APPENDIX B SEISMIC WALKDOWN CHECKLISTS (SWCs)

Paul C. Rizzo Associates, Inc.
ENGINEERS & CONSULTANTS

Seismic Walkdown Checklist (SWC) Status: Ⓨ N U

Equipment ID No. 1CC-E-1A Equip. Class 21. Tanks and Heat Exchangers

Equipment Description Primary Plant Component Cooling Water Heat exchanger

Location: Bldg. AXLB Floor El. 735

Manufacturer, Model, Etc.

Instructions for Completing Checklist

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

Anchorage

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

Long heat exchanger on two saddles hung from the ceiling. Fixed support at ceiling is anchored with 28-1 1/2" diam anchor bolts. Sliding end is anchored with 24-1 1/2" diam amchors.

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

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

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

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

Anchorage configuration confirmed per Drawings RV-0076A and RV-0076B

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

Seismic Walkdown Checklist (SWC) Status: Ⓨ N U

Equipment ID No. 1CC-E-1A Equip. Class 21. Tanks and Heat Exchangers

Equipment Description Primary Plant Component Cooling Water Heat exchanger

Interaction Effects

	Y	N	U	N/A
7. Are soft targets free from impact by nearby equipment or structures?	X			
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	X			
9. Do attached lines have adequate flexibility to avoid damage?	X			

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

Other Adverse Conditions

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

Comments (Additional pages may be added as necessary)

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

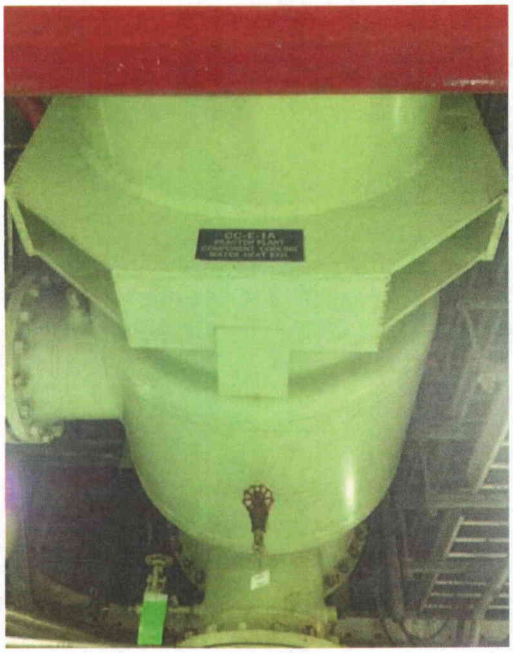
Adam L. Helffrich Date: 10/1/2012

Seismic Walkdown Checklist (SWC) Status: Ⓨ N U

Equipment ID No. 1CC-E-1A Equip. Class 21. Tanks and Heat Exchangers

Equipment Description Primary Plant Component Cooling Water Heat exchanger

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



File Name: 2-61-1-1-44.jpeg
Description: Component Plate ID

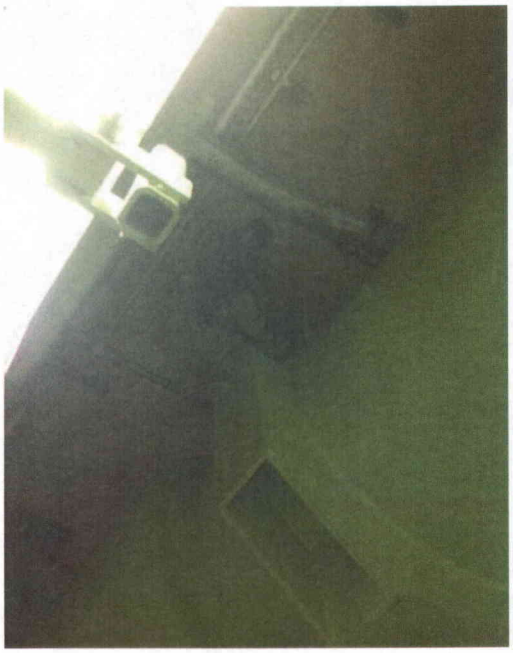
File Name: 2-62-1-1-44.jpeg
Description: General view of component

Seismic Walkdown Checklist (SWC) Status: Ⓨ N U

Equipment ID No. 1CC-E-1A Equip. Class 21. Tanks and Heat Exchangers

Equipment Description Primary Plant Component Cooling Water Heat exchanger

File Name: 2-63-1-1-44.jpeg
Description: View of anchorage for fixed support



File Name: 2-64-1-1-44.jpeg
Description: View of anchorage for sliding support

Seismic Walkdown Checklist (SWC) Status: Ⓨ N U

Equipment ID No. 1EE-EG-1 Equip. Class 17. Engine Generators

Equipment Description Diesel Generator

Location: Bldg. DGBX Floor El. 735

Manufacturer, Model, Etc.

Instructions for Completing Checklist

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

Anchorage

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

Anchored with 14-1 1/4" diam anchor bolts. 6 of 14 anchors are below the engine block and there is a gap of ~1/2" between floor and base of DG skid. Other anchors have grout pads. It is judged that the skid has adequate capacity for the demand loads. Also it is judged that bolt bending is not a concern due to gap of ~1 1/2". (see also calculation 52233-C-018).

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

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

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

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

Calculation 52233-C-018, page 4/17 confirms the anchorage configuration.

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

The support beams for the EDG skids were identified not to be grouted for their entire length. SQUG and design basis documentation provides justification for this finding.

Seismic Walkdown Checklist (SWC) Status: Ⓨ N U

Equipment ID No. 1EE-EG-1 Equip. Class 17. Engine Generators

Equipment Description Diesel Generator

Interaction Effects

	Y	N	U	N/A
7. Are soft targets free from impact by nearby equipment or structures?	X			
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	X			
9. Do attached lines have adequate flexibility to avoid damage?	X			

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

Other Adverse Conditions

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

Comments (Additional pages may be added as necessary)

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

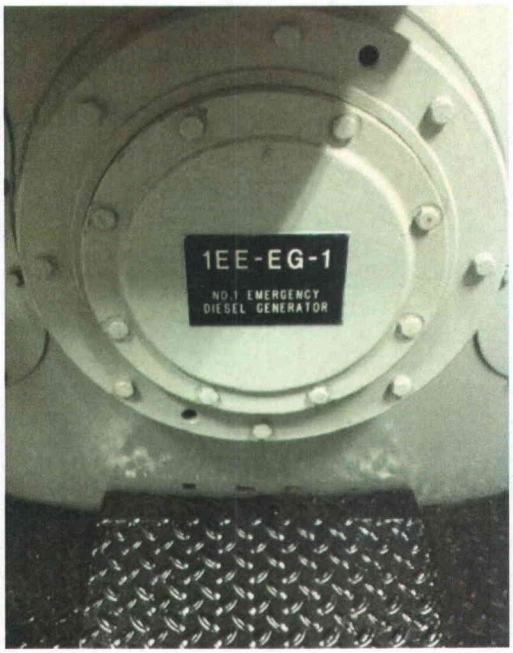
Adam L. Helffrich Date: 10/1/2012

Seismic Walkdown Checklist (SWC) Status: Ⓨ N U

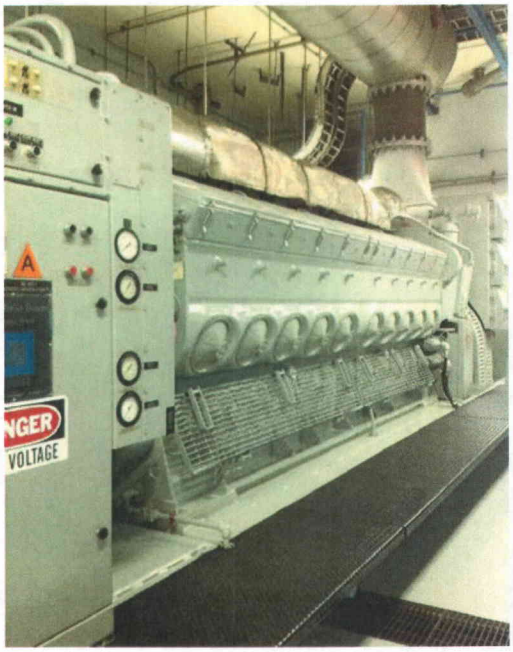
Equipment ID No. 1EE-EG-1 Equip. Class 17. Engine Generators

Equipment Description Diesel Generator

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



File Name: 2-61-8-1-20.jpeg
Description: Component Plate ID

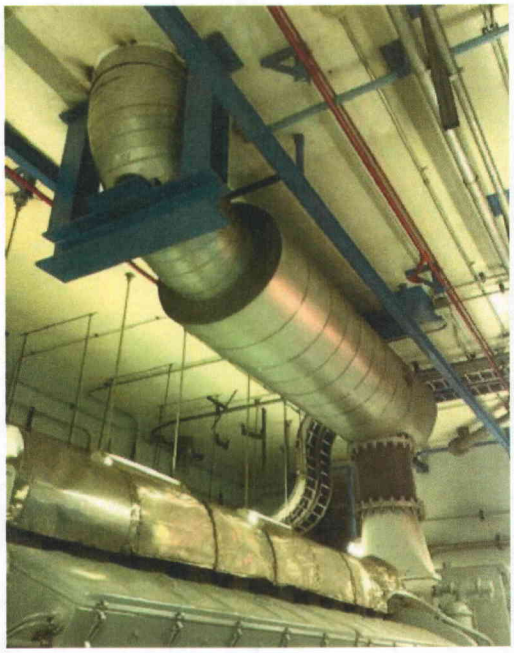


File Name: 2-62-8-1-20.jpeg
Description: General view of component

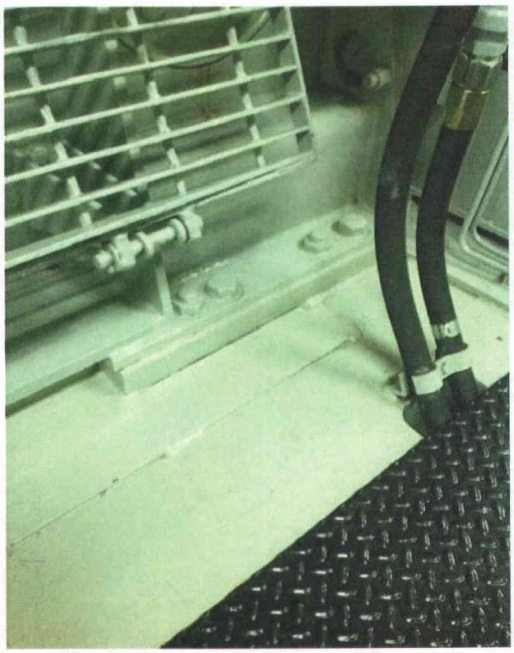
Seismic Walkdown Checklist (SWC) Status: Ⓨ N U

Equipment ID No. 1EE-EG-1 Equip. Class 17. Engine Generators

Equipment Description Diesel Generator



File Name: 2-63-8-1-20.jpeg
Description: View of marks surrounding DG exhaust pipe.

