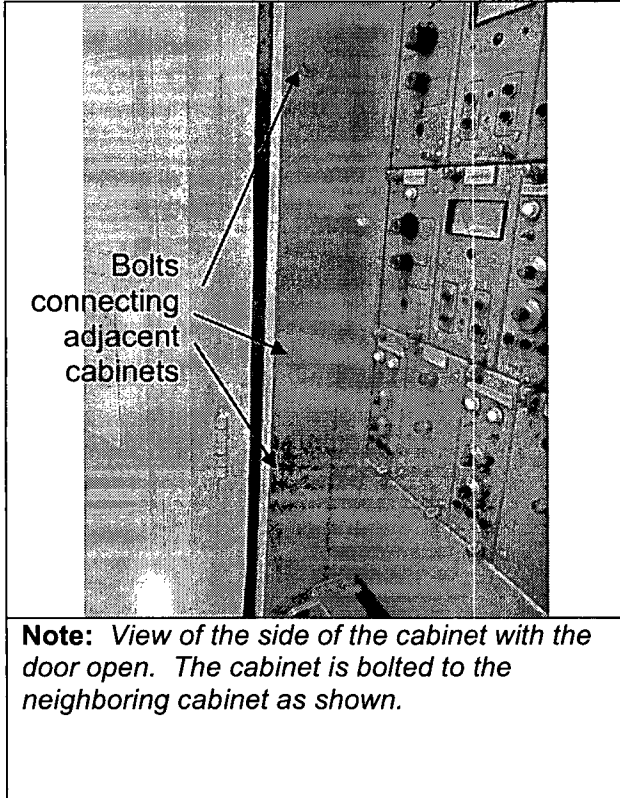
Sheet 5 of 5

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-086

Equipment ID No. C89 Equip. Class⁵ 20 - Instrumentation and Control Panels

Equipment Description ESAS ANALOG SUBSYSTEM No. 2



⁵ Enter the equipment class name from Appendix B: Classes of Equipment.

Sheet 1 of 5

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-087

Equipment ID No. C90 Equip. Class¹ 20 - Instrumentation and Control Panels

Equipment Description ESAS CABINET ANALOG SUBSYSTEM No. 3

Location: Bldg. RAB Floor El. 386 Room, Area 129

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

Instructions for Completing Checklist

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

Anchorage

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

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

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y N U N/A
There was no observable corrosion, or even mild surface oxidation on the anchorage.

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

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

Sheet 2 of 5

Status: Y N U **Seismic Walkdown Checklist (SWC) SWEL1-087**Equipment ID No. C90 Equip. Class² 20 - Instrumentation and Control PanelsEquipment Description ESAS CABINET ANALOG SUBSYSTEM No. 3

5. Is the anchorage configuration consistent with plant documentation? Y N U N/A
 (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)
The anchorage configuration is consistent with plant documentation. The anchorage is in accordance with the description in CALC-94-SQ-1001-20, page 307. Additionally, the configuration is consistent with Drawing C-264, Detail 4.
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y N U
Based on the above anchorage evaluations, the anchorage is free of potentially adverse seismic conditions.

Interaction Effects

7. Are soft targets free from impact by nearby equipment or structures? Y N U N/A
There are no soft targets that are susceptible to impact by nearby equipment or structures. All soft targets are contained within the cabinet, and the cabinet is latched closed.
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
None of the overhead equipment, ceiling tiles or lighting are likely to collapse onto the equipment. The masonry block walls in the room are seismically qualified.
9. Do attached lines have adequate flexibility to avoid damage? Y N U N/A
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 free of potentially adverse seismic interaction effects.

² Enter the equipment class name from Appendix B: Classes of Equipment.

Sheet 3 of 5

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-087

Equipment ID No. C90 Equip. Class³ 20 - Instrumentation and Control Panels


Equipment Description ESAS CABINET ANALOG SUBSYSTEM No. 3

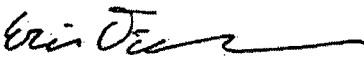
Other Adverse Conditions

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

It was looked for, and no other seismic conditions that could adversely affect the safety functions of the equipment were found. It was observed that neighboring cabinets were appropriately bolted together to avoid interaction effects.

Comments (Additional pages may be added as necessary)

Evaluated by: Roy Berryman  Date: 10/4/2012

Eric Dilbone  10/4/2012

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

Sheet 4 of 5

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-087

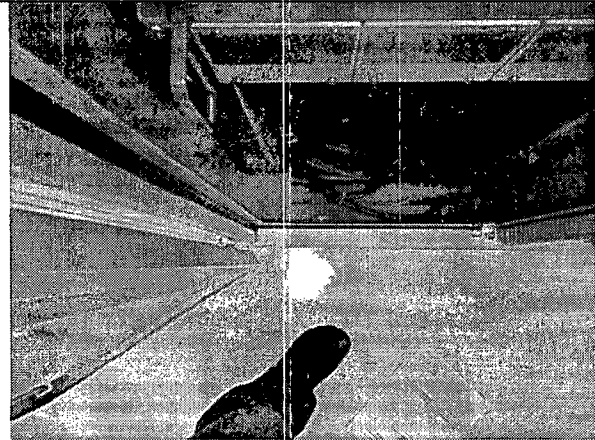
Equipment ID No. C90 Equip. Class⁴ 20 - Instrumentation and Control Panels

Equipment Description ESAS CABINET ANALOG SUBSYSTEM No. 3

Photographs



Note: Equipment ID tag identifying the cabinet.



Note: View inside the bottom of the cabinet with the front door open.

⁴ Enter the equipment class name from Appendix B: Classes of Equipment.

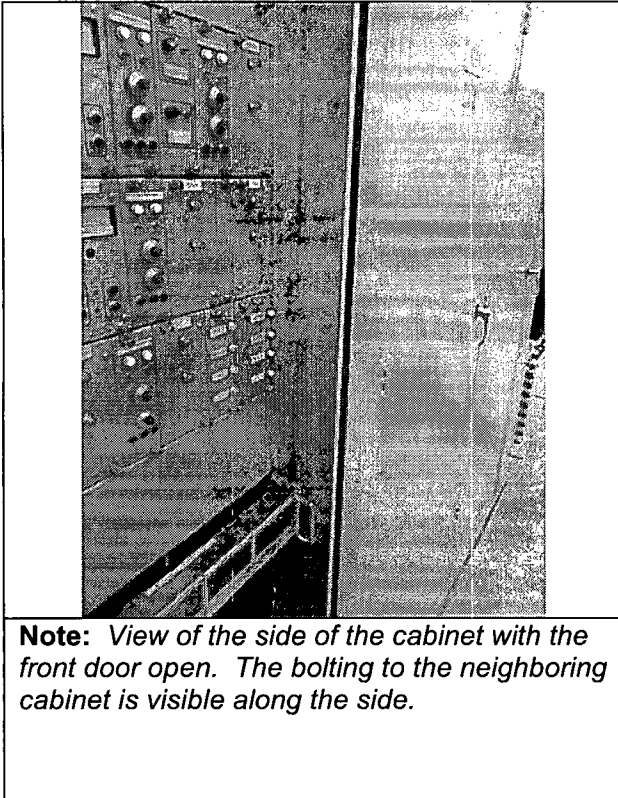
Sheet 5 of 5

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-087

Equipment ID No. C90 Equip. Class⁵ 20 - Instrumentation and Control Panels

Equipment Description ESAS CABINET ANALOG SUBSYSTEM No. 3



Note: *View of the side of the cabinet with the front door open. The bolting to the neighboring cabinet is visible along the side.*

Note:

⁵ Enter the equipment class name from Appendix B: Classes of Equipment.

Sheet 1 of 4

Status: Y N U **Seismic Walkdown Checklist (SWC) SWEL1-088**Equipment ID No. PWR-2406 Equip. Class¹ 20 - Instrumentation and Control PanelsEquipment Description REACTOR BLDG SPRAY ENG SAFEG'D POWER SUPPLYLocation: Bldg. RAB Floor El. 386 Room, Area 129

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

Instructions for Completing Checklist

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

Anchorage

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y N
This item is not part of the 50%.
2. Is the anchorage free of bent, broken, missing or loose hardware? Y N U N/A
Item is mounted in a cabinet. No adverse hardware conditions were observed.
3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y N U N/A
Item is mounted in a cabinet. No oxidation was observed
4. Is the anchorage free of visible cracks in the concrete near the anchors? Y N U N/A
Item is mounted in a cabinet. No cracks in concrete were observed

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

Sheet 2 of 4

Status: Y N U **Seismic Walkdown Checklist (SWC) SWEL1-088**Equipment ID No. PWR-2406 Equip. Class² 20 - Instrumentation and Control PanelsEquipment Description REACTOR BLDG SPRAY ENG SAFEG'D POWER SUPPLY

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.)
This item is not part of the 50%.
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y N U
Based on the above anchorage evaluations, the anchorage is free of potentially adverse seismic conditions.

Interaction Effects

7. Are soft targets free from impact by nearby equipment or structures? Y N U N/A
There are no soft targets that could be impacted 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
Masonry block walls in the room are seismically qualified, and painted with a qualification number. Ceiling tiles and lights are all in good condition, and are adequately supported.
9. Do attached lines have adequate flexibility to avoid damage? Y N U N/A
There are no visible attached lines, since the power supply is rack-mounted in a cabinet that can only be opened from the front without disassembling the cabinet.
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y N U
Based on the above evaluation, the power supply is free of potentially adverse seismic interaction effects.

² Enter the equipment class name from Appendix B: Classes of Equipment.

Sheet 3 of 4

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-088

Equipment ID No. PWR-2406 Equip. Class³ 20 - Instrumentation and Control Panels


Equipment Description REACTOR BLDG SPRAY ENG SAFEG'D POWER SUPPLY


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

It was looked for, and no other seismic conditions that could adversely affect the safety functions were found.

Comments (Additional pages may be added as necessary)

Evaluated by: Roy Berryman  Date: 10/4/2012

Eric Dilbone  10/4/2012

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

Sheet 4 of 4

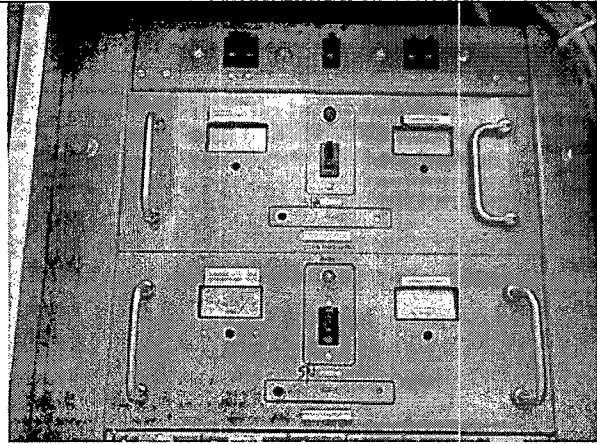
Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-088

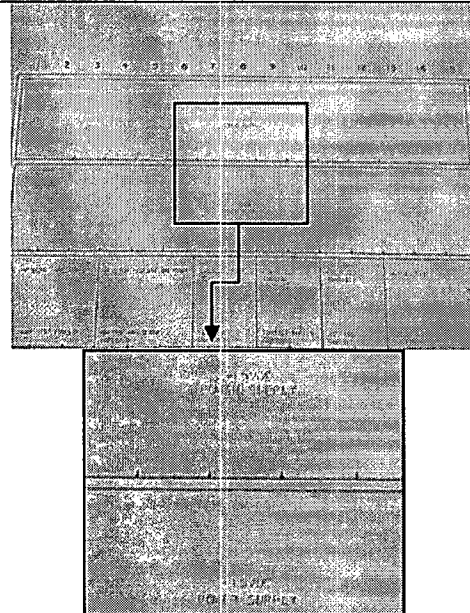
Equipment ID No. PWR-2406 Equip. Class⁴ 20 - Instrumentation and Control Panels

Equipment Description REACTOR BLDG SPRAY ENG SAFEG'D POWER SUPPLY

Photographs



Note: PWR-2406 as seen from the front with the cabinet door open.



Note: View inside the cabinet door. The power supply is identified as the top two rack positions, as seen in the previous image (upper). Also, a zoomed in version of the section in the rectangle is shown (lower).

⁴ Enter the equipment class name from Appendix B: Classes of Equipment.

Sheet 1 of 5

Status: Y N U **Seismic Walkdown Checklist (SWC) SWEL1-089**Equipment ID No. C14 Equip. Class¹ 20 - Instrumentation and Control PanelsEquipment Description VERTICAL BOARD, PRIMARY COOLANTLocation: Bldg. RAB Floor El. 386 Room, Area 129

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

Instructions for Completing Checklist

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

Anchorage

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

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

Sheet 2 of 5

Status: Y N U **Seismic Walkdown Checklist (SWC) SWEL1-089**Equipment ID No. C14 Equip. Class² 20 - Instrumentation and Control PanelsEquipment Description VERTICAL BOARD, PRIMARY COOLANT

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.)
There was sufficient plant documentation to perform an anchorage verification, but one of the anchors was not visible due to cables on the ground.
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y N U
Based on the above anchorage evaluation, the anchorage is free of potentially adverse seismic conditions.

Interaction Effects

7. Are soft targets free from impact by nearby equipment or structures? Y N U N/A
There were no soft targets to be impacted by equipment in the area.
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
Masonry block walls in the room are seismically qualified, and painted with a qualification number. Ceiling tiles and lights are all in good condition, and are adequately supported.
9. Do attached lines have adequate flexibility to avoid damage? Y N U N/A
The attached lines have adequate flexibility.
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y N U
Based on the above evaluation, the cabinet is free of potentially adverse seismic interaction effects.

² Enter the equipment class name from Appendix B: Classes of Equipment.

Sheet 3 of 5

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-089

Equipment ID No. C14 Equip. Class³ 20 - Instrumentation and Control Panels

Equipment Description VERTICAL BOARD, PRIMARY COOLANT

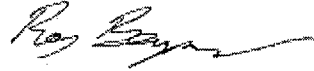
Other Adverse Conditions

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

It was looked for, and no other seismic conditions that could adversely affect the safety functions were found.

Comments (Additional pages may be added as necessary)

Evaluated by: Roy Berryman



Date: 10/4/2012

Eric Dilbone



10/4/2012

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

Sheet 4 of 5

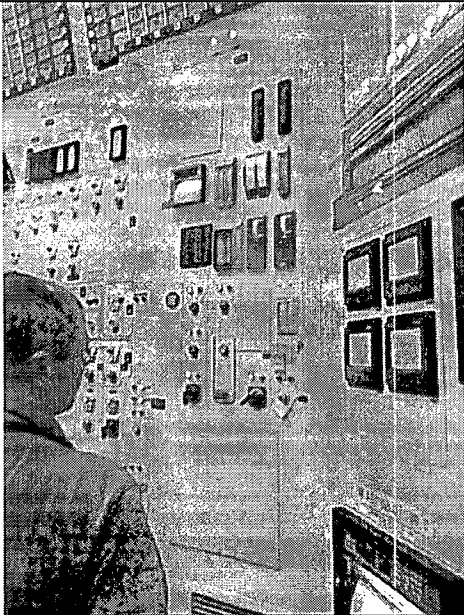
Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-089

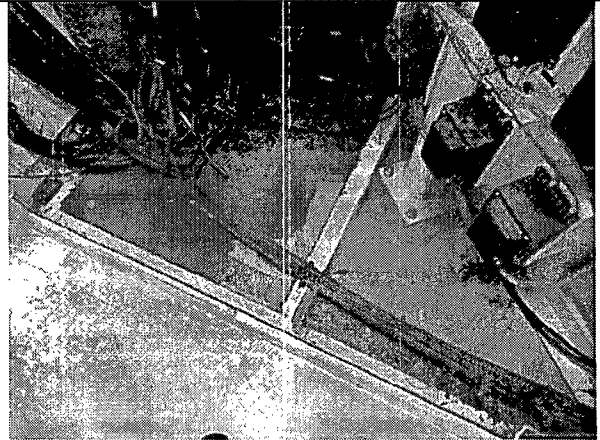
Equipment ID No. C14 Equip. Class⁴ 20 - Instrumentation and Control Panels

Equipment Description VERTICAL BOARD, PRIMARY COOLANT

Photographs



Note: Cabinet C14 from the front.



Note: Bottom of cabinet C14 as viewed from the back. The cables in the far left corner obscured the view of the last anchor bolt.

⁴ Enter the equipment class name from Appendix B: Classes of Equipment.

Sheet 5 of 5

Status: Y N U

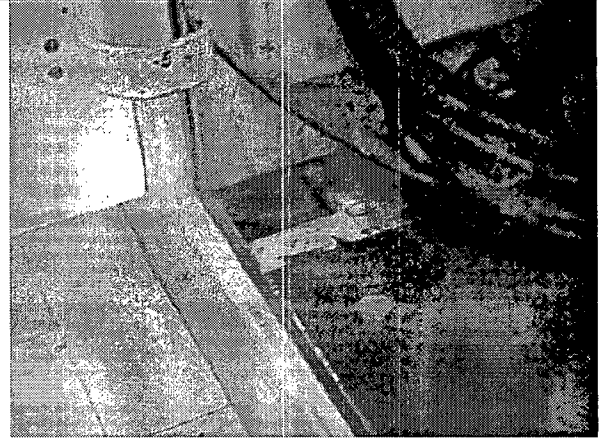
Seismic Walkdown Checklist (SWC) SWEL1-089

Equipment ID No. C14 Equip. Class⁵ 20 - Instrumentation and Control Panels

Equipment Description VERTICAL BOARD, PRIMARY COOLANT



Note: View of a weld to the embedded steel channel, and an anchor bolt for the embedded steel channel.



Note: View of anchor bolt for the embedded steel channel.

⁵ Enter the equipment class name from Appendix B: Classes of Equipment.

Sheet 1 of 5

Status: Y N U **Seismic Walkdown Checklist (SWC) SWEL1-090**Equipment ID No. C42 Equip. Class¹ 20 - Instrumentation and Control PanelsEquipment Description NI & RPS SYSTEM BLocation: Bldg. RAB Floor El. 386 Room, Area 129

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
Anchorage configuration verification is not possible because only two of the four documented anchors are visible due to fireboard covering.
2. Is the anchorage free of bent, broken, missing or loose hardware? Y N U N/A
All hardware visible was present, tight and in good condition.
3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y N U N/A
Mild surface oxidation was observed on some of the anchorage in the bottom of the cabinet. There is no adverse conditions as a result
4. Is the anchorage free of visible cracks in the concrete near the anchors? Y N U N/A
No cracks in concrete were observed.

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

Sheet 2 of 5

Status: Y N U**Seismic Walkdown Checklist (SWC) SWEL1-090**Equipment ID No. C42 Equip. Class² 20 - Instrumentation and Control PanelsEquipment Description NI & RPS SYSTEM B

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.)
This cabinet was not part of the 50%, so this is not applicable.
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y N U
Based on the above anchorage evaluations, the anchorage is free of potentially adverse seismic conditions.

Interaction Effects

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

² Enter the equipment class name from Appendix B: Classes of Equipment.

Sheet 3 of 5

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-090

Equipment ID No. C42 Equip. Class³ 20 - Instrumentation and Control Panels

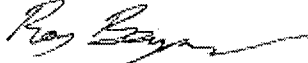
Equipment Description NI & RPS SYSTEM B

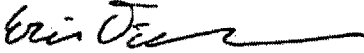
Other Adverse Conditions

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

It was looked for, and no other seismic conditions that could adversely affect the safety functions of the equipment were found.

Comments (Additional pages may be added as necessary)

Evaluated by: Roy Berryman  Date: 10/4/2012

Eric Dilbone  10/4/2012

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

Sheet 4 of 5

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-090

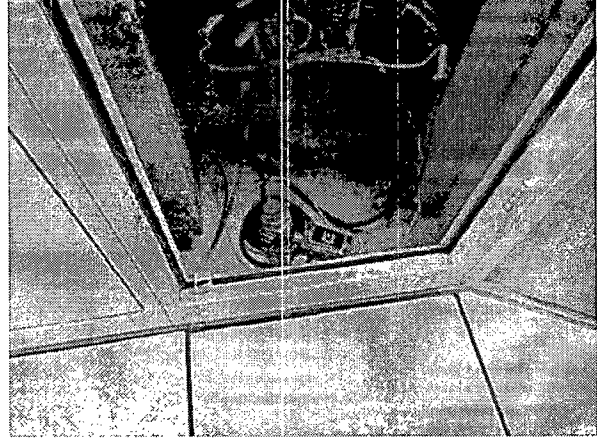
Equipment ID No. C42 Equip. Class⁴ 20 - Instrumentation and Control Panels

Equipment Description NI & RPS SYSTEM B

Photographs



Note: Equipment ID tag identifying the cabinet.



Note: View into the bottom of the cabinet with the door open on the front.

⁴ Enter the equipment class name from Appendix B: Classes of Equipment.

Sheet 5 of 5

Status: Y N U

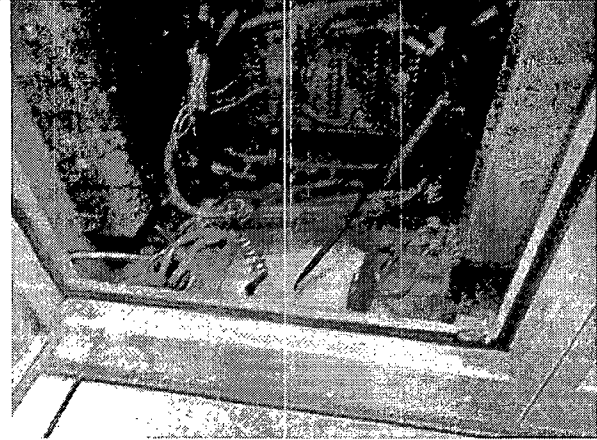
Seismic Walkdown Checklist (SWC) SWEL1-090

Equipment ID No. C42 Equip. Class⁵ 20 - Instrumentation and Control Panels

Equipment Description NI & RPS SYSTEM B



Note: Closer front view of the bottom and side of the cabinet with the door open.



Note: View of the bottom of the rear of the cabinet with the door open.

⁵ Enter the equipment class name from Appendix B: Classes of Equipment.

Sheet 1 of 5

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-091

Equipment ID No. C44 Equip. Class¹ 20 - Instrumentation and Control Panels

Equipment Description NI & RPS SYSTEM D

Location: Bldg. RAB Floor El. 386 Room, Area 129

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
Anchorage configuration verification is not possible because only two of the four documented anchors are visible due to fireboard covering.

2. Is the anchorage free of bent, broken, missing or loose hardware? Y N U N/A
All hardware visible was present, tight and in good condition.

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y N U N/A
Mild surface oxidation was observed on some of the anchorage in the bottom of the cabinet.

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

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

Sheet 2 of 5

Status: Y N U **Seismic Walkdown Checklist (SWC) SWEL1-091**Equipment ID No. C44 Equip. Class² 20 - Instrumentation and Control PanelsEquipment Description NI & RPS SYSTEM D

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.)
This cabinet was not part of the 50%, so this is not applicable. Y N U N/A
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?
Based on the above anchorage evaluations, the anchorage is free of potentially adverse seismic conditions. Y N U

Interaction Effects

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

² Enter the equipment class name from Appendix B: Classes of Equipment.

Sheet 3 of 5

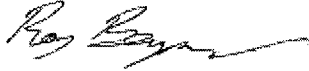
Status: Y N U **Seismic Walkdown Checklist (SWC) SWEL1-091**Equipment ID No. C44 Equip. Class³ 20 - Instrumentation and Control PanelsEquipment Description NI & RPS SYSTEM D**Other Adverse Conditions**

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

It was looked for, and no other seismic conditions that could adversely affect the safety functions of the equipment were found.

Comments (Additional pages may be added as necessary)

It was noted that a bolt on top of the cabinet was not screwed in all the way. This bolt is not part of the cabinet anchorage, and was tightened at the time of inspection by Operations personnel. See image below.

Evaluated by: Roy Berryman

Date: 10/4/2012Eric Dilbone

10/4/2012

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

Sheet 4 of 5

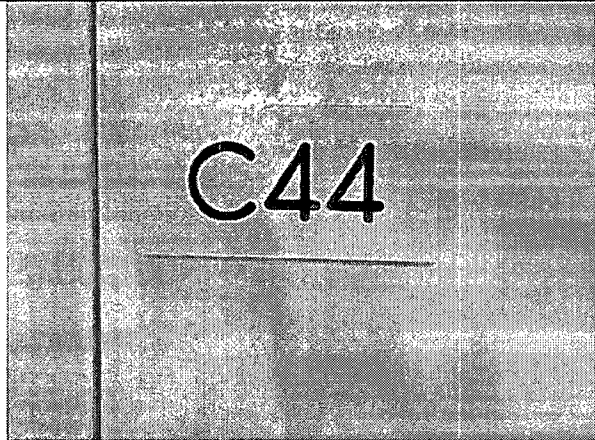
Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-091

Equipment ID No. C44 Equip. Class⁴ 20 - Instrumentation and Control Panels

Equipment Description NI & RPS SYSTEM D

Photographs



Note: *Equipment ID tag identifying cabinet.*



Note: *View inside the bottom of the cabinet with the front door open. Anchorage is not visible.*

⁴ Enter the equipment class name from Appendix B: Classes of Equipment.

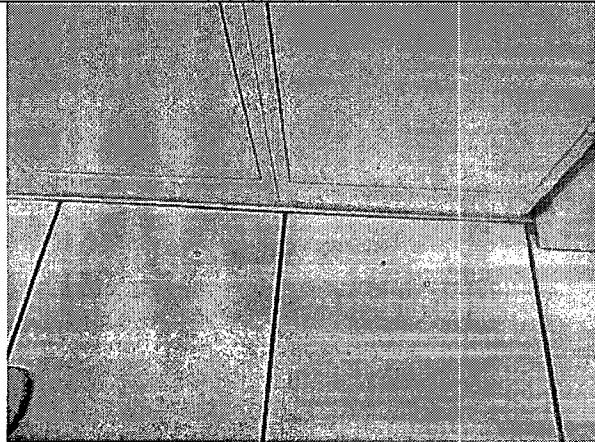
Sheet 5 of 5

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-091

Equipment ID No. C44 Equip. Class⁵ 20 - Instrumentation and Control Panels

Equipment Description NI & RPS SYSTEM D



Note: View of the front of the cabinet with the doors closed. The anchorage is not visible, since it is contained within the cabinet.



Loose bolt

Note: A loose bolt is shown on top of cabinet C44. The bolt was tightened at the time of inspection by Operations personnel.

⁵ Enter the equipment class name from Appendix B: Classes of Equipment.

Sheet 1 of 5

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-092

Equipment ID No. C26 Equip. Class¹ 20 - Instrumentation and Control Panels

Equipment Description VERT BD - SUP ENGR SFGO

Location: Bldg. RAB Floor El. 386 Room, Area 129

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
Not part of the 50%.

2. Is the anchorage free of bent, broken, missing or loose hardware? Y N U N/A
The welds on the underside of the front of the cabinet are all in good condition, and are consistent with plant documentation. The back cabinet doors were opened, but the rear welds were not visible without crossing the plane of the cabinet.

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y N U N/A
There were no signs of any oxidation on the visible anchorage.

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y N U N/A
There were no visible cracks in the concrete near the vicinity of the cabinet.

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

Sheet 2 of 5

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-092

Equipment ID No. C26 Equip. Class² 20 - Instrumentation and Control Panels

Equipment Description VERT BD – SUP ENGR SFGO

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.)
All visible anchorage is consistent with plant documentation. However, not all anchorage could be verified without extensive cabinet disassembly. Y N U N/A
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?
Based on the above anchorage evaluations, all visible anchorage is free of potentially adverse seismic conditions. Y N U

Interaction Effects

7. Are soft targets free from impact by nearby equipment or structures?
There are no soft targets that could potentially be impacted by nearby equipment or structures. Y N U N/A
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?
Masonry block walls in the room are seismically qualified, and painted with a qualification number. Ceiling tiles and lights are all in good condition, and are adequately supported. Y N U N/A
9. Do attached lines have adequate flexibility to avoid damage?
The attached lines have adequate flexibility. Y N U N/A
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?
Based on the above evaluation, the cabinet is free of potentially adverse seismic interaction effects. Y N U

² Enter the equipment class name from Appendix B: Classes of Equipment.

Sheet 3 of 5

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-092

Equipment ID No. C26 Equip. Class³ 20 - Instrumentation and Control Panels

Equipment Description VERT BD - SUP ENGR SFGO

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

It was looked for, and no other seismic conditions that could adversely affect the safety functions were found.

Comments (Additional pages may be added as necessary)

Additionally, it was noted that there were four emergency respiratory protective equipment cases that were stacked upon one another and were not secured. The cases were deemed far enough from the cabinet not to present an interaction effect.

Evaluated by: Roy Berryman



Date: 10/4/2012

Eric Dilbone



10/4/2012

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

Sheet 4 of 5

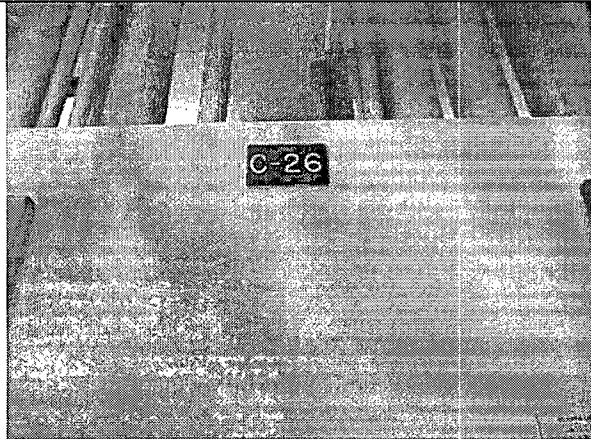
Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-092

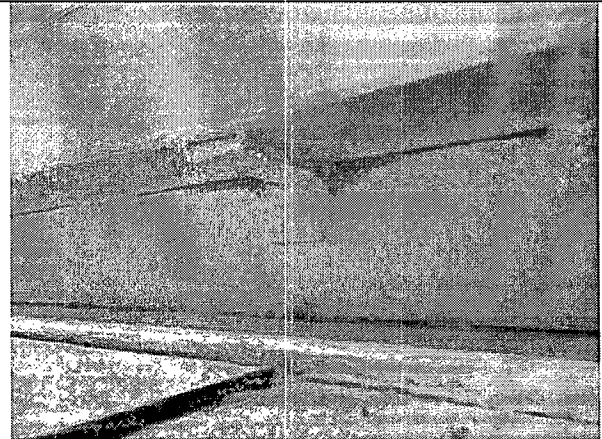
Equipment ID No. C26 Equip. Class⁴ 20 - Instrumentation and Control Panels

Equipment Description VERT BD - SUP ENGR SFGO

Photographs



Note: View of front of C-26.



Note: View of welds on the front, bottom edge of cabinet C-26.

⁴ Enter the equipment class name from Appendix B: Classes of Equipment.

Sheet 5 of 5

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-092

Equipment ID No. C26 Equip. Class⁵ 20 - Instrumentation and Control Panels

Equipment Description VERT BD - SUP ENGR SFGO



Note: *Shown above are the louvers on the rear doors of cabinet C-26. No anchorage is visible from the rear of the cabinet.*

Note:

⁵ Enter the equipment class name from Appendix B: Classes of Equipment.

Sheet 1 of 5

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1- 093

Equipment ID No. PY-1042A Equip. Class¹ 20 - Instrumentation and Control Panels

Equipment Description RCS PRESSURE

Location: Bldg. RAB Floor El. 368 Room, Area 104

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

Instructions for Completing Checklist

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

Anchorage

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y N
This item is not part of the 50%.

2. Is the anchorage free of bent, broken, missing or loose hardware? Y N U N/A
This component is located in a nest in cabinet C539A. No bent, broken, missing or loose hardware was observed.

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

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

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

Sheet 2 of 5

Status: Y N U**Seismic Walkdown Checklist (SWC) SWEL1-093**Equipment ID No. PY-1042A Equip. Class² 20 - Instrumentation and Control PanelsEquipment Description RCS PRESSURE

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.)
This item is not part of the 50%.
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y N U
Based on the above anchorage evaluations, the anchorage is free of potentially adverse seismic conditions.

Interaction Effects

7. Are soft targets free from impact by nearby equipment or structures? Y N U N/A
Soft targets are free from impact since they are in a cabinet that is latched closed.
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
This does not apply since the component is located inside of a cabinet.
9. Do attached lines have adequate flexibility to avoid damage? Y N U N/A
Attached lines have adequate flexibility.
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y N U
Based on the above seismic interaction evaluations, the equipment is free of potentially adverse seismic interaction effects.

² Enter the equipment class name from Appendix B: Classes of Equipment.

Sheet 3 of 5

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-093

Equipment ID No. PY-1042A Equip. Class³ 20 - Instrumentation and Control Panels

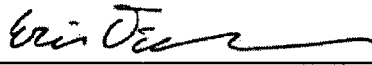
Equipment Description RCS PRESSURE

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

It was looked for, and no other seismic conditions that could adversely affect the safety functions were found.

Comments (Additional pages may be added as necessary)

Evaluated by: Eric Dilbone  Date: 10/10/2012

Daniel Parker  10/10/2012

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

Sheet 4 of 5

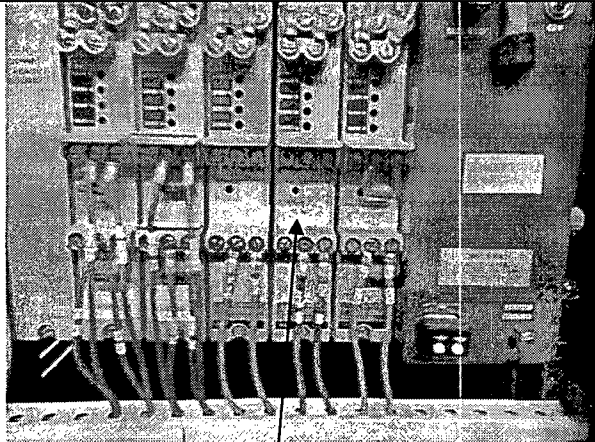
Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1- 093

Equipment ID No. PY-1042A Equip. Class⁴ 20 - Instrumentation and Control Panels

Equipment Description RCS PRESSURE

Photographs



Note: *Front view of component.*



Note: *Sign on cabinet door.*

⁴ Enter the equipment class name from Appendix B: Classes of Equipment.

Sheet 5 of 5

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-093

Equipment ID No. PY-1042A Equip. Class⁵ 20 - Instrumentation and Control Panels

Equipment Description RCS PRESSURE



Note: *Wingnut and washer are used to keep the metal plate over the door to keep it from swinging open. As the nameplate reads, this is necessary to maintain seismic qualifications for the cabinet.*

Note:

⁵ Enter the equipment class name from Appendix B: Classes of Equipment.

Sheet 1 of 5

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-094

Equipment ID No. LY-1411A Equip. Class¹ 20 – Instruments and Control Panels

Equipment Description BWST LEVEL #1

Location: Bldg. RAB Floor El. 374 Room, Area 96

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

Instructions for Completing Checklist

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

Anchorage

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y N
This item is not part of the 50%.

2. Is the anchorage free of bent, broken, missing or loose hardware? Y N U N/A
The bolts holding the component into the cabinet are free of all of the above conditions.

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y N U N/A
The bolts holding the component into the cabinet are free of corrosion.

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

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

Sheet 2 of 5

Status: Y N U **Seismic Walkdown Checklist (SWC) SWEL1-094**Equipment ID No. LY-1411A Equip. Class² 20 – Instruments and Control PanelsEquipment Description BWST LEVEL #1

5. Is the anchorage configuration consistent with plant documentation? Y N U N/A
 (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)
Item is not part of the 50%.
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y N U
Component mounted inside cabinet C543. Located in "grey" nest box 3. All mounting bolts for component and support box were identified and adequate.

Interaction Effects

7. Are soft targets free from impact by nearby equipment or structures? Y N U N/A
Soft targets are free from impact since the component is located inside of a cabinet.
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 component is located in cabinet C543. It is protected from any intrusion from adjacent equipment when the door panel is in the normal closed and locked position.
9. Do attached lines have adequate flexibility to avoid damage? Y N U N/A
Attached lines have adequate flexibility.
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y N U
Based on the above seismic interaction evaluations, the equipment is free of potentially adverse seismic interaction effects.

² Enter the equipment class name from Appendix B: Classes of Equipment.

Sheet 3 of 5

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-094

Equipment ID No. LY-1411A Equip. Class³ 20 – Instruments and Control Panels

Equipment Description BWST LEVEL #1

Other Adverse Conditions

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

It was looked for, and no other seismic conditions that could adversely affect the safety functions of the equipment were found.