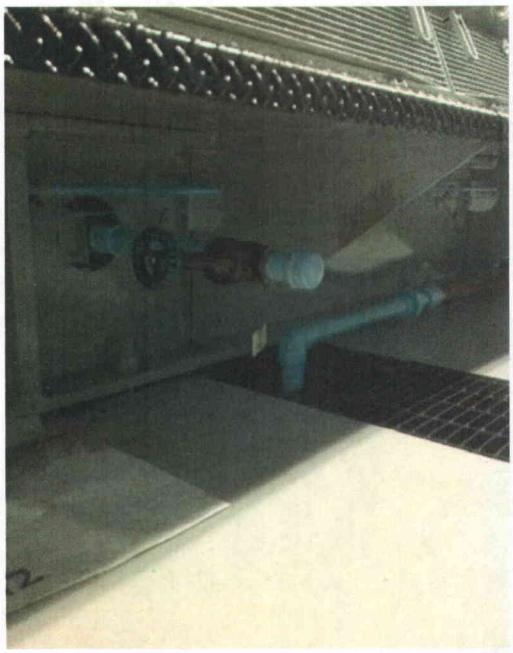


File Name: 2-64-8-1-20.jpeg
Description: Partial view of anchorage configuration

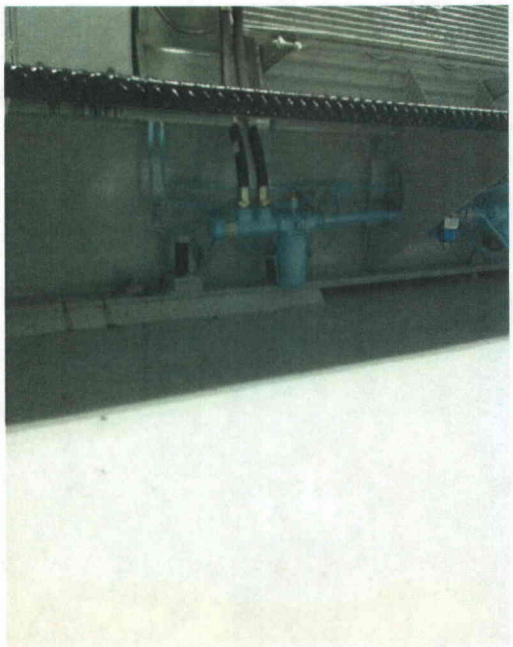
Seismic Walkdown Checklist (SWC) Status: Ⓨ N U

Equipment ID No. 1EE-EG-1 Equip. Class 17. Engine Generators

Equipment Description Diesel Generator



File Name: 2-73-8-1-20.jpeg
Description: View of base detail showing no grout below DG's middle section.



File Name: 2-94-8-1-20.jpeg
Description: View of base anchors and grouted section for DG base.

Seismic Walkdown Checklist (SWC) Status: Ⓨ N U

Equipment ID No. 1EE-EG-2 Equip. Class 17. Engine Generators

Equipment Description Diesel Generator

Location: Bldg. DGBX Floor El. 735

Manufacturer, Model, Etc. _____

Instructions for Completing Checklist

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

Anchorage

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

Anchored with 14-1 1/4" diam anchor bolts. 6 of 14 anchors are below the engine block and there is a gap of ~1/2" between floor and base of DG skid. Other anchors have grout pads. It is judged that the skid has adequate capacity for the demand loads. Also it is judged that bolt bending is not a concern due to gap of ~1 1/2". (see also calculation 52233-C-018).

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

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

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

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

Calculation 52233-C-018, page 4/17 confirms the anchorage configuration.

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

The support beams for the EDG skids were identified not to be grouted for their entire length. SQUG and design basis documentation provides justification for this finding.

Seismic Walkdown Checklist (SWC) Status: Ⓨ N U

Equipment ID No. 1EE-EG-2 Equip. Class 17. Engine Generators

Equipment Description Diesel Generator

Interaction Effects

	Y	N	U	N/A
7. Are soft targets free from impact by nearby equipment or structures?	X			
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	X			
9. Do attached lines have adequate flexibility to avoid damage?	X			

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

Other Adverse Conditions

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

Comments (Additional pages may be added as necessary)

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

Adam L. Helffrich Date: 10/1/2012

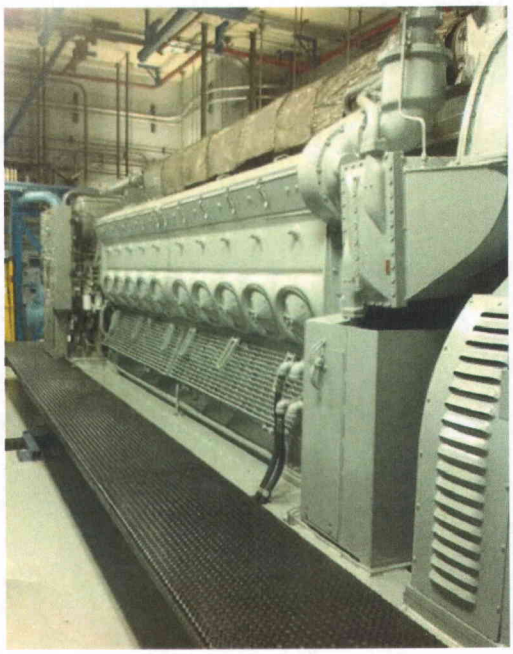
Seismic Walkdown Checklist (SWC) Status: Ⓨ N U

Equipment ID No. 1EE-EG-2 Equip. Class 17. Engine Generators

Equipment Description Diesel Generator

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

File Name: 2-61-3-1-21.jpeg
Description: Component Plate ID



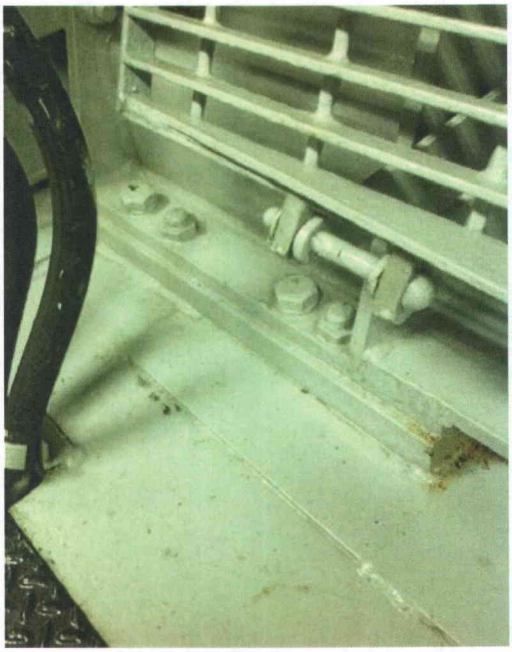
File Name: 2-62-3-1-21.jpeg
Description: General view of component

Seismic Walkdown Checklist (SWC) Status: Ⓨ N U

Equipment ID No. 1EE-EG-2 Equip. Class 17. Engine Generators

Equipment Description Diesel Generator

File Name: 2-63-3-1-21.jpeg
Description: General view of DG exhaust pipe

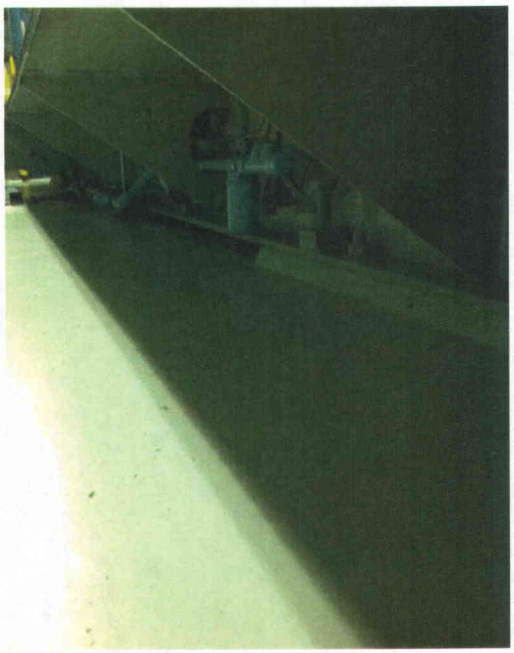


File Name: 2-64-3-1-21.jpeg
Description: Partial view of anchorage configuration

Seismic Walkdown Checklist (SWC) Status: Ⓨ N U

Equipment ID No. 1EE-EG-2 Equip. Class 17. Engine Generators

Equipment Description Diesel Generator



File Name: 2-73-3-1-21.jpeg
Description: View of base detail showing no grout below DG's middle section.

Seismic Walkdown Checklist (SWC) Status: Ⓨ N U

Equipment ID No. 1FC-E-1A Equip. Class 21. Tanks and Heat Exchangers

Equipment Description Fuel Pool Heat Exchanger 1A

Location: Bldg. FULB Floor El. 735

Manufacturer, Model, Etc. _____

Instructions for Completing Checklist

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

Anchorage

Y	N
	X

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

Mounted on two saddles. Fixed saddle with 8-5/8" diam anchor bolts and sliding saddle with 4-5/8" diam anchors. Mounted on ~3'-6" tall concrete pedestal. No edge distance issue found.

Y	N	U	N/A
X			

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

Y	N	U	N/A
X			

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

Y	N	U	N/A
X			

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

Y	N	U	N/A
			X

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

Y	N	U
X		

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

Seismic Walkdown Checklist (SWC) Status: Ⓨ N U

Equipment ID No. 1FC-E-1A Equip. Class 21. Tanks and Heat Exchangers

Equipment Description Fuel Pool Heat Exchanger 1A

Interaction Effects

	Y	N	U	N/A
7. Are soft targets free from impact by nearby equipment or structures?	X			
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	X			
9. Do attached lines have adequate flexibility to avoid damage? *Nozzle piping found to be well supported.*	X			

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

Other Adverse Conditions

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

Comments (Additional pages may be added as necessary)

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

Adam L. Helffrich Date: 10/1/2012

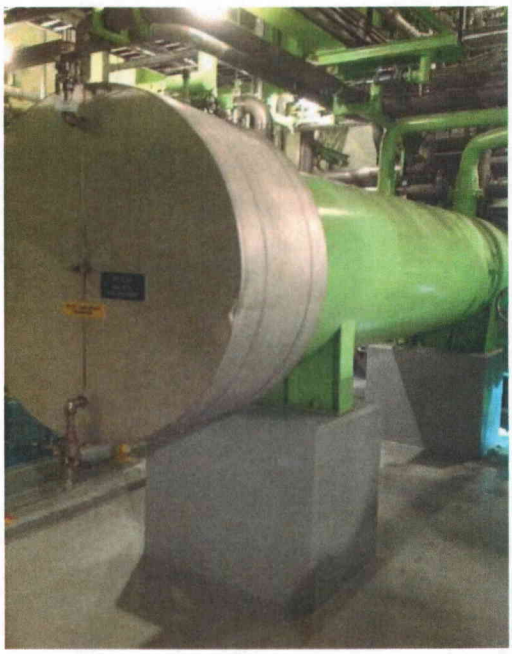
Seismic Walkdown Checklist (SWC) Status: Ⓨ N U

Equipment ID No. 1FC-E-1A Equip. Class 21. Tanks and Heat Exchangers

Equipment Description Fuel Pool Heat Exchanger 1A

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

File Name: 2-61-2-1-60.jpeg
Description: Component Plate ID



File Name: 2-62-2-1-60.jpeg
Description: General view of component

Seismic Walkdown Checklist (SWC) Status: Ⓨ N U

Equipment ID No. 1FC-E-1A Equip. Class 21. Tanks and Heat Exchangers

Equipment Description Fuel Pool Heat Exchanger 1A

File Name: 2-63-2-1-60.jpeg
Description: View of saddle outter anchorage configuration

File Name: 2-64-2-1-60.jpeg
Description: View of saddle inside anchorage configuration

Seismic Walkdown Checklist (SWC) Status: Ⓨ N U

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

Equipment Description Fuel Pool Recirculation Pump

Location: Bldg. FULB Floor El. 735

Manufacturer, Model, Etc. _____

Instructions for Completing Checklist

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

Anchorage

Y	N
	X

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

Small pump on ~6" tall concrete pad. Anchored with 4-1/2" diam anchors. No edge distance issue found.

Y	N	U	N/A
X			

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

Y	N	U	N/A
X			

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

Y	N	U	N/A
X			

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

Y	N	U	N/A
			X

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

Y	N	U
X		

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

Seismic Walkdown Checklist (SWC) Status: Ⓨ N U

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

Equipment Description Fuel Pool Recirculation Pump

Interaction Effects

	Y	N	U	N/A
7. Are soft targets free from impact by nearby equipment or structures?	X			
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	X			
9. Do attached lines have adequate flexibility to avoid damage? *Nozzle piping found to be well supported.*	X			

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

Other Adverse Conditions

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

Comments (Additional pages may be added as necessary)

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

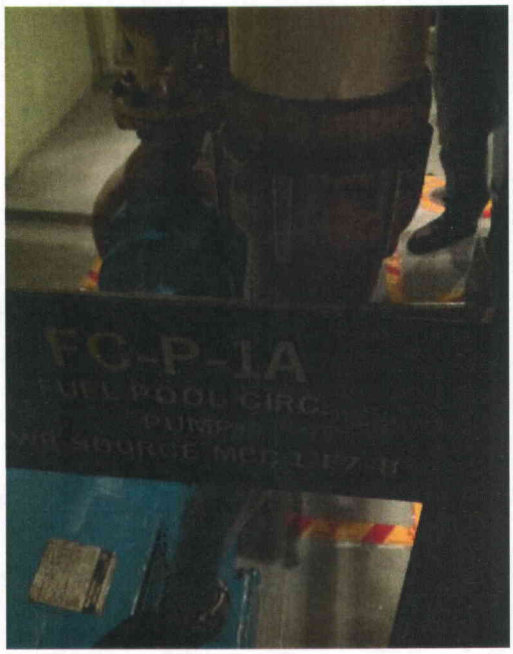
Adam L. Helffrich Date: 10/1/2012

Seismic Walkdown Checklist (SWC) Status: Ⓨ N U

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

Equipment Description Fuel Pool Recirculation Pump

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



File Name: 2-61-3-1-60.jpeg
Description: Component Plate ID

File Name: 2-62-3-1-60.jpeg
Description: General view of component

Seismic Walkdown Checklist (SWC) Status: Ⓨ N U

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

Equipment Description Fuel Pool Recirculation Pump

File Name: 2-63-3-1-60.jpeg
Description: View of anchorage base configuration

File Name: 2-64-3-1-60.jpeg
Description: Flexible attached lines

Seismic Walkdown Checklist (SWC) Status: (Y) N U

Equipment ID No. 1FW-PNL-100B Equip. Class 20. Instrument and Control Panels

Equipment Description HYV-1FW-100B Local Panel

Location: Bldg. SFGB Floor El. 735

Manufacturer, Model, Etc. _____

Instructions for Completing Checklist

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

Anchorage

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

Small panel (~30"x30"x10") mounted on HSS4x4 rack with 4-1/2" diam. channel nuts. Rack has three posts and carries two other similar panels. Each post is anchored with 4-5/8" diameter anchors.

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

Seismic Walkdown Checklist (SWC) Status: Ⓨ N U

Equipment ID No. 1FW-PNL-100B Equip. Class 20. Instrument and Control Panels

Equipment Description HYV-1FW-100B Local Panel

Interaction Effects

	Y	N	U	N/A
7. Are soft targets free from impact by nearby equipment or structures?	X			
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	X			
9. Do attached lines have adequate flexibility to avoid damage? *Attached top entry cables have adequate flexibility.*	X			

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

Other Adverse Conditions

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

Comments (Additional pages may be added as necessary)

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

Adam L. Helffrich Date: 10/1/2012

Seismic Walkdown Checklist (SWC) Status: Ⓨ N U

Equipment ID No. 1FW-PNL-100B Equip. Class 20. Instrument and Control Panels

Equipment Description HYV-1FW-100B Local Panel

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

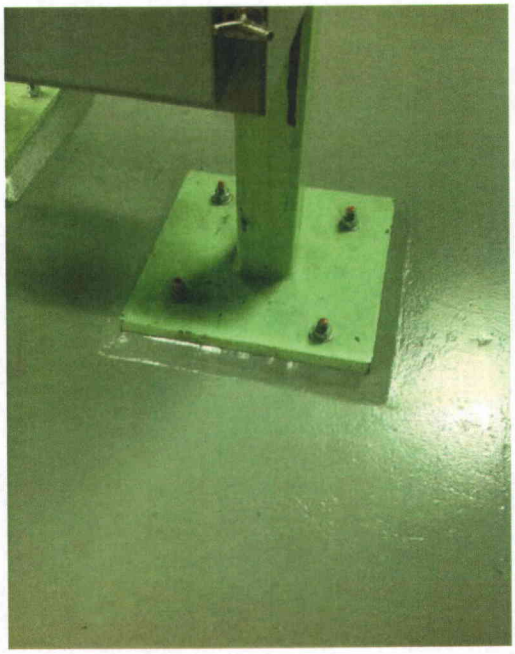
File Name: 2-61-1-1-60.jpeg
Description: Component Plate ID

File Name: 2-62-1-1-60.jpeg
Description: General view of component

Seismic Walkdown Checklist (SWC) Status: Ⓨ N U

Equipment ID No. 1FW-PNL-100B Equip. Class 20. Instrument and Control Panels

Equipment Description HYV-1FW-100B Local Panel



File Name: 2-63-1-1-60.jpeg
Description: View of panel anchorage

File Name: 2-64-1-1-60.jpeg
Description: View of channel struts attached to posts

Seismic Walkdown Checklist (SWC) Status: Ⓨ N U

Equipment ID No. 1FW-PNL-100B Equip. Class 20. Instrument and Control Panels

Equipment Description HYV-1FW-100B Local Panel

File Name: 2-73-1-1-60.jpeg
Description: View of top entry conduits

Seismic Walkdown Checklist (SWC) Status: Ⓨ N U

Equipment ID No. 1PC-145 Equip. Class 0D. Other-Check Valve or Manual Valve

Equipment Description Fuel Pool Clg Sys to RWST Recirc Sys Isol.

Location: Bldg. FULB Floor El. 735

Manufacturer, Model, Etc. _____

Instructions for Completing Checklist

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

Anchorage

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

Small manual valve on ~2 1/2" diam line. Piping found to be adequately supported.

	Y	N	U	N/A
2. Is the anchorage free of bent, broken, missing or loose hardware?				X
3. Is the anchorage free of corrosion that is more than mild surface oxidation?				X
4. Is the anchorage free of visible cracks in the concrete near the anchors?				X
5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)				X

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

Seismic Walkdown Checklist (SWC) Status: Ⓨ N U

Equipment ID No. 1PC-145 Equip. Class 0D. Other-Check Valve or Manual Valve

Equipment Description Fuel Pool Clg Sys to RWST Recirc Sys Isol.

Interaction Effects

	Y	N	U	N/A
7. Are soft targets free from impact by nearby equipment or structures?	X			
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	X			
9. Do attached lines have adequate flexibility to avoid damage?	X			

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

Other Adverse Conditions

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

Comments (Additional pages may be added as necessary)

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

Adam L. Helffrich Date: 10/1/2012

Seismic Walkdown Checklist (SWC) Status: Ⓨ N U

Equipment ID No. 1PC-145 Equip. Class 0D. Other-Check Valve or Manual Valve

Equipment Description Fuel Pool Clg Sys to RWST Recirc Sys Isol.

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

File Name: 2-61-5-1-60.jpeg
Description: Component Plate ID

File Name: 2-62-5-1-60.jpeg
Description: General view of component

Seismic Walkdown Checklist (SWC) Status: (Y) N U

Equipment ID No. 1PC-1FC-102A Equip. Class 18. Instrument (on) Racks

Equipment Description (PS-FC-102A) ISOL

Location: Bldg. FULB Floor El. 735

Manufacturer, Model, Etc.

Instructions for Completing Checklist

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

Anchorage

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

Y	N
	X

Rack consists of a 2 1/2" diam post (~5' tall) anchored with 4-3/8" diam anchor bolts. Instrument attached to face of the rack with 2-3/8" diam machine bolts. Intrument is very light (~1 lb).

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

Y	N	U	N/A
X			

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

Y	N	U	N/A
X			

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

Y	N	U	N/A
X			

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

Y	N	U	N/A
			X

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

Y	N	U
X		

Seismic Walkdown Checklist (SWC) Status: Ⓨ N U

Equipment ID No. 1PC-1FC-102A Equip. Class 18. Instrument (on) Racks

Equipment Description (PS-FC-102A) ISOL

Interaction Effects

	Y	N	U	N/A
7. Are soft targets free from impact by nearby equipment or structures?	X			
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	X			
9. Do attached lines have adequate flexibility to avoid damage? *Attached lines found with adequate flexibility.*	X			

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

Other Adverse Conditions

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

Comments (Additional pages may be added as necessary)

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

Adam L. Helffrich Date: 10/1/2012

Seismic Walkdown Checklist (SWC) Status: Ⓨ N U

Equipment ID No. 1PC-1FC-102A Equip. Class 18. Instrument (on) Racks

Equipment Description (PS-FC-102A) ISOL

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

File Name: 2-61-4-1-60.jpeg
Description: Component Plate ID

File Name: 2-62-4-1-60.jpeg
Description: General view of component

Seismic Walkdown Checklist (SWC) Status: Ⓨ N U

Equipment ID No. 1PC-1FC-102A Equip. Class 18. Instrument (on) Racks

Equipment Description (PS-FC-102A) ISOL

File Name: 2-63-4-1-60.jpeg
Description: Anchorage detail for post base plate

File Name: 2-64-4-1-60.jpeg
Description: View of intrument to steel plate connection

Seismic Walkdown Checklist (SWC) Status: (Y) N U

Equipment ID No. 1RW-189 Equip. Class 0D. Other-Check Valve or Manual Valve

Equipment Description Primary CCW HX Outlet Valve

Location: Bldg. AXLB Floor El. 735

Manufacturer, Model, Etc. _____

Instructions for Completing Checklist

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

Anchorage

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

Small manual valve on ~18" diam pipe line. No degraded condition identified.

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

Seismic Walkdown Checklist (SWC) Status: Ⓨ N U

Equipment ID No. 1RW-189 Equip. Class 0D. Other-Check Valve or Manual Valve

Equipment Description Primary CCW HX Outlet Valve

Interaction Effects

	Y	N	U	N/A
7. Are soft targets free from impact by nearby equipment or structures?	X			
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	X			
9. Do attached lines have adequate flexibility to avoid damage?	X			

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

Other Adverse Conditions

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

Comments (Additional pages may be added as necessary)

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

Adam L. Helffrich Date: 10/1/2012

Paul C. Rizzo Associates, Inc.
ENGINEERS & CONSULTANTS

Seismic Walkdown Checklist (SWC) Status: Ⓨ N U

Equipment ID No. 1RW-189 Equip. Class 0D. Other-Check Valve or Manual Valve

Equipment Description Primary CCW HX Outlet Valve

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

File Name: 2-61-2-1-47.jpeg
Description: Component Plate ID

File Name: 2-62-2-1-47.jpeg
Description: General view of component

Seismic Walkdown Checklist (SWC) Status: Ⓨ N U

Equipment ID No. 480VUS-1-8-N Equip. Class 2. Low Voltage Switchgear

Equipment Description 480V Bus

Location: Bldg. SRVB Floor El. 713

Manufacturer, Model, Etc.

Instructions for Completing Checklist

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

Anchorage

Y	N
	X

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

2-1/2" diam plug welds at front of sections verified. Welds at back of SWGR not inspected since SWGR was energized and inaccessible.

Y	N	U	N/A
X			

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

Y	N	U	N/A
X			

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

Y	N	U	N/A
X			

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

Y	N	U	N/A
			X

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

Y	N	U
X		

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

Seismic Walkdown Checklist (SWC) Status: Ⓨ N U

Equipment ID No. 480VUS-1-8-N Equip. Class 2. Low Voltage Switchgear

Equipment Description 480V Bus

Interaction Effects

	Y	N	U	N/A
7. Are soft targets free from impact by nearby equipment or structures?	X			
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	X			
9. Do attached lines have adequate flexibility to avoid damage?	X			

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

Other Adverse Conditions

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

Comments (Additional pages may be added as necessary)

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

Adam L. Helffrich Date: 10/1/2012

Seismic Walkdown Checklist (SWC) Status: Ⓨ N U

Equipment ID No. 480VUS-1-8-N Equip. Class 2. Low Voltage Switchgear

Equipment Description 480V Bus

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

File Name: 2-61-10-1-25.jpeg
Description: Component Plate ID

File Name: 2-62-10-1-25.jpeg
Description: General view of component

Seismic Walkdown Checklist (SWC) Status: Ⓨ N U

Equipment ID No. 480VUS-1-9-P Equip. Class 2. Low Voltage Switchgear

Equipment Description 480V Emergency Bus

Location: Bldg. SRVB Floor El. 713

Manufacturer, Model, Etc.

Instructions for Completing Checklist

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

Anchorage

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

2-1/2" diam plug welds at front of sections verified. Welds at back of SWGR not inspected since SWGR was energized and inaccessible.