Comments (Additional pages may be added as necessary)

Evaluated by: Daniel Parker  Date: 10/10/2012

Eric Dilbone  10/10/2012

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

Sheet 4 of 5

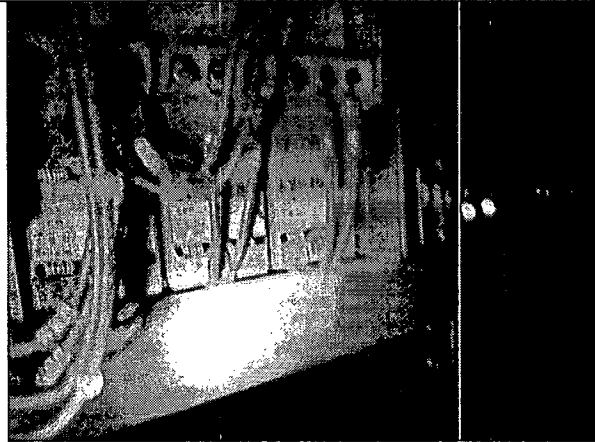
Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-094

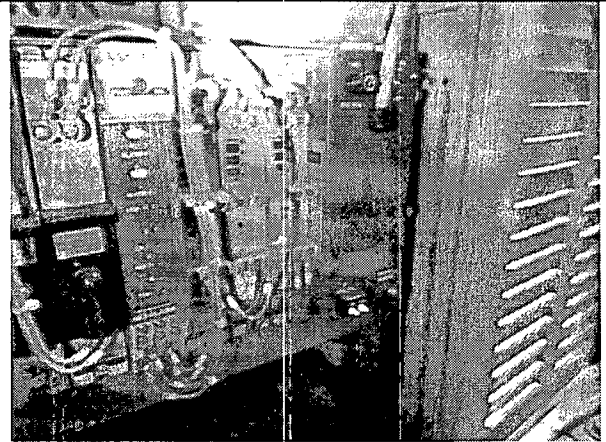
Equipment ID No. LY-1411A Equip. Class⁴ 20 – Instruments and Control Panels

Equipment Description BWST LEVEL #1

Photographs



Note: Component LY-1411A inside nested panel box.



Note: Component LY-1411A inside nested panel box.

⁴ Enter the equipment class name from Appendix B: Classes of Equipment.

Sheet 5 of 5

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-094

Equipment ID No. LY-1411A Equip. Class⁵ 20 – Instruments and Control Panels

Equipment Description BWST LEVEL #1



Note: Cabinet containing LY-1411A.

Note:

⁵ Enter the equipment class name from Appendix B: Classes of Equipment.

Sheet 1 of 5

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-095

Equipment ID No. LY-4204A Equip. Class¹ 20 - Instrumentation and Control Panels

Equipment Description CST T41B LEVEL REDIV

Location: Bldg. RAB Floor El. 368 Room, Area 104

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

Instructions for Completing Checklist

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

Anchorage

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y N
This item is not part of the 50%.

2. Is the anchorage free of bent, broken, missing or loose hardware? Y N U N/A
No adverse hardware conditions were observed.

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

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

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

Sheet 2 of 5

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-095

Equipment ID No. LY-4204A Equip. Class² 20 - Instrumentation and Control Panels

Equipment Description CST T41B LEVEL RED/IV

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.)
This item is not part of the 50%. Y N U N/A
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?
Based on the above anchorage evaluations, the anchorage is free of potentially adverse seismic conditions. Y N U

Interaction Effects

7. Are soft targets free from impact by nearby equipment or structures?
Soft targets are free from impact since they are in a cabinet that is latched closed. Y N U N/A
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?
This does not apply since the component is located inside of a cabinet. Y N U N/A
9. Do attached lines have adequate flexibility to avoid damage?
Attached lines have adequate flexibility. Y N U N/A
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?
Based on the above seismic interaction evaluations, the equipment is free of potentially adverse seismic interaction effects. Y N U

² Enter the equipment class name from Appendix B: Classes of Equipment.

Sheet 3 of 5

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-095

Equipment ID No. LY-4204A Equip. Class³ 20 - Instrumentation and Control Panels

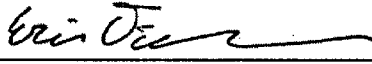
Equipment Description CST T41B LEVEL REDIV

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

It was looked for, and no other seismic conditions that could adversely affect the safety functions were found.

Comments (Additional pages may be added as necessary)

Evaluated by: Eric Dilbone  Date: 10/10/2012

Daniel Parker  10/10/2012

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

Sheet 4 of 5

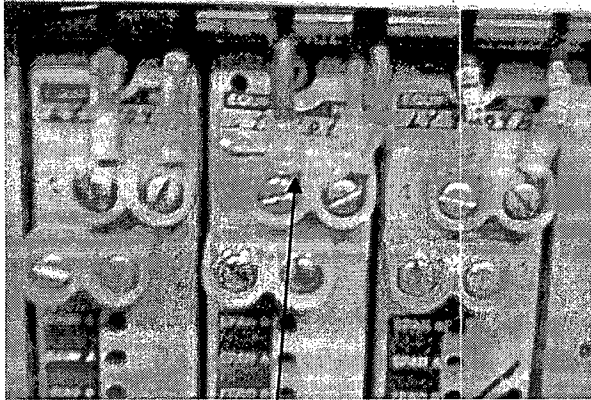
Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-095

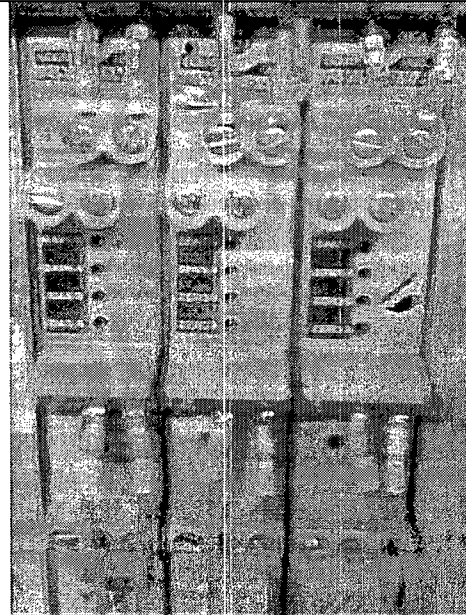
Equipment ID No. LY-4204A Equip. Class⁴ 20 - Instrumentation and Control Panels

Equipment Description CST T41B LEVEL REDIV

Photographs



Note: View of equipment ID tag identifying the component.



Note: Alternate view of the component.

⁴ Enter the equipment class name from Appendix B: Classes of Equipment.

Sheet 5 of 5

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-095

Equipment ID No. LY-4204A Equip. Class⁵ 20 - Instrumentation and Control Panels

Equipment Description CST T41B LEVEL REDIV



Note: *Wingnut and washer are used to keep the metal plate over the door to keep it from swinging open. As the nameplate reads, this is necessary to maintain seismic qualifications for the cabinet.*

Note:

⁵ Enter the equipment class name from Appendix B: Classes of Equipment.

Sheet 1 of 5

Status: Y N U **Seismic Walkdown Checklist (SWC) SWEL1- 096**Equipment ID No. PY-2667-A1 Equip. Class¹ 20 - Instrumentation and Control PanelsEquipment Description I/V CONVERTER STM GEN B PRESSLocation: Bldg. RAB Floor El. 368 Room, Area 104

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

Instructions for Completing Checklist

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

Anchorage

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y N
This item is not part of the 50%.
2. Is the anchorage free of bent, broken, missing or loose hardware? Y N U N/A
No adverse hardware conditions were observed.
3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y N U N/A
No corrosion observed.
4. Is the anchorage free of visible cracks in the concrete near the anchors? Y N U N/A
No cracks in concrete observed

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

Sheet 2 of 5

Status: Y N U**Seismic Walkdown Checklist (SWC) SWEL1-096**Equipment ID No. PY-2667-A1 Equip. Class 20 - Instrumentation and Control PanelsEquipment Description I/V CONVERTER STM GEN B PRESS

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.)
This item is not part of the 50%. Y N U N/A
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?
Based on the above anchorage evaluations, the anchorage is free of potentially adverse seismic conditions. Y N U

Interaction Effects

7. Are soft targets free from impact by nearby equipment or structures?
Soft targets are free from impact since they are in a cabinet that is latched closed. Y N U N/A
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?
This does not apply since the component is located inside of a cabinet. Y N U N/A
9. Do attached lines have adequate flexibility to avoid damage?
Attached lines have adequate flexibility. Y N U N/A
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?
Based on the above seismic interaction evaluations, the equipment is free of potentially adverse seismic interaction effects. Y N U

Sheet 3 of 5

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-096

Equipment ID No. PY-2667-A1 Equip. Class 20 - Instrumentation and Control Panels

Equipment Description I/V CONVERTER STM GEN B PRESS

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

It was looked for, and no other seismic conditions that could adversely affect the safety functions were found.

Comments (Additional pages may be added as necessary)

Evaluated by: Eric Dilbone  Date: 10/10/2012

Daniel Parker  10/10/2012

Sheet 4 of 5

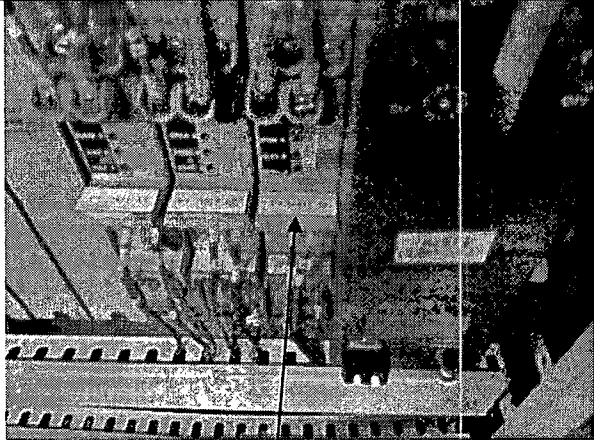
Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-096

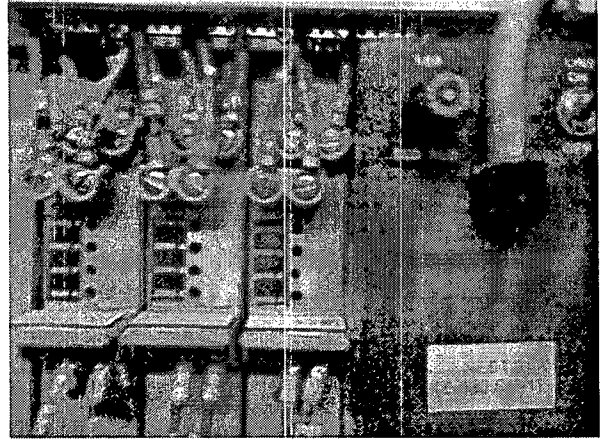
Equipment ID No. PY-2667-A1 Equip. Class 20 - Instrumentation and Control Panels

Equipment Description I/V CONVERTER STM GEN B PRESS

Photographs



Note: View of equipment ID tag identifying the component.



Note: Alternate view of the component.

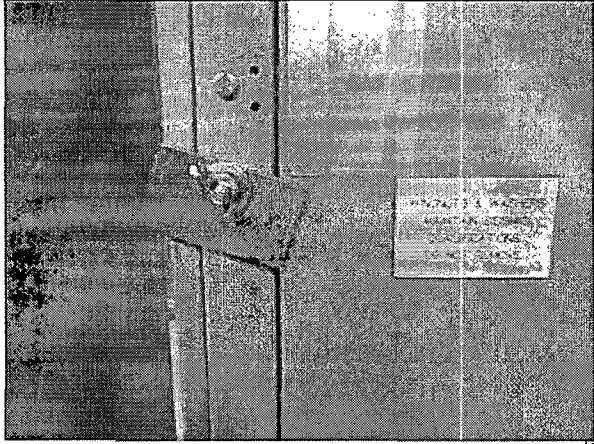
Sheet 5 of 5

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-096

Equipment ID No. PY-2667-A1 Equip. Class 20 - Instrumentation and Control Panels

Equipment Description I/V CONVERTER STM GEN B PRESS



Note: *Wingnut and washer are used to keep the metal plate over the door to keep it from swinging open. As the nameplate reads, this is necessary to maintain seismic qualifications for the cabinet.*

Note:

Sheet 1 of 4

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-097

Equipment ID No. PB-2670 Equip. Class¹ 20 - Instrumentation and Control Panels

Equipment Description EMERG EW TO SG A FROM P7B VLV CV-2670

Location: Bldg. RAB Floor El. 386 Room, Area 129

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

Instructions for Completing Checklist

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

Anchorage

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y N
This item is not part of the 50%.

2. Is the anchorage free of bent, broken, missing or loose hardware? Y N U N/A
No adverse hardware conditions were observed.

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

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

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

Sheet 2 of 4

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-097

Equipment ID No. PB-2670 Equip. Class² 20 - Instrumentation and Control Panels

Equipment Description EMERG EW TO SG A FROM P7B VLV CV-2670

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.)

This item is not part of the 50%.

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

The anchorage is not visible since it is mounted in the face of a panel. The cabinet could not be opened due to Control Room Operations. However, the button appears to be installed properly and there is no apparent reason why it would be adversely affected in a seismic event.

Interaction Effects

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

There are no soft targets that could be impacted 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

Masonry block walls in the room are seismically qualified, and painted with a qualification number. Ceiling tiles and lights are all in good condition, and are adequately supported.

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

There are no visible attached lines, since the button is mounted on the face of a panel.

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

Based on the above evaluation, the button is free of potentially adverse seismic interaction effects.

² Enter the equipment class name from Appendix B: Classes of Equipment.

Sheet 3 of 4

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-097

Equipment ID No. PB-2670 Equip. Class³ 20 - Instrumentation and Control Panels

Equipment Description EMERG EW TO SG A FROM P7B VLV CV-2670

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

It was looked for, and no other seismic conditions that could adversely affect the safety functions were found.

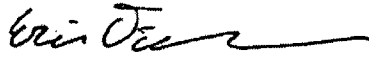
Comments (Additional pages may be added as necessary)

Evaluated by: Roy Berryman



Date: 10/4/2012

Eric Dilbone



10/4/2012

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

Sheet 4 of 4

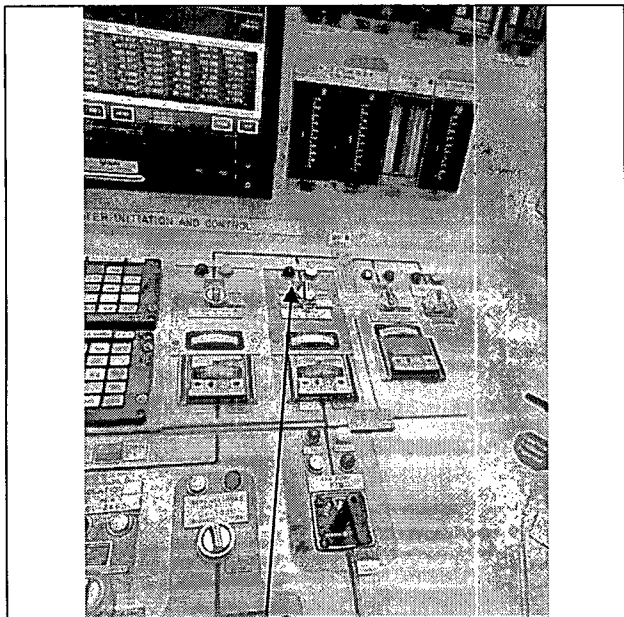
Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-097

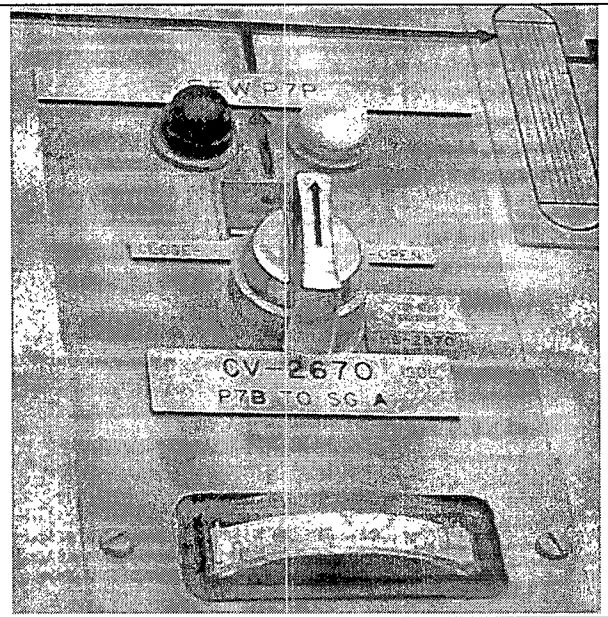
Equipment ID No. PB-2670 Equip. Class⁴ 20 - Instrumentation and Control Panels

Equipment Description EMERG EW TO SG A FROM P7B VLV CV-2670

Photographs



Note: PB-2670 is shown mounted in the face of a panel.



Note: Zoomed in version of the previous image.

⁴ Enter the equipment class name from Appendix B: Classes of Equipment.

Sheet 1 of 4

Status: Y N U **Seismic Walkdown Checklist (SWC) SWEL1-098**Equipment ID No. SS-1220 Equip. Class¹ 20 - Instrumentation and Control PanelsEquipment Description HPI ISO VV CV 1220Location: Bldg. RAB Floor El. 386 Room, Area 129

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

Instructions for Completing Checklist

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

Anchorage

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y N
This item is not part of the 50%.

2. Is the anchorage free of bent, broken, missing or loose hardware? Y N U N/A
No adverse hardware conditions were observed.

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

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

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

Sheet 2 of 4

Status: Y N U**Seismic Walkdown Checklist (SWC) SWEL1-098**Equipment ID No. SS-1220 Equip. Class² 20 - Instrumentation and Control PanelsEquipment Description HPI ISO VV CV 1220

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.)
Not part of the 50%. Y N U N/A
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?
The cabinet was opened from the back, and no adverse seismic conditions were observed. Y N U

Interaction Effects

7. Are soft targets free from impact by nearby equipment or structures?
There are no soft targets that could be impacted by nearby equipment or structures. Y N U N/A
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?
Masonry block walls in the room are seismically qualified, and painted with a qualification number. Ceiling tiles and lights are all in good condition, and are adequately supported. Y N U N/A
9. Do attached lines have adequate flexibility to avoid damage?
The attached lines have adequate flexibility. Y N U N/A
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?
Based on the above evaluation, the switch is free of potentially adverse seismic interaction effects. Y N U

² Enter the equipment class name from Appendix B: Classes of Equipment.

Sheet 3 of 4

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-098

Equipment ID No. SS-1220 Equip. Class³ 20 - Instrumentation and Control Panels


Equipment Description HPI ISO VV CV 1220

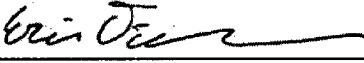
Other Adverse Conditions

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

It was looked for, and no other seismic conditions that could adversely affect the safety functions were found.

Comments (Additional pages may be added as necessary)

Evaluated by: Roy Berryman  Date: 10/4/2012

Eric Dilbone  10/4/2012

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

Sheet 4 of 4

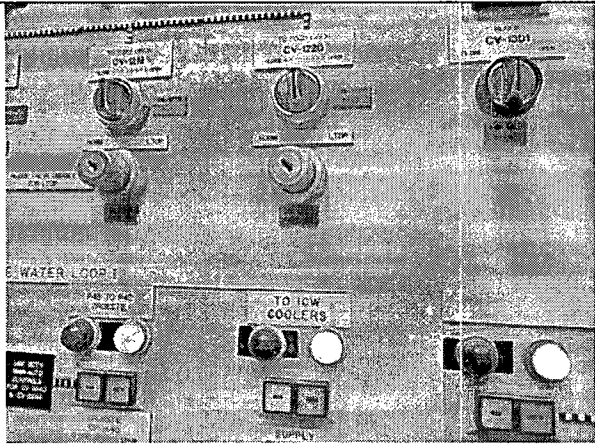
Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-098

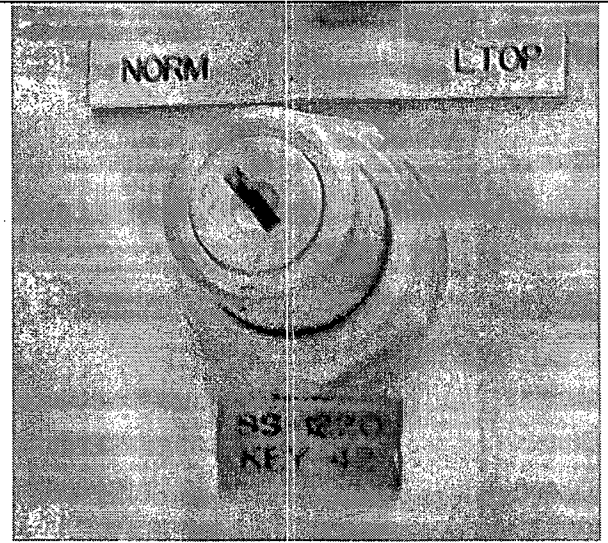
Equipment ID No. SS-1220 Equip. Class⁴ 20 - Instrumentation and Control Panels

Equipment Description HPI ISO VV CV 1220

Photographs



Note: View of the front of cabinet C18, which contains SS-1220.



Note: Zoomed version of the previous image, detailing SS-1220.

⁴ Enter the equipment class name from Appendix B: Classes of Equipment.

Sheet 1 of 4

Status: Y N U**Seismic Walkdown Checklist (SWC) SWEL1-099**Equipment ID No. TR-1139 Equip. Class¹ 20 - Instrumentation and Control PanelsEquipment Description RC LOOP B WR HOT LEG TEMPLocation: Bldg. RAB Floor El. 386 Room, Area 129

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

Instructions for Completing Checklist

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

Anchorage

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y N
This item is not part of the 50%.
2. Is the anchorage free of bent, broken, missing or loose hardware? Y N U N/A
No adverse hardware conditions were observed.
3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y N U N/A
No corrosion observed.
4. Is the anchorage free of visible cracks in the concrete near the anchors? Y N U N/A
No cracks in concrete observed

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

Sheet 2 of 4

Status: Y N U **Seismic Walkdown Checklist (SWC) SWEL1-099**Equipment ID No. TR-1139 Equip. Class² 20 - Instrumentation and Control PanelsEquipment Description RC LOOP B WR HOT LEG TEMP

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.)
Not part of the 50%. Y N U N/A
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?
No other adverse seismic conditions were observed. Y N U

Interaction Effects

7. Are soft targets free from impact by nearby equipment or structures?
There are no soft targets that could be impacted by nearby equipment or structures. Y N U N/A
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?
Masonry block walls in the room are seismically qualified, and painted with a qualification number. Ceiling tiles and lights are all in good condition, and are adequately supported. Y N U N/A
9. Do attached lines have adequate flexibility to avoid damage?
The attached lines have adequate flexibility. Y N U N/A
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?
Based on the above evaluation, the temperature recorder is free of potentially adverse seismic interaction effects. Y N U

² Enter the equipment class name from Appendix B: Classes of Equipment.

Sheet 3 of 4

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-099

Equipment ID No. TR-1139 Equip. Class³ 20 - Instrumentation and Control Panels


Equipment Description RC LOOP B WR HOT LEG TEMP

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

It was looked for, and no other seismic conditions that could adversely affect the safety functions were found.

Comments (Additional pages may be added as necessary)

Evaluated by: Roy Berryman  Date: 10/4/2012

Eric Dilbone  10/4/2012

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

Sheet 4 of 4

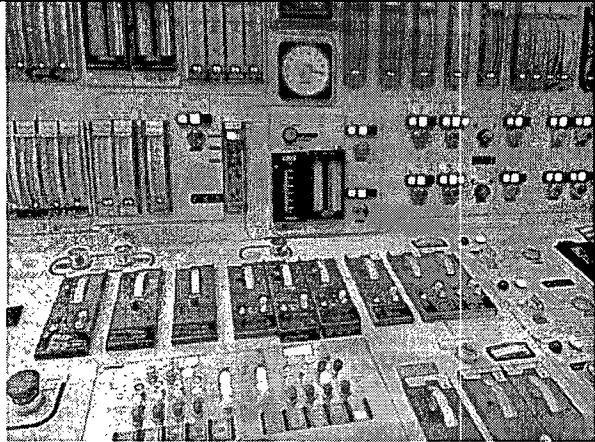
Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-099

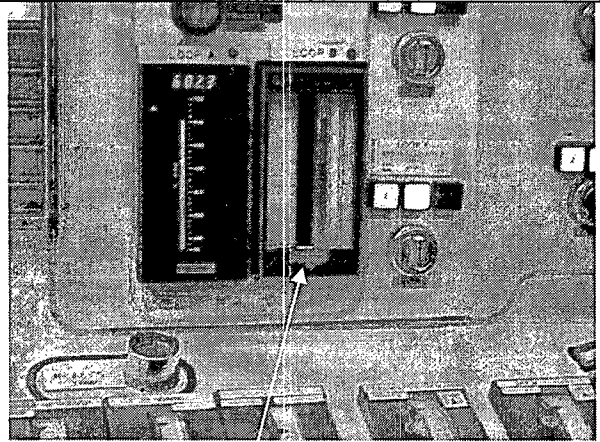
Equipment ID No. TR-1139 Equip. Class⁴ 20 - Instrumentation and Control Panels

Equipment Description RC LOOP B WR HOT LEG TEMP

Photographs



Note: View of the panel containing TR-1139.



TR-1139

Note: Zoomed view of the previous image.

⁴ Enter the equipment class name from Appendix B: Classes of Equipment.

Sheet 1 of 5

Status: Y N U **Seismic Walkdown Checklist (SWC) SWEL1-100**Equipment ID No. LIS-1421 Equip. Class¹ 20 - Instrumentation and Control PanelsEquipment Description BWST LEVEL No. 2Location: Bldg. RAB Floor El. 386 Room, Area 129

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

Instructions for Completing Checklist

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

Anchorage

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y N
This item is not part of the 50%.

2. Is the anchorage free of bent, broken, missing or loose hardware? Y N U N/A
The level indicator is mounted in cabinet C18, and the hardware is visible from inside the rear of the cabinet. The anchorage is free of bent, broken and loose hardware.

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

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y N U N/A
The level indicator is mounted in the front face of the cabinet. No cracks in concrete around cabinet anchorage.

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

Sheet 2 of 5

Status: Y N U**Seismic Walkdown Checklist (SWC) SWEL1-100**Equipment ID No. LIS-1421 Equip. Class² 20 - Instrumentation and Control PanelsEquipment Description BWST LEVEL No. 2

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

Interaction Effects

7. Are soft targets free from impact by nearby equipment or structures?
There are no soft targets that could be impacted by nearby equipment or structures. Y N U N/A
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?
Masonry block walls in the room are seismically qualified, and painted with a qualification number. Ceiling tiles and lights are all in good condition, and are adequately supported. Y N U N/A
9. Do attached lines have adequate flexibility to avoid damage?
The attached lines have adequate flexibility. Y N U N/A
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?
Based on the above evaluation, the level indicator in the cabinet is free of potentially adverse seismic interaction effects. Y N U

² Enter the equipment class name from Appendix B: Classes of Equipment.

Sheet 3 of 5

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-100

Equipment ID No. LIS-1421 Equip. Class³ 20 - Instrumentation and Control Panels


Equipment Description BWST LEVEL No. 2

Other Adverse Conditions

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

It was looked for, and no other seismic conditions that could adversely affect the safety functions were found.

Comments (Additional pages may be added as necessary)

Evaluated by: Roy Berryman  Date: 10/4/2012

Eric Dilbone  10/4/2012

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

Sheet 4 of 5

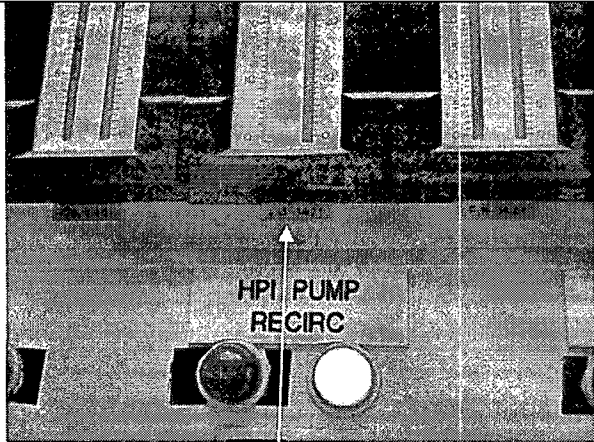
Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-100

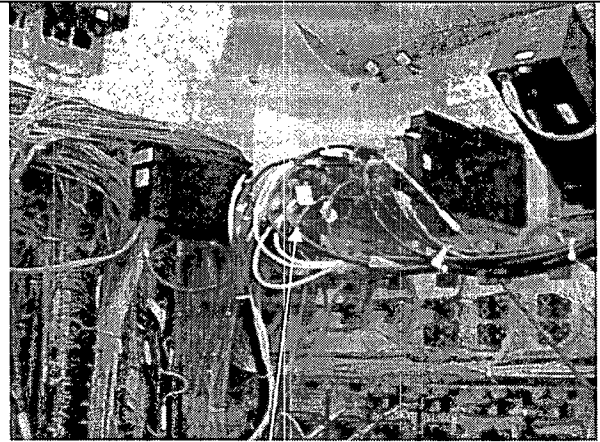
Equipment ID No. LIS-1421 Equip. Class⁴ 20 - Instrumentation and Control Panels

Equipment Description BWST LEVEL No. 2

Photographs



Note: LIS-1421 equipment ID tag.



LIS-1421 from rear

Note: View inside the back of cabinet C18, containing LIS-1421.

⁴ Enter the equipment class name from Appendix B: Classes of Equipment.

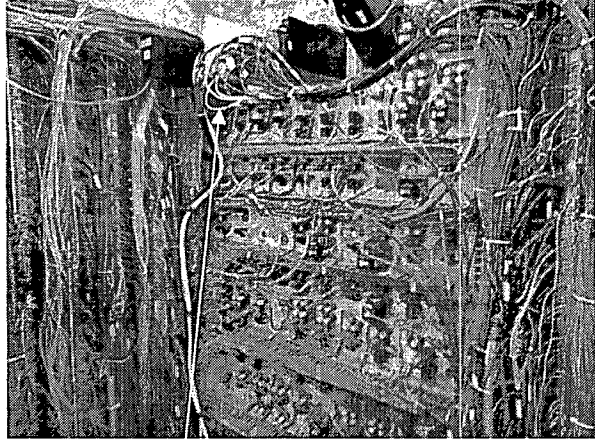
Sheet 5 of 5

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-100

Equipment ID No. LIS-1421 Equip. Class⁵ 20 - Instrumentation and Control Panels

Equipment Description BWST LEVEL No. 2



LIS-1421 from rear

Note: *General view of the back of cabinet C18.*

Note:

⁵ Enter the equipment class name from Appendix B: Classes of Equipment.

Sheet 1 of 5

Status: Y N U **Seismic Walkdown Checklist (SWC) SWEL1- 101**Equipment ID No. T-78A Equip. Class¹ 21 - Tanks and Heat ExchangersEquipment Description EMERG. DIESEL GEN (K4A) COOLING WATER EXP TANKLocation: Bldg. RAB Floor El. 369 Room, Area 87

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

Instructions for Completing Checklist

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

Anchorage

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

2. Is the anchorage free of bent, broken, missing or loose hardware? Y N U N/A
The bolts anchoring the tank to the EDG skid are free of bent, broken, missing and loose hardware. Additionally, the welds were all in good condition.

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y N U N/A
The anchorage is free of corrosion and is painted blue without any chipped paint.

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y N U N/A
The tank is anchored to a steel frame on the EDG skid. No cracks around EDG skid anchorage

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

Sheet 2 of 5

Status: Y N U**Seismic Walkdown Checklist (SWC) SWEL1- 101**Equipment ID No. T-78A Equip. Class 21 - Tanks and Heat ExchangersEquipment Description EMERG. DIESEL GEN (K4A) COOLING WATER EXP 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 is consistent with calculation 6600-M12AC-117-1.
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y N U
All visible anchorage was free of potentially adverse seismic conditions.

Interaction Effects

7. Are soft targets free from impact by nearby equipment or structures? Y N U N/A
There are no soft targets that could be impacted 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
There are no masonry block walls or ceiling tiles in the room. The lights are in good condition, and do not present an interaction effect.
9. Do attached lines have adequate flexibility to avoid damage? Y N U N/A
The attached lines have adequate flexibility.
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y N U
Based on the above evaluation, the level switch is free of potentially adverse seismic interaction effects.

Sheet 3 of 5

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1- 101

Equipment ID No. T-78A Equip. Class 21 - Tanks and Heat Exchangers

Equipment Description EMERG. DIESEL GEN (K4A) COOLING WATER EXP TANK

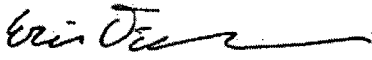
Other Adverse Conditions

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

It was looked for, and no other seismic conditions that could adversely affect the safety functions were found.

Comments (Additional pages may be added as necessary)

Evaluated by: Daniel Parker  Date: 10/11/2012

Eric Dilbone  10/11/2012

Sheet 4 of 5

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1- 101

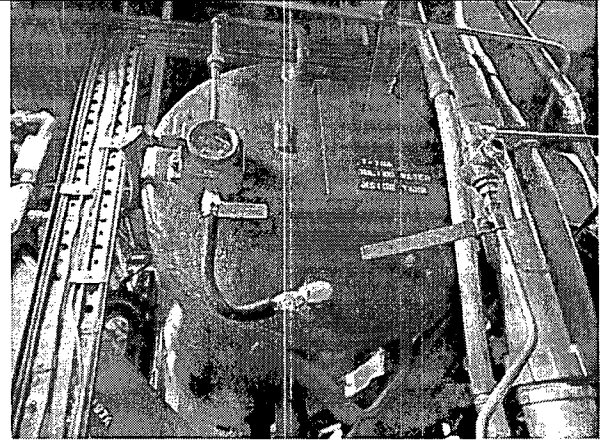
Equipment ID No. T-78A Equip. Class 21 - Tanks and Heat Exchangers

Equipment Description EMERG. DIESEL GEN (K4A) COOLING WATER EXP TANK

Photographs



Note: Close-up view of T-78A welded to bracket used to bolt to steel frame on skid. View from North side of skid.



Note: Tank T-78A welded to bracket that is bolted to steel frame on K4A skid. View from North side of skid.

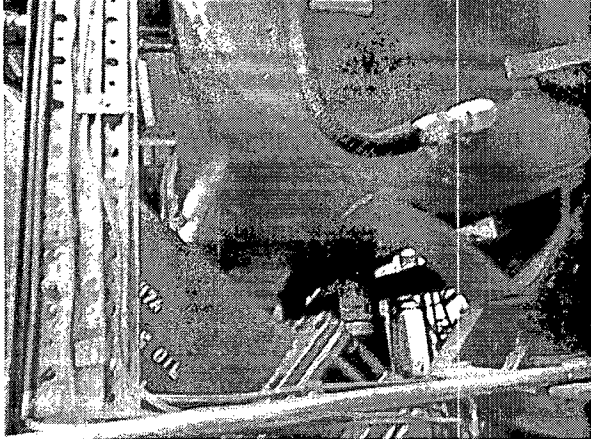
Sheet 5 of 5

Status: Y N U

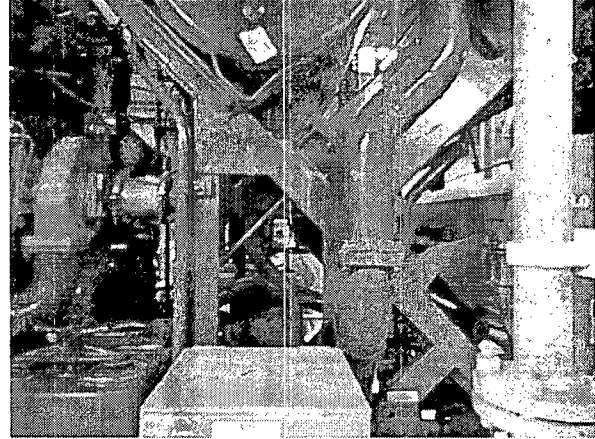
Seismic Walkdown Checklist (SWC) SWEL1- 101

Equipment ID No. T-78A Equip. Class 21 - Tanks and Heat Exchangers

Equipment Description EMERG. DIESEL GEN (K4A) COOLING WATER EXP TANK



Note: View from North side of skid showing attached lines.



Note: View from South side of skid showing the steel frame used to mount bracket welded to T-78A (top of picture).

Sheet 1 of 4

Status: Y N U **Seismic Walkdown Checklist (SWC) SWEL1-102**Equipment ID No. T-78B Equip. Class¹ 21 – Tanks and Heat ExchangersEquipment Description EMERG. DIESEL GEN (K4B) COOLING WATER EXP. TANKLocation: Bldg. RAB Floor El. 369 Room, Area 86Manufacturer, Model, Etc. (optional but recommended) Electro-Motive**Instructions for Completing Checklist**

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

Anchorage

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

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

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

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y N U N/A
Component mounted to EDG skid. No cracks around skid anchorage.