	Y	N	U	N/A
2. Is the anchorage free of bent, broken, missing or loose hardware?	X			
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	X			
4. Is the anchorage free of visible cracks in the concrete near the anchors?	X			
5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)				X

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

Seismic Walkdown Checklist (SWC) Status: Ⓨ N U

Equipment ID No. 480VUS-1-9-P Equip. Class 2. Low Voltage Switchgear

Equipment Description 480V Emergency Bus

Interaction Effects

	Y	N	U	N/A
7. Are soft targets free from impact by nearby equipment or structures?	X			
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	X			
9. Do attached lines have adequate flexibility to avoid damage?	X			

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

Other Adverse Conditions

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

Comments (Additional pages may be added as necessary)

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

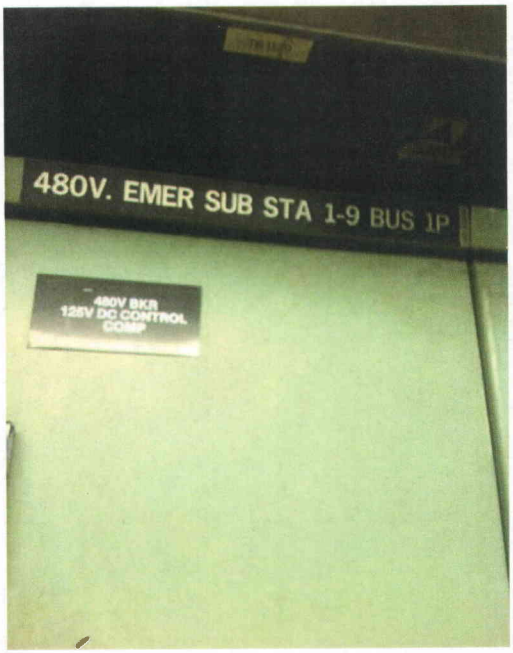
Adam L. Helffrich Date: 10/1/2012

Seismic Walkdown Checklist (SWC) Status: Ⓨ N U

Equipment ID No. 480VUS-1-9-P Equip. Class 2. Low Voltage Switchgear

Equipment Description 480V Emergency Bus

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



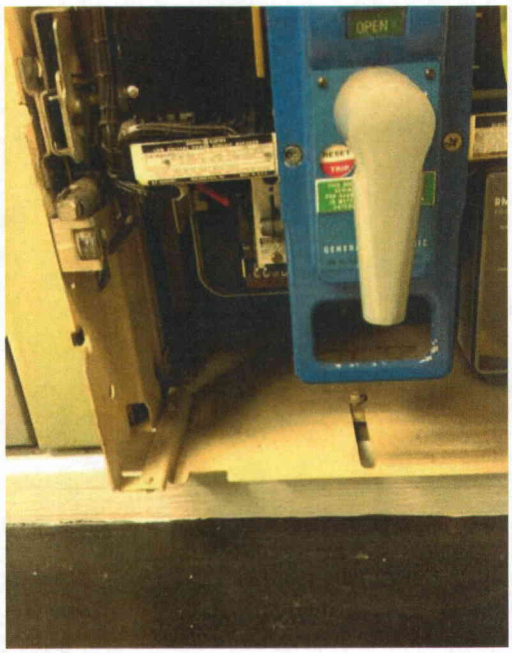
File Name: 2-61-4-1-26.jpeg
Description: Component Plate ID

File Name: 2-62-4-1-26.jpeg
Description: General view of component

Seismic Walkdown Checklist (SWC) Status: Ⓨ N U

Equipment ID No. 480VUS-1-9-P Equip. Class 2. Low Voltage Switchgear

Equipment Description 480V Emergency Bus



File Name: 2-63-4-1-26.jpeg
Description: Base detail from inside of component

Seismic Walkdown Checklist (SWC) Status: (Y) N U

Equipment ID No. 4KVS-1AE Equip. Class 3. Medium Voltage Switchgear

Equipment Description 4160V Emergency Bus

Location: Bldg. SRVB Floor El. 713

Manufacturer, Model, Etc. _____

Instructions for Completing Checklist

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

Anchorage

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

8 plug welds (1-1/4" diam) verified at the front of the SWGR sections. Welds at the back not verified as the panel was energized. 3 rows of embed channels under the SWGR were verified. Two at front of the SWGR and one at the back.

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

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

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

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

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

Seismic Walkdown Checklist (SWC) Status: Ⓨ N U

Equipment ID No. 4KVS-1AE Equip. Class 3. Medium Voltage Switchgear

Equipment Description 4160V Emergency Bus

Interaction Effects

	Y	N	U	N/A
7. Are soft targets free from impact by nearby equipment or structures?	X			
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	X			
9. Do attached lines have adequate flexibility to avoid damage?	X			

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

Other Adverse Conditions

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

Comments (Additional pages may be added as necessary)

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

Adam L. Helffrich Date: 10/1/2012

Seismic Walkdown Checklist (SWC) Status: Ⓨ N U

Equipment ID No. 4KVS-1AE Equip. Class 3. Medium Voltage Switchgear

Equipment Description 4160V Emergency Bus

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

File Name: 2-61-9-1-25.jpeg
Description: General view inside of component

File Name: 2-62-9-1-25.jpeg
Description: Inside view of component showing base detail

Seismic Walkdown Checklist (SWC) Status: Ⓨ N U

Equipment ID No. 4KVS-1AE Equip. Class 3. Medium Voltage Switchgear

Equipment Description 4160V Emergency Bus

File Name: 2-63-9-1-25.jpeg
Description: Component Plate ID

File Name: 2-64-9-1-25.jpeg
Description: General view of component

Seismic Walkdown Checklist (SWC) Status: Ⓨ N U

Equipment ID No. 4KVS-1AE Equip. Class 3. Medium Voltage Switchgear

Equipment Description 4160V Emergency Bus

File Name: 2-73-9-1-25.jpeg
Description: View of steel floor embeddment

Seismic Walkdown Checklist (SWC) Status: Ⓨ N U

Equipment ID No. 4KVS-1DF Equip. Class 3. Medium Voltage Switchgear

Equipment Description 4160V Bus

Location: Bldg. SRVB Floor El. 713

Manufacturer, Model, Etc.

Instructions for Completing Checklist

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

Anchorage

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

8 plug welds (1-1/4" diam) verified at the front of the SWGR sections. Welds at the back not verified as the panel was energized. 3 rows of embed channels under the SWGR were verified. Two at front of the SWGR and one at the back.

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

Seismic Walkdown Checklist (SWC) Status: Ⓨ N U

Equipment ID No. 4KVS-1DF Equip. Class 3. Medium Voltage Switchgear

Equipment Description 4160V Bus

Interaction Effects

	Y	N	U	N/A
7. Are soft targets free from impact by nearby equipment or structures?	X			
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	X			
9. Do attached lines have adequate flexibility to avoid damage?	X			

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

Other Adverse Conditions

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

Comments (Additional pages may be added as necessary)

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

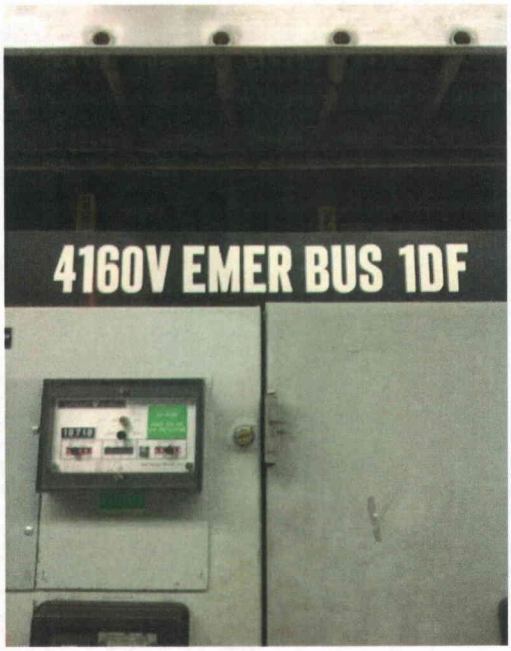
Adam L. Helffrich Date: 10/1/2012

Seismic Walkdown Checklist (SWC) Status: Ⓨ N U

Equipment ID No. 4KVS-1DF Equip. Class 3. Medium Voltage Switchgear

Equipment Description 4160V Bus

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



File Name: 2-61-3-1-26.jpeg
Description: Component Plate ID

File Name: 2-62-3-1-26.jpeg
Description: General view of component

Seismic Walkdown Checklist (SWC) Status: Ⓨ N U

Equipment ID No. 4KVS-1DF Equip. Class 3. Medium Voltage Switchgear

Equipment Description 4160V Bus

File Name: 2-63-3-1-26.jpeg
Description: General view inside of component

File Name: 2-64-3-1-26.jpeg
Description: Inside view of component showing base detail

Seismic Walkdown Checklist (SWC) Status: Ⓨ N U

Equipment ID No. BAT-1-1 Equip. Class 15. Battery Racks

Equipment Description 125V DC Battery/Instrument Control Power

Location: Bldg. SRVB Floor El. 713

Manufacturer, Model, Etc. _____

Instructions for Completing Checklist

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

Anchorage

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

Braced rack-double wide rack composed of 6 bays. Each bay anchoraed with 6-1/2" diam anchors. End restraints and spacers found in adequate condition.

	Y	N	U	N/A
2. Is the anchorage free of bent, broken, missing or loose hardware?	X			
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	X			
4. Is the anchorage free of visible cracks in the concrete near the anchors?	X			
5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)	X			

Anchorage configuration confirmed per drawing 8700-1.24-1E and calcualtion 52233-C-016 Anchorage Calc.

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

Seismic Walkdown Checklist (SWC) Status: Ⓨ N U

Equipment ID No. BAT-1-1 Equip. Class 15. Battery Racks

Equipment Description 125V DC Battery/Instrument Control Power

Interaction Effects

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

	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? *Block walls SB-1-11, SB-1-12, SB-1-13, SB-1-14 and SB-1-15 have been qualified per IE 80-11 review.*	X			

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

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

Other Adverse Conditions

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

Comments (Additional pages may be added as necessary)

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

Adam L. Helffrich Date: 10/1/2012

Seismic Walkdown Checklist (SWC) Status: Ⓨ N U

Equipment ID No. BAT-1-1 Equip. Class 15. Battery Racks

Equipment Description 125V DC Battery/Instrument Control Power

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

File Name: 2-73-1-1-11.jpeg
Description: Component Plate ID

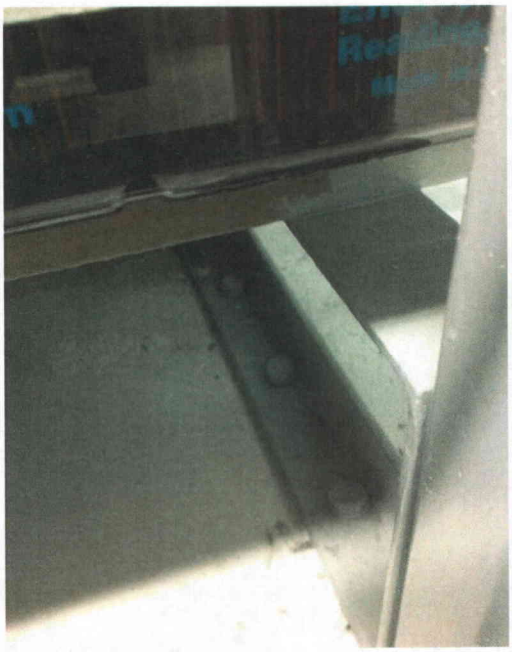
File Name: 2-61-1-1-11.jpeg
Description: General view of component

Seismic Walkdown Checklist (SWC) Status: Ⓨ N U

Equipment ID No. BAT-1-1 Equip. Class 15. Battery Racks

Equipment Description 125V DC Battery/Instrument Control Power

File Name: 2-62-1-1-11.jpeg
Description: View of flexible attached lines



File Name: 2-63-1-1-11.jpeg
Description: Typical frame anchorage configuration

Seismic Walkdown Checklist (SWC) Status: Ⓨ N U

Equipment ID No. BAT-1-2 Equip. Class 15. Battery Racks

Equipment Description 125V DC Battery 2/Instrument Control Power

Location: Bldg. SRVB Floor El. 713

Manufacturer, Model, Etc. _____

Instructions for Completing Checklist

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

Anchorage

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

Braced rack-double wide rack composed of 6 bays. Each bay anchoraed with 6-1/2" diam anchors. End restraints and spacers found in adequate condition.