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

Sheet 2 of 4

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-102

Equipment ID No. T-78B Equip. Class² 21 – Tanks and Heat Exchangers

Equipment Description EMERG. DIESEL GEN (K4B) COOLING WATER EXP. TANK

5. Is the anchorage configuration consistent with plant documentation?
(Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)
Anchorage is consistent with calculation 6600-M12AC-117-1. Y N U N/A
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?
Based on the above anchorage evaluations, the anchorage is free of potentially adverse seismic conditions. Y N U

Interaction Effects

7. Are soft targets free from impact by nearby equipment or structures?
The water expansion tank was mounted to the accessory end of the diesel generator. A large air-duct mounted overhead adequately supported with steel hangers. There is no other equipment overhead or nearby that could have a credible significant interaction with the tank during a seismic event. Y N U N/A
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?
There is overhead duct work that is properly secured with steel hangers. Y N U N/A
9. Do attached lines have adequate flexibility to avoid damage?
Attached lines have adequate flexibility. Y N U N/A
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?
Based on the above seismic interaction evaluations, the equipment is free of potentially adverse seismic interaction effects. Y N U

² Enter the equipment class name from Appendix B: Classes of Equipment.

Sheet 3 of 4

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-102

Equipment ID No. T-78B Equip. Class³ 21 – Tanks and Heat Exchangers

Equipment Description EMERG. DIESEL GEN (K4B) COOLING WATER EXP. TANK

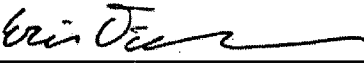
Other Adverse Conditions

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

It was looked for, and no other seismic conditions that could adversely affect the safety functions of the equipment were found.

Comments (Additional pages may be added as necessary)

The cooling water expansion tank was mounted horizontally at the accessory end of the diesel generator. The tank was welded directly to support brackets on either side of the tanks. The support brackets were bolted directly to the structural frame of the diesel engine.

Evaluated by: Eric Dilbone  Date: 10/2/2012

Daniel Parker  10/2/2012

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

Sheet 4 of 4

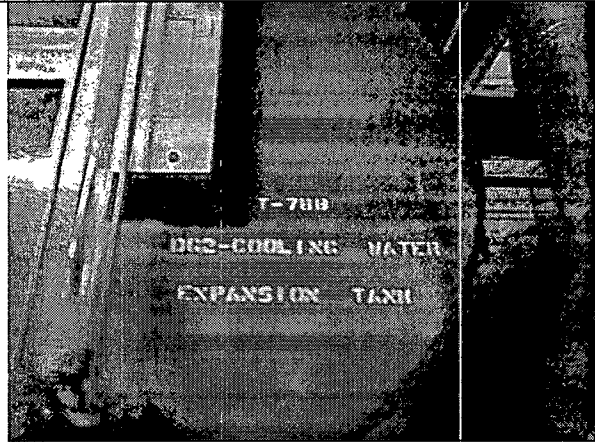
Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-102

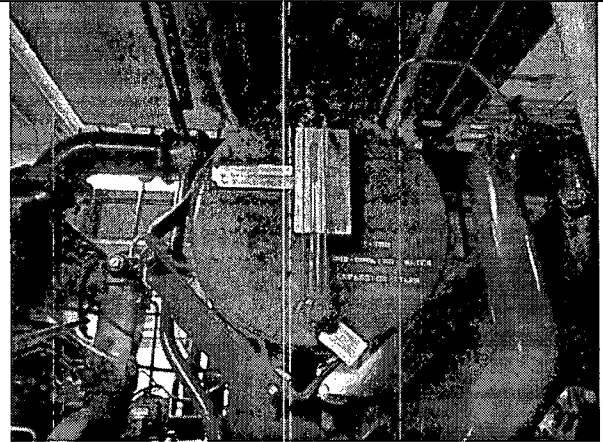
Equipment ID No. T-78B Equip. Class⁴ 21 – Tanks and Heat Exchangers

Equipment Description EMERG. DIESEL GEN (K4B) COOLING WATER EXP. TANK

Photographs



Note: Component ID



Note: Component Overview

⁴ Enter the equipment class name from Appendix B: Classes of Equipment.

Sheet 1 of 5

Status: Y N U **Seismic Walkdown Checklist (SWC) SWEL1-103**Equipment ID No. E-197A Equip. Class¹ 21 - Tanks and ExchangersEquipment Description A EDG LUBE OIL HEAT EXCHANGERLocation: Bldg. RAB Floor El. 369 Room, Area 87

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

Instructions for Completing Checklist

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

Anchorage

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y N
Item is not part of the 50%.
2. Is the anchorage free of bent, broken, missing or loose hardware? Y N U N/A
The bolts anchoring the heat exchanger to the EDG skid are free of bent, broken, missing and loose hardware.
3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y N U N/A
Some of the blue paint is cracked, but there are no signs of corrosion.
4. Is the anchorage free of visible cracks in the concrete near the anchors? Y N U N/A
The heat exchanger is anchored to a steel frame on the EDG skid. No cracks in concrete around skid observed.

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

Sheet 2 of 5

Status: Y N U **Seismic Walkdown Checklist (SWC) SWEL1- 103**Equipment ID No. E-197A Equip. Class 21 - Tanks and ExchangersEquipment Description A EDG LUBE OIL HEAT EXCHANGER

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.)
This does not apply since this item is not part of the 50% requiring anchorage configuration.
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y N U
All visible anchorage was free of potentially adverse seismic conditions.

Interaction Effects

7. Are soft targets free from impact by nearby equipment or structures? Y N U N/A
There are no soft targets that could be impacted 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
There are no masonry block walls or ceiling tiles in the room. The lights are in good condition, and do not present an interaction effect.
9. Do attached lines have adequate flexibility to avoid damage? Y N U N/A
The attached lines have adequate flexibility.
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y N U
Based on the above evaluation, the heat exchanger is free of potentially adverse seismic interaction effects.

Sheet 3 of 5

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1- 103

Equipment ID No. E-197A Equip. Class 21 - Tanks and Exchangers


Equipment Description A EDG LUBE OIL HEAT EXCHANGER

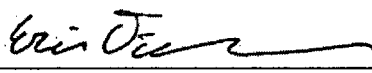
Other Adverse Conditions

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

It was looked for, and no other seismic conditions that could adversely affect the safety functions were found.

Comments (Additional pages may be added as necessary)

Evaluated by: Daniel Parker  Date: 10/11/2012

Eric Dilbone  10/11/2012

Sheet 4 of 5

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1- 103

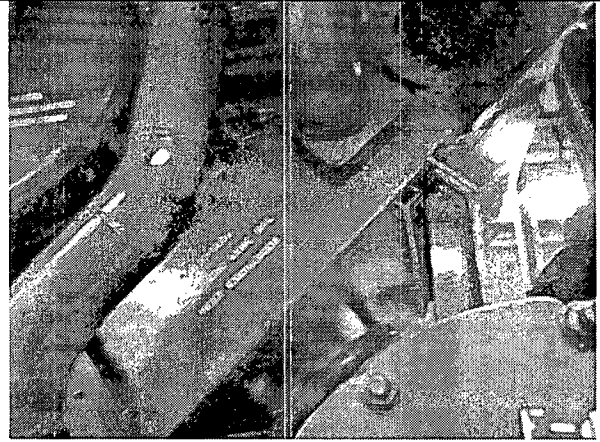
Equipment ID No. E-197A Equip. Class 21 - Tanks and Exchangers

Equipment Description A EDG LUBE OIL HEAT EXCHANGER

Photographs



Note: Close-up view of equipment ID tag and bolts anchoring heat exchanger to the steel frame.



Note: Side view from South side of skid showing diagonal orientation of heat exchanger.

Sheet 5 of 5

Status: Y N U

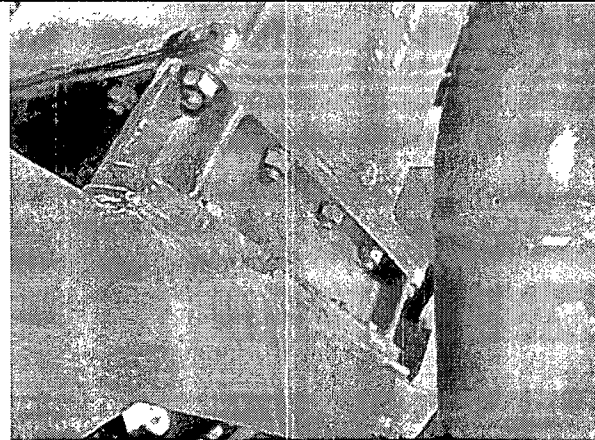
Seismic Walkdown Checklist (SWC) SWEL1- 103

Equipment ID No. E-197A Equip. Class 21 - Tanks and Exchangers

Equipment Description A EDG LUBE OIL HEAT EXCHANGER



Note: View of anchor bolts along the upper (top) and lower (bottom) edges of the heat exchanger.



Note: View of anchor bolts used to mount the heat exchanger to the steel frame located on the K4A skid.

Sheet 1 of 5

Status: Y N U **Seismic Walkdown Checklist (SWC) SWEL1- 104**Equipment ID No. E-109 Equip. Class¹ 21 - Tanks and Heat ExchangersEquipment Description OIL COOLERLocation: Bldg. RAB Floor El. 335 Room, Area 38

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

Instructions for Completing Checklist

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

Anchorage

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y N
This equipment item is part of the 50% of SWEL items requiring anchorage configuration verification.
2. Is the anchorage free of bent, broken, missing or loose hardware? Y N U N/A
All anchorage was free of the conditions listed above.
3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y N U N/A
No corrosion was observed.
4. Is the anchorage free of visible cracks in the concrete near the anchors? Y N U N/A
No visible cracks were observed in the concrete.

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

Sheet 2 of 5

Status: Y N U**Seismic Walkdown Checklist (SWC) SWEL1- 104**Equipment ID No. E-109 Equip. Class 21 - Tanks and Heat ExchangersEquipment Description OIL COOLER

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.)

Information for anchorage configuration was taken from CR-ANO-1-2008-01239 pg. 103. The anchorage configuration consists of four bolts, two per angle beam support and each .625 inch in diameter. The anchorage configuration in the equipment drawing was consistent with what was evident in the seismic inspection.

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

All anchorage is free of adverse seismic conditions.

Interaction Effects

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

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

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

10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y N U
Equipment is free of potentially adverse seismic interaction effects. Item is well anchored to the floor.

Sheet 3 of 5

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1- 104

Equipment ID No. E-109 Equip. Class 21 - Tanks and Heat Exchangers

Equipment Description OIL COOLER

Other Adverse Conditions

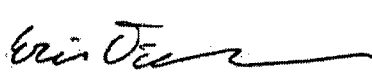
11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? Y N U

Yes, no other seismic conditions that could affect the safety functions of the equipment were discovered.

Comments (Additional pages may be added as necessary)

Equipment item, E-109, had no clear visible tag number. Although this was evident in the inspection, the oil cooler was clearly identified through an image in the SEWS package and also through the tag on the component feeding into the Oil Cooler.

Evaluated by: Genaro Barragan Jr.  Date: 10/9/2012

Eric Dilbone  10/9/2012

Sheet 4 of 5

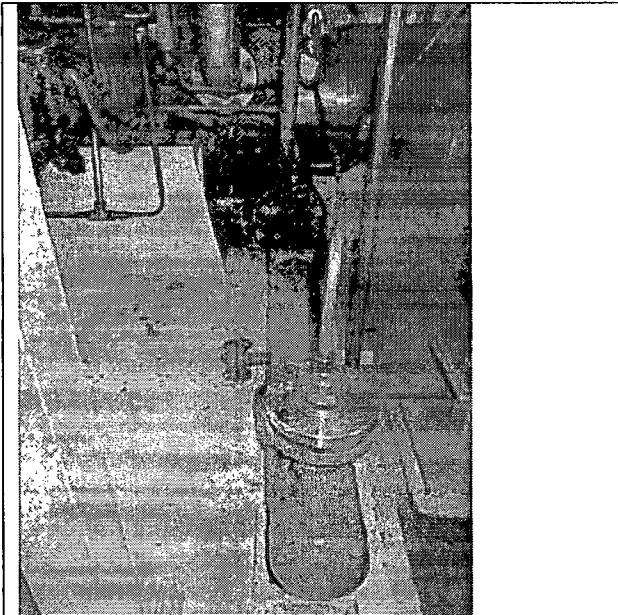
Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1- 104

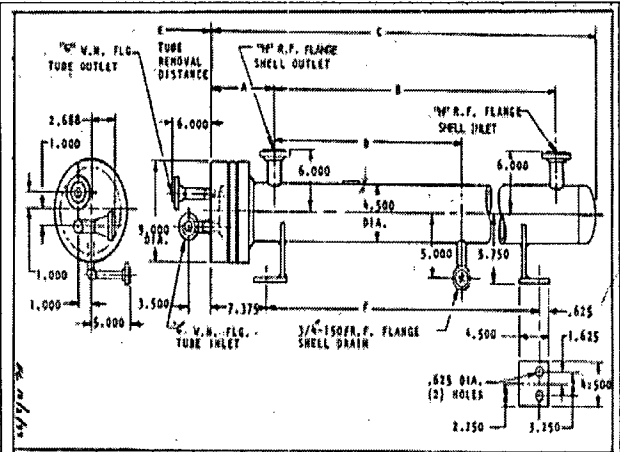
Equipment ID No. E-109 Equip. Class 21 - Tanks and Heat Exchangers

Equipment Description OIL COOLER

Photographs



Note: General image of Oil Cooler (E-109).



Note: This image was taken from CR-ANO-1-2008-01239. This image shows the anchorage configuration that consists of four bolts, each .625inch in diameter.

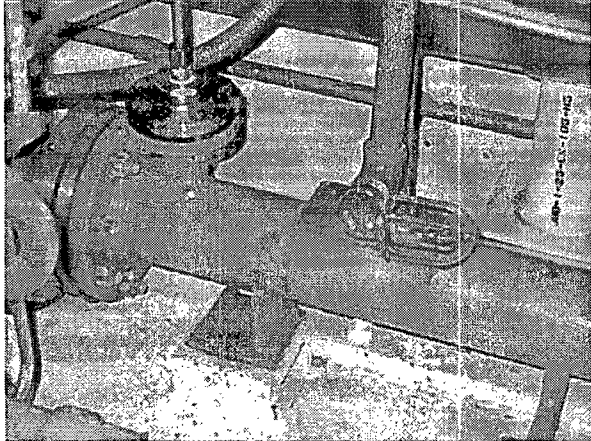
Sheet 5 of 5

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1- 104

Equipment ID No. E-109 Equip. Class 21 - Tanks and Heat Exchangers

Equipment Description OIL COOLER



Note: General image of Oil Cooler (E-109).



Note: General image of Oil Cooler (E-109).

Sheet 1 of 5

Status: Y N U **Seismic Walkdown Checklist (SWC) SWEL1-105**Equipment ID No. N/A Equip. Class¹ N/AEquipment Description NOT USEDLocation: Bldg. N/A Floor El. N/A Room, Area N/A

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

Instructions for Completing Checklist

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

Anchorage

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

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

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

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

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

Sheet 2 of 5

Status: Y N U **Seismic Walkdown Checklist (SWC) SWEL1-105**Equipment ID No. N/A Equip. Class N/AEquipment Description NOT USED

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

Interaction Effects

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

Sheet 3 of 5

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-105

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

Equipment Description NOT USED

Other Adverse Conditions

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

Comments (Additional pages may be added as necessary)

Evaluated by: _____ Date: _____

Sheet 4 of 5

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-105

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

Equipment Description NOT USED

Photographs

Note:	Note:

Sheet 5 of 5

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-105

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

Equipment Description NOT USED

Note:	Note:

Sheet 1 of 6

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-106

Equipment ID No. T-208 Equip. Class¹ 21-Tanks and Heat Exchangers

Equipment Description ACCUM TANK FOR CV-2234 AIR OPERATOR

Location: Bldg. RAB Floor El. 356 Room, Area 77

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

Instructions for Completing Checklist

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

Anchorage

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y N
This item is anchored to Item CV-2234 using steel frames. This item is also not part of the 50%.

2. Is the anchorage free of bent, broken, missing or loose hardware? Y N U N/A
It appears that one of the anchored bolts is slightly loose. However, there are no signs for this being an adverse seismic condition for the equipment item. Other than this minor issue, all other anchorage is free of the conditions listed above.

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

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y N U N/A
Equipment is attached to a metal frame in Item CV-2234.

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

Sheet 2 of 6

Status: Y N U**Seismic Walkdown Checklist (SWC) SWEL1-106**Equipment ID No. T-208 Equip. Class 21-Tanks and Heat ExchangersEquipment Description ACCUM TANK FOR CV-2234 AIR OPERATOR

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

Interaction Effects

7. Are soft targets free from impact by nearby equipment or structures?
Soft targets are free from impact by nearby equipment. Y N U N/A
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?
Steel frame protects the tank from overhead hazards. Y N U N/A
9. Do attached lines have adequate flexibility to avoid damage?
Lines appear to have adequate flexibility. Y N U N/A
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?
Equipment has enough space in its surroundings to avoid negative interaction effects. Y N U

Sheet 3 of 6

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-106

Equipment ID No. T-208 Equip. Class 21-Tanks and Heat Exchangers

Equipment Description ACCUM TANK FOR CV-2234 AIR OPERATOR

Other Adverse Conditions

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

No other seismic conditions that could adversely affect the safety functions of the equipment were observed.

Comments (Additional pages may be added as necessary)

Accumulator tank did not have an equipment ID tag. Tank ID was noted on the tee fitting directly above the tank. Also, one of the anchored bolts was slightly loose; there are no signs of it being a seismic concern for the accumulator. See images below.

Evaluated by: Genaro Barragan Jr.  Date: 10/3/2012

Michael E. Perez  10/3/2012

Sheet 4 of 6

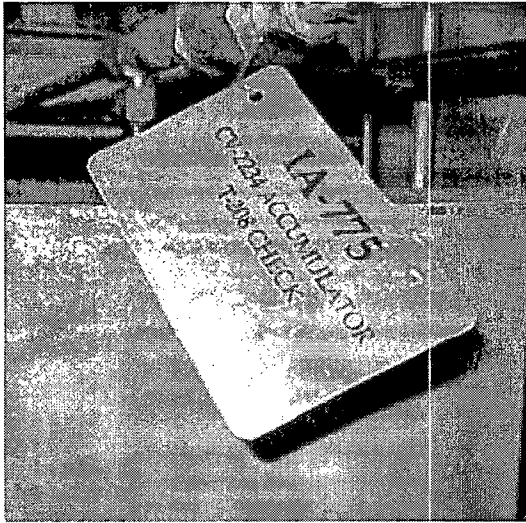
Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-106

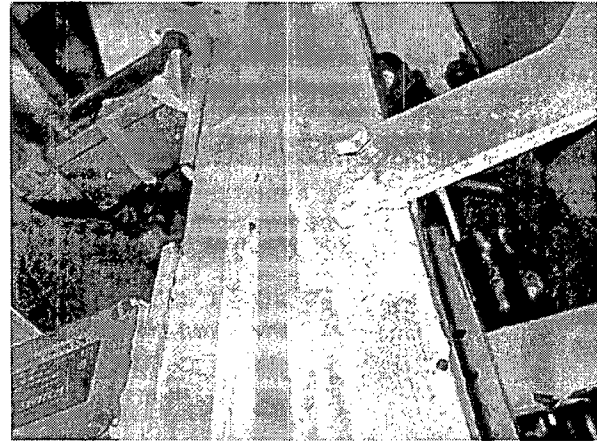
Equipment ID No. T-208 Equip. Class 21-Tanks and Heat Exchangers

Equipment Description ACCUM TANK FOR CV-2234 AIR OPERATOR

Photographs



Note: Image shows the Accumulator tank ID T-208.



Note: It seems that there is one bolt that appears to be slightly loose. Although this may not show signs of an adverse seismic condition, it is advised that the bolt should be checked for tightness.

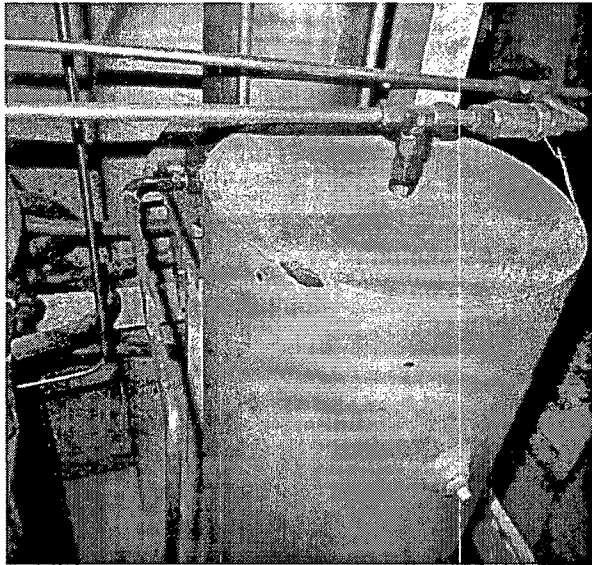
Sheet 5 of 6

Status: Y N U

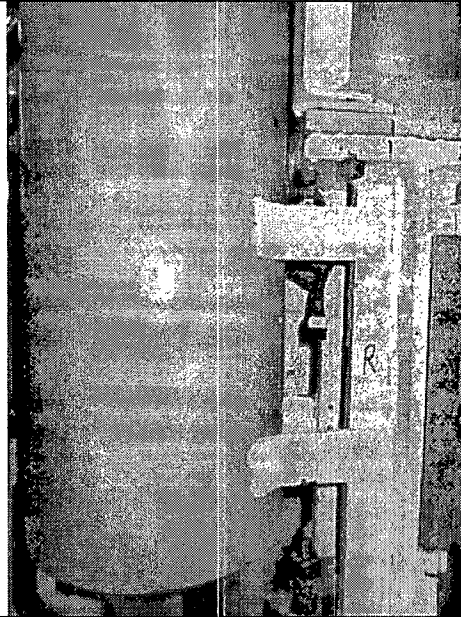
Seismic Walkdown Checklist (SWC) SWEL1-106

Equipment ID No. T-208 Equip. Class 21-Tanks and Heat Exchangers

Equipment Description ACCUM TANK FOR CV-2234 AIR OPERATOR



Note: General image of Accumulator Tank.



Note: Image shows the anchorage configuration of the accumulator tank.

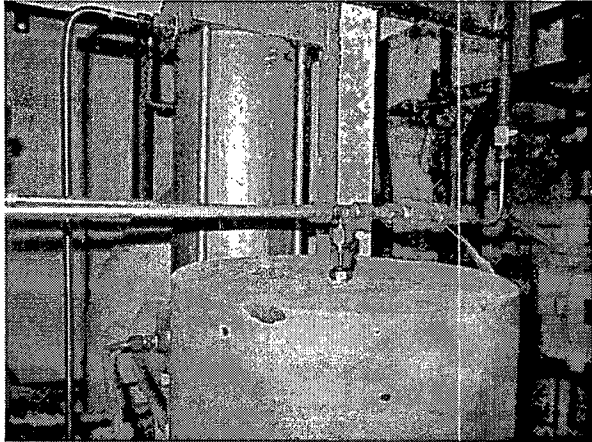
Sheet 6 of 6

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-106

Equipment ID No. T-208 Equip. Class 21-Tanks and Heat Exchangers

Equipment Description ACCUM TANK FOR CV-2234 AIR OPERATOR



Note: *General image showing the top section of the tank.*

Note:

Sheet 1 of 5

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-107

Equipment ID No. N/A Equip. Class¹ N/A

Equipment Description NOT USED

Location: Bldg. N/A Floor El. N/A Room, Area N/A

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

Instructions for Completing Checklist

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

Anchorage

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

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

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

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

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

Sheet 2 of 5

Status: Y N U **Seismic Walkdown Checklist (SWC) SWEL1-107**Equipment ID No. N/A Equip. Class N/AEquipment Description NOT USED

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

Interaction Effects

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

Sheet 3 of 5

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-107

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

Equipment Description NOT USED

Other Adverse Conditions

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

Comments (Additional pages may be added as necessary)

Evaluated by: _____ Date: _____

Sheet 4 of 5

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-107

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

Equipment Description NOT USED

Photographs

Note:	Note:

Sheet 5 of 5

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-107

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

Equipment Description NOT USED

Note:	Note:

Sheet 1 of 5

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-108

Equipment ID No. E-35A Equip. Class¹ 21 - Tanks and Heat Exchangers

Equipment Description 'A' LOOP DH CLR

Location: Bldg. RAB Floor El. 317 Room, Area 14

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

Instructions for Completing Checklist

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

Anchorage

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y N
This equipment is anchored to two concrete pedestals. Anchorage configuration verification is required for this equipment.

2. Is the anchorage free of bent, broken, missing or loose hardware? Y N U N/A
Anchorage appears to be free from the conditions stated above.

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y N U N/A
No signs of any type of corrosion have been found on the anchorage of the component.

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y N U N/A
No cracks were observed in the concrete piers in the vicinity of the anchor bolts. Concrete piers (3ft high) appeared to be in sound condition.

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

Sheet 2 of 5

Status: Y N U **Seismic Walkdown Checklist (SWC) SWEL1-108**Equipment ID No. E-35A Equip. Class 21 - Tanks and Heat ExchangersEquipment Description 'A' LOOP DH CLR

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 that has been found during the inspection complied with the specifications stated in the documentation (CALC-94-SQ-1001-21, page 25 and Drawing C-261, Sht. 1, Rev. 15).
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y N U
All anchorage supporting the system was found to be free from adverse seismic conditions.

Interaction Effects

7. Are soft targets free from impact by nearby equipment or structures? Y N U N/A
None of the soft targets found in the equipment have been shown to potentially suffer impact by nearby equipment.
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y N U N/A
Overhead equipment near Item E-35B appeared to be properly secured so as to avoid any collapse during a seismic hazard.
9. Do attached lines have adequate flexibility to avoid damage? Y N U N/A
All attached lines have been ruled to have adequate flexibility.
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y N U
Equipment appears to be free from seismic interaction effects.

Sheet 3 of 5

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-108

Equipment ID No. E-35A Equip. Class 21 - Tanks and Heat Exchangers

Equipment Description 'A' LOOP DH CLR


Other Adverse Conditions

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

No other seismic conditions were found to affect the equipment's integrity.

Comments (Additional pages may be added as necessary)

The anchorage found in the system appeared to be in very good condition. There was no sign of oxidation. Additionally, no cracks in the concrete were observed.

Evaluated by: Michael Perez  Date: 10/11/2012

Sean Smolarek  10/11/2012

Sheet 4 of 5

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-108

Equipment ID No. E-35A Equip. Class 21 - Tanks and Heat Exchangers

Equipment Description 'A' LOOP DH CLR

Photographs



Note: *General Overview*



Note: *Concrete Pedastel*

Sheet 5 of 5

Status: Y N U

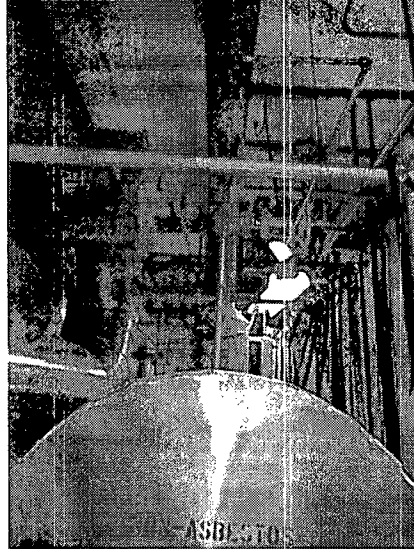
Seismic Walkdown Checklist (SWC) SWEL1-108

Equipment ID No. E-35A Equip. Class 21 - Tanks and Heat Exchangers

Equipment Description 'A' LOOP DH CLR



Note: Anchorage



Note: Overhead

Sheet 1 of 5

Status: Y N U **Seismic Walkdown Checklist (SWC) SWEL1-109**Equipment ID No. E-35B Equip. Class¹ 21 - Tanks and Heat ExchangersEquipment Description 'B' LOOP DH CLRLocation: Bldg. RAB Floor El. 317 Room, Area 11

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

Instructions for Completing Checklist

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

Anchorage

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y N
This equipment is anchored to two concrete pedestals. Anchorage configuration verification is required for this equipment.
2. Is the anchorage free of bent, broken, missing or loose hardware? Y N U N/A
Anchorage appears to be free from the conditions stated above.
3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y N U N/A
No signs of any type of corrosion have been found on the anchorage of the component.
4. Is the anchorage free of visible cracks in the concrete near the anchors? Y N U N/A
No cracks were observed in the concrete piers in the vicinity of the anchor bolts. Concrete piers (3ft high) appeared to be in sound condition.

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

Sheet 2 of 5

Status: Y N U **Seismic Walkdown Checklist (SWC) SWEL1-109**Equipment ID No. E-35B Equip. Class 21 - Tanks and Heat ExchangersEquipment Description 'B' LOOP DH CLR

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 that has been found during the inspection complied with the specifications stated in the documentation (CALC-94-SQ-1001-21, page 25 and Drawing C-261, Sht. 1, Rev. 15).
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y N U
All anchorage supporting the system was found to be free from adverse seismic conditions.

Interaction Effects

7. Are soft targets free from impact by nearby equipment or structures? Y N U N/A
None of the soft targets found in the equipment have been shown to potentially suffer impact by nearby equipment.
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y N U N/A
Overhead equipment near Item E-35B appeared to be properly secured so as to avoid any collapse during a seismic hazard.
9. Do attached lines have adequate flexibility to avoid damage? Y N U N/A
All attached lines have been ruled to have adequate flexibility.
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y N U
Equipment appears to be free from seismic interaction effects.

Sheet 3 of 5

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-109

Equipment ID No. E-35B Equip. Class 21 - Tanks and Heat Exchangers

Equipment Description 'B' LOOP DH CLR

Other Adverse Conditions

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

No other seismic conditions were found to affect the equipment's integrity.

Comments (Additional pages may be added as necessary)

The anchorage found in the system appeared to be in very good conditions. Anchor bolts did not show any signs of oxidation, nor were cracks in the concrete piers detected. No tag ID was found for this component, but it was clear to determine the identity of this equipment item due to its description and large size.

Evaluated by: Daniel Andoh  Date: 10/4/2012

Michael E. Perez  10/4/2012

Sheet 4 of 5

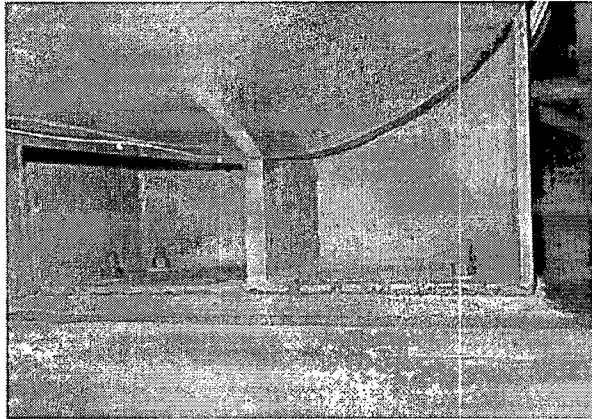
Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-109

Equipment ID No. E-35B Equip. Class 21 - Tanks and Heat Exchangers

Equipment Description 'B' LOOP DH CLR

Photographs



Note: *The anchorage of this component appears to be in adequate conditions. No corrosion was observed in the anchor bolts, nor cracks in the concrete piers in the vicinity of the anchor bolts.*



Note: *Anchorage on the other side of the component also appears to be in adequate conditions.*

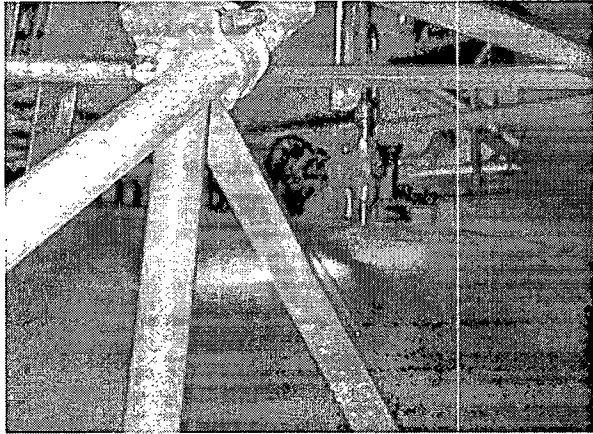
Sheet 5 of 5

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-109

Equipment ID No. E-35B Equip. Class 21 - Tanks and Heat Exchangers

Equipment Description 'B' LOOP DH CLR



Note: *Overhead equipment appears to be in adequate conditions. Therefore, it is unlikely that it would collapse onto Item E-35B. And if these were to ever collapse, the likelihood of damaging the equipment is very minimal.*

Note:

Sheet 1 of 5

Status: Y N U **Seismic Walkdown Checklist (SWC) SWEL1-110**Equipment ID No. P-107B Equip. Class¹ 5 – Horizontal PumpsEquipment Description LUBE OIL SCAVENGING PUMPLocation: Bldg. RAB Floor El. 369 Room, Area 86Manufacturer, Model, Etc. (optional but recommended) Electro-Motive 645E4B Turbocharged Diesel Engine**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
Items is not part of the 50% anchorage configuration verification.
2. Is the anchorage free of bent, broken, missing or loose hardware? Y N U N/A
The anchorage is free of bent, broken, missing and loose hardware.
3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y N U N/A
The anchorage is free of corrosion.
4. Is the anchorage free of visible cracks in the concrete near the anchors? Y N U N/A
Component mounted to EDG skid. No cracks in concrete around skid anchorage.

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

Sheet 2 of 5

Status: Y N U**Seismic Walkdown Checklist (SWC) SWEL1-110**Equipment ID No. P-107B Equip. Class 5 – Horizontal PumpsEquipment Description LUBE OIL SCAVENGING PUMP

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

Interaction Effects

7. Are soft targets free from impact by nearby equipment or structures?
The Lube Oil Scavenger Pump is bolted low at the accessory end of the diesel engine. This component is shielded by additional engine components attached above on the accessory end. Y N U N/A
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?
There is overhead duct work that is properly secured with steel hangers. Y N U N/A
9. Do attached lines have adequate flexibility to avoid damage?
Attached lines have adequate flexibility. Y N U N/A
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?
Based on the above seismic interaction evaluations, the equipment is free of potentially adverse seismic interaction effects. Y N U

Sheet 3 of 5

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-110

Equipment ID No. P-107B Equip. Class 5 – Horizontal Pumps

Equipment Description LUBE OIL SCAVENGING PUMP

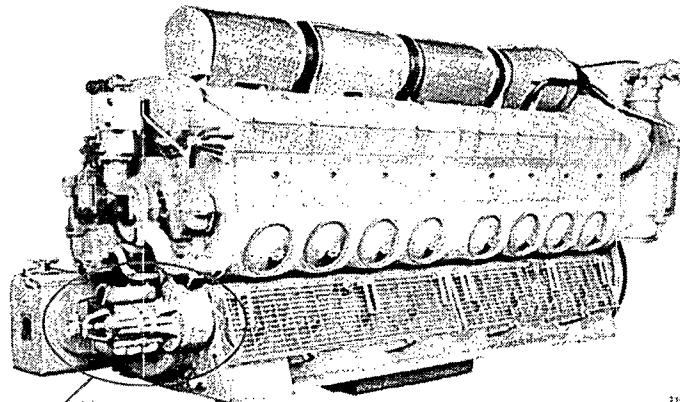
Other Adverse Conditions

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

It was looked for, and no other seismic conditions that could adversely affect the safety functions of the equipment were found.

Comments (Additional pages may be added as necessary)

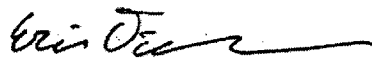
The Lube Oil Scavenger Pump is a critical component of the diesel engine. Every mounting bolt was observed to be in place. The entire engine appeared clean and well maintained. There were no visible leaks or signs of previous leaks at any location where accessory components were bolted to the main engine block.



Lube Oil Scavenger Pump

Three-Quarter Left Front View, 16-Cylinder

Evaluated by: Daniel Parker  Date: 10/2/2012

Eric Dilbone  10/2/2012

Sheet 4 of 5

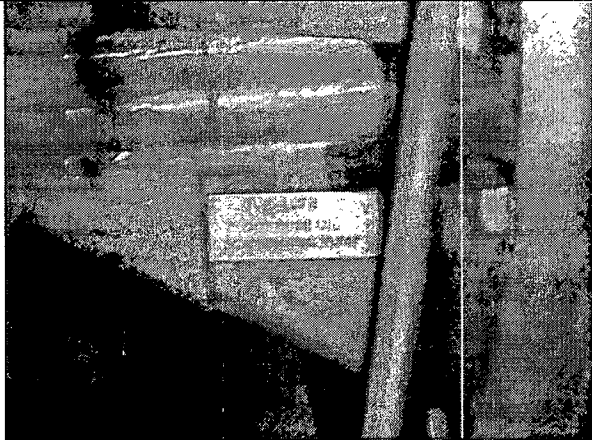
Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-110

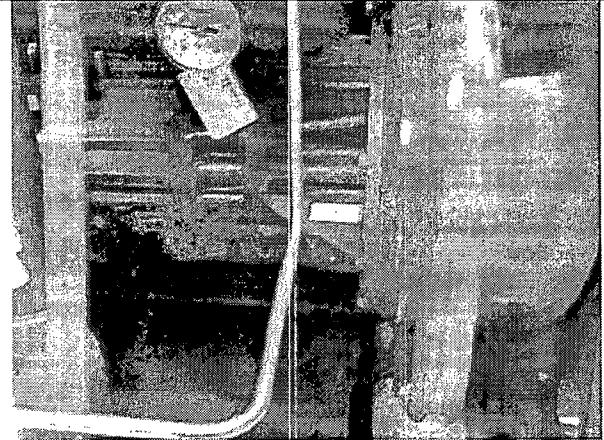
Equipment ID No. P-107B Equip. Class 5 - Horizontal Pumps

Equipment Description LUBE OIL SCAVENGING PUMP

Photographs



Note: Component ID



Note: Overview of Component

Sheet 5 of 5

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-110

Equipment ID No. P-107B Equip. Class 5 – Horizontal Pumps

Equipment Description LUBE OIL SCAVENGING PUMP



Note: *Overview of Component*

Note:

Sheet 1 of 5

Status: Y N U **Seismic Walkdown Checklist (SWC) SWEL2-001**Equipment ID No. SW-72 Equip. Class¹ 7 - Pneumatic-Operated ValvesEquipment Description SW TO SFP EL 404' SERV CONNLocation: Bldg. RAB Floor El. 404 Room, Area 159

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
Anchorage verification is not required since this is an in-line component.
2. Is the anchorage free of bent, broken, missing or loose hardware? Y N U N/A
This is not applicable since this is an in-line component.
3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y N U N/A
This is not applicable since this is an in-line component.
4. Is the anchorage free of visible cracks in the concrete near the anchors? Y N U N/A
This is not applicable since this is an in-line component.

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

Sheet 2 of 5

Status: Y N U **Seismic Walkdown Checklist (SWC) SWEL2-001**Equipment ID No. SW-72 Equip. Class 7 - Pneumatic-Operated ValvesEquipment Description SW TO SFP EL 404' SERV CONN

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.)
This item is not part of the 50%.
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y N U
The anchorage is free of potentially adverse seismic conditions.

Interaction Effects

7. Are soft targets free from impact by nearby equipment or structures? Y N U N/A
There are no soft targets to be affected 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
There is a masonry block wall next to the component, but it is seismically qualified.
9. Do attached lines have adequate flexibility to avoid damage? Y N U N/A
Attached lines have adequate flexibility.
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y N U
Based on the above seismic interaction evaluations, the equipment is free of potentially adverse seismic interaction effects.

Sheet 3 of 5

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL2-001

Equipment ID No. SW-72 Equip. Class 7 - Pneumatic-Operated Valves

Equipment Description SW TO SFP EL 404' SERV CONN

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

It was looked for, and no other seismic conditions that could adversely affect the safety fuctions were found.

Comments (Additional pages may be added as necessary)

Evaluated by: Sean Smolarek *Sean Smolarek* Date: 10/12/2012

Eric Dilbone *Eric Dilbone* 10/12/2012

Sheet 4 of 5

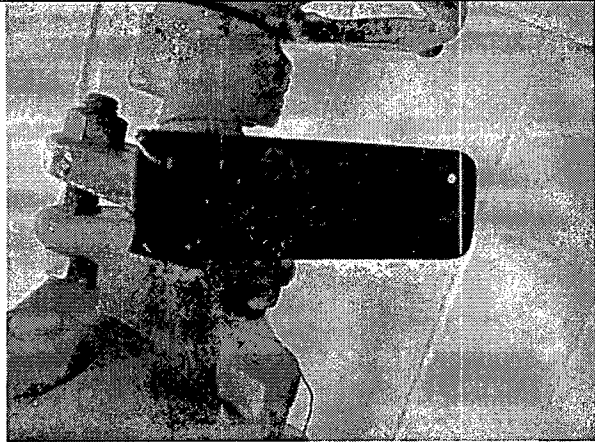
Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL2-001

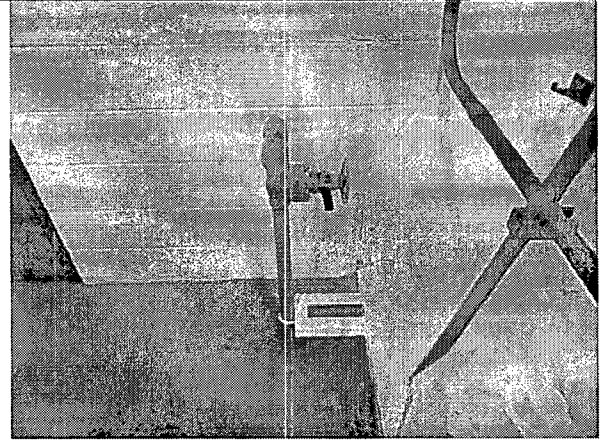
Equipment ID No. SW-72 Equip. Class 7 - Pneumatic-Operated Valves

Equipment Description SW TO SFP EL 404' SERV CONN

Photographs



Note: View of the component equipment ID tag.



Note: General view of the component.

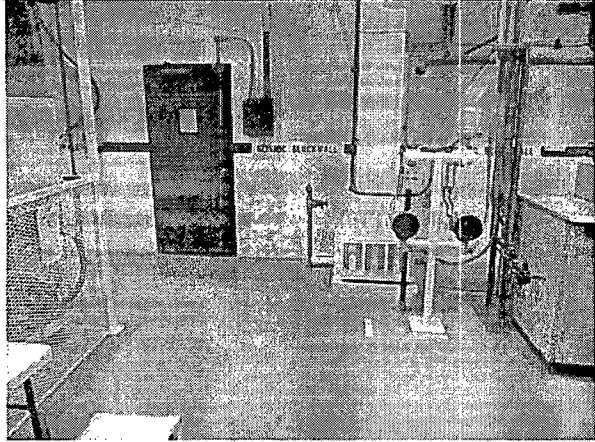
Sheet 5 of 5

Status: Y N U

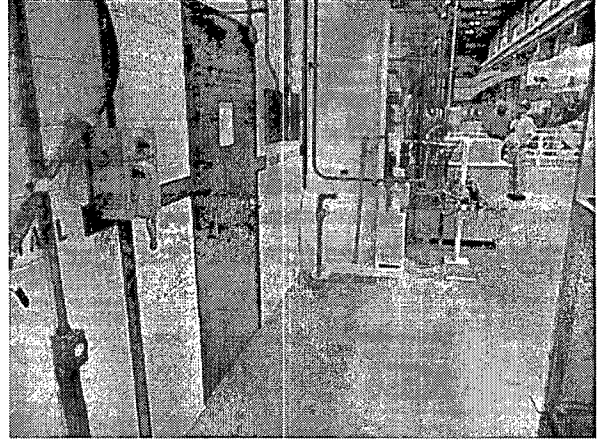
Seismic Walkdown Checklist (SWC) SWEL2-001

Equipment ID No. SW-72 Equip. Class 7 - Pneumatic-Operated Valves

Equipment Description SW TO SFP EL 404' SERV CONN



Note: View of the component showing the seismic block wall behind.



Note: Side view of the component.

Attachment D

Area Walk-By Checklists (AWCs)

Sheet 1 of 5

Status: Y N U

Area Walk-By Checklist (AWC) AWC- 001

Location: Bldg. RAB Floor El. 369 Room, Area¹ 87

SWEL Components: SWEL1- 001 (M-112A), 011 (P-108A), 015 (P-104A), 016 (CV-5218), 046 (SV-5218), 056 (KMA-1), 057 (TV-7901B), 062 (F-50A), 063 (M-227A), 067 (SS-5211), 073 (LSL-5206), 101 (T-78A), 103 (E-197A)

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

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

Anchorage of equipment in the area is 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

From the floor, 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.

Sheet 2 of 5

Status: Y N U **Area Walk-By Checklist (AWC) AWC- 001**Location: Bldg. RAB Floor El. 369 Room, Area 87

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

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

There is a fire water system in the room, in addition to service water piping. The room is equipped with floor drains to mitigate a release of water in the room.

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

The area appears to be 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

It was noted that engineering-approved scaffolding is assembled on the North, East and West sides of the room at the time of inspection.

Sheet 3 of 5

Status: Y N U

Area Walk-By Checklist (AWC) AWC- 001

Location: Bldg. RAB Floor El. 369 Room, Area 87

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
It was looked for, and no other seismic conditions that could affect the safety functions of equipment in the area were found.

Comments (Additional pages may be added as necessary)

Evaluated by: Daniel Parker



Date: 10/11/2012

Eric Dilbone



10/11/2012

Sheet 4 of 5

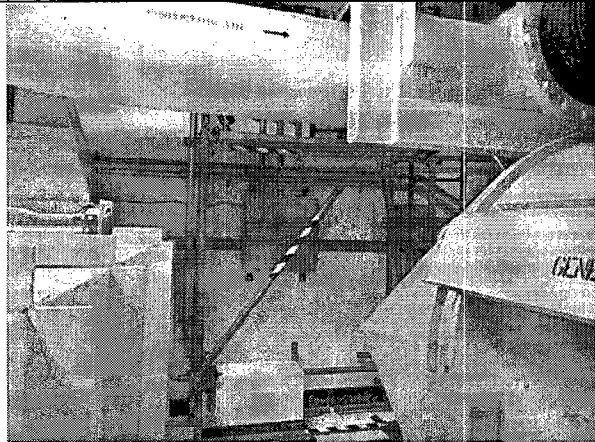
Status: Y N U

Area Walk-By Checklist (AWC) AWC- 001

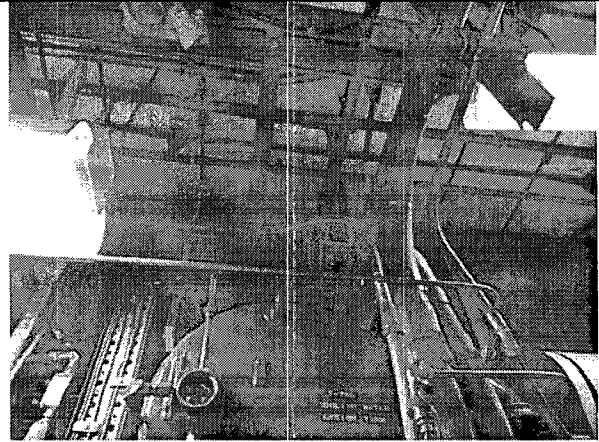
Location: Bldg. RAB Floor El. 369 Roo/m, Area² 87

SWEL Components: SWEL1- 001 (M-112A), 011 (P-108A), 015 (P-104A), 016 (CV-5218), 046 (SV-5218), 056 (KMA-1), 057 (TV-7901B), 062 (F-50A), 063 (M-227A), 067 (SS-5211), 073 (LSL-5206), 101 (T-78A), 103 (E-197A)

Photographs



Note: *Picture of scaffold assembled on the West wall of the room.*



Note: *View of equipment and conduit overhead in Room 87.*

² 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.

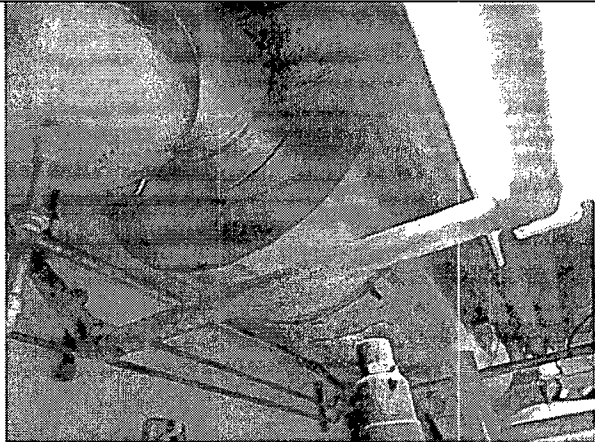
Sheet 5 of 5

Status: Y N U

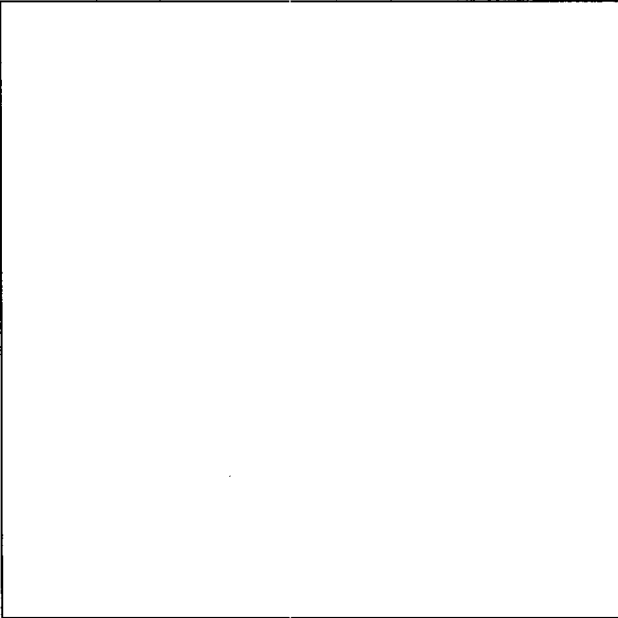
Area Walk-By Checklist (AWC) AWC- 001

Location: Bldg. RAB Floor El. 369 Room, Area³ 87

SWEL Components: SWEL1- 001 (M-112A), 011 (P-108A), 015 (P-104A), 016 (CV-5218), 046 (SV-5218), 056 (KMA-1), 057 (TV-7901B), 062 (F-50A), 063 (M-227A), 067 (SS-5211), 073 (LSL-5206), 101 (T-78A), 103 (E-197A)



Note: *View of overhead equipment, lighting and conduit in Room 87.*



Note:

³ 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.

Sheet 1 of 6

Status: Y N U **Area Walk-By Checklist (AWC) AWC- 002**Location: Bldg. RAB Floor El. 335 Room, Area¹ 38 (Entire Room)**SWEL Components: SWEL1- 002(K-3), 004(CV-6601A), 012(P-7A), 084(PI-2811A), 104(E-109), 043(CV-2806), 025(CV-2800), 074(PIT-2812)****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

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

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

All rigid electrical conduit is adequately anchored to the overhead and the walls. Overhead piping and ducts appear to be properly secured.

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.

Sheet 2 of 6

Status: Y N U **Area Walk-By Checklist (AWC) AWC- 002**Location: Bldg. RAB Floor El. 335 Room, Area 38 (Entire Room)

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

There is unique connection in a lighting fixture above Item P-7B. It seems that the support of the lighting fixture has broken and to remedy the missing piece, a metal tie was applied to tie the broken support. However, this is acceptable considering the weight of the light and since it can't be disconnected from the support.

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

The area appears to be free of potentially adverse seismic conditions 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

One pipe has insulation which has been soaked in oil. However, this has already been acknowledged by maintenance. A "caution" sign is placed near the insulated pipe.

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 area appears to be free of potentially adverse seismic interactions associated with housekeeping practices, storage of portable equipment, and temporary installations.

Sheet 3 of 6

Status: Y N U

Area Walk-By Checklist (AWC) AWC- 002

Location: Bldg. RAB Floor El. 335 Room, Area 38 (Entire Room)


- 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

There are no other seismic conditions that were identified.

Comments (Additional pages may be added as necessary)

Anchorage in the area are found to be in adequate conditions. There is a fire extinguisher in the area that may come loose, but there are no credible targets. There is one overhead equipment item (VUC-6) that may potentially affect the area. But because it is well supported by 2 thread rods (one on each side) as well as 4 welded angle sections, it is very unlikely for a seismic hazard to occur.

Evaluated by: Daniel Parker  Date: 10/8/2012

Michael E. Perez  10/8/2012

Sheet 4 of 6

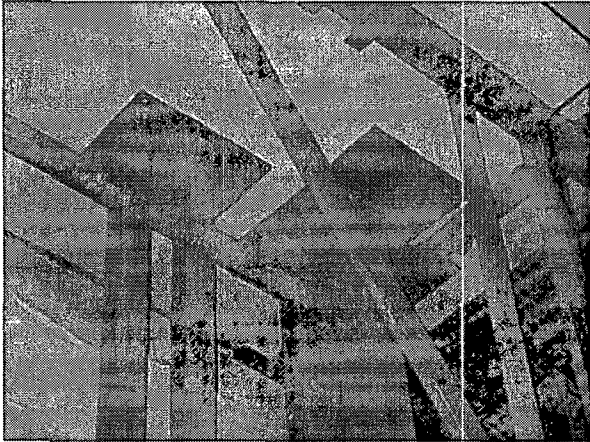
Status: Y N U

Area Walk-By Checklist (AWC) AWC-002

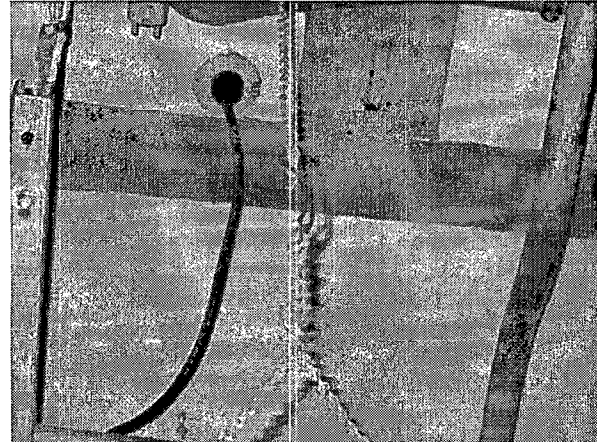
Location: Bldg. RAB Floor El. 335 Room, Area 38 (Entire Room)

SWEL Components: SWEL1-002(K-3), 004(CV-6601A), 012(P-7A), 084(PI-2811A), 104(E-109), 043(CV-2806), 025(CV-2800), 074(PIT-2812)

Photographs



Note: *Anchorage in the area appears to be in good condition.*



Note: *Observe unusual light support, however, this will induce no motion during a seismic event.*

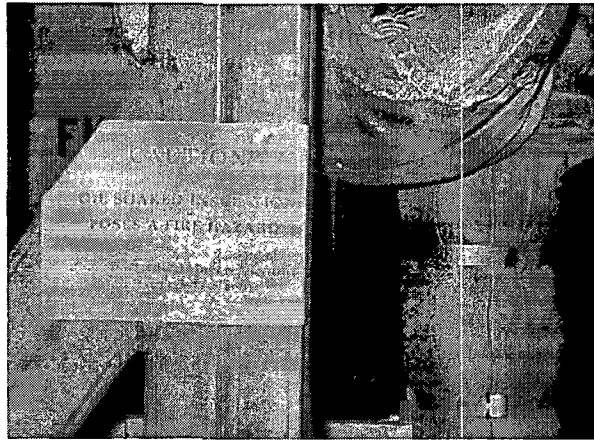
Sheet 5 of 6

Status: Y N U

Area Walk-By Checklist (AWC) AWC- 002

Location: Bldg. RAB Floor El. 335 Room, Area 38 (Entire Room)

SWEL Components: SWEL1- 002(K-3), 004(CV-6601A), 012(P-7A), 084(PI-2811A), 104(E-109), 043(CV-2806), 025(CV-2800), 074(PIT-2812)



Note: *There is a pipe whose insulation has been soaked in oil. However, this has been acknowledged by maintenance and a "caution" sign has been placed.*



Note: *Drains are present in the area, thus mitigating any seismic hazards that would cause flooding.*

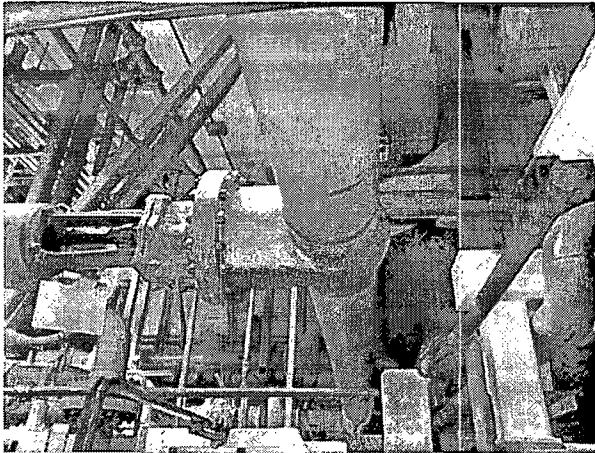
Sheet 6 of 6

Status: Y N U

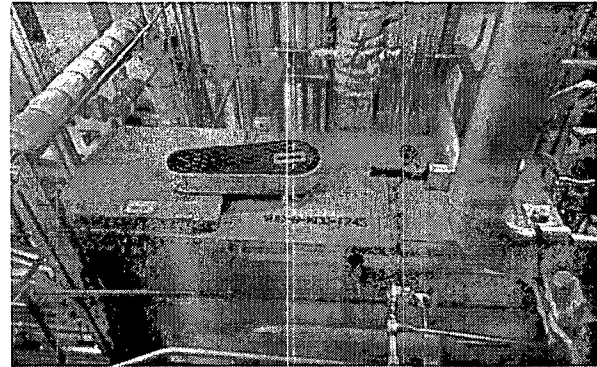
Area Walk-By Checklist (AWC) AWC- 002

Location: Bldg. RAB Floor El. 335 Room, Area 38 (Entire Room)

SWEL Components: SWEL1- 002(K-3), 004(CV-6601A), 012(P-7A), 084(PI-2811A), 104(E-109), 043(CV-2806), 025(CV-2800), 074(PIT-2812)



Note: *Overhead pipe.*



Note: *Overhead unit (VUC-6) does not seem likely to collapse on other equipment, since there are two threaded rods as well as 4 welded angle sections that are supporting the unit.*

Sheet 1 of 5

Status: Y N U **Area Walk-By Checklist (AWC) AWC- 003**Location: Bldg. RAB Floor El. 335 Room, Area¹ 56**SWEL Components: SWEL- 003(F-57A), 030(CV-1276)****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

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

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

HVAC ductwork is in good general condition.

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.

Sheet 2 of 5

Status: Y N U **Area Walk-By Checklist (AWC) AWC- 003**Location: Bldg. RAB Floor El. 335 Room, Area² 56

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

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

The area appears to be free of potentially adverse seismic conditions 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

A vertical pipe near CV-1276 was wrapped in clear plastic.

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 area appears to be free of potentially adverse seismic interactions associated with housekeeping practices, storage of portable equipment, and temporary installations.

² 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.

Sheet 3 of 5

Status: Y N U

Area Walk-By Checklist (AWC) AWC- 003

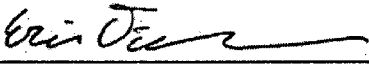
Location: Bldg. RAB Floor El. 335 Room, Area³ 56

- 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

It was looked for, and no other seismic conditions that could adversely affect the safety functions of the equipment in the area were found.

Comments (Additional pages may be added as necessary)

Evaluated by: Daniel Parker  Date: 10/12/2012

Eric Dilbone  10/12/2012

³ 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.

Sheet 4 of 5

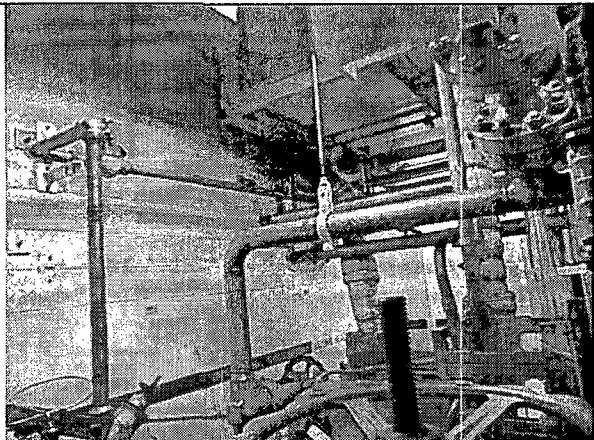
Status: Y N U

Area Walk-By Checklist (AWC) AWC- 003

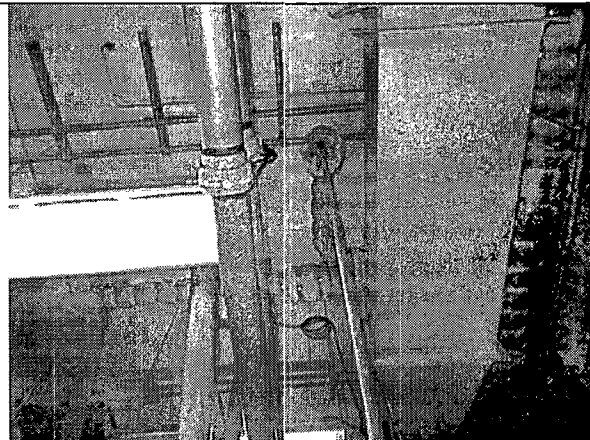
Location: Bldg. RAB Floor El. 335 Room, Area⁴ 56

SWEL Components: SWEL- 003(F-57A), 030(CV-1276)

Photographs



Note: Room 56 Overhead ducting.



Note: Room 56 overhead insulated pipes.

⁴ 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.

Sheet 5 of 5

Status: Y N U

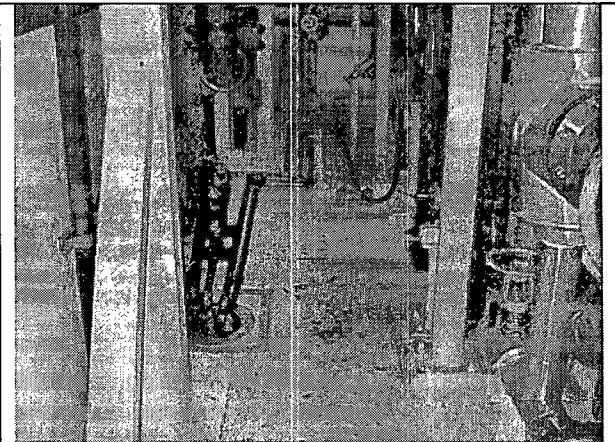
Area Walk-By Checklist (AWC) AWC- 003

Location: Bldg. RAB Floor El. 335 Room, Area⁵ 56

SWEL Components: SWEL- 003(F-57A), 030(CV-1276)



Note: Room 56 insulated pipe with plastic wrap near component CV-1276.



Note: Floor Drain in room 56.

⁵ 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.

Sheet 1 of 5

Status: Y N U **Area Walk-By Checklist (AWC) AWC- 004**Location: Bldg. RAB Floor El. 368 Room, Area¹ 104**SWEL Components: SWEL1- 005 (D-15), 079 (PY-2618-A1), 093 (PY-1042A), 095 (LY-4204A), 096 (PY-2667-A1), 081 (C539A)****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

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

Anchorage 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

Based on visual inspection from the floor, the cable/conduit raceways and HVAC ducting appear 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.

Sheet 2 of 5

Status: Y N U **Area Walk-By Checklist (AWC) AWC- 004**Location: Bldg. RAB Floor El. 368 Room, Area 104

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

The area appears to be free of potentially adverse seismic spatial interactions with other equipment.

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

A room cooler is present in the room. It appears to be adequately installed and will not present a source of flooding or spray. It is located far enough away from safety related equipment that if it were to induce spray, it would not adversely impact the safe shutdown of the plant. Floor drains are present.

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

The area appears to be free of potentially adverse seismic interactions that could cause a fire.

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

Sheet 3 of 5

Status: Y N U

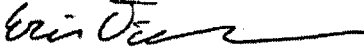
Area Walk-By Checklist (AWC) AWC-004

Location: Bldg. RAB Floor El. 368 Room, Area 104

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

It was looked for and no other seismic conditions that could adversely affect the safety functions of the equipment in the area were found.

Comments (Additional pages may be added as necessary)

Evaluated by: Eric Dilbone  Date: 10/10/2012

Daniel Parker  10/10/2012

Sheet 4 of 5

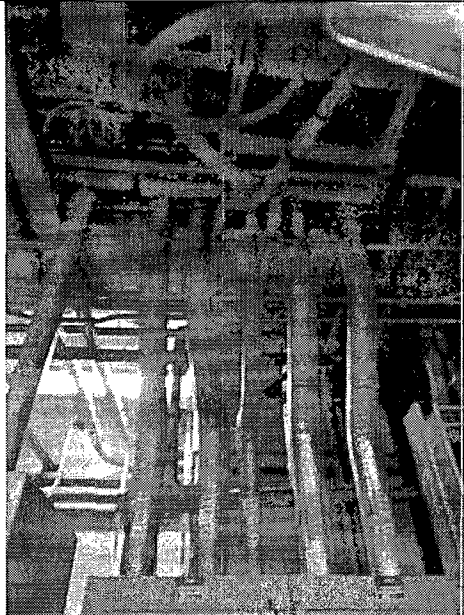
Status: Y N U

Area Walk-By Checklist (AWC) AWC- 004

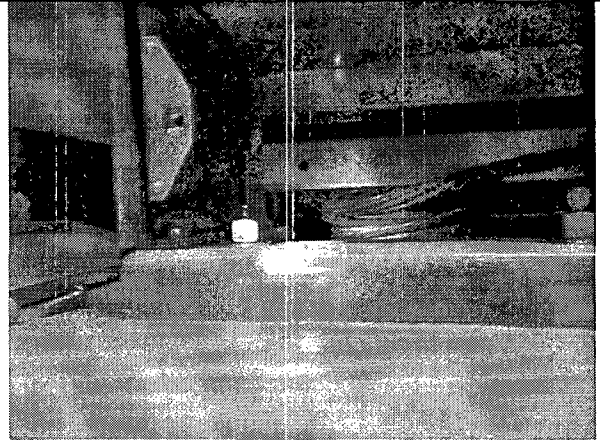
Location: Bldg. RAB Floor El. 368 Room, Area 104

SWEL Components: SWEL1- 005 (D-15), 079 (PY-2618-A1), 093 (PY-1042A), 095 (LY-4204A), 096 (PY-2667-A1), 081 (C539A)

Photographs



Note: View of the overhead space in Room 104.



Note: View of anchorage on a component in Room 104.

Sheet 5 of 5

Status: Y N U

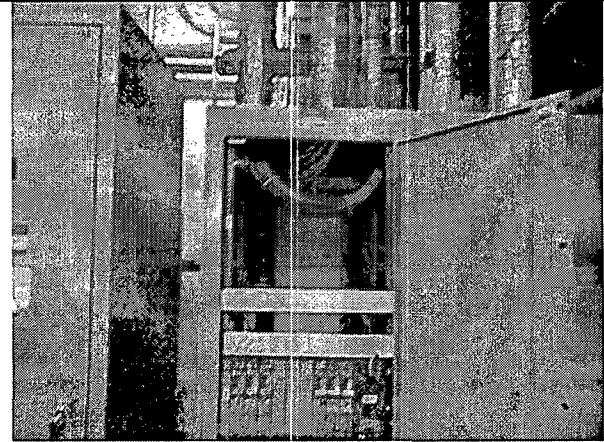
Area Walk-By Checklist (AWC) AWC- 004

Location: Bldg. RAB Floor El. 368 Room, Area 104

SWEL Components: SWEL1- 005 (D-15), 079 (PY-2618-A1), 093 (PY-1042A), 095 (LY-4204A), 096 (PY-2667-A1), 081 (C539A)



Note: *View of a drain line that runs to a floor drain.*



Note: *View of cabinet C539A in Room 104.*

Sheet 1 of 5

Status: Y N U **Area Walk-By Checklist (AWC) AWC- 005**Location: Bldg. RAB Floor El. 372 Room, Area¹ 99**SWEL Components: SWEL1- 007 (B-6)****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
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
Anchorage 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
Based on visual inspection from the floor, the cable/conduit raceways and HVAC ducting appear 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.

Sheet 2 of 5

Status: Y N U **Area Walk-By Checklist (AWC) AWC- 005**Location: Bldg. RAB Floor El. 372 Room, Area 99

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

The area appears to be free of potentially adverse seismic spatial interactions with other equipment. Lighting near sensitive equipment is mounted on unistrut, and near non-sensitive equipment is on chains and closed S-hooks.

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

A room cooler is present in the room. It appears to be adequately installed and will not present a source of flooding or spray. It is located far enough away from safety related equipment that if it were to induce spray, it would not adversely impact the safe shutdown of the plant. Floor drains are present.

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

The area appears to be free of potentially adverse seismic interactions that could cause a fire.

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 area is free of potentially adverse seismic interactions associated with housekeeping practices, storage of portable equipment and temporary installations. It was noted that a ladder in the room is stored on the floor and chained to the wall.

Sheet 3 of 5

Status: Y N U

Area Walk-By Checklist (AWC) AWC- 005

Location: Bldg. RAB Floor El. 372 Room, Area 99

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

It was looked for and no other seismic conditions that could adversely affect the safety functions of the equipment in the area were found.

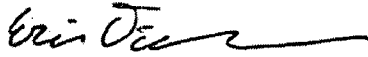
Comments (Additional pages may be added as necessary)

Evaluated by: Daniel Parker



Date: 10/11/2012

Eric Dilbone



10/11/2012

Sheet 4 of 5

Status: Y N U

Area Walk-By Checklist (AWC) AWC- 005

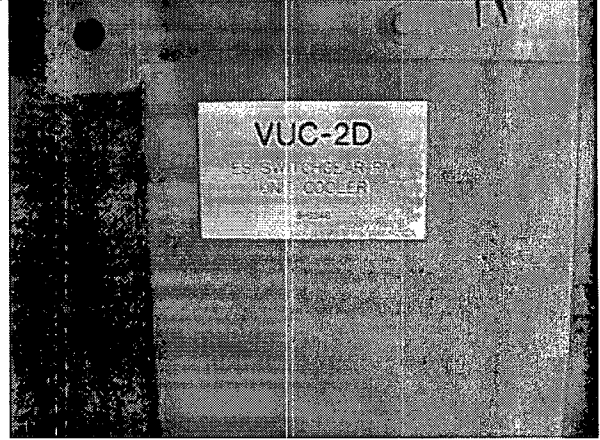
Location: Bldg. RAB Floor El. 372 Room, Area 99

SWEL Components: SWEL1- 007 (B-6)

Photographs



Note: View of equipment in Room 99, including SWEL item, B-6.



Note: Equipment ID tag of the room cooler identified in the room.

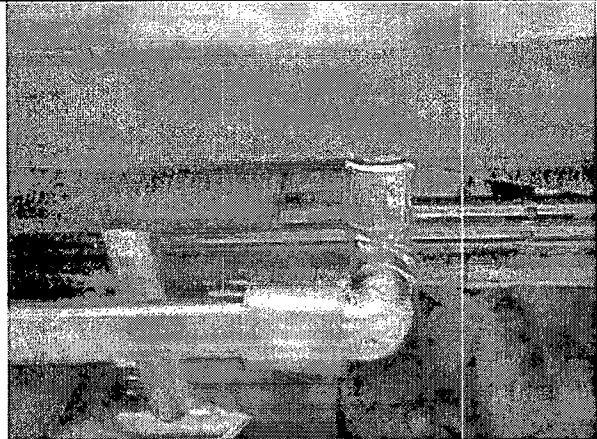
Sheet 5 of 5

Status: Y N U

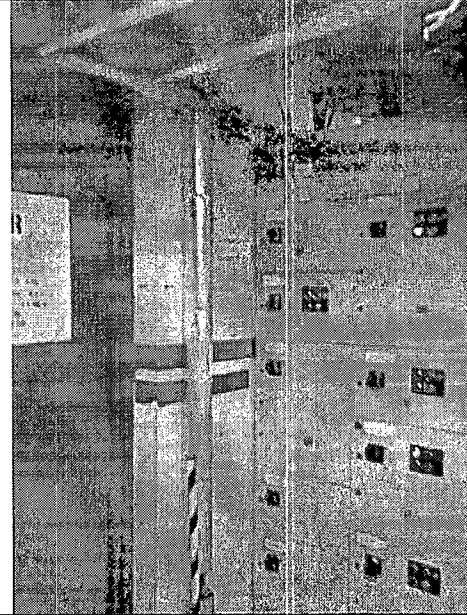
Area Walk-By Checklist (AWC) AWC- 005

Location: Bldg. RAB Floor El. 372 Room, Area 99

SWEL Components: SWEL1- 007 (B-6)



Note: Attachment of drain line to drip pan for the room cooler seen in the previous image.



Note: View of the drain line leading from the drip pan of the room cooler (previous image) to a floor drain.

Sheet 1 of 6

Status: Y N U **Area Walk-By Checklist (AWC) AWC- 006**Location: Bldg. RAB Floor El. 372 Room, Area¹ 100**SWEL Components: SWEL1- 008 (X-52), 061 (Y-03)****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

No potentially adverse seismic conditions were observed in equipment anchorage in the area.

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

Anchor bolts in surrounding equipment were observed to be ok. No cracks in the concrete were found.

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

HVAC and pipe supports appeared to be adequate and in good condition. Cable trays were not overfilled and appear to be adequately supported.

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.

Sheet 2 of 6

Status: Y N U **Area Walk-By Checklist (AWC) AWC- 006**

Location: Bldg. RAB Floor El. 372 Room, Area 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

The area appears to be free of potentially adverse seismic 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

The area appears to be 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

The area appears to be 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

No potentially adverse seismic interactions were observed.

Sheet 3 of 6

Status: Y N U

Area Walk-By Checklist (AWC) AWC- 006

Location: Bldg. RAB Floor El. 372 Room, Area 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

No other adverse seismic conditions were observed.

Comments (Additional pages may be added as necessary)

In general the area was observed to be free of degraded conditions. Anchorage appears to be in good condition.