	Y	N	U	N/A
2. Is the anchorage free of bent, broken, missing or loose hardware?	X			
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	X			
4. Is the anchorage free of visible cracks in the concrete near the anchors?	X			
5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)	X			

Anchorage configuration confirmed per drawing 8700-1.24-1E and calcualtion 52233-C-016 Anchorage Calc.

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

Seismic Walkdown Checklist (SWC) Status: Ⓨ N U

Equipment ID No. BAT-1-2 Equip. Class 15. Battery Racks

Equipment Description 125V DC Battery 2/Instrument Control Power

Interaction Effects

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

	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?	X			

Block walls SB-1-11, SB-1-12, SB-1-13, SB-1-14 and SB-1-15 have been qualified per IE 80-11 review.

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

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

Other Adverse Conditions

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

Comments (Additional pages may be added as necessary)

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

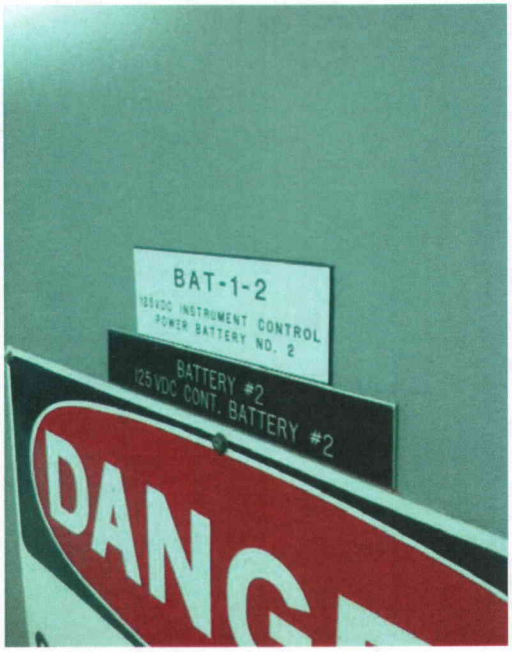
Adam L. Helffrich Date: 10/1/2012

Seismic Walkdown Checklist (SWC) Status: Ⓨ N U

Equipment ID No. BAT-1-2 Equip. Class 15. Battery Racks

Equipment Description 125V DC Battery 2/Instrument Control Power

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



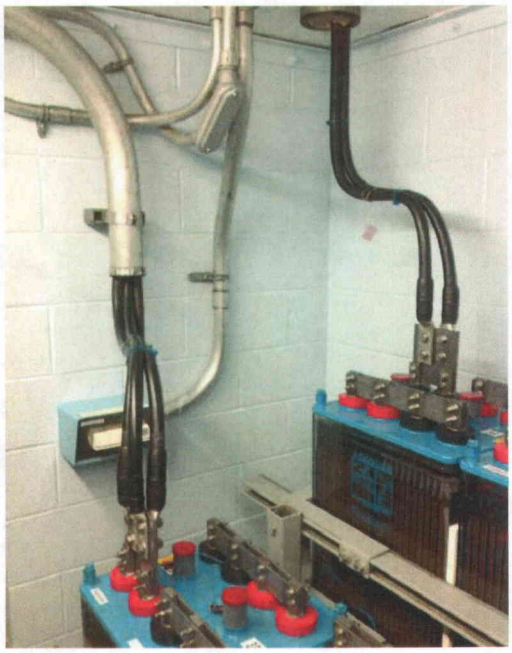
File Name: 2-73-1-1-01.jpeg
Description: Component Plate ID

File Name: 2-61-1-1-01.jpeg
Description: General view of component

Seismic Walkdown Checklist (SWC) Status: Ⓨ N U

Equipment ID No. BAT-1-2 Equip. Class 15. Battery Racks

Equipment Description 125V DC Battery 2/Instrument Control Power



File Name: 2-62-1-1-01.jpeg
Description: Flexible attached lines

File Name: 2-63-1-1-01.jpeg
Description: Typical frame anchorage configuration

Seismic Walkdown Checklist (SWC) Status: Ⓨ N U

Equipment ID No. BAT-CHG-1-1 Equip. Class 16. Battery Chargers and Inverters

Equipment Description Station Battery Charger NO. 1

Location: Bldg. SRVB Floor El. 713

Manufacturer, Model, Etc.

Instructions for Completing Checklist

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

Anchorage

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

Charger anchored with 4-5/8" diam anchors. ~4" gap found to next panel judged not a concern.

	Y	N	U	N/A
2. Is the anchorage free of bent, broken, missing or loose hardware?	X			
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	X			
4. Is the anchorage free of visible cracks in the concrete near the anchors?	X			
5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)	X			

Anchorage configuration confirmed per Calculation DSC-6698

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

Seismic Walkdown Checklist (SWC) Status: Ⓨ N U

Equipment ID No. BAT-CHG-1-1 Equip. Class 16. Battery Chargers and Inverters

Equipment Description Station Battery Charger NO. 1

Interaction Effects

	Y	N	U	N/A
7. Are soft targets free from impact by nearby equipment or structures?	X			
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	X			
9. Do attached lines have adequate flexibility to avoid damage? *Top entry conduits found with adequate flexibility.*	X			

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

Other Adverse Conditions

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

Comments (Additional pages may be added as necessary)

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

Adam L. Helffrich Date: 10/1/2012

Seismic Walkdown Checklist (SWC) Status: Ⓨ N U

Equipment ID No. BAT-CHG-1-1 Equip. Class 16. Battery Chargers and Inverters

Equipment Description Station Battery Charger NO. 1

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

File Name: 2-61-1-1-03.jpeg
Description: Component Plate ID

File Name: 2-62-1-1-03.jpeg
Description: General view of component

Seismic Walkdown Checklist (SWC) Status: Ⓨ N U

Equipment ID No. BAT-CHG-1-1 Equip. Class 16. Battery Chargers and Inverters

Equipment Description Station Battery Charger NO. 1

File Name: 2-63-1-1-03.jpeg
Description: View of top entry conduits

File Name: 2-64-1-1-03.jpeg
Description: View of component anchroage configuration

Seismic Walkdown Checklist (SWC) Status: Y Ⓝ U

Equipment ID No. BAT-CHG1-2-A Equip. Class 16. Battery Chargers and Inverters

Equipment Description Battery Charger

Location: Bldg. SRVB Floor El. 713

Manufacturer, Model, Etc.

Instructions for Completing Checklist

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

Anchorage

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

Component identified as a compartment in BAT-CHG1-2. Battery charger is anchored with 4-5/8" diam anchors.

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

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

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

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

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

Seismic Walkdown Checklist (SWC) Status: Y Ⓝ U

Equipment ID No. BAT-CHG1-2-A Equip. Class 16. Battery Chargers and Inverters

Equipment Description Battery Charger

Interaction Effects

	Y	N	U	N/A
7. Are soft targets free from impact by nearby equipment or structures? *Battery charger BV-BAT-CHG1-2 is adjacent to switchboard DC-SWBD1-2 and there is 0" gap between the two panels. These panels are not connected to each other and hence Condition Report CR-2012-14321 was issued to resolve this concern.*		X		
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	X			
9. Do attached lines have adequate flexibility to avoid damage?	X			

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

Other Adverse Conditions

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

Comments (Additional pages may be added as necessary)

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

Adam L. Helffrich Date: 10/1/2012

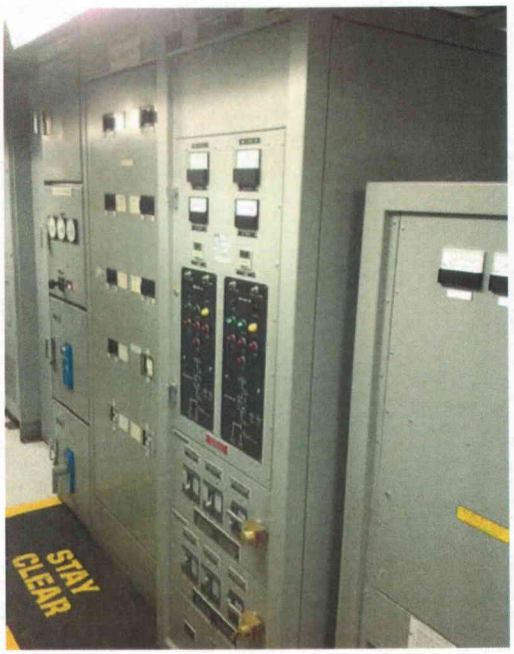
Seismic Walkdown Checklist (SWC) Status: Y Ⓝ U

Equipment ID No. BAT-CHG1-2-A Equip. Class 16. Battery Chargers and Inverters

Equipment Description Battery Charger

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

File Name: 2-61-5-1-26.jpeg
Description: Component Plate ID



File Name: 2-62-5-1-26.jpeg
Description: General view of component

Seismic Walkdown Checklist (SWC) Status: Y Ⓝ U

Equipment ID No. BAT-CHG1-2-A Equip. Class 16. Battery Chargers and Inverters

Equipment Description Battery Charger

File Name: 2-63-5-1-26.jpeg
Description: View of component anchroage configuration

File Name: 2-64-5-1-26.jpeg
Description: View of top entry conduits

Seismic Walkdown Checklist (SWC) Status: Ⓨ N U

Equipment ID No. BAT-CHG-1-3 Equip. Class 16. Battery Chargers and Inverters

Equipment Description Station Battery Charger NO. 3

Location: Bldg. SRVB Floor El. 713

Manufacturer, Model, Etc. _____

Instructions for Completing Checklist

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

Anchorage

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

Charger anchored with 4-5/8" diam anchors. ~4" gap found to next panel judged not a concern.

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

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

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

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

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

Seismic Walkdown Checklist (SWC) Status: Ⓨ N U

Equipment ID No. BAT-CHG-1-3 Equip. Class 16. Battery Chargers and Inverters

Equipment Description Station Battery Charger NO. 3

Interaction Effects

	Y	N	U	N/A
7. Are soft targets free from impact by nearby equipment or structures?	X			
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? *Block wall SB-1-15 has been qualified per IE 80-11 review.*	X			
9. Do attached lines have adequate flexibility to avoid damage? *Top entry conduits found with adequate flexibility.*	X			

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

Other Adverse Conditions

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

Comments (Additional pages may be added as necessary)

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

Adam L. Helffrich Date: 10/1/2012

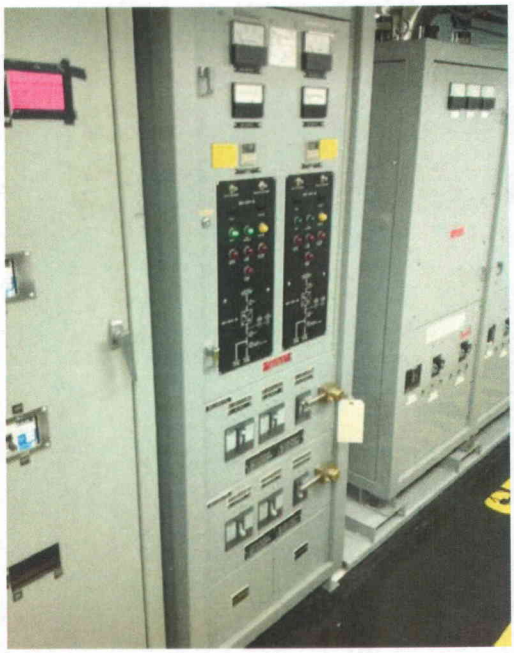
Seismic Walkdown Checklist (SWC) Status: Ⓨ N U

Equipment ID No. BAT-CHG-1-3 Equip. Class 16. Battery Chargers and Inverters

Equipment Description Station Battery Charger NO. 3

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

File Name: 2-61-1-1-02.jpeg
Description: Component Plate ID



File Name: 2-62-1-1-02.jpeg
Description: General view of component

Seismic Walkdown Checklist (SWC) Status: Ⓨ N U

Equipment ID No. BAT-CHG-1-3 Equip. Class 16. Battery Chargers and Inverters

Equipment Description Station Battery Charger NO. 3

File Name: 2-63-1-1-02.jpeg
Description: View of top entry conduits

File Name: 2-64-1-1-02.jpeg
Description: View of component anchorage configuration

Seismic Walkdown Checklist (SWC) Status: Ⓨ N U

Equipment ID No. BAT-CHG-1-3 Equip. Class 16. Battery Chargers and Inverters

Equipment Description Station Battery Charger NO. 3

File Name: 2-73-1-1-02.jpeg
Description: Close up view of component anchorage

Seismic Walkdown Checklist (SWC) Status: Ⓨ N U

Equipment ID No. BB-A1 Equip. Class 20. Instrument and Control Panels

Equipment Description Control Room

Location: Bldg. SRVB Floor El. 735

Manufacturer, Model, Etc.