Evaluated by: Daniel Andoh  Date: 10/12/2012

Genaro Barragan Jr.  10/12/2012

Sheet 4 of 6

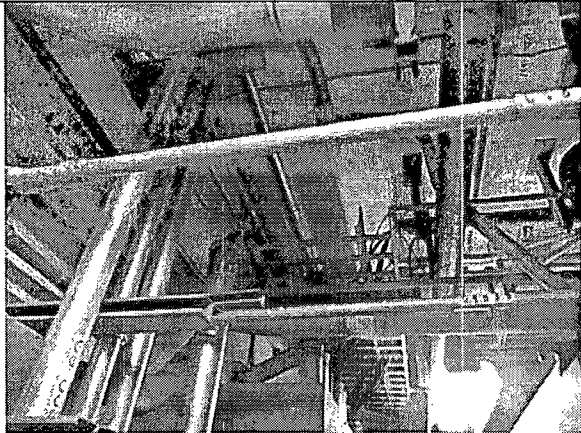
Status: Y N U

Area Walk-By Checklist (AWC) AWC- 006

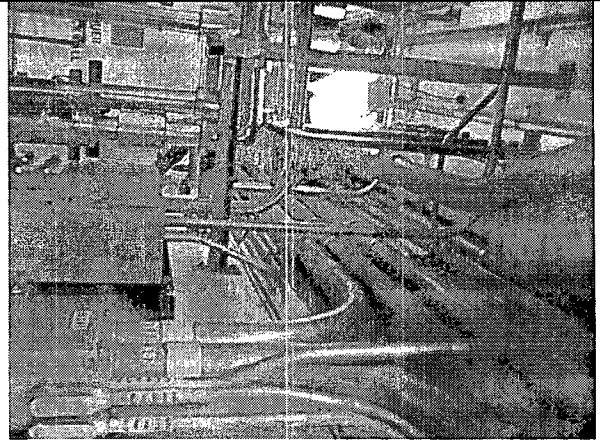
Location: Bldg. RAB Floor El. 372 Room, Area 100

SWEL Components: SWEL1- 008 (X-52), 061 (Y-03)

Photographs



Note: *Overhead supports*



Note: *Surrounding conditions*

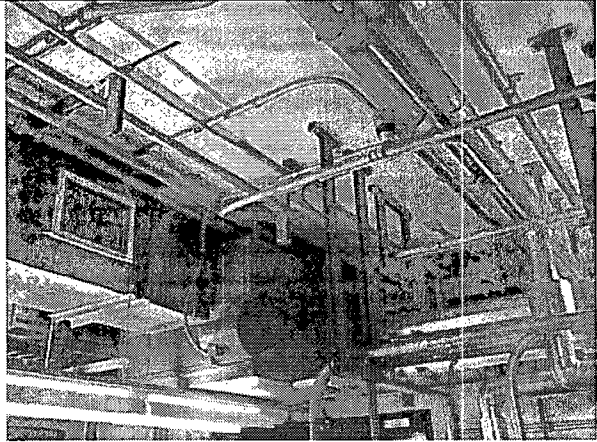
Sheet 5 of 6

Status: Y N U

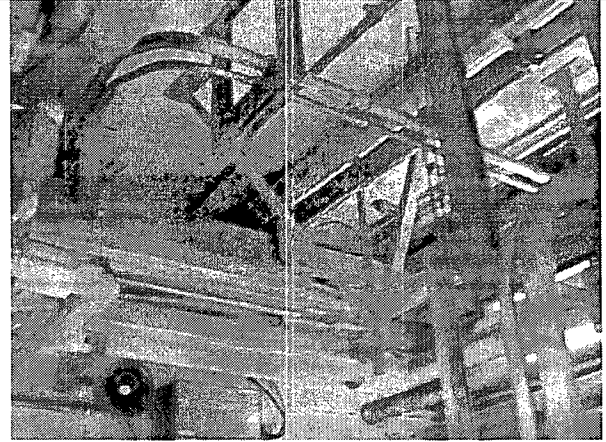
Area Walk-By Checklist (AWC) AWC- 006

Location: Bldg. RAB Floor El. 372 Room, Area 100

SWEL Components: SWEL1- 008 (X-52), 061 (Y-03)



Note: *Overhead supports*



Note: *Overhead supports*

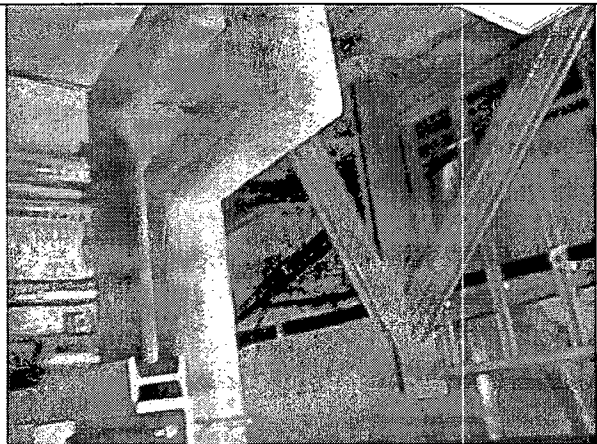
Sheet 6 of 6

Status: Y N U

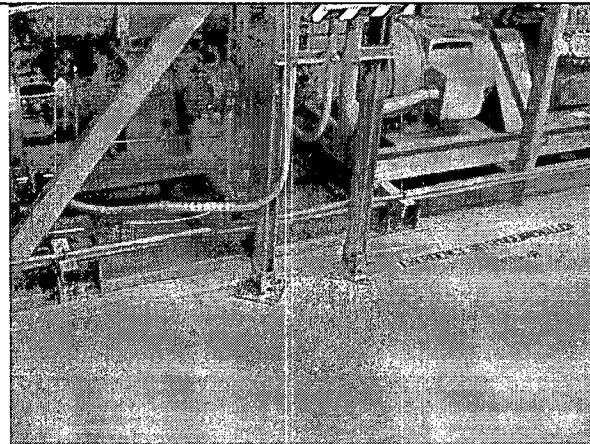
Area Walk-By Checklist (AWC) AWC- 006

Location: Bldg. RAB Floor El. 372 Room, Area 100

SWEL Components: SWEL1- 008 (X-52), 061 (Y-03)



Note: *Overhead supports*



Note: *Adjacent floor anchorages*

Sheet 1 of 5

Status: Y N U **Area Walk-By Checklist (AWC) AWC-007**Location: Bldg. DSB Floor El. YARD Room, Area¹ 252**SWEL Components: SWEL1-010 (P-16A)****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
No potential adverse anchorage issues.
2. Does anchorage of equipment in the area appear to be free of significant degraded conditions? Y N U N/A
Anchor bolts below F0-10A have significant degradation. CR-ANO-1-2012-1536 is initiated.
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
There is no tray in room, conduit supports and HVAC ducting are supported well.

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.

Sheet 2 of 5

Status: Y N U **Area Walk-By Checklist (AWC) AWC-007**Location: Bldg. DSB Floor El. YARD Room, Area² 252

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

No tiles in room, lights are supported well.

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

Large tank is a source of potential flooding also fire suppression system.

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

The only fire source is the tank in room.

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

#18 rebar laying on ground. Hose in room is secured. No other housekeeping issues identified.

² 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.

Sheet 3 of 5

Status: Y N U

Area Walk-By Checklist (AWC) AWC- 007

Location: DSB Floor El. YARD Room, Area³ 252
Bldg.

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

Rust on pipe support for fire suppression system.

Comments (Additional pages may be added as necessary)

*Degradation has been found for the anchor bolts within Item FO-10A, which needs further inspection.
Housekeeping appeared to be adequate in the area.*

Nuts on a personnel platform were loose. CR-ANO-1-2012-01537 initiated

Evaluated
by:

Roy Berryman 

Date: 10/10/2012

Michael E. Perez 

10/10/2012

³ 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.

Sheet 4 of 5

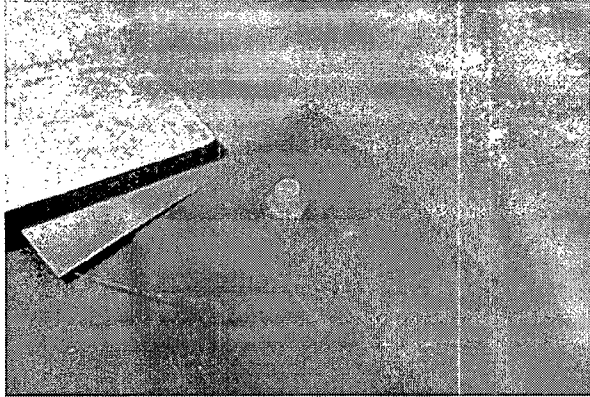
Status: Y N U

Area Walk-By Checklist (AWC) AWC-007

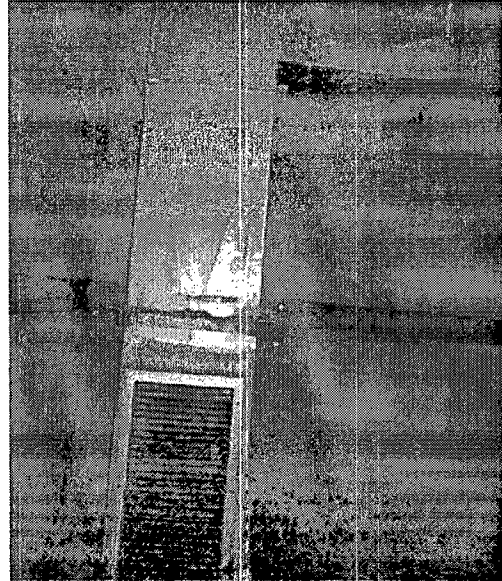
Location: Bldg. DSB Floor El. YARD Room, Area⁴ 252

SWEL Components: SWEL1-010 (P-16A)

Photographs



Note: *Anchorage in the area have been shown to be in adequate conditions.*



Note: *HVAC ducting and conduits are properly secured and free from adverse seismic conditions.*

⁴ 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.

Sheet 5 of 5

Status: Y N U

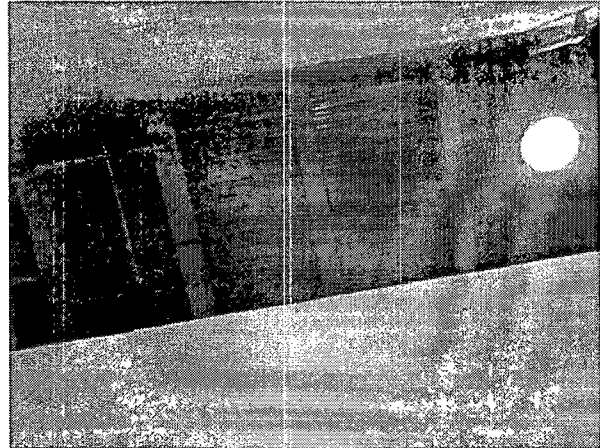
Area Walk-By Checklist (AWC) AWC- 007

Location: Bldg. DSB Floor El. YARD Room, Area⁵ 252

SWEL Components: SWEL1- 010 (P-16A)



Note: *Lighting appeared to be adequately secured in the area.*



Note: *Fire suppression system, as well as the conduit appears to be properly secured. Because there is a fire suppression system in the area, it is very unlikely that a fire hazard would cause significant damage in the area.*

⁵ 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.

Sheet 1 of 5

Status: Y N U **Area Walk-By Checklist (AWC) AWC- 008**Location: Bldg. DSB Floor El. YARD Room, Area¹ 251**SWEL Components: SWEL1- 014 (P-16B)****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
Tank equipment ID T-57B in room has an anchor bolt that appears to be bent and is not tightened fully. No other anchorage issues identified. CR-ANO-1-2012-1537 has been initiated.
2. Does anchorage of equipment in the area appear to be free of significant degraded conditions? Y N U N/A
Anchor bolts below FO-10B have significant degradation. 2 anchor bolts have significant degradation on tank (T-57B). CR-ANO-1-2012-1536 is initiated.
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
There is no tray in room, conduit supports and HVAC ducting are supported well.

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.

Sheet 2 of 5

Status: Y N U **Area Walk-By Checklist (AWC) AWC-008**Location: Bldg. DSB Floor El. YARD Room, Area² 251

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

No tiles in room, lights are supported well.

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

Large tank is a source of potential flooding also fire suppression system.

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

The only fire source is the tank in room.

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

No portable equipment in room. No other housekeeping issues identified.

² 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.

Sheet 3 of 5

Status: Y N U

Area Walk-By Checklist (AWC) AWC-008

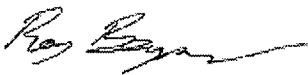
Location: DSB Floor El. YARD Room, Area³ 251
Bldg.

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

No other adverse seismic conditions were identified.

Comments (Additional pages may be added as necessary)

Most of the issues in the area occur at the anchorage of the tank. The first issue is that there is one anchor bolt that appears to be slightly bent. This may need to be adjusted (Ref. CR-ANO-1-2012-1536). The second issue is that for two anchor bolts for this fuel tank, there is significant degradation for both the steel plate and the concrete below that that is evident. All other items in the area appear to be free from potentially adverse seismic conditions.

Evaluated by: Roy Berryman  Date: 10/10/2012

Michael E. Perez  10/10/2012

³ 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.

Sheet 4 of 5

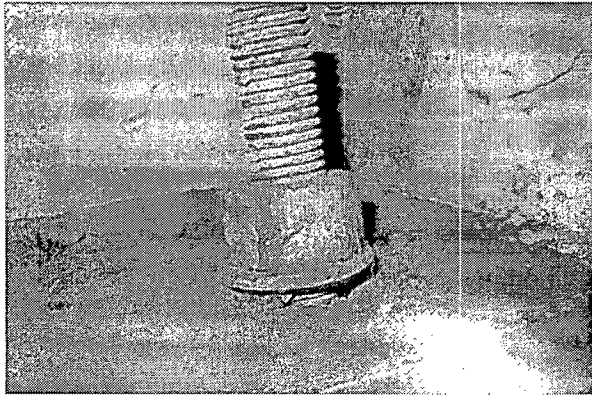
Status: Y N U

Area Walk-By Checklist (AWC) AWC- 008

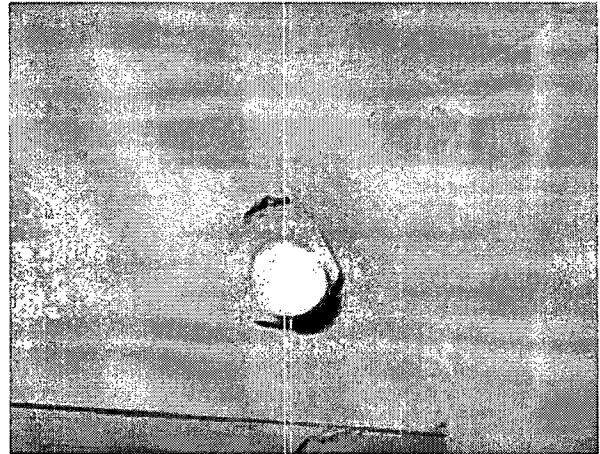
Location: Bldg. DSB Floor El. YARD Room, Area⁴ 251

SWEL Components: SWEL1- 014 (P-16B)

Photographs



Note: *There is one anchor bolt supporting the tank in the room that is slightly bent and is also not tightened fully.*



Note: *Significant degradation has been observed on two anchor bolts supporting the tank in the area. The degradation is evident in the steel plate below it.*

⁴ 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.

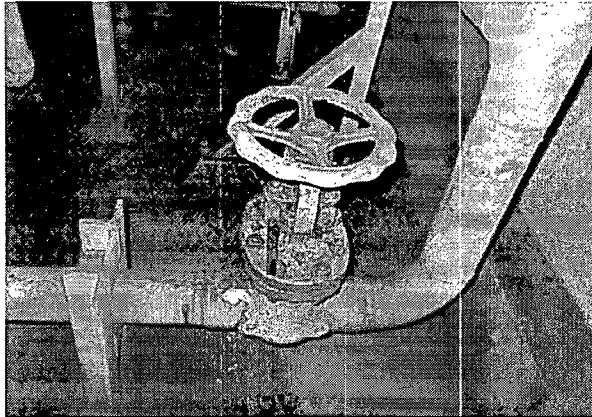
Sheet 5 of 5

Status: Y N U

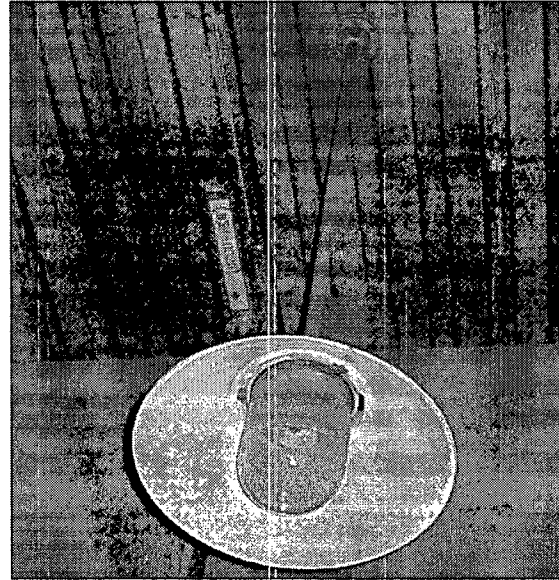
Area Walk-By Checklist (AWC) AWC- 008

Location: Bldg. DSB Floor El. YARD Room, Area⁵ 251

SWEL Components: SWEL1- 014 (P-16B)



Note: *Some degradation in the bolts for Item FO-10B is evident.*



Note: *Lighting supports in the area are properly installed.*

⁵ 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.

Sheet 1 of 5

Status: Y N U **Area Walk-By Checklist (AWC) AWC- 009**Location: Bldg. RAB Floor El. 404 Room, Area¹ 170 (Entire Room)**SWEL Components: SWEL1- 017 (PSV-2684)****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

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

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

All rigid electrical conduit is adequately anchored to the overhead and the walls. Overhead piping and ducts appear to be properly secured.

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.

Sheet 2 of 5

Status: Y N U **Area Walk-By Checklist (AWC) AWC-009**Location: Bldg. RAB Floor El. 404 Room, Area 170 (Entire Room)

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

The area appears to be free of potentially adverse seismic spatial interactions with other equipment.

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

The area appears to be free of potentially adverse seismic conditions 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

The area appears to be 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 area appears to be free of potentially adverse seismic interactions associated with housekeeping practices, storage of portable equipment, and temporary installations.

Sheet 3 of 5

Status: Y N U

Area Walk-By Checklist (AWC) AWC- 009

Location: Bldg. RAB Floor El. 404 Room, Area 170 (Entire Room)

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
- It was looked for, and no other seismic conditions that could adversely affect the safety functions of the equipment in the area were found.*

Comments (Additional pages may be added as necessary)

Room 170 was found to be in appropriate conditions. There was no issue with housekeeping practices and only mild surface oxidation was observed on the valves. The temperature in the room was high, but only due to the normal operating condition of the system.

Evaluated by: Genaro Barragan Jr.  Date: 10/9/2012

Eric Dilbone  10/9/2012

Sheet 4 of 5

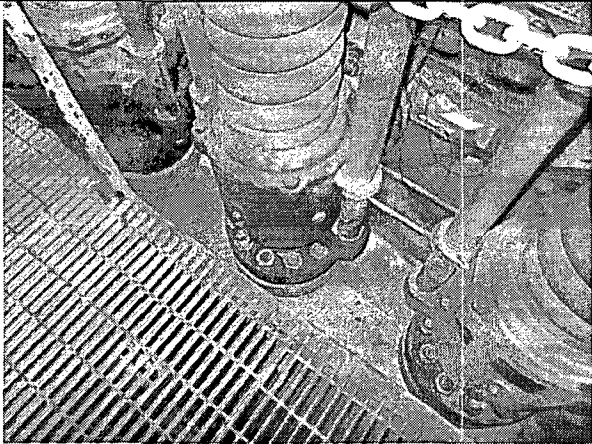
Status: Y N U

Area Walk-By Checklist (AWC) AWC- 009

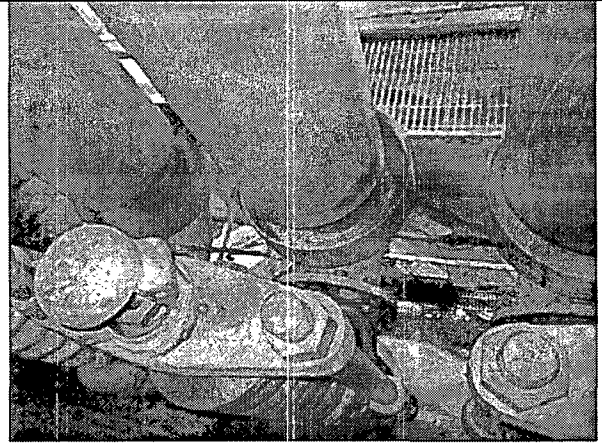
Location: Bldg. RAB Floor El. 404 Room, Area 170 (Entire Room)

SWEL Components: SWEL1- 017 (PSV-2684)

Photographs



Note: *General image of the anchorage in the area.*



Note: *General image of the anchorage in the area.*

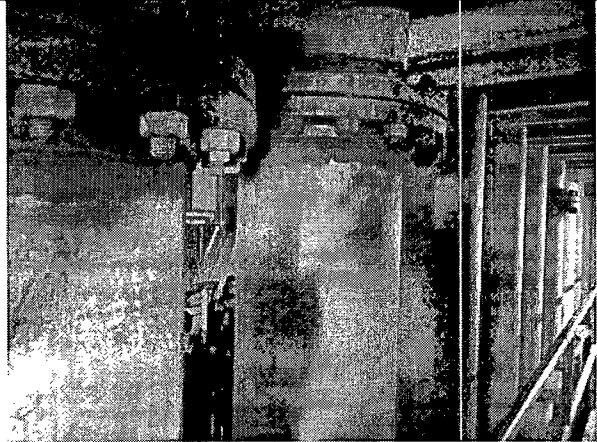
Sheet 5 of 5

Status: Y N U

Area Walk-By Checklist (AWC) AWC- 009

Location: Bldg. RAB Floor El. 404 Room, Area 170 (Entire Room)

SWEL Components: SWEL1- 017 (PSV-2684)



Note: *This image shows the different valves in the room.*



Note: *This is a general image of the area. No housekeeping concerns were observed.*

Sheet 1 of 5

Status: Y N U **Area Walk-By Checklist (AWC) AWC-010**Location: Bldg. RAB Floor El. 317 Room, Area¹ 11**SWEL Components: SWEL1-018 (CV-1432), 109 (E-35B), 033 (CV-1437)****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

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

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

All rigid electrical conduit is adequately anchored to the overhead and the walls. Overhead piping and ducts appear to be properly secured.

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.

Sheet 2 of 5

Status: Y N U **Area Walk-By Checklist (AWC) AWC- 010**

Location: Bldg. RAB Floor El. 317 Room, Area 11

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

There is one lighting fixture in the area, and it is properly secured and free from spatial interactions with other nearby equipment.

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

The area appears to be free of potentially adverse seismic conditions 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

The area appears to be 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 area appears to be free of potentially adverse seismic interactions associated with housekeeping practices, storage of portable equipment, and temporary installations.

Sheet 3 of 5

Status: Y N U

Area Walk-By Checklist (AWC) AWC-010

Location: Bldg. RAB Floor El. 317 Room, Area 11

- 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

It was looked for, and no other seismic conditions that could adversely affect the safety functions of the equipment in the area were found.

Comments (Additional pages may be added as necessary)

Equipment in the area is found to be in adequate conditions. Anchorage is free from corrosion and concrete cracks. Cables and conduits are properly installed on walls and ceilings. The temporary scaffolding found in the area has an engineering-approved tag. Good housekeeping is evident throughout the room. Overall, all items in the area are free from seismic conditions that could affect their safety functions.

Evaluated by: Daniel Andoh  Date: 10/04/2012

Michael E. Perez  10/04/2012

Sheet 4 of 5

Status: Y N U

Area Walk-By Checklist (AWC) AWC- 010

Location: Bldg. RAB Floor El. 317 Room, Area 11

SWEL Components: SWEL1- 018 (CV-1432), 109 (E-35B), 033 (CV-1437)

Photographs



Note: Anchorage in the area has been shown to be in proper conditions. No signs of corrosion and concrete cracking have been found.



Note: Cables, conduits, and pipe supports in the area are shown to be properly secured.

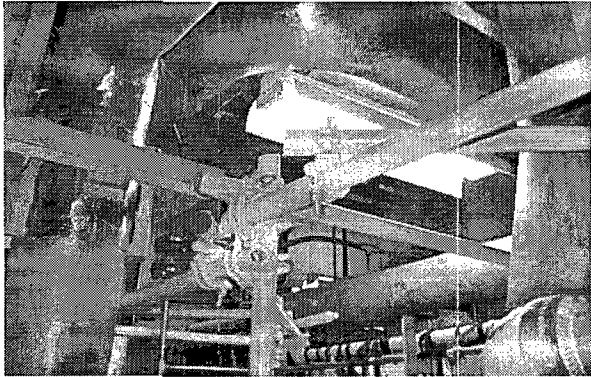
Sheet 5 of 5

Status: Y N U

Area Walk-By Checklist (AWC) AWC- 010

Location: Bldg. RAB Floor El. 317 Room, Area 11

SWEL Components: SWEL1- 018 (CV-1432), 109 (E-35B), 033 (CV-1437)



Note: *Temporary scaffolding in the area appears to be properly secured and placed in the adequate location. It is also free from damaging any nearby equipment.*

Note:

Sheet 1 of 5

Status: Y N U **Area Walk-By Checklist (AWC) AWC- 011**Location: Bldg. RAB Floor El. 317 Room, Area¹ 13**SWEL Components: SWEL1- 019 (CV-1052)****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

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

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

All rigid electrical conduit is adequately anchored to the overhead and the walls. Overhead piping and ducts appear to be properly secured.

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.

Sheet 2 of 5

Status: Y N U **Area Walk-By Checklist (AWC) AWC-011**Location: Bldg. RAB Floor El. 317 Room, Area 13

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

There several lighting fixtures in the area and they appear to be properly secured.

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

There is a drain present in the room, making it highly unlikely that flooding would to occur 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

The area appears to be 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 area appears to be free of potentially adverse seismic interactions associated with housekeeping practices, storage of portable equipment, and temporary installations.

Sheet 3 of 5

Status: Y N U

Area Walk-By Checklist (AWC) AWC- 011

Location: Bldg. RAB Floor El. 317 Room, Area 13

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

It was looked for, and no other seismic conditions that could adversely affect the safety functions of the equipment in the area were found.

Comments (Additional pages may be added as necessary)

Equipment in the area is found to be in adequate conditions. Anchorage is free from corrosion and concrete cracks. Cables and conduits are properly installed on walls and ceilings. Good housekeeping is evident throughout the room. Overall, all items in the area are free from seismic conditions that could affect their safety functions.

Evaluated by: Daniel Andoh  Date: 10/4/2012

Michael E. Perez  10/4/2012

Sheet 4 of 5

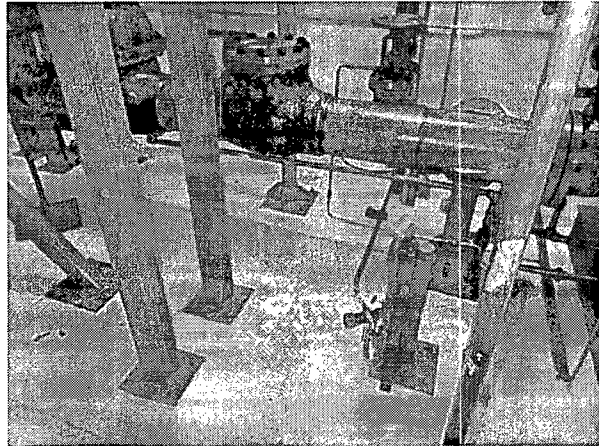
Status: Y N U

Area Walk-By Checklist (AWC) AWC-011

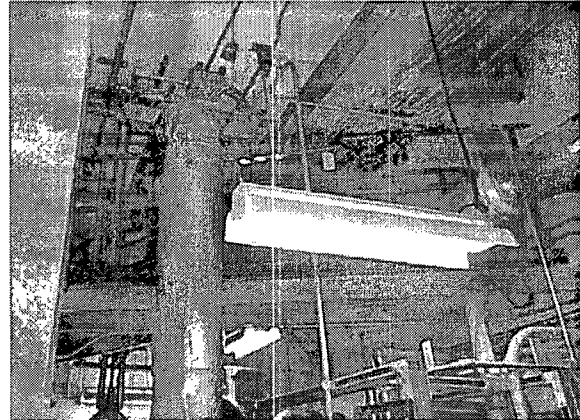
Location: Bldg. RAB Floor El. 317 Room, Area 13

SWEL Components: SWEL1-019 (CV-1052)

Photographs



Note: Anchorage in the area appears to be in good condition. No signs of corrosion and concrete cracking have been found.



Note: Cables, conduits, and pipe supports in the area appear to be properly secured. Lighting fixtures appear to be properly anchored.

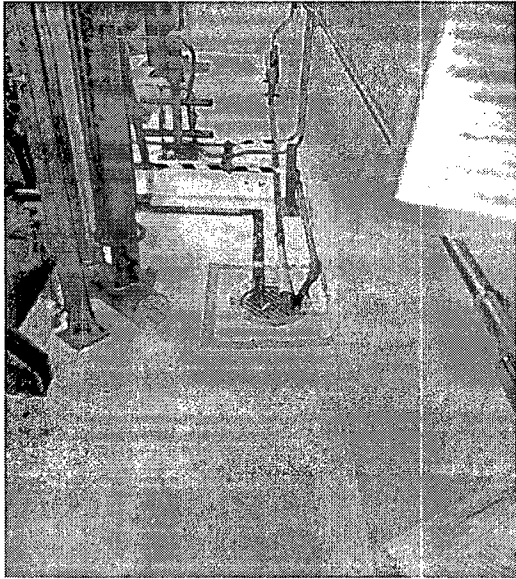
Sheet 5 of 5

Status: Y N U

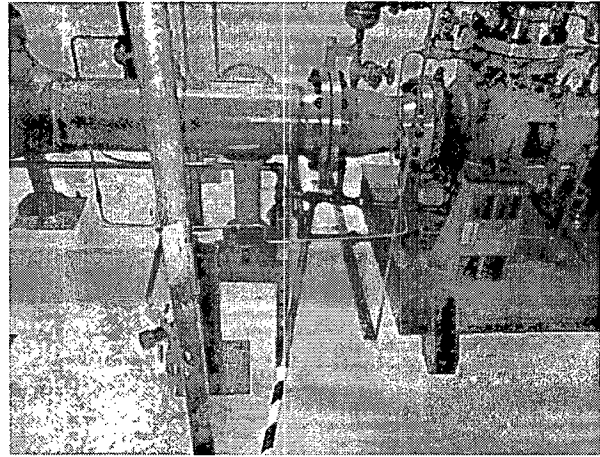
Area Walk-By Checklist (AWC) AWC- 011

Location: Bldg. RAB Floor El. 317 Room, Area 13

SWEL Components: SWEL1- 019 (CV-1052)



Note: *Floor drains are present to the area in order to mitigate flooding hazards, if they were ever to occur. This would not be the case here since all equipment items in the area do not show signs that promote these hazards.*



Note: *Good housekeeping is evident in the area.*

Sheet 1 of 5

Status: Y N U **Area Walk-By Checklist (AWC) AWC- 012**Location: Bldg. RAB Floor El. 356 Room, Area¹ 77 (Entire Room)**SWEL Components: SWEL1- 020(CV-2214), 021(CV-2233), 022(CV-2234), 036(CV-2235), 047(SV-2243B), 048(SV-2233A), 049(SV-2234B), 106(T-208)****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
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
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
All rigid electrical conduit is adequately anchored to the overhead and the walls. Overhead piping and ducts appear to be properly secured.

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.

Sheet 2 of 5

Status: Y N U **Area Walk-By Checklist (AWC) AWC- 012**

Location: Bldg. RAB Floor El. 356 Room, Area 77 (Entire Room)

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

The area appears to be free of potentially adverse seismic spatial interactions with other equipment.

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

The area appears to be free of potentially adverse seismic conditions 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

The area appears to be 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

No adverse conditions were observed related to housekeeping practices.

Sheet 3 of 5

Status: Y N U

Area Walk-By Checklist (AWC) AWC- 012

Location: Bldg. RAB Floor El. 356 Room, Area 77 (Entire Room)

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

It was looked for, and no other seismic conditions that could adversely affect the safety functions of the equipment in the area were found.

Comments (Additional pages may be added as necessary)

Evaluated by: Genaro Barragan Jr.



Date: 10/03/12

Michael E. Perez



10/03/12

Sheet 4 of 5

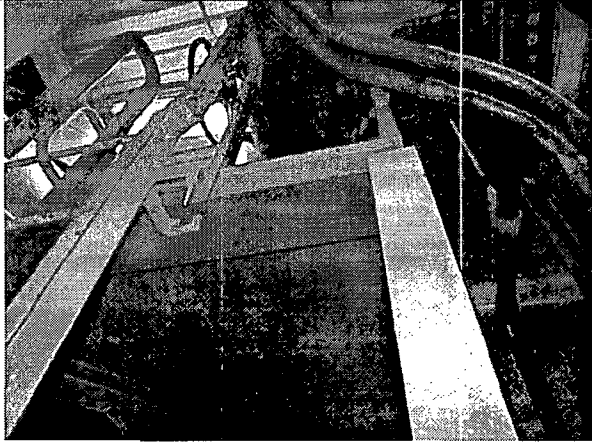
Status: Y N U

Area Walk-By Checklist (AWC) AWC- 012

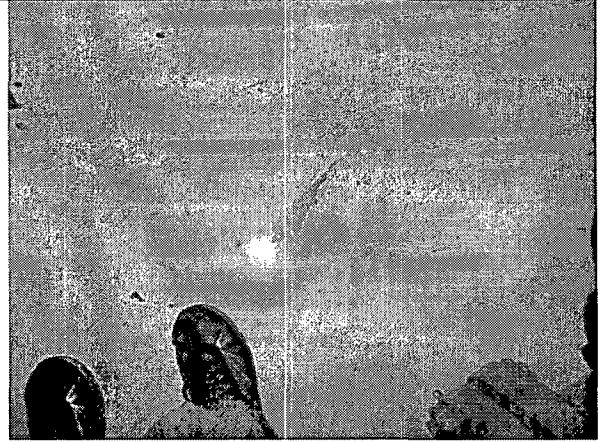
Location: Bldg. RAB Floor El. 356 Room, Area 77 (Entire Room)

SWEL Components: SWEL1- 020(CV-2214), 021(CV-2233), 022(CV-2234), 036(CV-2235), 047(SV-2243B), 048(SV-2233A), 049(SV-2234B), 106(T-208)

Photographs



Note: *Feedwater Isolation Valve had a minor leak.*



Note: *Image of the area with rust colored water from the feedwater valve overhead.*

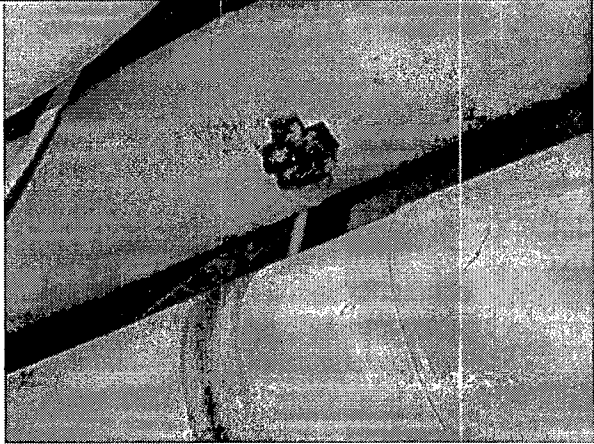
Sheet 5 of 5

Status: Y N U

Area Walk-By Checklist (AWC) AWC- 012

Location: Bldg. RAB Floor El. 356 Room, Area 77 (Entire Room)

SWEL Components: SWEL1- 020(CV-2214), 021(CV-2233), 022(CV-2234), 036(CV-2235), 047(SV-2243B), 048(SV-2233A), 049(SV-2234B), 106(T-208)



Note: *Image shows the piping in the end of the room that had some minor corrosion. This would not affect the safety functions of the system in case of seismic event.*

Note:

Sheet 1 of 5

Status: Y N U **Area Walk-By Checklist (AWC) AWC- 013**Location: Bldg. RAB Floor El. 335 Room, Area¹ 46**SWEL Components: SWEL1- 024 (CV-2620)****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
Nearby support (PI-3812A) was observed to be missing two anchor bolts. CR-ANO-1-2012-01611 initiated.
2. Does anchorage of equipment in the area appear to be free of significant degraded conditions? Y N U N/A
Anchorage present appears to be in good condition.
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
HVAC in corner of room. Appears to be in general conformance.

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.

Sheet 2 of 5

Status: Y N U **Area Walk-By Checklist (AWC) AWC-013**Location: Bldg. RAB Floor El. 335 Room, Area 46

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

Lights observed may sway. However, they would impact piping insulation, absorbing the impact. Additionally, the piping is inherently rugged when compared to the light.