Instructions for Completing Checklist

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

Anchorage

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

Control room bench board. Anchorage is covered with mastic and cannot be inspected.

Seismic Walkdown Checklist (SWC) Status: Ⓨ N U

Equipment ID No. BB-A1 Equip. Class 20. Instrument and Control Panels

Equipment Description Control Room

Interaction Effects

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

	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?	X			

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

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

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

Other Adverse Conditions

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

Comments (Additional pages may be added as necessary)

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

Adam L. Helffrich Date: 10/1/2012

Seismic Walkdown Checklist (SWC) Status: Ⓨ N U

Equipment ID No. BB-A1 Equip. Class 20. Instrument and Control Panels

Equipment Description Control Room

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

File Name: 2-61-5-1-18.jpeg
Description: General view of component

File Name: 2-62-5-1-18.jpeg
Description: View of insulating material covering component anchorage

Seismic Walkdown Checklist (SWC) Status: Ⓨ N U

Equipment ID No. BB-A1 Equip. Class 20. Instrument and Control Panels

Equipment Description Control Room

File Name: 2-63-5-1-18.jpeg
Description: View of electrical instrumentation connected to panel

Seismic Walkdown Checklist (SWC) Status: Ⓨ N U

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

Equipment Description Component Cooling Water Surge Tank

Location: Bldg. AXLB Floor El. 768

Manufacturer, Model, Etc. _____

Instructions for Completing Checklist

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

Anchorage

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

Tank supported on 4 legs (L6 x 6 x 1/2). Each leg anchored with 1-1" diam anchor.

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

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

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

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

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

Seismic Walkdown Checklist (SWC) Status: Ⓨ N U

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

Equipment Description Component Cooling Water Surge Tank

Interaction Effects

	Y	N	U	N/A
7. Are soft targets free from impact by nearby equipment or structures?	X			
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	X			
9. Do attached lines have adequate flexibility to avoid damage?	X			

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

Other Adverse Conditions

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

Comments (Additional pages may be added as necessary)

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

Adam L. Helffrich Date: 10/1/2012

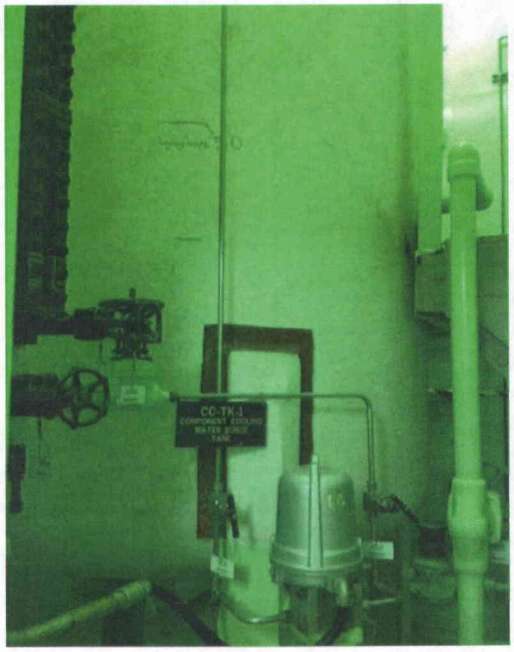
Seismic Walkdown Checklist (SWC) Status: Ⓨ N U

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

Equipment Description Component Cooling Water Surge Tank

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

File Name: 2-61-1-1-15.jpeg
Description: Component Plate ID



File Name: 2-63-1-1-15.jpeg
Description: General view of component

Seismic Walkdown Checklist (SWC) Status: Ⓨ N U

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

Equipment Description Component Cooling Water Surge Tank

File Name: 2-62-1-1-15.jpeg
Description: View of anchorage detail for a typical tank support

Seismic Walkdown Checklist (SWC) Status: Ⓨ N U

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

Equipment Description Charging High-Head Safety Injection Pump

Location: Bldg. AXLB Floor El. 722

Manufacturer, Model, Etc. _____

Instructions for Completing Checklist

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

Anchorage

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

Pump anchored with 16-1" anchor bolts. Mounting base found in good condition.

	Y	N	U	N/A
2. Is the anchorage free of bent, broken, missing or loose hardware?	X			
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	X			
4. Is the anchorage free of visible cracks in the concrete near the anchors?	X			
5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)	X			

Anchorage verified per calculations CH-P-1C and 52233-C-007.

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

Seismic Walkdown Checklist (SWC) Status: Ⓨ N U

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

Equipment Description Charging High-Head Safety Injection Pump

Interaction Effects

	Y	N	U	N/A
7. Are soft targets free from impact by nearby equipment or structures?	X			
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	X			
9. Do attached lines have adequate flexibility to avoid damage?	X			

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

Other Adverse Conditions

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

Comments (Additional pages may be added as necessary)

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

Adam L. Helffrich Date: 10/1/2012

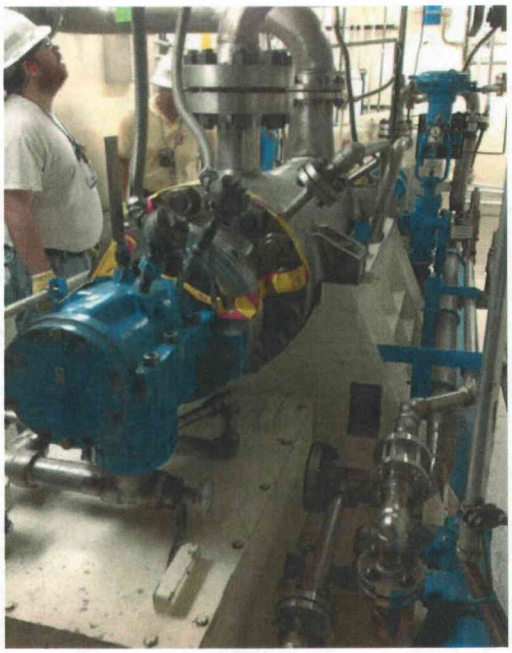
Seismic Walkdown Checklist (SWC) Status: Ⓨ N U

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

Equipment Description Charging High-Head Safety Injection Pump

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

File Name: 2-61-1-1-17.jpeg
Description: Component Plate ID



File Name: 2-62-1-1-17.jpeg
Description: General view of component

Seismic Walkdown Checklist (SWC) Status: Ⓨ N U

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

Equipment Description Charging High-Head Safety Injection Pump

File Name: 2-63-1-1-17.jpeg
Description: View of component anchorage configuration

File Name: 2-73-1-1-17.jpeg
Description: View of flexible attached lines

Seismic Walkdown Checklist (SWC) Status: Ⓨ N U

Equipment ID No. CH-BL-2 Equip. Class 21. Tanks and Heat Exchangers

Equipment Description Boric Acid Blender

Location: Bldg. AXLB Floor El. 768

Manufacturer, Model, Etc.

Instructions for Completing Checklist

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

Anchorage

Y	N
	X

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

Small tank (~5' diam x ~6' tall) supported off of a steel platform at its mid-height. The stiffened ring support is attached to steel platform by 8-1" diam machine bolts. The agitator is directly attached to top of the tank with 8-5/8" diam machine bolts with flange connections. The braced steel platform is attached to wall at top and anchored to floor through two posts.

Y	N	U	N/A
X			

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

Y	N	U	N/A
X			

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

Y	N	U	N/A
X			

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

Y	N	U	N/A
			X

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

Y	N	U
X		

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

Seismic Walkdown Checklist (SWC) Status: Ⓨ N U

Equipment ID No. CH-BL-2 Equip. Class 21. Tanks and Heat Exchangers

Equipment Description Boric Acid Blender

Interaction Effects

	Y	N	U	N/A
7. Are soft targets free from impact by nearby equipment or structures?	X			
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	X			
9. Do attached lines have adequate flexibility to avoid damage?	X			

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

Other Adverse Conditions

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

Comments (Additional pages may be added as necessary)

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

Adam L. Helffrich Date: 10/1/2012

Seismic Walkdown Checklist (SWC) Status: Ⓨ N U

Equipment ID No. CH-BL-2 Equip. Class 21. Tanks and Heat Exchangers

Equipment Description Boric Acid Blender

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

File Name: 2-61-6-1-60.jpeg
Description: Component Plate ID

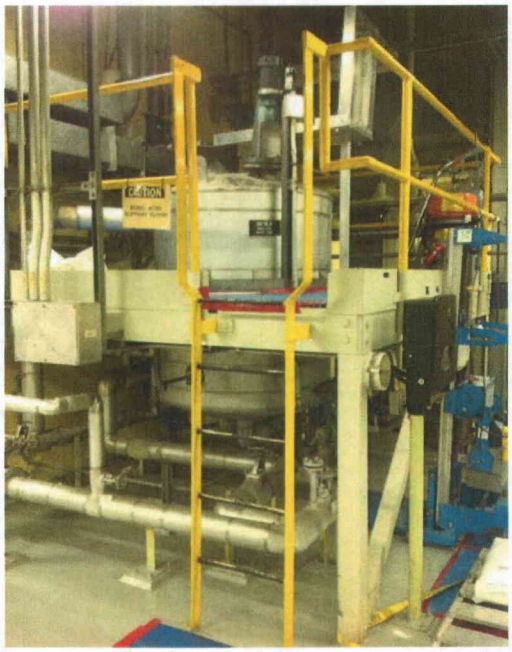
File Name: 2-62-6-1-60.jpeg
Description: General view of component

Seismic Walkdown Checklist (SWC) Status: Ⓨ N U

Equipment ID No. CH-BL-2 Equip. Class 21. Tanks and Heat Exchangers

Equipment Description Boric Acid Blender

File Name: 2-63-6-1-60.jpeg
Description: View of agitator mounting on Boric Acid Batch Tank



File Name: 2-64-6-1-60.jpeg
Description: View of platform surrounding Boric Acid Batch Tank

Seismic Walkdown Checklist (SWC) Status: Ⓨ N U

Equipment ID No. CH-P-2A Equip. Class 5. Horizontal Pumps

Equipment Description Boric Acid Transfer Pump

Location: Bldg. AXLB Floor El. 752

Manufacturer, Model, Etc. _____

Instructions for Completing Checklist

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

Anchorage

Y	N
	X

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

Only two out of 4 anchors visible (2 are below an insulated box over the pump portion). 2-5/8" anchors identified.

Y	N	U	N/A
X			

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

Y	N	U	N/A
X			

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

Y	N	U	N/A
X			

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

Y	N	U	N/A
			X

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

Y	N	U
X		

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

Seismic Walkdown Checklist (SWC) Status: Ⓨ N U

Equipment ID No. CH-P-2A Equip. Class 5. Horizontal Pumps

Equipment Description Boric Acid Transfer Pump

Interaction Effects

	Y	N	U	N/A
7. Are soft targets free from impact by nearby equipment or structures?	X			
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	X			
9. Do attached lines have adequate flexibility to avoid damage? *Nozzles are identified to be well supported.*	X			

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

Other Adverse Conditions

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

Comments (Additional pages may be added as necessary)

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

Adam L. Helffrich Date: 10/1/2012

Seismic Walkdown Checklist (SWC) Status: Ⓨ N U

Equipment ID No. CH-P-2A Equip. Class 5. Horizontal Pumps

Equipment Description Boric Acid Transfer Pump

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

File Name: 2-61-1-1-13.jpeg
Description: Component Plate ID

File Name: 2-62-1-1-13.jpeg
Description: General view of component

Seismic Walkdown Checklist (SWC) Status: Ⓨ N U

Equipment ID No. CH-P-2A Equip. Class 5. Horizontal Pumps

Equipment Description Boric Acid Transfer Pump

File Name: 2-63-1-1-13.jpeg
Description: View of component anchorage configuration

Seismic Walkdown Checklist (SWC) Status: Ⓨ N U

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

Equipment Description Boric Acid Tank

Location: Bldg. AXLB Floor El. 752

Manufacturer, Model, Etc.