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

Floor drains present. No sources of flood or spray were observed.

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

The area appears to be free of potentially adverse seismic interactions that could cause a fire.

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

No scaffolding present. Ladders observed to be secured. See image below.

Sheet 3 of 5

Status: Y N U

Area Walk-By Checklist (AWC) AWC-013

Location: Bldg. RAB Floor El. 335 Room, Area 46

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

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

Comments (Additional pages may be added as necessary)

Anchorage for support for Item PI-3812A was observed to be missing a bolt.

Evaluated by: Michael E. Perez  Date: 10/10/2012

Sean Smolarek  10/10/2012

Sheet 4 of 5

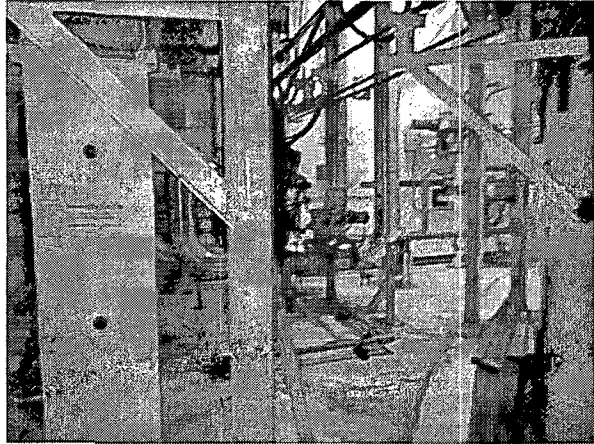
Status: Y N U

Area Walk-By Checklist (AWC) AWC- 013

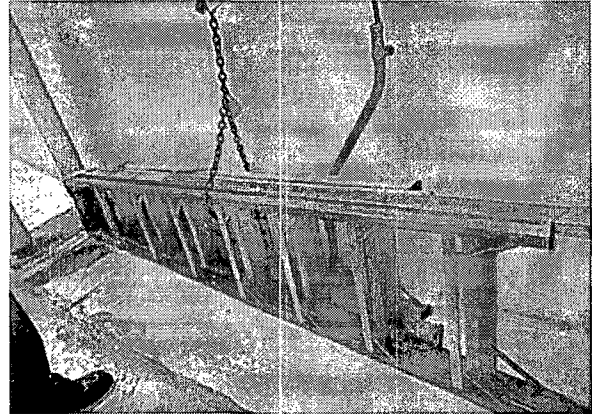
Location: Bldg. RAB Floor El. 335 Room, Area 46

SWEL Components: SWEL1- 024 (CV-2620)

Photographs



Note: *General area overview.*



Note: *Ladder adequately secured.*

Sheet 5 of 5

Status: Y N U

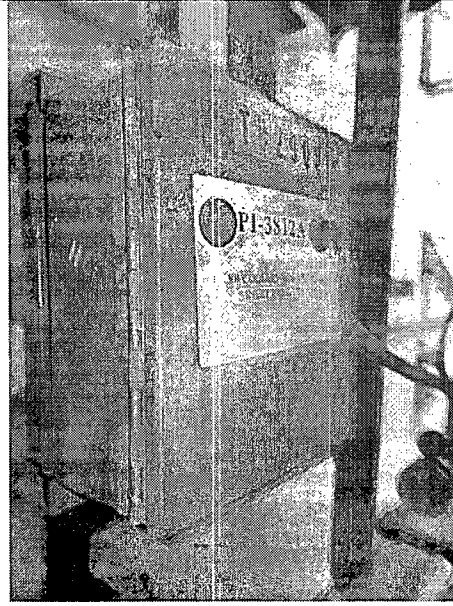
Area Walk-By Checklist (AWC) AWC- 013

Location: Bldg. RAB Floor El. 335 Room, Area 46

SWEL Components: SWEL1- 024 (CV-2620)



Note: *Support Missing Anchor Bolt*



Note: *Component with Support Missing Anchor Bolt*

Sheet 1 of 4

Status: Y N U **Area Walk-By Checklist (AWC) AWC- 014**Location: Bldg. RAB Floor El. 335 Room, Area¹ 35 (Entire Room)**SWEL Components: SWEL1- 026 (CV-2646)****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.

- | | |
|---|---|
| <p>1. Does anchorage of equipment in the area appear to be free of potentially adverse seismic conditions (if visible without necessarily opening cabinets)?</p> <p><i>Anchorage of equipment in the area appears to be free of potentially adverse seismic conditions.</i></p> | <p>Y <input checked="" type="checkbox"/> N <input type="checkbox"/> U <input type="checkbox"/> N/A <input type="checkbox"/></p> |
| <p>2. Does anchorage of equipment in the area appear to be free of significant degraded conditions?</p> <p><i>Anchorage of equipment in the area appears to be free of significant degraded conditions.</i></p> | <p>Y <input checked="" type="checkbox"/> N <input type="checkbox"/> U <input type="checkbox"/> N/A <input type="checkbox"/></p> |
| <p>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)?</p> <p><i>All rigid electrical conduit is adequately anchored to the overhead and the walls. Overhead piping and ducts appear to be properly secured.</i></p> | <p>Y <input checked="" type="checkbox"/> N <input type="checkbox"/> U <input type="checkbox"/> N/A <input type="checkbox"/></p> |

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.

Sheet 2 of 4

Status: Y N U **Area Walk-By Checklist (AWC) AWC- 014**

Location: Bldg. RAB Floor El. 335 Room, Area 35 (Entire Room)

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

Overhead fluorescent lighting was secured with chain supports. No open S hooks were observed. Nylon zip ties were present to take up excess chain.

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

The area appears to be free of potentially adverse seismic conditions 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

The area appears to be 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 area appears to be free of potentially adverse seismic interactions associated with housekeeping practices, storage of portable equipment, and temporary installations.

Sheet 3 of 4

Status: Y N U


Area Walk-By Checklist (AWC) AWC-014


Location: Bldg. RAB Floor El. 335 Room, Area 35 (Entire Room)

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
- It was looked for, and no other seismic conditions that could adversely affect the safety functions of the equipment in the area were found.*

Comments (Additional pages may be added as necessary)

Room 35 was found to be in great housekeeping practices. Area was clean and well organized.

Evaluated by: Genaro Barragan Jr.  Date: 10/9/2012

Eric Dilbone  10/9/2012

Sheet 4 of 4

Status: Y N U

Area Walk-By Checklist (AWC) AWC-014

Location: Bldg. RAB Floor El. 335 Room, Area 35 (Entire Room)

SWEL Components: SWEL1-026 (CV-2646)

Photographs



Note: *General image of the area. This room was exceptional in house-keeping practices.*

Note:

Sheet 1 of 6

Status: Y N U **Area Walk-By Checklist (AWC) AWC- 015**Location: Bldg. RAB Floor El. 354 Room, Area¹ 63 (35' Radius)**SWEL Components: SWEL1- 027 (CV-1407)****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

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

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

HVAC ductwork is in good condition.

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.

Sheet 2 of 6

Status: Y N U **Area Walk-By Checklist (AWC) AWC-015**Location: Bldg. RAB Floor El. 354 Room, Area 63

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

Open S-hooks on light over 1A3-1101 next to GCH-43. Open S-hooks were observed above cabinet C115. This must be corrected to meet the IPEEE commitments. CR-ANO-1-2012-01613 initiated.

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 Piping is present. Drains are on the adjacent concrete, but grating is below the component such that any water released would flow down to the lower levels.

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

The area appears to be free of potentially adverse seismic interactions that could cause a fire.

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

Ladder was secured. Computer stored nearby, but could not fall onto safety related equipment.

Sheet 3 of 6

Status: Y N U

Area Walk-By Checklist (AWC) AWC- 015

Location: Bldg. RAB Floor El. 354 Room, Area 63

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

It was looked for, and no other seismic conditions that could adversely affect the safety functions of the equipment in the area were found.

Comments (Additional pages may be added as necessary)

Seismic block walls (6-B-45 and 6-B-49) were observed in the area.

Evaluated by: Michael E. Perez  Date: 10/10/2012

Sean Smolarek  10/10/2012

Sheet 4 of 6

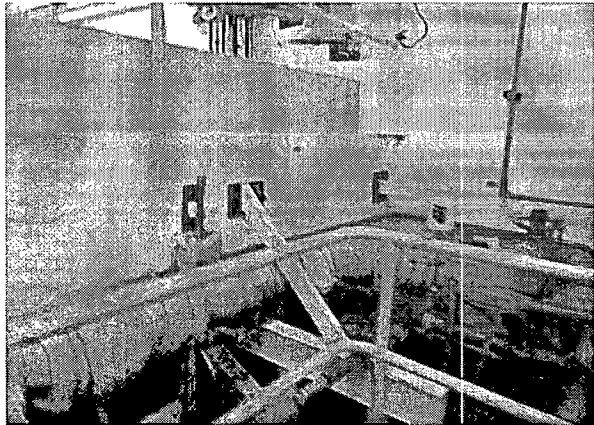
Status: Y N U

Area Walk-By Checklist (AWC) AWC- 015

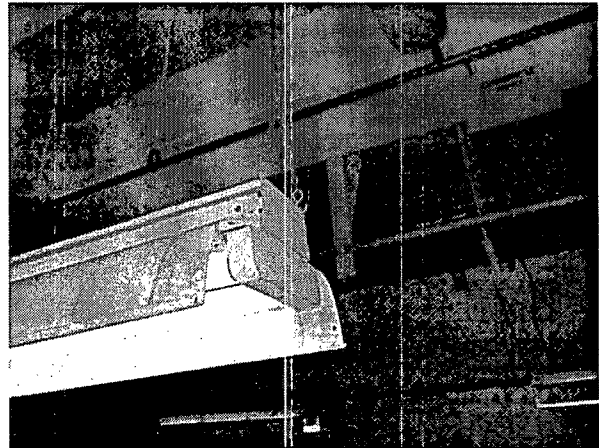
Location: Bldg. RAB Floor El. 354 Room, Area 63

SWEL Components: SWEL1- 027 (CV-1407)

Photographs



Note: *General Area*



Note: *There appear to be some open S-hooks on some of the lighting fixtures in the area.*

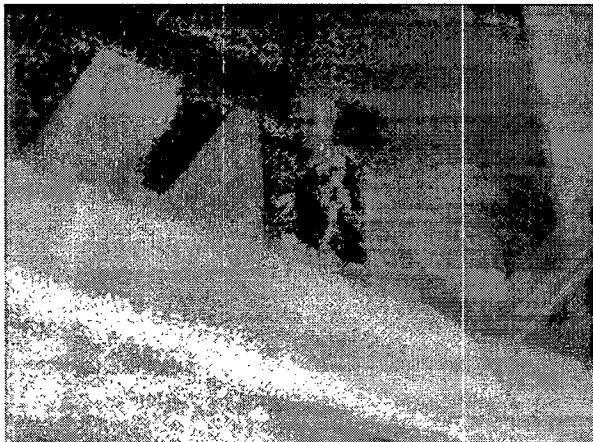
Sheet 5 of 6

Status: Y N U

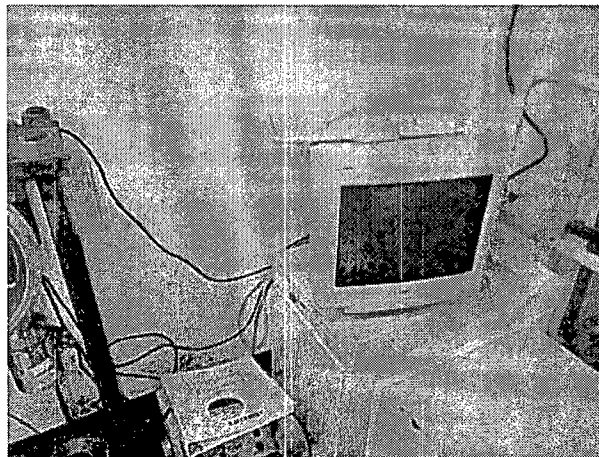
Area Walk-By Checklist (AWC) AWC- 015

Location: Bldg. RAB Floor El. 354 Room, Area 63

SWEL Components: SWEL1- 027 (CV-1407)



Note: *There is an open S-hook for one lighting fixture that is above Cabinet C115 in the area. This can easily collapse onto the cabinet during a seismic hazard.*



Note: *Computer stored in area*

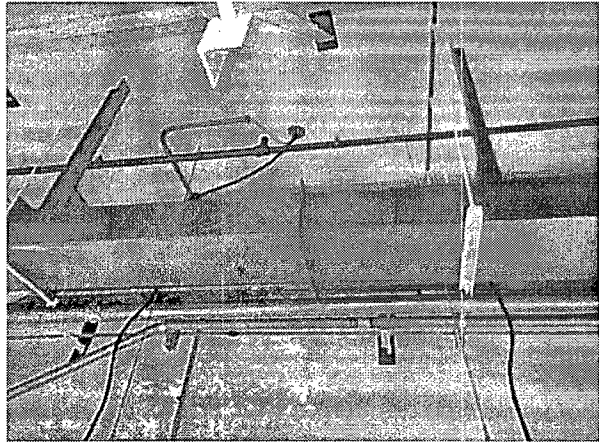
Sheet 6 of 6

Status: Y N U

Area Walk-By Checklist (AWC) AWC- 015

Location: Bldg. RAB Floor El. 354 Room, Area 63

SWEL Components: SWEL1- 027 (CV-1407)



Note: *HVAC ducts and fire piping*

Note:

Sheet 1 of 5

Status: Y N U **Area Walk-By Checklist (AWC) AWC- 016**Location: Bldg. RAB Floor El. 372 Room, Area¹ 94**SWEL Components: SWEL1- 028 (CV-1300)****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

No adverse seismic conditions were observed in anchorage

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

No significant degraded conditions were observed in the area

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

HVAC and conduit appear to be in good condition

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.

Sheet 2 of 5

Status: Y N U

Area Walk-By Checklist (AWC) AWC-016

Location: Bldg. RAB Floor El. 372 Room, Area 94

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

An open S-hook was observed. However, if this light were to fall, it would fall to a Unistrut support.

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

No fire piping observed.

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

No sources of fire were observed.

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

No temporary installations were observed.

Sheet 3 of 5

Status: Y N U


Area Walk-By Checklist (AWC) AWC-016

Location: Bldg. RAB Floor El. 372 Room, Area 94

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

No other adverse seismic conditions were observed

Comments (Additional pages may be added as necessary)

Evaluated by: Michael Perez  Date: 10/10/2012

Sean Smolarek  10/10/2012

Sheet 4 of 5

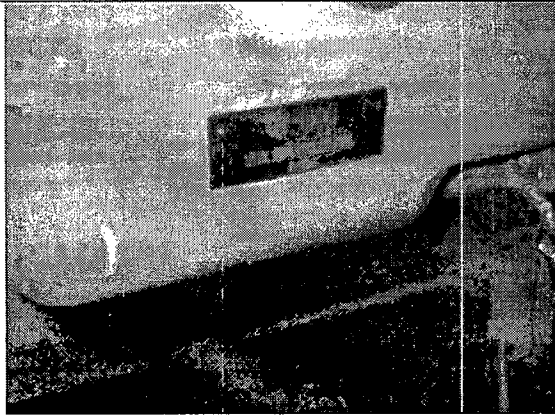
Status: Y N U

Area Walk-By Checklist (AWC) AWC- 016

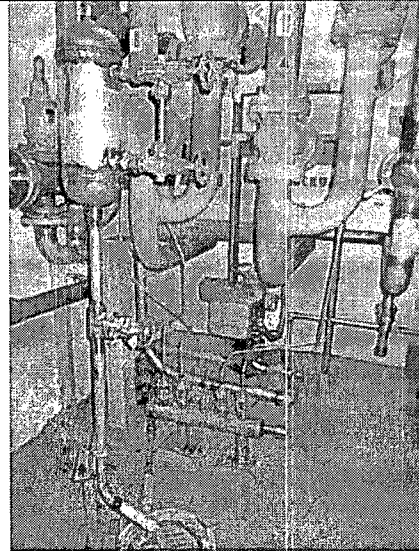
Location: Bldg. RAB Floor El. 372 Room, Area 94

SWEL Components: SWEL1- 028 (CV-1300)

Photographs



Note: CV-1300



Note: Approximate area of AWC

Sheet 5 of 5

Status: Y N U

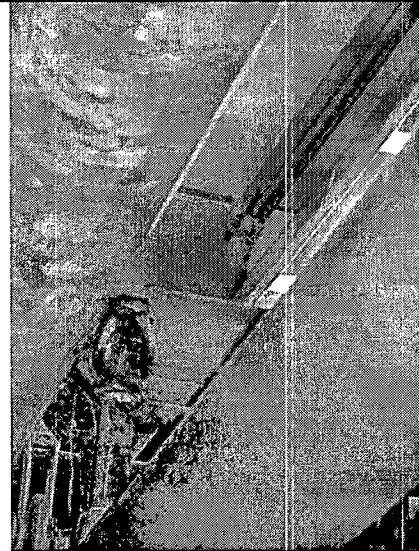
Area Walk-By Checklist (AWC) AWC- 016

Location: Bldg. RAB Floor El. 372 Room, Area 94

SWEL Components: SWEL1- 028 (CV-1300)



Note: *Observe anchorage in good condition*



Note: *Observe overhead*

Sheet 1 of 4

Status: Y N U **Area Walk-By Checklist (AWC) AWC-017**Location: Bldg. RAB Floor El. 360 Room, Area¹ 79 (Entire Room)**SWEL Components: SWEL1- 029 (CV-1220), 042 (CV-1206), 051 (SV-1818), 034 (1227)****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

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

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

All rigid electrical conduit is adequately anchored to the overhead and the walls. Overhead piping and ducts appear to be properly secured.

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.

Sheet 2 of 4

Status: Y N U **Area Walk-By Checklist (AWC) AWC-017**Location: Bldg. RAB Floor El. 360 Room, Area 79 (Entire Room)

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

Light above CV-1206 has an open S-hook. This hook must be closed to meet an IPEEE commitment. CR-ANO-1-2012-01613 initiated.

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

The area appears to be free of potentially adverse seismic conditions 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

The area appears to be 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 area appears to be free of potentially adverse seismic interactions associated with housekeeping practices, storage of portable equipment, and temporary installations.

Sheet 3 of 4

Status: Y N U

Area Walk-By Checklist (AWC) AWC- 017

Location: Bldg. RAB Floor El. 360 Room, Area 79 (Entire Room)

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

It was looked for, and no other seismic conditions that could adversely affect the safety functions of the equipment in the area were found.

Comments (Additional pages may be added as necessary)

The only finding was an open S-hook right above CV-1206. The rest of the area is in appropriate condition.

Evaluated by: Genaro Barragan Jr.



Date: 10/9/2012

Eric Dilbone



10/9/2012

Sheet 4 of 4

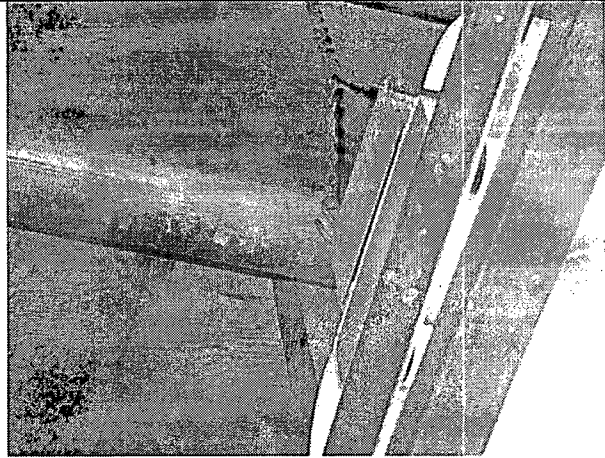
Status: Y N U

Area Walk-By Checklist (AWC) AWC- 017

Location: Bldg. RAB Floor El. 360 Room, Area 79 (Entire Room)

SWEL Components: SWEL1- 029 (CV-1220), 042 (CV-1206), 051 (SV-1818), 034 (1227)

Photographs



Note: *Light above CV-1206 has an open S-hook.*

Note:

Sheet 1 of 7

Status: Y N U **Area Walk-By Checklist (AWC) AWC-018**

Location: Bldg. INTAKE Floor El. 354 Room, Area¹ 241(Entire Room)
BLDG

SWEL Components: SWEL1-040 (CV-3646)**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
No adverse anchorage conditions were observed in the area
2. Does anchorage of equipment in the area appear to be free of significant degraded conditions? Y N U N/A
Minor corrosion was identified in the lower level on several components. The conduits attached to the WEST wall (near the floor) had minor corrosion. Also in the lower level, the anchorage for component HBD-14-H49 had signs of minor corrosion. See images in Sheet 4.
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
No adverse seismic conditions were observed for cable/conduit raceways and HVAC.

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.

Sheet 2 of 7

Status: Y N U

Area Walk-By Checklist (AWC) AWC- 018

Location: Bldg. INTAKE Floor El. 354 Room, Area 241(Entire Room)
BLDG

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

There is no other equipment in the area that could cause potentially adverse seismic spatial interactions.

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

Located in the intake structure. Water is present below the structure and within components in the structure. These do not represent credible sources.

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

Area heaters were observed to be approximately 6 ft above the slab. No sources of ignition were present

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

No conditions were observed

Sheet 3 of 7

Status: Y N U

Area Walk-By Checklist (AWC) AWC- 018

Location: Bldg. INTAKE Floor El. 354 Room, Area 241(Entire Room)
BLDG

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

No other seismic conditions were observed

Comments (Additional pages may be added as necessary)

Two components in the lower level of the intake building were found to have minor issues with corrosion. The anchorage for the conduit on the WEST wall near the floor was corroded. Also, the anchorage for equipment item HBD-14-H49 had corrosion. The corroded anchorages for the conduit and equipment item HBD-14-H49 are believed to not be a current seismic concern.

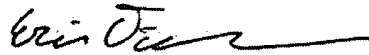
The light in the upper level of the intake building near P-4A service water pump contained an open S-hook.

Evaluated by: Genaro Barragan Jr.



Date: 10/9/2012

Eric Dilbone



10/9/2012

Sheet 4 of 7

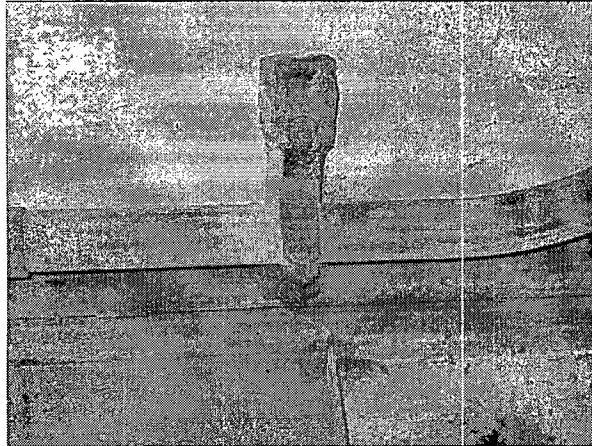
Status: Y N U

Area Walk-By Checklist (AWC) AWC- 018

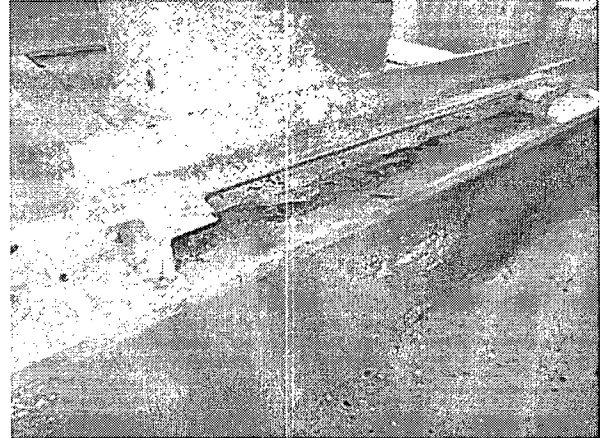
Location: Bldg. INTAKE Floor El. 354 Room, Area 241(Entire Room)
BLDG

SWEL Components: SWEL1- 046 (CV-3646)

Photographs



Note: *This image shows the conduits anchored to the WEST wall near the floor. It is evident through this image that there is a corrosion issue on this anchorage. This conduit is found in the lower level of the intake building.*



Note: *The anchorage for component HBD-14-H49 had signs of corrosion. This item is found in the lower level of the intake building.*

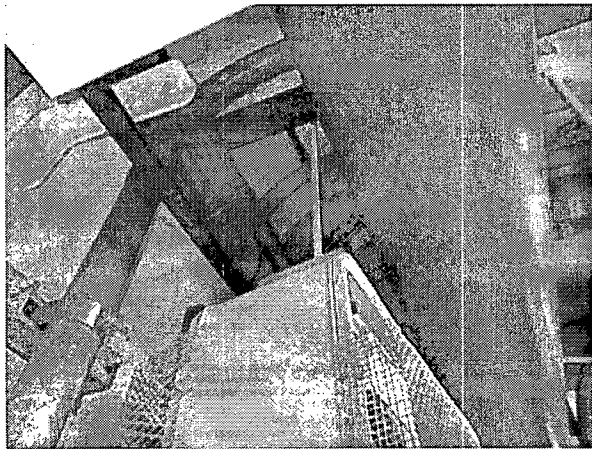
Sheet 5 of 7

Status: Y N U

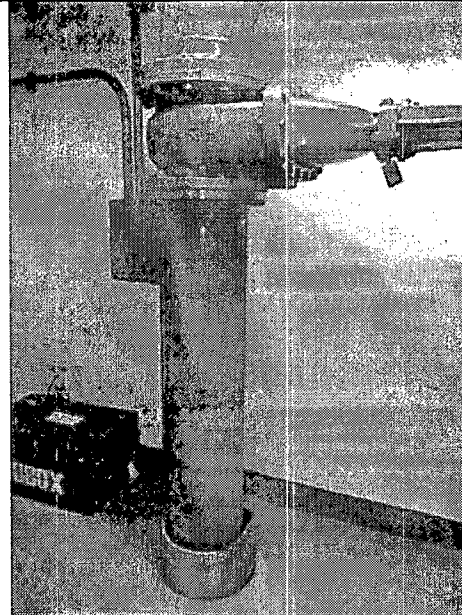
Area Walk-By Checklist (AWC) AWC- 018

Location: Bldg. INTAKE Floor El. 354 Room, Area 241(Entire Room)
BLDG

SWEL Components: SWEL1- 046 (CV-3646)



Note: *General image of the lower level. All other anchorage in the area was identified to be free of potentially adverse seismic conditions.*



Note: *General image of the lower level of the intake building. Area was free of adverse seismic conditions associated with house-keeping practices. Room was clean and well maintained.*

Sheet 6 of 7

Status: Y N U

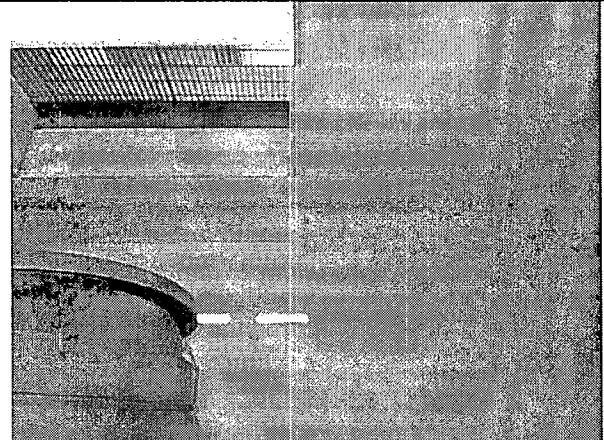
Area Walk-By Checklist (AWC) AWC- 018

Location: Bldg. INTAKE Floor El. 354 Room, Area 241(Entire Room)
BLDG

SWEL Components: SWEL1- 046 (CV-3646)



Note: General image showing a crack in the grout pad. Item is found in upper level of the intake building, below P-4A service water pump. Ruled to not be a seismic concern.



Note: General image showing a crack in a ceiling-wall intersection. Found in the upper level near southwest wall. This crack does not pose any seismic concerns.

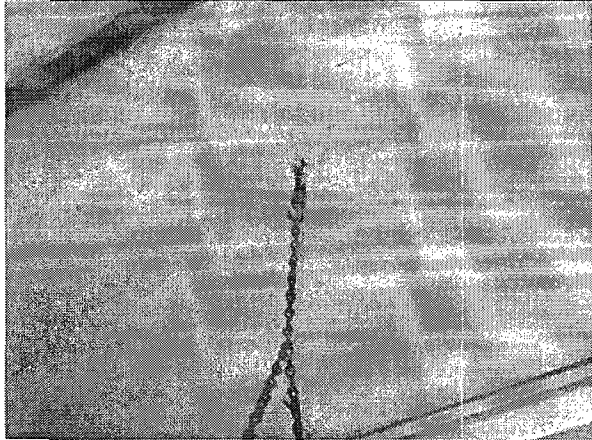
Sheet 7 of 7

Status: Y N U

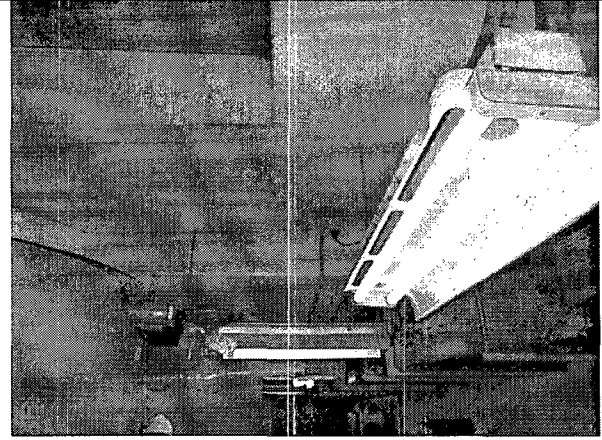
Area Walk-By Checklist (AWC) AWC- 018

Location: Bldg. INTAKE Floor El. 354 Room, Area 241(Entire Room)
BLDG

SWEL Components: SWEL1- 046 (CV-3646)



Note: Image shows an open S-hook near the P-4A service water pump.



Note: General image of the upper level of the intake building.

Sheet 1 of 5

Status: Y N U **Area Walk-By Checklist (AWC) AWC-019**Location: Bldg. RAB Floor El. 335 Room, Area¹ 34 (Entire Room)**SWEL Components: SWEL1- 041 (CV-3850), 044 (CV-3851)****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

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

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

All rigid electrical conduit is adequately anchored to the overhead and the walls. Overhead piping and ducts appear to be properly secured.

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.

Sheet 2 of 5

Status: Y N U **Area Walk-By Checklist (AWC) AWC- 019**Location: Bldg. RAB Floor El. 335 Room, Area 34 (Entire Room)

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

There was a light near valve CV-3851 & CV-3050 (right around the corner-SOUTH) that was attached with zip-ties. There was also a free rigid support on the ceiling, as well as a miscellaneous rod coming out of the ceiling (discovered near the entrance to room 34). Lighting appeared to have closed s-hooks in all observed cases.

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

The area appears to be free of potentially adverse seismic conditions 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

The area appears to be 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 area appears to be free of potentially adverse seismic interactions associated with housekeeping practices, storage of portable equipment, and temporary installations.

Sheet 3 of 5

Status: Y N U

Area Walk-By Checklist (AWC) AWC- 019

Location: Bldg. RAB Floor El. 335 Room, Area 34 (Entire Room)

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

It was looked for, and no other seismic conditions that could adversely affect the safety functions of the equipment in the area were found.

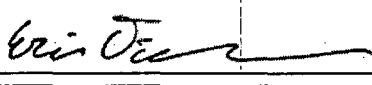
Comments (Additional pages may be added as necessary)

To summarize the findings in this room:

- *Light attached with zip-ties near SOUTH side of room.*
- *Free rigid support hanging from ceiling*

See images below.

Evaluated by: Genaro Barraagan Jr.  Date: 10/9/2012

Eric Dilbone  10/9/2012

Sheet 4 of 5

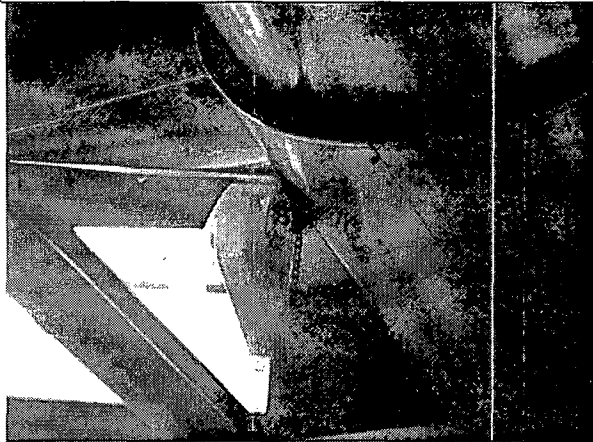
Status: Y N U

Area Walk-By Checklist (AWC) AWC- 019

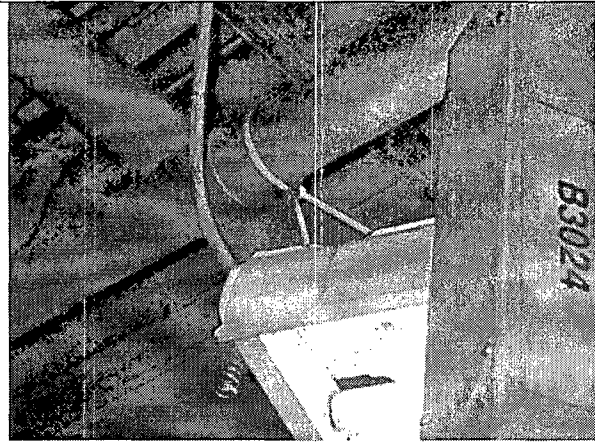
Location: Bldg. RAB Floor El. 335 Room, Area 34 (Entire Room)

SWEL Components: SWEL1- 041 (CV-3850), 044 (CV-3851)

Photographs



Note: *This light near the SOUTH side of room was making contact with the insulation on the pipe shown.*



Note: *Image shows the light that was supported with zip-ties near the SOUTH side of room 34.*

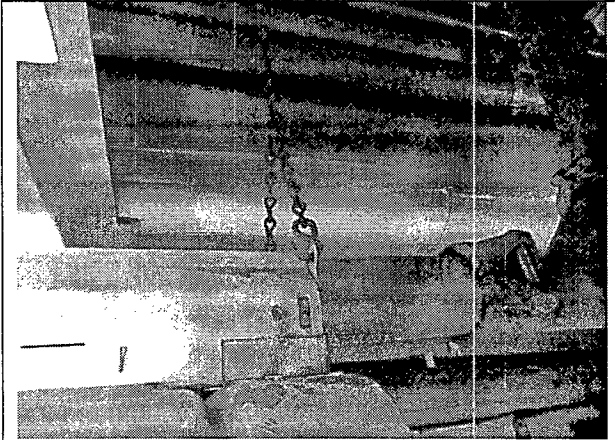
Sheet 5 of 5

Status: Y N U

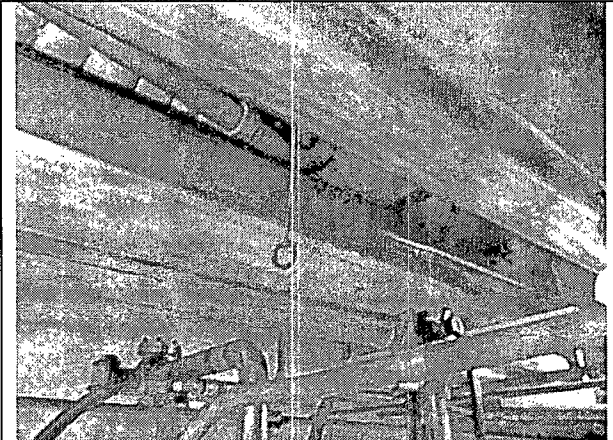
Area Walk-By Checklist (AWC) AWC- 019

Location: Bldg. RAB Floor El. 335 Room, Area 34 (Entire Room)

SWEL Components: SWEL1- 041 (CV-3850), 044 (CV-3851)



Note: *Light above 2F-295 S-hook.*



Note: *Image shows the free rigid support hanging from the ceiling. Although this is not a seismic hazard, it is not supporting any equipment.*

Sheet 1 of 5

Status: Y N U **Area Walk-By Checklist (AWC) AWC-020**Location: Bldg. RAB Floor El. 386 Room, Area¹ 258**SWEL Components: SWEL1-052 (VEF-24A)****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
No adverse seismic conditions were observed.
2. Does anchorage of equipment in the area appear to be free of significant degraded conditions? Y N U N/A
Mild cracks and spalling concrete was observed at the opening around the exhaust pipe. This is judged not to be an adverse seismic condition as the conditions are minor.
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
Conduits appear to be adequately supported. Steel supports for grating above appear to be in good condition.

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.

Sheet 2 of 5

Status: Y N U **Area Walk-By Checklist (AWC) AWC- 020**

Location: Bldg. RAB Floor El. 386 Room, Area 258

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

No adverse seismic spatial interactions were observed.

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

No source of flooding was observed. A floor drain was observed in the vicinity.

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

No credible sources of fire located within 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

No adverse seismic interactions associated with temporary installations were identified.

Sheet 3 of 5

Status: Y N U

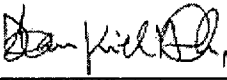
Area Walk-By Checklist (AWC) AWC-020

Location: Bldg. RAB Floor El. 386 Room, Area 258

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

No other adverse seismic conditions were observed.

Comments (Additional pages may be added as necessary)

Evaluated by: Daniel Andoh  Date: 10/10/2012

Genaro Barragan Jr.  10/10/2012

Sheet 4 of 5

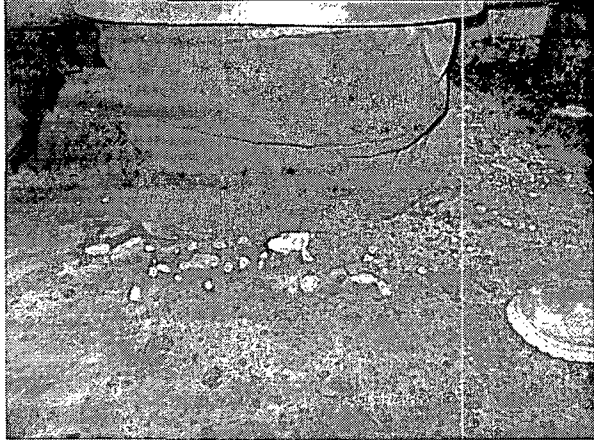
Status: Y N U

Area Walk-By Checklist (AWC) AWC- 020

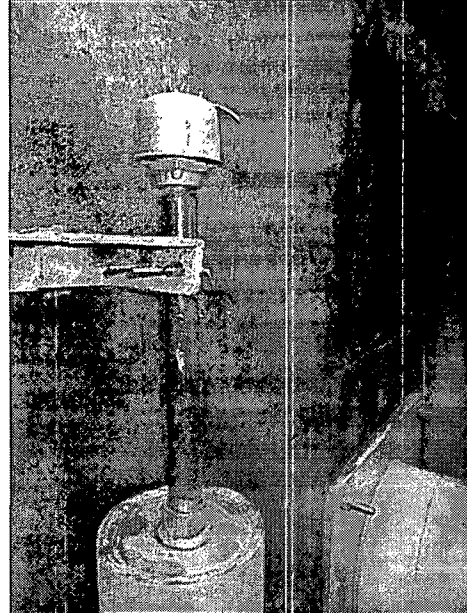
Location: Bldg. RAB Floor El. 386 Room, Area 258

SWEL Components: SWEL1- 052 (VEF-24A)

Photographs



Note: Concrete spalling onto floor from deteriorated conditions at penetration above.



Note: Flame arrestor with oil spray marks on wall.

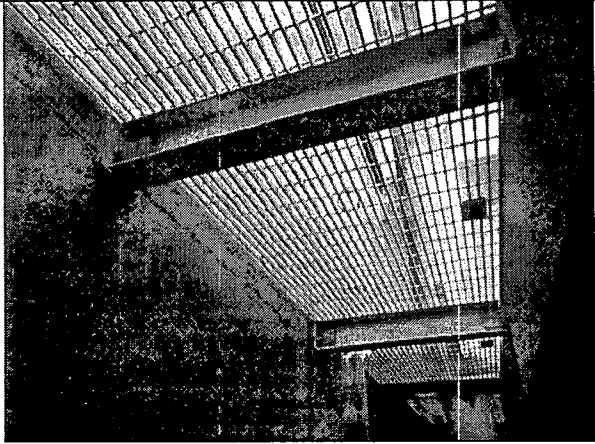
Sheet 5 of 5

Status: Y N U

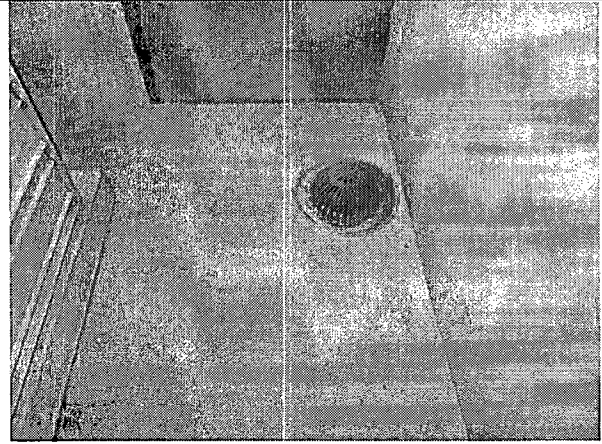
Area Walk-By Checklist (AWC) AWC- 020

Location: Bldg. RAB Floor El. 386 Room, Area 258

SWEL Components: SWEL1- 052 (VEF-24A)



Note: *Grating support.*



Note: *Floor drain.*

Sheet 1 of 4

Status: Y N U

Area Walk-By Checklist (AWC) AWC- 021

Location: Bldg. RAB Floor El. 372 Room, Area¹ 95

SWEL Components: SWEL1- 059 (RA-2)

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

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

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

All rigid electrical conduit is adequately anchored to the overhead and the walls. Overhead piping and ducts appear to be properly secured.

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.

Sheet 2 of 4

Status: Y N U **Area Walk-By Checklist (AWC) AWC-021**Location: Bldg. RAB Floor El. 372 Room, Area 95

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

There were no ceiling tiles in the room, and lighting is supported with chains and closed S-hooks.

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

It was observed that there was a room cooler mounted overhead in the room. The room cooler has chilled water running through it, and contains a drip pan and drain line to a floor drain.

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

The area appears to be 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 area appears to be free of potentially adverse seismic interactions associated with housekeeping practices, storage of portable equipment, and temporary installations.

Sheet 3 of 4

Status: Y N U

Area Walk-By Checklist (AWC) AWC-021


Location: Bldg. RAB Floor El. 372 Room, Area 95

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

It was looked for, and there no other seismic conditions that could adversely affect the safety functions of the equipment in the area were found.

Comments (Additional pages may be added as necessary)

Evaluated by: Daniel Parker  Date: 10/11/2012

Eric Dilbone  10/11/2012

Sheet 4 of 4

Status: Y N U

Area Walk-By Checklist (AWC) AWC-021

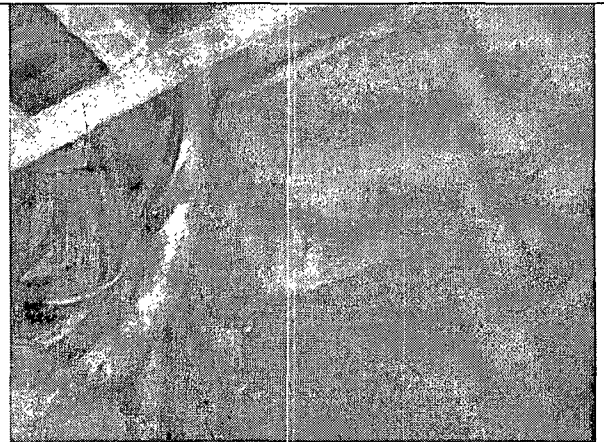
Location: Bldg. RAB Floor El. 372 Room, Area 95

SWEL Components: SWEL1-059 (RA-2)

Photographs



Note: View of panel RA-2 in Room 95.



Note: View of cables and conduit in the overhead.

Sheet 1 of 5

Status: Y N U

Area Walk-By Checklist (AWC) AWC- 022

Location: Bldg. RAB Floor El. 372 Room, Area¹ 110

SWEL Components: SWEL1- 060 (D-07)

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
Conduit supports on walls appear to be adequate and in good condition.

2. Does anchorage of equipment in the area appear to be free of significant degraded conditions? Y N U N/A
No degraded conditions were observed in the anchorages.

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
HVAC and conduit supports including light supports appear to be adequate and in good condition.

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.

Sheet 2 of 5

Status: Y N U

Area Walk-By Checklist (AWC) AWC- 022

Location: Bldg. RAB Floor El. 372 Room, Area 110

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

No potentially adverse seismic spatial interactions were observed.

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

No potential sources of flooding were observed.

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

No adverse seismic fire conditions were observed.

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

Sheet 3 of 5

Status: Y N U

Area Walk-By Checklist (AWC) AWC- 022

Location: Bldg. RAB Floor El. 372 Room, Area 110


- 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

No other adverse seismic conditions were observed.

Comments (Additional pages may be added as necessary)

No adverse seismic conditions were observed.

Evaluated by: Daniel Andoh  Date: 10/16/2012

Genaro Barragan Jr.  10/16/2012

Sheet 4 of 5

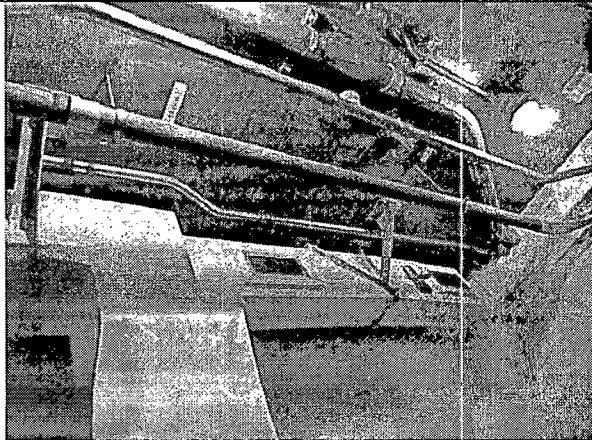
Status: Y N U

Area Walk-By Checklist (AWC) AWC- 022

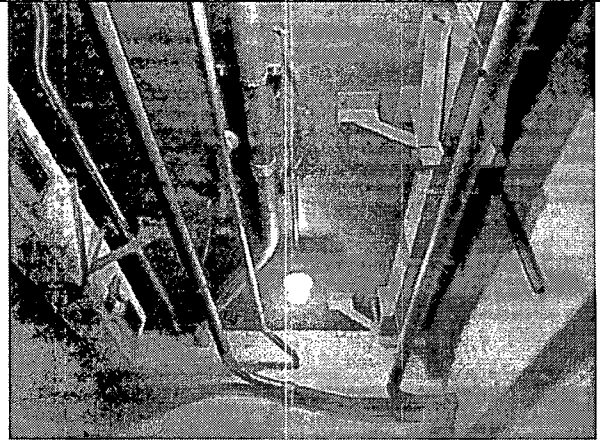
Location: Bldg. RAB Floor El. 372 Room, Area 110

SWEL Components: SWEL1- 060 (D-07)

Photographs



Note: *Overhead HVAC and conduit supports.*



Note: *Overhead HVAC and conduit supports.*

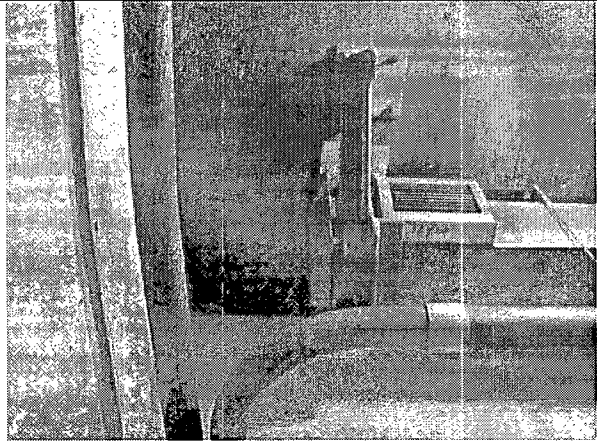
Sheet 5 of 5

Status: Y N U

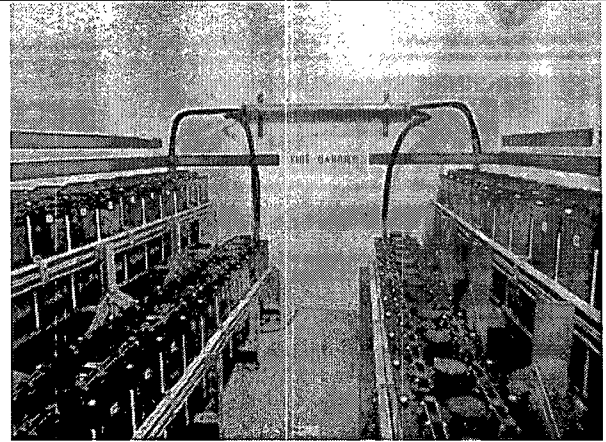
Area Walk-By Checklist (AWC) AWC- 022

Location: Bldg. RAB Floor El. 372 Room, Area 110

SWEL Components: SWEL1- 060 (D-07)



Note: HVAC steel supports.



Note: Conduit supports.

Sheet 1 of 5

Status: Y N U

Area Walk-By Checklist (AWC) AWC- 023

Location: Bldg. RAB Floor El. 372 Room, Area¹ 98

SWEL Components: SWEL1- 070 (D14)

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
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
No significant degraded conditions were observed.

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 trays were observed to have adequate fill, and were properly supported. HVAC ducts and conduits appeared to be adequately supported.

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.

Sheet 2 of 5

Status: Y N U**Area Walk-By Checklist (AWC) AWC- 023**

Location: Bldg. RAB Floor El. 372 Room, Area 98

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

No adverse seismic spatial interactions were observed.

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

No flooding or spray sources were observed 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

The area appears to be free of potentially adverse seismic interactions that could cause a fire.

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

Sheet 3 of 5

Status: Y N U

Area Walk-By Checklist (AWC) AWC- 023


Location: Bldg. RAB Floor El. 372 Room, Area 98

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

No other adverse seismic conditions were observed.

Comments (Additional pages may be added as necessary)

Evaluated by: Daniel Andoh  Date: 10/10/2012

Genaro Barragan Jr.  10/10/2012

Sheet 4 of 5

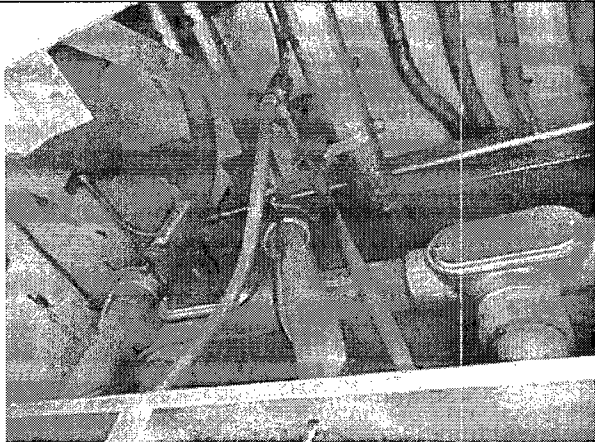
Status: Y N U

Area Walk-By Checklist (AWC) AWC- 023

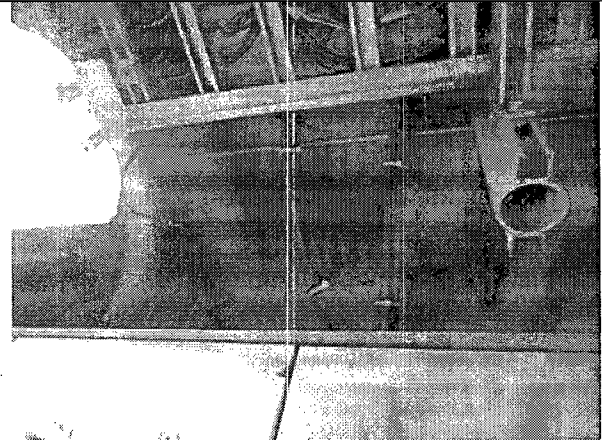
Location: Bldg. RAB Floor El. 372 Room, Area 98

SWEL Components: SWEL1- 070 (D14)

Photographs



Note: *Overhead view of area*



Note: *Overhead view of area*

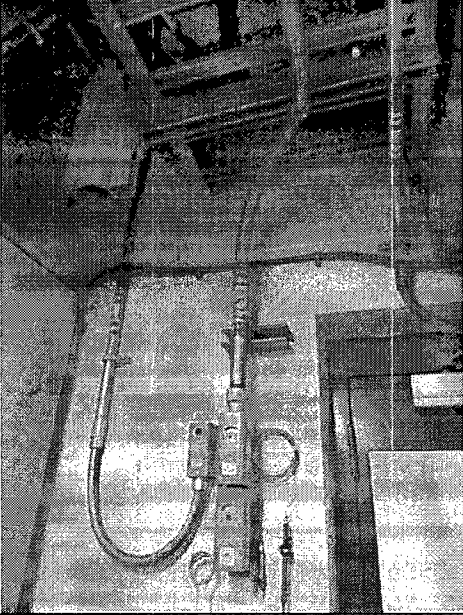
Sheet 5 of 5

Status: Y N U

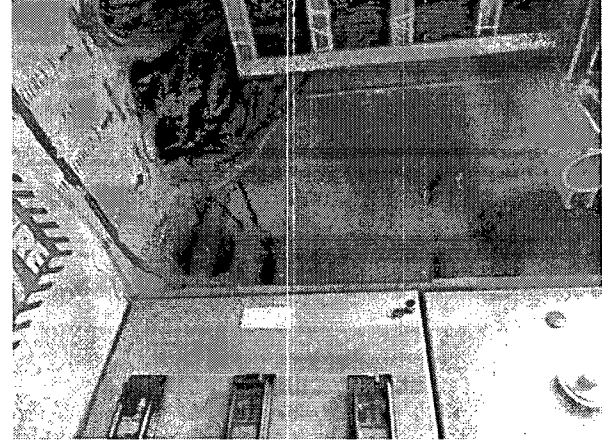
Area Walk-By Checklist (AWC) AWC- 023

Location: Bldg. RAB Floor El. 372 Room, Area 98

SWEL Components: SWEL1- 070 (D14)



Note: *Conduit mounted on wall*



Note: *Overhead view of area*

Sheet 1 of 4

Status: Y N U **Area Walk-By Checklist (AWC) AWC-024**Location: Bldg. RAB Floor El. 386 Room, Area: 144 (Entire Room)**SWEL Components: SWEL1-071 (PT-2667A)****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
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
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
All rigid electrical conduit is adequately anchored to the overhead and the walls. Overhead piping and ducts appear to be properly secured.

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.

Sheet 2 of 4

Status: Y N U

Area Walk-By Checklist (AWC) AWC-024

Location: Bldg. RAB Floor El. 386 Room, Area 144 (Entire Room)

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

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

The area appears to be free of potentially adverse seismic conditions 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

The area appears to be 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 area appears to be free of potentially adverse seismic interactions associated with housekeeping practices, storage of portable equipment, and temporary installations.

Sheet 3 of 4

Status: Y N U

Area Walk-By Checklist (AWC) AWC-024

Location: Bldg. RAB Floor El. 386 Room, Area 144 (Entire Room)

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

It was looked for, and no other seismic conditions that could adversely affect the safety functions of the equipment in the area were found.

Comments (Additional pages may be added as necessary)

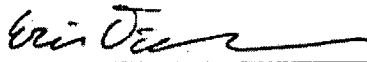
Equipment in the area appeared to be well anchored. Room was a dark, but the anchorage of the equipment in the area was located using a flashlight. All components appeared to be in appropriate conditions.

Evaluated by: Genaro Barragan Jr.



Date: 10/9/2012

Eric Dilbone



10/9/2012

Sheet 4 of 4

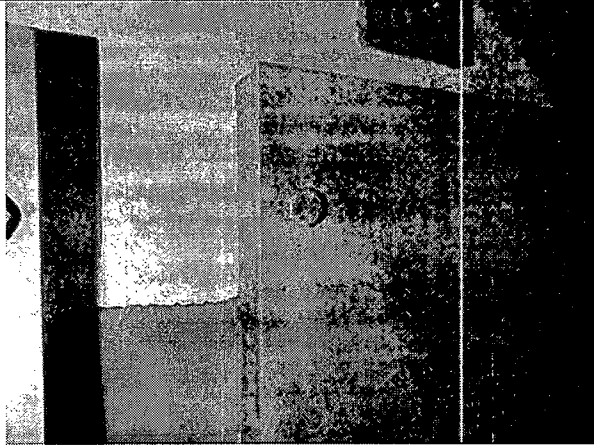
Status: Y N U

Area Walk-By Checklist (AWC) AWC- 024

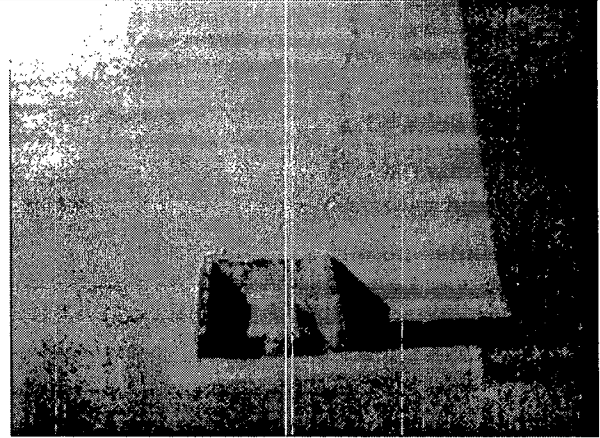
Location: Bldg. RAB Floor El. 386 Room, Area 144 (Entire Room)

SWEL Components: SWEL1- 071 (PT-2667A)

Photographs



Note: Anchorage of the equipment in the area appears to be free of degraded conditions.



Note: Close up view of anchorage.

Sheet 1 of 5

Status: Y N U **Area Walk-By Checklist (AWC) AWC-025**Location: Bldg. RAB Floor El. 374 Room, Area¹ 96**SWEL Components: SWEL1-094 (LY-1411A)****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

All of the electrical cabinets within the room appeared to be adequately anchored to the floor and did not appear to pose a hazard during a seismic event.

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

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

All rigid electrical conduit is adequately anchored to the overhead and the walls. Overhead piping and ducts appear to be properly secured.

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.

Sheet 2 of 5

Status: Y N U

Area Walk-By Checklist (AWC) AWC- 025

Location: Bldg. RAB Floor El. 374 Room, Area² 96

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

The area is free of potential adverse spatial interactions. Lighting over safety-related equipment is mounted on unistrut.

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

A fire water system was observed and appeared to be installed to meet plant specifications.

A fire extinguisher was supported on a typical wall mount that was observed throughout the plant. During a seismic event it may bounce off the support and fall to the floor but it was judged to not be a significant hazard during a seismic event.

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

The area appears to be 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 area was part of the protected train during the time of the inspection so there was no equipment or tools in the area that would represent a seismic hazard.

² 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.

Sheet 3 of 5

Status: Y N U

Area Walk-By Checklist (AWC) AWC- 025

Location: Bldg. RAB Floor El. 374 Room, Area³ 96

- 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

It was looked for, and no other seismic conditions that could adversely affect the safety functions of the equipment in the area were found.

Comments (Additional pages may be added as necessary)

Evaluated by: Daniel Parker  Date: 10/10/2012

Eric Dilbone  10/10/2012

³ 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.

Sheet 4 of 5

Status: Y N U

Area Walk-By Checklist (AWC) AWC- 025

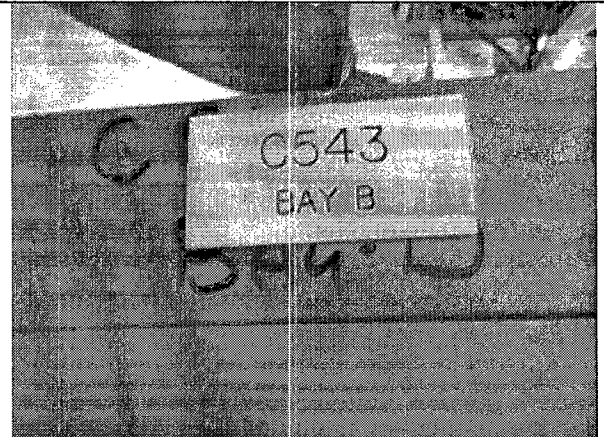
Location: Bldg. RAB Floor El. 374 Room, Area⁴ 96

SWEL Components: SWEL1- 094 (LY-1411A)

Photographs



Note: Row of cabinets in Room 96.



Note: Cabinet containing LY-1411A.

⁴ 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.

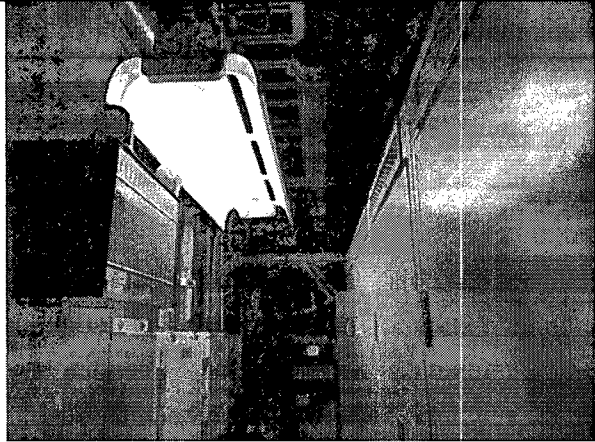
Sheet 5 of 5

Status: Y N U

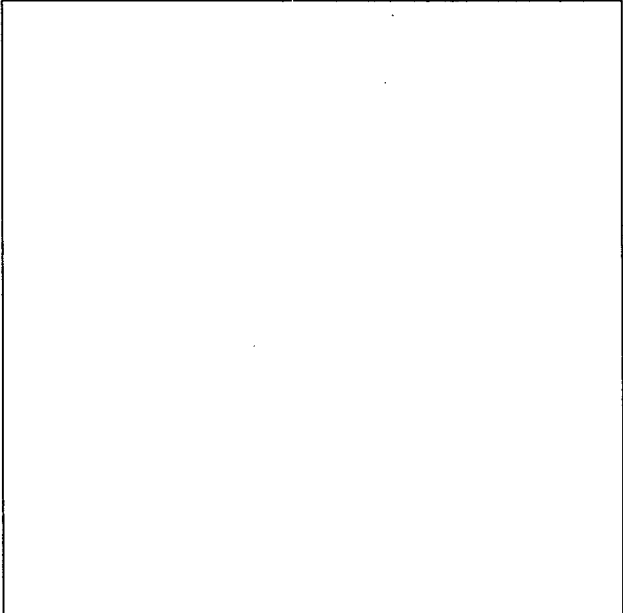
Area Walk-By Checklist (AWC) AWC-025

Location: Bldg. RAB Floor El. 374 Room, Area⁵ 96

SWEL Components: SWEL1-094 (LY-1411A)



Note: *Overhead lighting in Room 96.*



Note:

⁵ 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.

Sheet 1 of 5

Status: Y N U

Area Walk-By Checklist (AWC) AWC- 026

Location: Bldg. RAB Floor El. 386 Room, Area¹ 129

SWEL Components: SWEL1- 058(RS-2), 078(C10), 080(PB-0144), 085(C88), 086(C89), 087(C90), 088(PWR-2406), 089(C14), 090(C42), 091(C44), 092(C26), 097(PB-2670), 098(SS-1220), 099(TR-1139), 100(LIS-1421)

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

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

Anchorage 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

Based on visual inspection from the floor, the cable/conduit raceways and HVAC ducting appear 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.

Sheet 2 of 5

Status: Y N U **Area Walk-By Checklist (AWC) AWC- 026**Location: Bldg. RAB Floor El. 386 Room, Area 129

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

The lighting in the room is all secure, and ceiling tiles are in good condition as well.

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

There are no apparent potentially adverse seismic interactions in the area that could cause spray. Additionally, there are floor drains in the floor to mitigate effects of any spills that may occur.

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

The area appears to be free of potentially adverse seismic interactions that could cause a fire.

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

It was observed that there are four emergency respiratory protection boxes stored behind cabinet C26. Though they do not present a potentially adverse seismic interaction effect to safety-related equipment, they may fall and impede walkways since they are not secured.

Sheet 3 of 5

Status: Y N U

Area Walk-By Checklist (AWC) AWC- 026

Location: Bldg. RAB Floor El. 386 Room, Area 129

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

It was looked for and no other seismic conditions that could adversely affect the safety functions of the equipment in the area were found.

Comments (Additional pages may be added as necessary)

It was observed that there is a cart as well as a ladder stored behind cabinet C26, however, these two items are secured to the wall.

Evaluated by: Roy Berryman  Date: 10/4/2012

Eric Dilbone  10/4/2012

Sheet 4 of 5

Status: Y N U

Area Walk-By Checklist (AWC) AWC- 026

Location: Bldg. RAB Floor El. 386 Roo/m, Area² 129

SWEL Components: SWEL1- 058(RS-2), 078(C10), 080(PB-0144), 085(C88), 086(C89), 087(C90), 088(PWR-2406), 089(C14), 090(C42), 091(C44), 092(C26), 097(PB-2670), 098(SS-1220), 099(TR-1139), 100(LIS-1421)

Photographs



Note: *Picture shows emergency respiratory protection boxes stacked upon each other.*



Note: *Photo showing seismic block wall located in the control room.*

² 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.

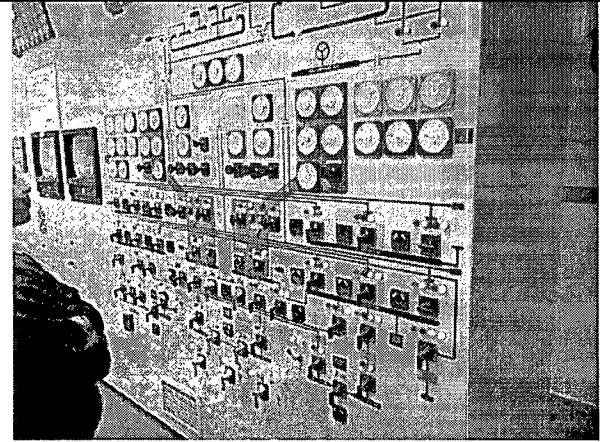
Sheet 5 of 5

Status: Y N U

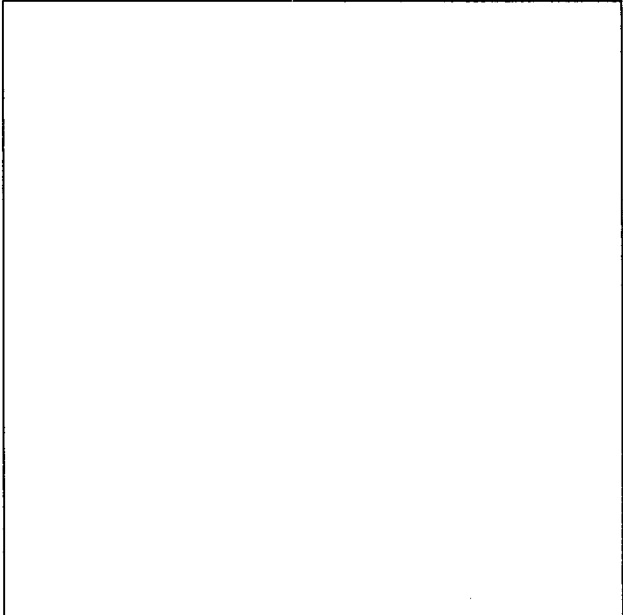
Area Walk-By Checklist (AWC) AWC- 026

Location: Bldg. RAB Floor El. 386 Room, Area³ 129

SWEL Components: SWEL1- 058(RS-2), 078(C10), 080(PB-0144), 085(C88), 086(C89), 087(C90), 088(PWR-2406), 089(C14), 090(C42), 091(C44), 092(C26), 097(PB-2670), 098(SS-1220), 099(TR-1139), 100(LIS-1421)



Note: *View showing one of a number of panels in the control room.*



Note:

³ 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.

Sheet 1 of 5

Status: Y N U **Area Walk-By Checklist (AWC) AWC-027**Location: Bldg. RAB Floor El. 369 Room, Area¹ 86**SWEL Components: SWEL1- 110(P-107B), 069(PS-5284), 077(TS-7904), 068(SE-5220), 066(M-225B)****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

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

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

All rigid electrical conduit is adequately anchored to the overhead and the walls. Overhead piping and ducts appear to be properly secured.

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.

Sheet 2 of 5

Status: Y N U **Area Walk-By Checklist (AWC) AWC- 027**

Location: Bldg. RAB Floor El. 369 Room, Area 86

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

Overhead fluorescent lighting was secured with chain supports. No open S hooks were observed. Nylon zip ties were present to take up excess chain.

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

The area appears to be free of potentially adverse seismic conditions 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

The area appears to be 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 area appears to be free of potentially adverse seismic interactions associated with housekeeping practices, storage of portable equipment, and temporary installations.

Sheet 3 of 5

Status: Y N U

Area Walk-By Checklist (AWC) AWC-027

Location: Bldg. RAB Floor El. 369 Room, Area 86

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

It was looked for, and no other seismic conditions that could adversely affect the safety functions of the equipment in the area were found.

Comments (Additional pages may be added as necessary)

The zip ties on the light fixture chain supports were used to adjust the position of the lights such that they would not trip the overhead fire/flash detectors when the diesel generator is in operation.

Evaluated by: Daniel Parker  Date: 10/2/2012

Eric Dilbone  10/2/2012

Sheet 4 of 5

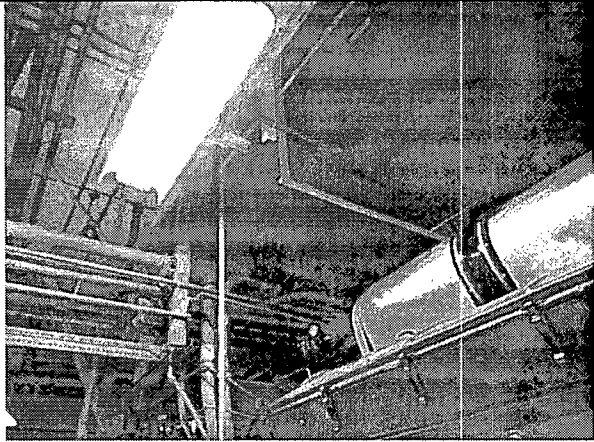
Status: Y N U

Area Walk-By Checklist (AWC) AWC- 027

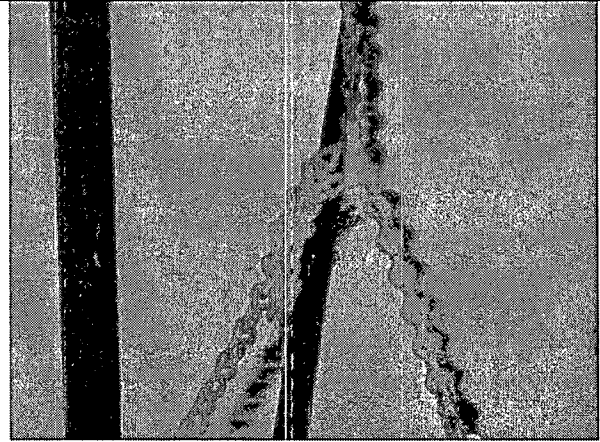
Location: Bldg. RAB Floor El. 369 Room, Area 86

SWEL Components: SWEL1- 110(P-107B), 069(PS-5284), 077(TS-7904), 068(SE-5220), 066(M-225B)

Photographs



Note: *Overhead ventilation duct with steel support hanger.*



Note: *Example of nylon zip tie on light fixture chain support.*

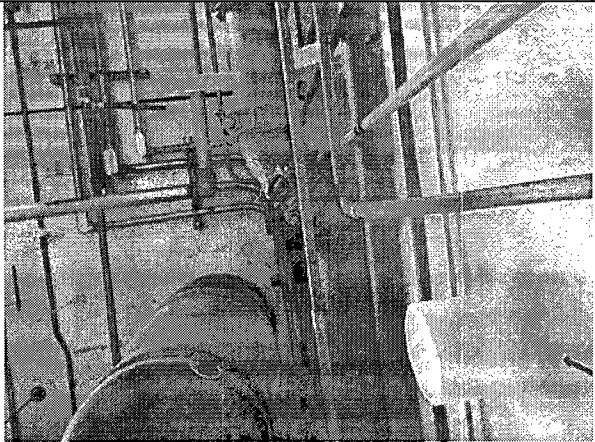
Sheet 5 of 5

Status: Y N U

Area Walk-By Checklist (AWC) AWC- 027

Location: Bldg. RAB Floor El. 369 Room, Area 86

SWEL Components: SWEL1- 110(P-107B), 069(PS-5284), 077(TS-7904), 068(SE-5220), 066(M-225B)



Note: *Overhead rigid conduit, piping, and exhaust.*

Note:

Sheet 1 of 5

Status: Y N U **Area Walk-By Checklist (AWC) AWC- 028**Location: Bldg. RAB Floor El. 369 Room, Area: 86**SWEL Components: SWEL1- 006(E-21), 053(VFP-26B), 050(SV-5239), 065(F-52B), 013(P-106B2), 064(F-50B), 102(T-78B)****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
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
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
All rigid electrical conduit is adequately anchored to the overhead and the walls. Overhead piping and ducts appear to be properly secured.

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.

Sheet 2 of 5

Status: Y N U

Area Walk-By Checklist (AWC) AWC- 028

Location: Bldg. RAB Floor El. 369 Room, Area 86

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

Overhead fluorescent lighting was secured with chain supports. No 'open S hooks were observed. Nylon zip ties were present to take up excess chain.