Instructions for Completing Checklist

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

Anchorage

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

Tank supported on 4 legs. Each leg anchored with 2-1" diam anchor bolts. Thread engagement at one of the anchors is short by ~1/2 thread. Judged not a concern.

	Y	N	U	N/A
2. Is the anchorage free of bent, broken, missing or loose hardware?	X			
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	X			
4. Is the anchorage free of visible cracks in the concrete near the anchors?	X			
5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)	X			

Anchorage calculation 52233-C-031 confirms configuration

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

Seismic Walkdown Checklist (SWC) Status: Ⓨ N U

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

Equipment Description Boric Acid Tank

Interaction Effects

	Y	N	U	N/A
7. Are soft targets free from impact by nearby equipment or structures?	X			
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	X			
9. Do attached lines have adequate flexibility to avoid damage?	X			

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

Other Adverse Conditions

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

Comments (Additional pages may be added as necessary)

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

Adam L. Helffrich Date: 10/1/2012

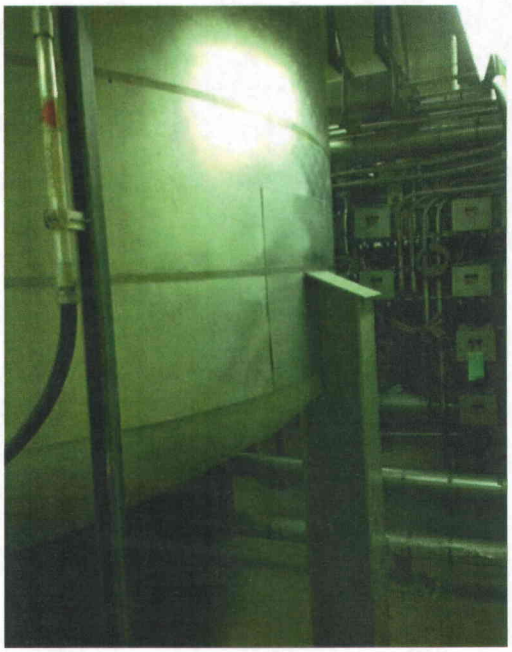
Seismic Walkdown Checklist (SWC) Status: Ⓨ N U

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

Equipment Description Boric Acid Tank

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

File Name: 2-61-1-1-14.jpeg
Description: Component Plate ID



File Name: 2-62-1-1-14.jpeg
Description: General view of component

Seismic Walkdown Checklist (SWC) Status: Ⓨ N U

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

Equipment Description Boric Acid Tank

File Name: 2-63-1-1-14.jpeg
Description: View of anchorage detail for a typical tank support

Seismic Walkdown Checklist (SWC) Status: Ⓨ N U

Equipment ID No. DC-SWBD1-1 Equip. Class 14. Distribution Panels

Equipment Description 125V DC Bus

Location: Bldg. SRVB Floor El. 713

Manufacturer, Model, Etc.

Instructions for Completing Checklist

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

Anchorage

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

The switchboard is attached to three sill channels at base with six 1/2" diameter bolts. The sill channels are anchored to concrete floor with six 1/2" diameter anchor bolts (2 at front, 2 at middle and 2 at back). Component identified not to be attached to adjacent DC Battery SWGR No.1 panel. No essential relays identified in either of the two panels, and therefore judged not a concern.

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

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

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

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

Both SEWS and calc. 52233-C-014 identify four attachment points for this switchboard. The referenced calculation conservatively shows anchor bolt adequacy based on four bolt pattern.

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

Seismic Walkdown Checklist (SWC) Status: Ⓨ N U

Equipment ID No. DC-SWBD1-1 Equip. Class 14. Distribution Panels

Equipment Description 125V DC Bus

Interaction Effects

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

	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? *Block walls SB-1-11, SB-1-12 and SB-1-13 have been qualified per IE 80-11 review.*	X			

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

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

Other Adverse Conditions

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

Comments (Additional pages may be added as necessary)

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

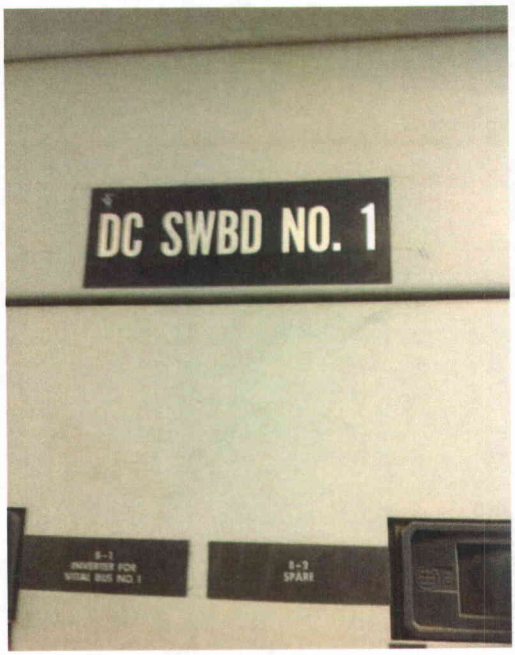
Adam L. Helffrich Date: 10/1/2012

Seismic Walkdown Checklist (SWC) Status: Ⓨ N U

Equipment ID No. DC-SWBD1-1 Equip. Class 14. Distribution Panels

Equipment Description 125V DC Bus

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



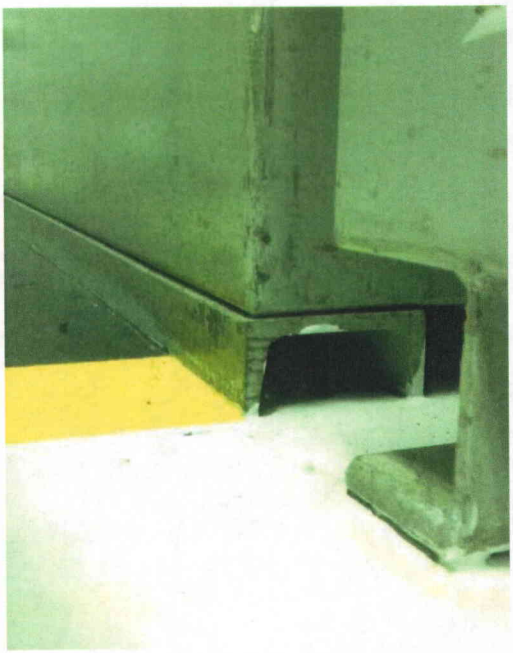
File Name: 2-61-11-1-25.jpeg
Description: Component Plate ID

File Name: 2-62-11-1-25.jpeg
Description: General view of component

Seismic Walkdown Checklist (SWC) Status: Ⓨ N U

Equipment ID No. DC-SWBD1-1 Equip. Class 14. Distribution Panels

Equipment Description 125V DC Bus



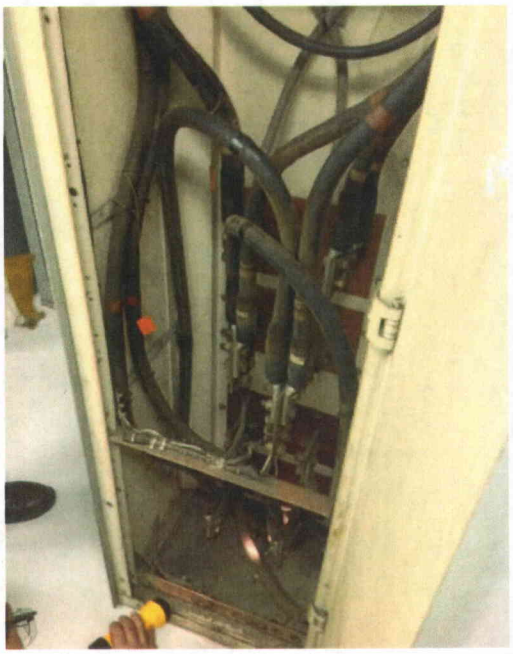
File Name: 2-63-11-1-25.jpeg
Description: View of channel mounting base

File Name: 2-64-11-1-25.jpeg
Description: General view inside component

Seismic Walkdown Checklist (SWC) Status: Ⓨ N U

Equipment ID No. DC-SWBD1-1 Equip. Class 14. Distribution Panels

Equipment Description 125V DC Bus



File Name: 2-94-11-1-25.jpeg
Description: Inside view of back of battery braker

File Name: 2-95-11-1-25.jpeg
Description: One 1/2" diam anchor bolt identified at back of breaker.

Seismic Walkdown Checklist (SWC) Status: Ⓨ N U

Equipment ID No. DC-SWBD1-1 Equip. Class 14. Distribution Panels

Equipment Description 125V DC Bus

File Name: 2-96-11-1-25.jpeg
Description: Inside view from back of switch board

File Name: 2-97-11-1-25.jpeg
Description: 2 bolts identified at back of switch board.

Seismic Walkdown Checklist (SWC) Status: Y Ⓝ U

Equipment ID No. DC-SWBD1-2 Equip. Class 14. Distribution Panels

Equipment Description 125V DC Bus

Location: Bldg. SRVB Floor El. 713

Manufacturer, Model, Etc.

Instructions for Completing Checklist

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

Anchorage

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

The switchboard is attached to three sill channels at base with six 1/2" diameter bolts. The sill channels are anchored to concrete floor with six 1/2" diameter anchor bolts (2 at front, 2 at middle and 2 at back).

	Y	N	U	N/A
2. Is the anchorage free of bent, broken, missing or loose hardware?	X			
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	X			
4. Is the anchorage free of visible cracks in the concrete near the anchors?	X			
5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)	X			

Both SEWS and calc. 52233-C-014 identify four attachment points for this switchboard. The referenced calculation conservatively shows anchor bolt adequacy based on four bolt pattern.

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

Seismic Walkdown Checklist (SWC) Status: Y Ⓝ U

Equipment ID No. DC-SWBD1-2 Equip. Class 14. Distribution Panels

Equipment Description 125V DC Bus

Interaction Effects

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

There is a potential for seismic interaction identified between switch board BV-DC-SWBD1-2 and Battery Charger BV-BAT-CHG1-2. Condition Report issued for this condition (CR 2012-14321).

	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?	X			

Block walls SB-1-6, SB-1-7 and SB-1-8 have been qualified per IE 80-11 review.