A fire extinguisher was mounted on a support hook near the fire door and E-21. The vertical hook mount was relatively short. During a seismic event the fire extinguisher may bounce off the support and fall to the ground. This may cause it to expel its contents. This will not have in potentially adverse seismic impact.

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

The area appears to be free of potentially adverse seismic conditions 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

The area appears to be free of potentially adverse seismic interactions that could cause a fire.

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 area appears to be free of potentially adverse seismic interactions associated with housekeeping practices, storage of portable equipment, and temporary installations.

Sheet 3 of 5

Status: Y N U

Area Walk-By Checklist (AWC) AWC- 028

Location: Bldg. RAB Floor El. 369 Room, Area 86

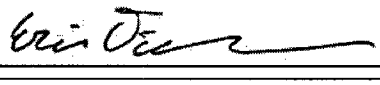
- 8. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment in the area? Y N U

It was looked for, and no other seismic conditions that could adversely affect the safety functions of the equipment in the area were found.

Comments (Additional pages may be added as necessary)

The zip ties on the light fixture chain supports were used to adjust the position of the lights such that they would not trip the overhead fire/flash detectors when the diesel generator is in operation.

Evaluated by: Daniel Parker  Date: 10/2/2012

Eric Dilbone  10/2/2012

Sheet 4 of 5

Status: Y N U

Area Walk-By Checklist (AWC) AWC- 028

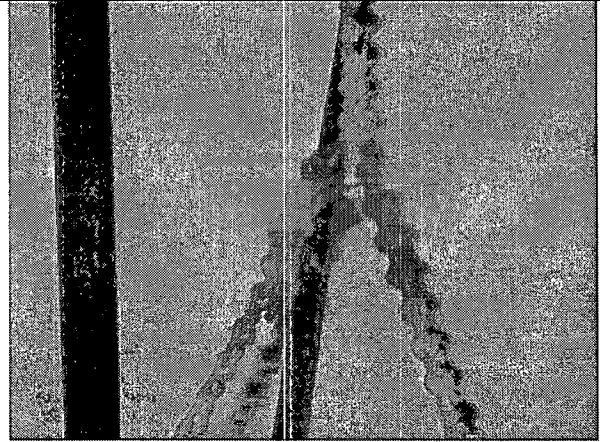
Location: Bldg. RAB Floor El. 369 Room, Area 86

SWEL Components: SWEL1- 006(E-21), 053(VFP-26B), 050(SV-5239), 065(F-52B), 013(P-106B2), 064(F-50B), 102(T-78B)

Photographs



Note: Fire Extinguisher near door and electrical cabinet E-21



Note: Example of nylon zip tie on light fixture chain support.

Sheet 5 of 5

Status: Y N U

Area Walk-By Checklist (AWC) AWC-028

Location: Bldg. RAB Floor El. 369 Room, Area 86

SWEL Components: SWEL1-006(E-21), 053(VFP-26B), 050(SV-5239), 065(F-52B), 013(P-106B2), 064(F-50B), 102(T-78B)



Note: *Overhead ventilation duct with steel support hanger.*

Note:

Sheet 1 of 5

Status: Y N U **Area Walk-By Checklist (AWC) AWC-029**Location: Bldg. RAB Floor El. 404 Room, Area 159**SWEL Components: SWEL2-001 (SW-72)****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
Anchorage of equipment in the area are appear 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
Anchorage of equipment in the area appears to be free of significant degraded conditons.
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
All rigid electrical conduit is adequately anchored to the overhead and the walls. Overhead piping and ducts appear to be properly secured.

Sheet 2 of 5

Status: Y N U

Area Walk-By Checklist (AWC) AWC-029

Location: Bldg. RAB Floor El. 404 Room, Area 159

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

The area appears to be 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

The area is free of potentially adverse seismic interactions that could cause flooding or spray. Drains in the floor provide a means to mitigate flooding in the event of a pipe break or release of water.

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

The area appears to be free of potentially adverse seismic interactions that could cause a fire.

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 area appears to be free of potentially adverse seismic interactions with the items listed.

Sheet 3 of 5

Status: Y N U

Area Walk-By Checklist (AWC) AWC-029

Location: Bldg. RAB Floor El. 404 Room, Area 159

- 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

It was looked for, and no other seismic conditions that could adversely affect the safety fuctions were found.

Comments (Additional pages may be added as necessary)

Evaluated by: Sean Smolarek *Sean Smolarek* Date: 10/12/2012

Eric Dilbone *Eric Dilbone* 10/12/2012

Sheet 4 of 5

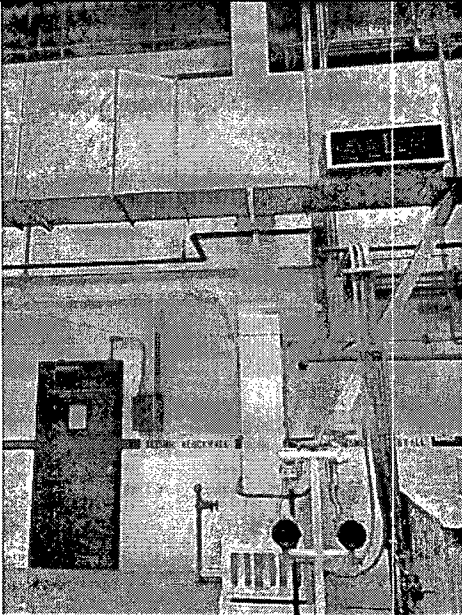
Status: Y N U

Area Walk-By Checklist (AWC) AWC- 029

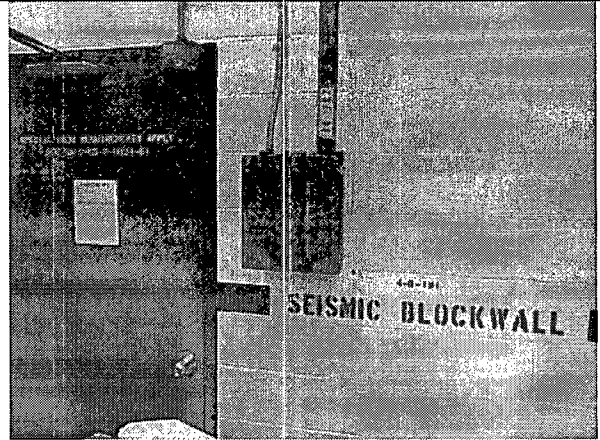
Location: Bldg. RAB Floor El. 404 Room, Area 159

SWEL Components: SWEL2-001 (SW-72)

Photographs



Note: View of the area surrounding SW-72.



Note: Seismic block wall next to SW-72.

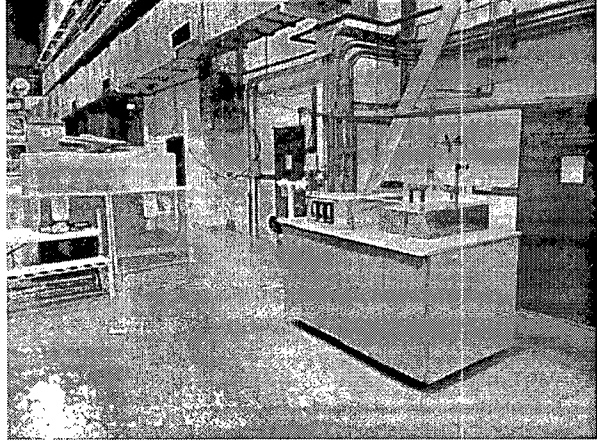
Sheet 5 of 5

Status: Y N U

Area Walk-By Checklist (AWC) AWC-029

Location: Bldg. RAB Floor El. 404 Room, Area 159

SWEL Components: SWEL2-001 (SW-72)



Note: *View of the area surrounding SW-72.*

Note:

Sheet 1 of 5

Status: Y N U Area Walk-By Checklist (AWC) AWC- 030Location: Bldg. RAB Floor El. 317 Room, Area¹ 14SWEL Components: SWEL1- 023 (CV-1433), 108 (E-35A)**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

All components in the room appeared to be adequately anchored to the floor and did not appear to pose a hazard during a seismic event.

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

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

All rigid electrical conduit is adequately anchored to the overhead and the walls. Overhead piping and ducts appear to be properly secured.

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.

Sheet 2 of 5

Status: Y N U **Area Walk-By Checklist (AWC) AWC- 030**Location: Bldg. RAB Floor El. 317 Room, Area² 14

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

The area is free of potential adverse spatial interactions.

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

There were floor drains installed in the floor, which would mitigate any flooding concerns. Additionally, there was nothing in the area that presented a major flooding concern as a result of seismic 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

The area appears to be 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

There was an area in the room that was roped off as a contaminated area, but this does not present a seismic concern.

² 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.

Sheet 3 of 5

Status: Y N U

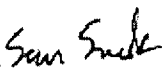
Area Walk-By Checklist (AWC) AWC- 030

Location: Bldg. RAB Floor El. 317 Room, Area³ 14

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

It was looked for, and no other seismic conditions that could adversely affect the safety functions of the equipment in the area were found.

Comments (Additional pages may be added as necessary)

Evaluated by: Sean Smolarek  Date: 10/3/2012

Michael E. Perez  10/3/2012

³ 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.

Sheet 4 of 5

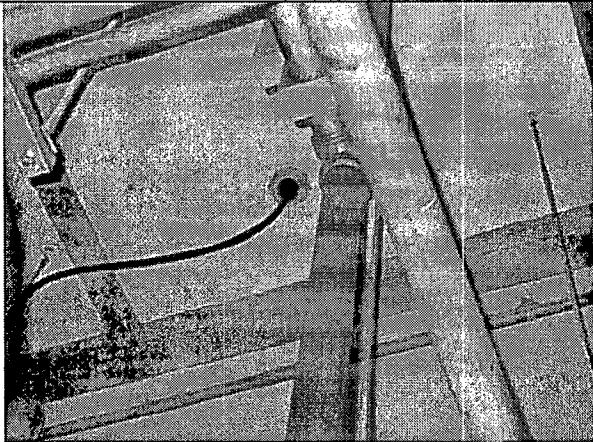
Status: Y N U

Area Walk-By Checklist (AWC) AWC- 030

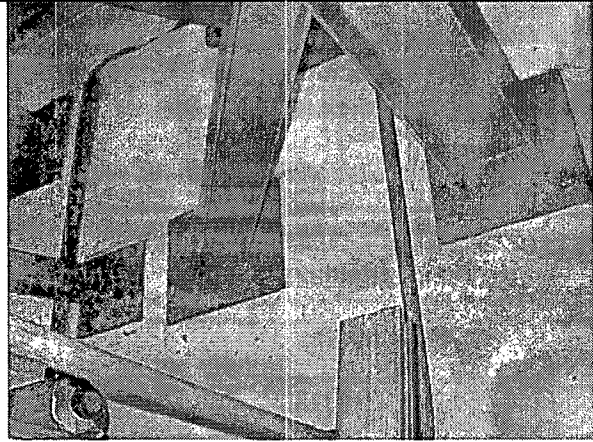
Location: Bldg. RAB Floor El. 317 Room, Area⁴ 14

SWEL Components: SWEL1- 023 (CV-1433), 108 (E-35A)

Photographs



Note: *View of overhead in Room 14.*



Note: *View of supports anchored to wall.*

⁴ 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.

Sheet 5 of 5

Status: Y N U

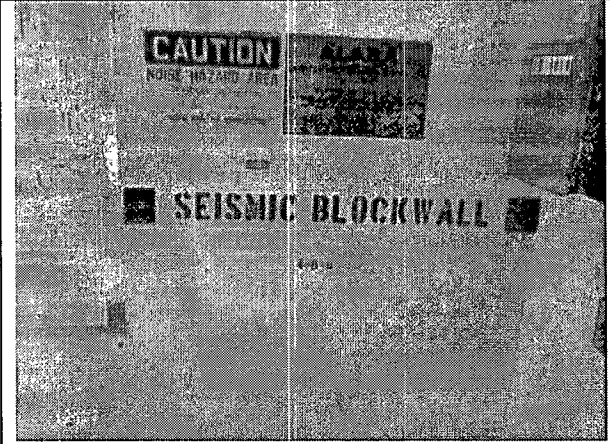
Area Walk-By Checklist (AWC) AWC- 030

Location: Bldg. RAB Floor El. 317 Room, Area⁵ 14

SWEL Components: SWEL1- 023 (CV-1433), 108 (E-35A)



Note: *View of equipment properly anchored to floor.*



Note: *Seismic block wall.*

⁵ 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 E
Potentially Adverse Seismic Conditions

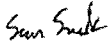
Table 1 - Potentially Adverse Seismic Conditions

LB #	SWC/AWC #	IDENTIFIED CONDITION	LICENSING BASIS EVALUATION CONCLUSION	RESOLUTION	STATUS
N/A	SWC-SWEL1-010/ SWC-SWEL1-014	During Fukushima Seismic walkdowns, a concrete pedestal for items P-16A and P-16B was measured to be approximately 10 inch tall. Drawing C-48 states that this platform should be 4inch tall.	Condition entered directly into CAP	Initial Action: CR-ANO-1-2012-01534 initiated CR Action: Revise drawings as required Operability Review: The condition was reviewed by the CR process and it was determined that there is no adverse operability concerns since the CR describes only a minor discrepancy in documentation.	CR-ANO-1-2012-01534 closed to CR-C-2012-2801.
N/A	SWC-SWEL1-010	During Fukushima Seismic walkdowns, a vent is out of alignment below penetration 252-0008 in the Diesel Vault above P-16A.	Condition entered directly into CAP	Initial Action: CR-ANO-1-2012-01535 and WR-286913 initiated CR Action: WR-286913 initiated to properly install the vent. Operability Review: The condition was reviewed by the CR process and it was determined that there is no adverse operability concerns since the vent is firmly attached and is not in danger of falling. Even if the vent cover were to fall, there is no equipment immediately below it, although the P-16A Diesel Fuel Oil transfer pump is in the immediate vicinity.	CR-ANO-1-2012-01535 closed. WR-286913 initiated.
N/A	AWC-007	Anchor bolts below F0-10A have significant degradation.	Condition entered directly into CAP	Initial Action: CR-ANO-1-2012-1536 and WR-287317 initiated CR Action: WR-287317 initiated to touch up paint Operability Review: The condition was reviewed by the CR process and it was determined that the supports show signs of only surface corrosion (flaking paint) and light rust. As a result, the supports and FO-10A/B and the "A" and "B" Diesel Fuel Oil systems remain operable.	CR-ANO-1-2012-1536 closed. WR-287317 initiated.
N/A	AWC-008	During Fukushima Seismic walkdowns, anchor bolts at the base of the tank supports for T-57B, Emergency Diesel Fuel Tank, are bent and corrosion on the base plates was observed.	Condition entered directly into CAP	Initial Action: CR-ANO-1-2012-01537 initiated and WR-286915 initiated CR Action: WR-286915 initiated Operability Review: The condition was reviewed by the CR process and it was determined that the nuts/bolts show signs of light corrosion and peeled paint. The base plate shows signs of corrosion and dirt/debris build up, but does not exhibit any signs of wastage or pitting of the base plate material. Therefore, the T-57B support and T-57B tank are considered operable.	CR-ANO-1-2012-01537 closed. WR-286915 initiated.
N/A	AWC-007	During Fukushima inspections Nuts in personnel platform in room with tank T-57A in the Diesel Vault are loose.	Condition entered directly into CAP	Initial Action: CR-ANO-1-2012-01538 initiated and WR-286917 initiated CR Action: WR-286917 initiated Operability Review: This condition report describes a condition of an SSC that is not within the scope of the Operability Determination Process. An Operability Determination is NOT REQUIRED for the stated condition.	CR-ANO-1-2012-01538 closed. WR-286917 initiated.
N/A	SWC-SWEL1-040	During Fukushima Seismic walkdowns, an S-hook supporting an overhead light fixture was identified to be open over CV-3646 in the	Condition entered directly into CAP	Initial Action: CR-ANO-1-2012-01613 initiated and WR-286917 initiated	CR-ANO-1-2012-01613 closed.

Table 1 - Potentially Adverse Seismic Conditions

		Intake Structure, EL 354, Room 241.		CR Action: WR-286917 initiated Operability Review: The condition was reviewed by the CR process and it was determined that uplifting forces under DBE conditions would be less than the dead load of the fixture. Therefore, all identified safety related equipment remains operable.	WR-286917 initiated
N/A	AWC-015	During Fukushima Seismic walkdowns, an S-hook supporting an overhead light fixture was identified to be open over 1A3-1101 next to GCH-43 in the Aux Bldg, EL 354, Room 63.	Condition entered directly into CAP	Initial Action: CR-ANO-1-2012-01613 initiated and WR-286917 initiated CR Action: WR-286917 initiated Operability Review: The condition was reviewed by the CR process and it was determined that uplifting forces under DBE conditions would be less than the dead load of the fixture. Therefore, all identified safety related equipment remains operable.	CR-ANO-1-2012-01613 closed. WR-286917 initiated
N/A	AWC-015	During Fukushima Seismic walkdowns, an S-hook supporting an overhead light fixture was identified to be open over C115 in the Aux Bldg, EL 354, Room 63.	Condition entered directly into CAP	Initial Action: CR-ANO-1-2012-01613 initiated and WR-286917 initiated CR Action: WR-286917 initiated Operability Review: The condition was reviewed by the CR process and it was determined that uplifting forces under DBE conditions would be less than the dead load of the fixture. Therefore, all identified safety related equipment remains operable.	CR-ANO-1-2012-01613 closed. WR-286917 initiated
N/A	AWC-017	During Fukushima Seismic walkdowns, an S-hook supporting an overhead light fixture was identified to be open over CV-1206 in the Aux Bldg, EL 360, Room 79.	Condition entered directly into CAP	Initial Action: CR-ANO-1-2012-01613 initiated and WR-286917 initiated CR Action: WR-286917 initiated Operability Review: The condition was reviewed by the CR process and it was determined that uplifting forces under DBE conditions would be less than the dead load of the fixture. Therefore, all identified safety related equipment remains operable.	CR-ANO-1-2012-01613 closed. WR-286917 initiated
N/A	AWC-013	During Fukushima Seismic walkdowns, a steel support for PI-3812A is missing an anchor bolt into the concrete wall in Room 46, Elevation 335 in the Aux Building.	Condition entered directly into CAP	Initial Action: CR-ANO-1-2012-01611 initiated and WR-289091 initiated CR Action: WR-289091 initiated Operability Review: The condition was reviewed by the CR process and it was determined that PI-3812A is isolated from the Service Water System by normally closed isolation valve SW-3812A. SW-3812A is maintained in the closed position. Therefore, the integrity of the Service Water System boundary is maintained. Therefore, the Service Water System and the Emergency Cooling Pond remain Operable.	CR-ANO-1-2012-01611 closed. WR-289091 initiated

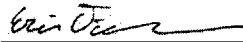
Prepared by:



 Sean Smolarek

Date: 11/15/2012

Reviewed by:



 Eric Dilbone

Date: 11/15/2012

Attachment F
Licensing Basis Evaluation Forms

(NOT USED)

Attachment G

Peer Review Checklist for SWEL

Peer Review Checklist for SWEL

Instructions for Completing Checklist

This peer review checklist may be used to document the review of the Seismic Walkdown Equipment List (SWEL) in accordance with Section 6: Peer Review. The space below each question in this checklist should be used to describe any findings identified during the peer review process and how the SWEL may have changed to address those findings. Additional space is provided at the end of this checklist for documenting other comments.

1. Were the five safety functions adequately represented in the SWEL 1 selection? Y N
The SWEL1 contains components which address all five safety functions. Many components provide safety functions for multiple systems, and/or are part of frontline support systems. All five safety functions discussed in EPRI Report 1025286 are well represented in the SWEL.

2. Does SWEL 1 include an appropriate representation of items having the following sample selection attributes:
 - a. Various types of systems? Y N
Items included on the SWEL comprise a variety of ESF systems such as Emergency Diesel Generators and Auxiliaries, Service Water System, Component Cooling Water System, Residual Heat Removal System, and vital electrical systems.
 - b. Major new and replacement equipment? Y N
Based on input from plant personnel and EC searches, equipment selection personnel identified no "major" changes to safety-related equipment and components made to the plant in the past 15 years.
 - c. Various types of equipment? Y N
SWEL 1 includes at least one example of each of the 21 classes of equipment, except class 3 and 6. Two class 3 components were contained on Base List 1; however, both were energized 4160 KV switchgear and access was not recommended for safety reasons. As such, no class 3 components were suitable for inclusion in the SWEL. Class 6 was also minimally represent on Base List 1 and inaccessible. Note also that several classes (11 and 12) are not on Base List 1. As such, they are also not represented on the SWEL1. All of the other equipment classes are well represented.
 - d. Various environments? Y N
The SWEL contains components in mild, harsh, and outdoor environments. The components are located in different buildings, rooms, and/or on different building elevations.

Peer Review Checklist for SWEL

e. Equipment enhanced based on the findings of the IPEEE (or equivalent) program? Y N
The SWEL includes components that were identified during the IPEEE as being potentially vulnerable to a seismic event. A sample of these components are included in the SWEL 1.

f. Were risk insights considered in the development of SWEL 1? Y N
SWEL 1 includes high risk components based on risk significance in the plant probabilistic risk assessment (PRA) models.

3. For SWEL 2:

a. Were spent fuel pool related items considered, and if applicable included in SWEL 2? Y N
The walkdown team identified only a small population of SFP components that are Seismic Category I. These components are included on SWEL 2.

b. Was an appropriate justification documented for spent fuel pool related items not included in SWEL 2? Y N
There were no components that could contribute to rapid SFP draindown that were identified. There are no penetrations in the SFP wall below 10 ft above the top of the fuel assemblies, and all piping that communicate with the pool was installed along the refuel floor the top of the pool and then turns down into the pool

4. Provide any other comments related to the peer review of the SWELs.

The peer review team reviewed the initial SWEL 1 and SWEL 2, and provided comments and suggestions for modification of the SWEL. Comments included suggestions to remove equipment mounted to panels and cabinets because they are qualified as a whole (ie; handswatches), and to include the Letdown heat exchangers.

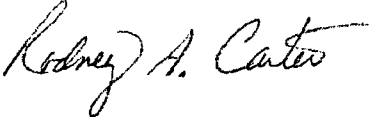
The peer reviewers ensured the SWELs met the requirements of EPRI Report 1025286.

Required changes to the SWEL necessary during the walkdown due to inaccessibility were reviewed by the peer reviewers to verify that the changes did not impact the level of compliance to the EPRI report.


5. Have all peer review comments been adequately addressed in the final SWEL? Y N

Peer Review Checklist for SWEL

Peer Reviewer #1: Frank Cobb  Date: 10/22/2012



Peer Reviewer #2: Rodney Carter Date: 10/29/2012

Attachment H
Peer Review Comment Form

		Seismic Walkdown Submittal Report Review Comments and Resolutions Form		
Engineering Report Number	CALC-ANO1-CS-12-00002	Rev. 0	Title ANO-1 Seismic Walkdown Report – SWCs and AWCs	
Quality Related: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Special Notes or Instructions:		
Comment Number	Section/Page No.	Review Comment	Response/Resolution	Reviewer's Accept Initials
	General, SWC+AWC	Several of the SWCs reviewed note mild surface oxidation or other minor condition observations where the question has been marked "Y". In these situations, the SWC should also include an explicit judgment from the SWEs stating that the observation is not a seismic concern. Where these seismically unrelated observations require correction, it would be useful to also include the CR number generated even if not reported as a seismic concern in the NTTF 2.3: Seismic program.	Explicit statements included for these situations. CRs generated are noted on the SWCs and AWCs, regardless of whether it represents a seismic condition or not.	BDK
	General, SWC+AWC	Where potential conditions are identified, it would be highly beneficial to include CR numbers generated (as available). This assists with cross-referencing.	CRs and WRs written have been included in all SWCs and AWCs.	BDK
	General, SWC+AWC	Anytime "N/A" is marked, a brief explanation/justification should be provided. (For line-mounted items with common justification for anchorage questions, can be provided once on SWC). This includes anchorage, flexibility of lines, etc.	All N/A items now have an explanation of why it has been marked that way.	BDK
	General, SWC+AWC	Generally, consistency between the justification text, question responses, and CRs initiated should be improved.	The checklists have been cleaned up from hand-written notes, and the final copies have improved consistency.	BDK
	General, SWC+AWC	Additional detail regarding observed block walls should be included on the checklists to confirm they were considered appropriately.	Identified block walls are seismically designed, and are noted on the checklists where relevant.	BDK
	General, SWC+AWC	The initial sample of checklists reviewed has not identified potentially adverse seismic conditions related to interaction. Please confirm that seismic interaction	Seismic interaction concerns such as the examples described in the EPRI Guidance and in EPRI SWE training	BDK

		concerns are considered during walkdowns and area walk-bys.	were being considered during walkdowns and area walk-bys. Peer review confirmed this during observation walkdowns. Expanded sample of checklists included examples where seismic interaction concerns were noted, where appropriate.	
	General, SWC	For items requiring anchorage configuration verification, it is useful to note the document #s used for comparison with the configuration observed in the field.	All walkdowns where an anchorage configuration verification check is performed now includes basis document numbers.	BDK
	General, SWC	Please confirm that all cabinet/panel doors were opened (i.e., MCC cubicles). If not, the SWC should include justification for how the goals of the inspection are still being met without opening the cabinet (see supplemental NRC FAQ dated 9-18-12), or should be marked as incomplete pending deferral to when the cabinets will be able to be opened (i.e., outage).	Confirmed. Additional clarification is now included on SWC forms where useful.	BDK
	General, SWC	Additional clarification is recommended to explain what the anchorage question responses mean for in-line components that have no formal anchorage.	General description of how non-anchored components were treated is included in the body of the report.	BDK
	General, SWC	It would be useful to indicate the equipment class name/description on the SWCs, not just the number.	Equipment class names are on each SWC.	BDK
	General, SWC	Several SWEL items appear to be described using incorrect/inappropriate equipment class designations. Please revisit the classes assigned and correct where necessary.	Corrections made to SWCs, Base List 1, and SWEL 1. Each SWC includes the proper equipment class.	BDK
	General, AWC	Several of the AWCs reviewed were somewhat unclear about what "Area" around the SWEL item(s) is considered. Recall that an acceptable "Area" is an approximate 35' radius from the SWEL item. Consider including a more general photo of the area and/or include brief statement of area considered (i.e., if entire room looked at, say so).	Where an area considered was less than the entire room, a brief description has been included on the AWC.	BDK

	General, AWC	Include a photo on the AWC of each seismic condition identified during that area walk-by.	Photos are included wherever conditions were identified, as well as a general photo of the area in most cases.	BDK
	General, SWC+AWC	Need to discuss why the block wall will remain stable during a seismic event	Additional information is provided on block walls. Note that ANO has painted all of their seismically qualified block walls with a blue stripe.	PAM
	General, SWC	List the anchorage dwgs in the SWC if a configuration verification is performed	Drawings/calculations/plant documentation is now referenced in all SWCs where an anchorage configuration verification is performed.	PAM
	General, SWC+AWC	Must justify that minor corrosion/surface oxidation does not adversely impact seismic qualification.	Added a statement justifying any noted mild corrosion or surface oxidation.	PAM
Reviewed By:	Paul A. Miktus		Date	10/11/12
Site/Department:	ENERCON/PM	Ph. 770-792-6972		
Reviewed By:	Benjamin D. Kosbab		Date	10/11/12
Site/Department:	ENERCON/Civil	Ph. 770-590-2179	Resolved By:	Sean Smolarek
			Date:	10/25/2012

 Seismic Walkdown Submittal Report Review Comments and Resolutions Form				
Engineering Report Number		CALC-ANO1-CS-12-00002	Rev. 0	Title: ANO-1 Fukushima Seismic – SWC & AWC Review
Quality Related: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			Special Notes or Instructions:	
Comment Number	Section/Page No.	Review Comment SWEL1 COMMENTS	Response/Resolution	Reviewer's Accept Initials
1	SWEL1	Remove Hand Switches from SWEL as the mounting will likely not be visible (even with the cabinet opened) and the switches will be evaluated with the panel as a whole	Removed Hand Switches	FC
2	SWEL1	Ensure any items identified to be inaccessible on preliminary walkdowns are swapped out with equivalent items (class, environment, etc)	A preliminary walkdown was performed to identify any inaccessible items or components. These items were swapped out by Equipment Selection Personnel and sent back to the SWEL peer reviewer for concurrence.	FC/RC
3	SWEL1	Verify each class of component is adequately represented. It appears a few do not show up in the SWEL.	Two class 3 components were contained on Base List 1; however, both were energized 4160 KV switchgear and access was not recommended for safety reasons. As such, no class 3 components were suitable for inclusion in the SWEL. Class 6 was also minimally represented on Base List 1 and inaccessible. Note also that several classes (11 and 12) are not on Base List 1. As such, they are also not represented on the SWEL1.	FC/RC
4	SWEL1	Are there any major new or replacement components included?	Plant personnel as well as the electronic database were consulted to find new and replacement items. Many items were identified on the SWEL to be new or have been replaced since the IPEEE report. However, the Guidance defines the new and replacement classification as "major",	FC

			of which none of the components fit.			
5	SWEL1	Suggest expanding representation of equipment class 21 with some of the major heat removal equipment (i.e., heat exchangers).	Decay Heat coolers were added. Letdown Heat Exchanger was not added at the request of RP – this heat exchanger is in a significant dose area.	FC		
		SWEL 2 COMMENTS				
6	SWEL2	Verify Safety Classification of SFP Cooling System	Per the Upper Level Document on the Spent Fuel Pool, The SFP Cooling System is Non-Safety and Non-Seismic. Safety-related service water to SFP connection valve is included on SWEL 2.	FC		
Reviewed By:		Rodney Carter/Frank Cobb	Date	10/24/12	Resolved By:	Sean Smolarek
Site/Department:		OPS/Mech	Date: 10/25/12			

Attachment I

Seismic Walkdown Engineering Training Certificates

Seismic Walkdown Engineers

Sean Smolarek

Eric Dilbone

Daniel Andoh

Roy Berryman

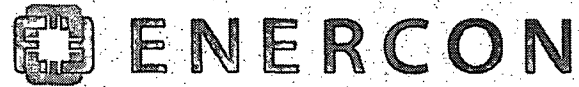
Genaro Barragan

Michael Perez

Daniel Parker

Chris Johnson

Ojaswi Shrestha



Excellence—Every project. Every day.

Certificate of Completion

is hereby granted to

Sean Smolarek

for successful completion of

**TRAINING ON NEAR TERM TASK FORCE
RECOMMENDATION 2.3
PLANT SEISMIC WALKDOWNS**

August 22, 2012 – Kennesaw, GA

Date – Location

A handwritten signature in black ink, appearing to read "Kursat Kinali".

Kursat Kinali, Ph.D., P.E.

EPRI Certified Seismic Walkdown Engineer
Alexandria, VA – 7/27/2012.



Excellence—Every project. Every day.

Certificate of Completion

is hereby granted to

Eric Dilbone

for successful completion of

**TRAINING ON NEAR TERM TASK FORCE
RECOMMENDATION 2.3
*PLANT SEISMIC WALKDOWNS***

Awarded: 7/11/2012 in Kennesaw, GA

A handwritten signature in black ink, appearing to read 'Kevin Bessell', written over a horizontal line.

Kevin Bessell
Certified Seismic Walkdown Engineer
Palo Alto, CA – 6/13/2012

A handwritten signature in black ink, appearing to read 'Kenneth Whitmore', written over a horizontal line.

Kenneth Whitmore
Certified Seismic Walkdown Engineer
Alexandria, VA – 6/20/2012



Excellence—Every project. Every day.

Certificate of Completion

is hereby granted to

Daniel Andoh

for successful completion of

**TRAINING ON NEAR TERM TASK FORCE
RECOMMENDATION 2.3
PLANT SEISMIC WALKDOWNS**

August 22, 2012 – Kennesaw, GA

Date – Location

A handwritten signature in black ink, appearing to read "Kursat Kinali".

Kursat Kinali, Ph.D., P.E.

EPRI Certified Seismic Walkdown Engineer

Alexandria, VA – 7/27/2012



Certificate of Completion

is hereby granted to

Roy Berryman

for successful completion of

**TRAINING ON NEAR TERM TASK FORCE
RECOMMENDATION 2.3
*PLANT SEISMIC WALKDOWNS***

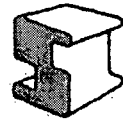
Awarded: 7/11/2012 in Kennesaw, GA

A handwritten signature in black ink, appearing to read 'Kevin Bessell', written over a horizontal line.

Kevin Bessell
Certified Seismic Walkdown Engineer
Palo Alto, CA – 6/13/2012

A handwritten signature in black ink, appearing to read 'Kenneth Whitmore', written over a horizontal line.

Kenneth Whitmore
Certified Seismic Walkdown Engineer
Alexandria, VA – 6/20/2012



Structural Integrity Associates, Inc.[®]

Certificate of Completion

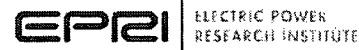
GENARO BARRAGAN

**Training on Near Term Task Force
Recommendation 2.3
- Plant Seismic Walkdowns**

9-13-12

Date

Jason Halsey
Structural Integrity Associates, Inc.



Certificate of Completion

Michael Perez

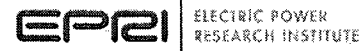
**Training on Near Term Task Force
Recommendation 2.3
- Plant Seismic Walkdowns**

July 27, 2012

Date

R.P. Kassawara

Robert K. Kassawara
EPRI Manager,
Structural Reliability & Integrity



Certificate of Completion

Dan Parker

**Training on Near Term Task Force
Recommendation 2.3
- Plant Seismic Walkdowns**

July 27, 2012

Date

A handwritten signature in black ink, reading "R. P. Kassawara".

Robert K. Kassawara
EPRI Manager,
Structural Reliability & Integrity



Certificate of Completion

Chris Johnson

**Training on Near Term Task Force
Recommendation 2.3
- Plant Seismic Walkdowns**

June 13, 2012

Date

A handwritten signature in black ink, reading "R.P. Kassawara", is positioned above the printed name and title.

Robert K. Kassawara
EPRI Manager,
Structural Reliability & Integrity



Certificate of Completion

Ojaswi Shrestha

**Training on Near Term Task Force
Recommendation 2.3
- Plant Seismic Walkdowns**

July 11, 2012

Date

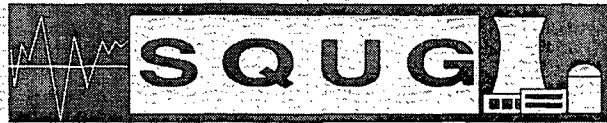
A handwritten signature in black ink, reading "R.P. Kassawara", is positioned above the printed name and title.

Robert K. Kassawara
EPRI Manager,
Structural Reliability & Integrity

Seismic Walkdown Peer Reviewers

Paul Miktus

Ben Kosbab



Certificate of Achievement

This is to Certify that

Paul A. Miktus

has Completed the SQUG Walkdown Screening
and Seismic Evaluation Training Course
Held June 22-26, 1992



David A. Freed, MPR Associates
SQUG Training Coordinator

Neil P. Smith, Commonwealth Edison
SQUG Chairman

Robert P. Kassawara, EPRI
SQUG Program Manager



Certificate of Achievement

This is to Certify that

Paul A. Miktus

has Completed the
Seismic IPE Add-On Training Course
Held July 27-29, 1992

David A. Freed, MPR Associates
SQUG Training Coordinator

Robert P. Kassawara, EPRI
SQUG Program Manager



Excellence—Every project. Every day.

Certificate of Completion

is hereby granted to

Benjamin Kosbab

for successful completion of

**TRAINING ON NEAR TERM TASK FORCE
RECOMMENDATION 2.3
*PLANT SEISMIC WALKDOWNS***

Awarded: 7/11/2012 in Kennesaw, GA

A handwritten signature in black ink, appearing to read 'Kevin Bessell', written over a horizontal line.

Kevin Bessell
Certified Seismic Walkdown Engineer
Palo Alto, CA – 6/13/2012

A handwritten signature in black ink, appearing to read 'Kenneth Whitmore', written over a horizontal line.

Kenneth Whitmore
Certified Seismic Walkdown Engineer
Alexandria, VA – 6/20/2012

EPRI-Qualified SWE Trainers

Kevin Bessell

Kursat Kinali

Ken Whitmore



Certificate of Completion

Kevin Bessell

**Training on Near Term Task Force
Recommendation 2.3
- Plant Seismic Walkdowns**

June 13, 2012

Date

A handwritten signature in black ink, reading "R.P. Kassawara", is positioned above the printed name and title.

Robert K. Kassawara
EPRI Manager,
Structural Reliability & Integrity



Certificate of Completion

Kursat Kinali

**Training on Near Term Task Force
Recommendation 2.3
- Plant Seismic Walkdowns**

July 27, 2012

Date

A handwritten signature in black ink, reading "R.P. Kassawara", is positioned above the printed name and title.

Robert K. Kassawara
EPRI Manager,
Structural Reliability & Integrity



Certificate of Completion

Kenneth Whitmore

Training on Near Term Task Force Recommendation 2.3 - Plant Seismic Walkdowns

June 21, 2012

Date

Robert K. Kassawara
EPRI Manager,
Structural Reliability & Integrity