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

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

Other Adverse Conditions

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

Comments (Additional pages may be added as necessary)

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

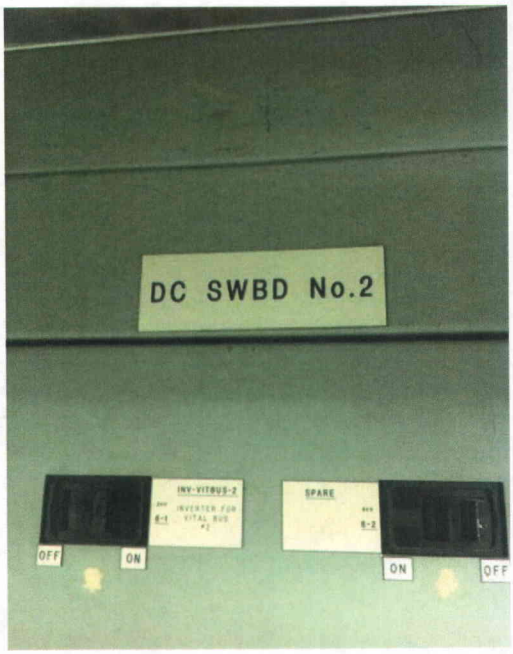
Adam L. Helffrich Date: 10/1/2012

Seismic Walkdown Checklist (SWC) Status: Y Ⓝ U

Equipment ID No. DC-SWBD1-2 Equip. Class 14. Distribution Panels

Equipment Description 125V DC Bus

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



File Name: 2-61-6-1-26.jpeg
Description: Component Plate ID

File Name: 2-62-6-1-26.jpeg
Description: General view of component

Seismic Walkdown Checklist (SWC) Status: Y Ⓝ U

Equipment ID No. DC-SWBD1-2 Equip. Class 14. Distribution Panels

Equipment Description 125V DC Bus

File Name: 2-64-6-1-26.jpeg
Description: View of flexible lines going though switch board cabinet

File Name: 2-73-6-1-26.jpeg
Description: Inside view from front of component

Seismic Walkdown Checklist (SWC) Status: Y Ⓝ U

Equipment ID No. DC-SWBD1-2 Equip. Class 14. Distribution Panels

Equipment Description 125V DC Bus

File Name: 2-94-6-1-26.jpeg
Description: View of anchorage detail from front of component

File Name: 2-95-6-1-26.jpeg
Description: General view from inside of battery braker taken from the back

Seismic Walkdown Checklist (SWC) Status: Y Ⓝ U

Equipment ID No. DC-SWBD1-2 Equip. Class 14. Distribution Panels

Equipment Description 125V DC Bus

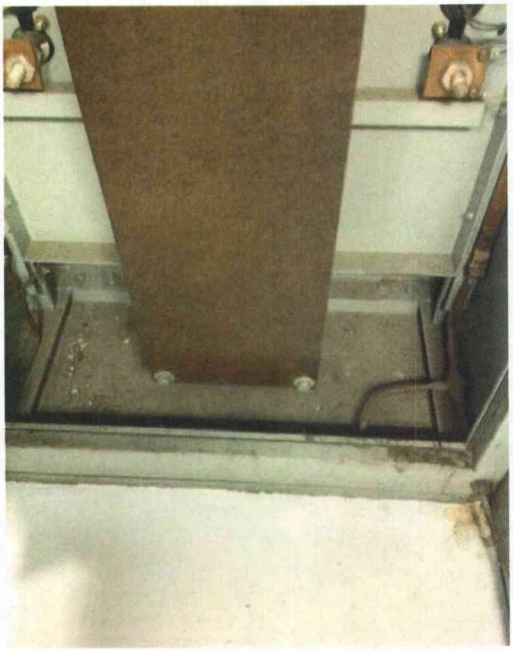
File Name: 2-96-6-1-26.jpeg
Description: One 1/2" diam anchor bolt identified at back of breaker.

File Name: 2-97-6-1-26.jpeg
Description: View of switchboard anchorage taken from back

Seismic Walkdown Checklist (SWC) Status: Y Ⓝ U

Equipment ID No. DC-SWBD1-2 Equip. Class 14. Distribution Panels

Equipment Description 125V DC Bus



File Name: 2-98-6-1-26.jpeg
Description: General view for inside of switch board taken from back

Seismic Walkdown Checklist (SWC) Status: Ⓨ N U

Equipment ID No. DC-SWBD1-3 Equip. Class 14. Distribution Panels

Equipment Description 125V DC Bus 3

Location: Bldg. SRVB Floor El. 713

Manufacturer, Model, Etc. _____

Instructions for Completing Checklist

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

Anchorage

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

The switchboard is attached to three sill channels at base with six 1/2" diameter bolts. The sill channels are anchored to concrete floor with six 1/2" diameter anchor bolts (2 at front, 2 at middle and 2 at back). Component identified not to be attached to adjacent DC Battery SWGR No.3 panel. No essential relays identified therefore judged not a concern. DC Battery SWGR No.3 Panel identified to be anchored with 2-1/2" diam anchors at front and 1-1/2" diam anchor at back of panel. Typical configuration for all SWBD's.

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

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

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

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

Both SEWS and calc. 52233-C-014 identify four attachment points for this switchboard. The referenced calculation conservatively shows anchor bolt adequacy based on four bolt pattern.

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

Seismic Walkdown Checklist (SWC) Status: Ⓨ N U

Equipment ID No. DC-SWBD1-3 Equip. Class 14. Distribution Panels

Equipment Description 125V DC Bus 3

Interaction Effects

	Y	N	U	N/A
7. Are soft targets free from impact by nearby equipment or structures?	X			
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? *Block wall SB-1-15 has been qualified per IE 80-11 review.*	X			
9. Do attached lines have adequate flexibility to avoid damage?	X			

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

Other Adverse Conditions

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

Comments (Additional pages may be added as necessary)

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

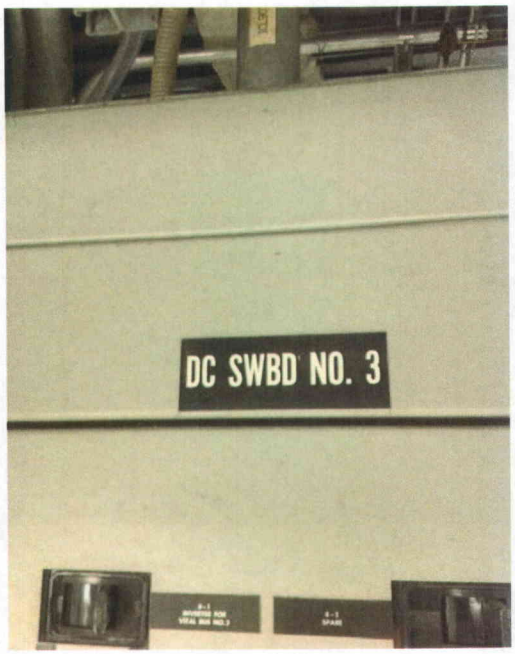
Adam L. Helffrich Date: 10/1/2012

Seismic Walkdown Checklist (SWC) Status: Ⓨ N U

Equipment ID No. DC-SWBD1-3 Equip. Class 14. Distribution Panels

Equipment Description 125V DC Bus 3

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



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

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

Seismic Walkdown Checklist (SWC) Status: Ⓨ N U

Equipment ID No. DC-SWBD1-3 Equip. Class 14. Distribution Panels

Equipment Description 125V DC Bus 3

File Name: 2-63-1-1-25.jpeg
Description: View of channel mounting base

File Name: 2-73-1-1-25.jpeg
Description: View of flexible lines going though switch board cabinet

Seismic Walkdown Checklist (SWC) Status: Ⓨ N U

Equipment ID No. DC-SWBD1-3 Equip. Class 14. Distribution Panels

Equipment Description 125V DC Bus 3

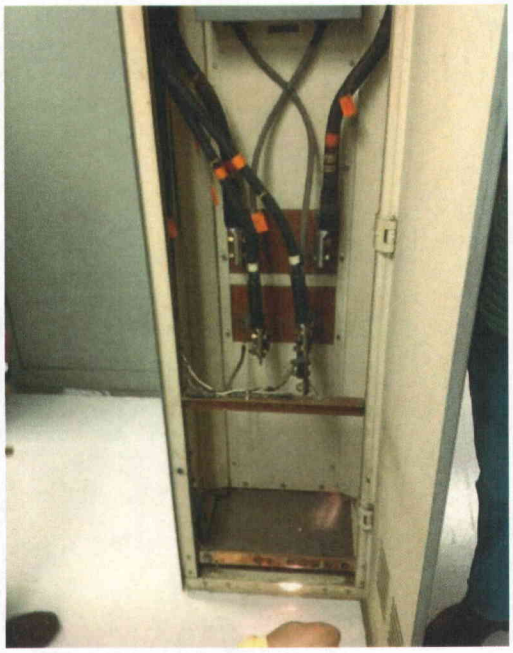
File Name: 2-94-1-1-25.jpeg
Description: General view from inside of component taken from the front

File Name: 2-95-1-1-25.jpeg
Description: General view from inside of component taken from the back

Seismic Walkdown Checklist (SWC) Status: Ⓨ N U

Equipment ID No. DC-SWBD1-3 Equip. Class 14. Distribution Panels

Equipment Description 125V DC Bus 3



File Name: 2-96-1-1-25.jpeg
Description: General view from inside of braker taken from behind

File Name: 2-97-1-1-25.jpeg
Description: One 1/2" diam anchor bolt identified at back of breaker.

Seismic Walkdown Checklist (SWC) Status: Ⓨ N U

Equipment ID No. DC-SWBD1-3 Equip. Class 14. Distribution Panels

Equipment Description 125V DC Bus 3

File Name: 2-98-1-1-25.jpeg
Description: Anchorage detail of braker taken from the front

Seismic Walkdown Checklist (SWC) Status: Ⓨ N U

Equipment ID No. DC-SWBD1-4 Equip. Class 14. Distribution Panels

Equipment Description 125V DC Bus 4

Location: Bldg. SRVB Floor El. 713

Manufacturer, Model, Etc.

Instructions for Completing Checklist

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

Anchorage

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

The switchboard is attached to three sill channels at base with six 1/2" diameter bolts. The sill channels are anchored to concrete floor with six 1/2" diameter anchor bolts (2 at front, 2 at middle and 2 at back). Component identified to be attached to adjacent DC Battery SWGR No. 4.

	Y	N	U	N/A
2. Is the anchorage free of bent, broken, missing or loose hardware?	X			
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	X			
4. Is the anchorage free of visible cracks in the concrete near the anchors?	X			
5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)	X			

Both SEWS and calc. 52233-C-014 identify four attachment points for this switchboard. The referenced calculation conservatively shows anchor bolt adequacy based on four bolt pattern.

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

Seismic Walkdown Checklist (SWC) Status: Ⓨ N U

Equipment ID No. DC-SWBD1-4 Equip. Class 14. Distribution Panels

Equipment Description 125V DC Bus 4

Interaction Effects

	Y	N	U	N/A
7. Are soft targets free from impact by nearby equipment or structures?	X			
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? *Block wall SB-1-9 has been qualified per IE 80-11 review.*	X			
9. Do attached lines have adequate flexibility to avoid damage?	X			

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

Other Adverse Conditions

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

Comments (Additional pages may be added as necessary)

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

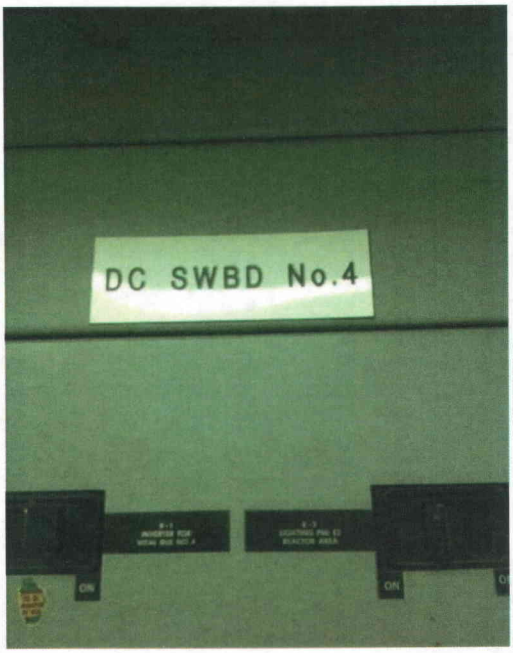
Adam L. Helffrich Date: 10/1/2012

Seismic Walkdown Checklist (SWC) Status: Ⓨ N U

Equipment ID No. DC-SWBD1-4 Equip. Class 14. Distribution Panels

Equipment Description 125V DC Bus 4

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



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

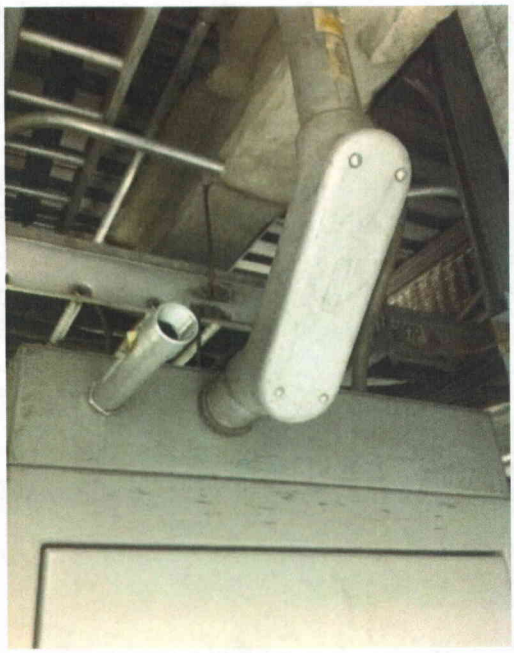
File Name: 2-62-2-1-25.jpeg
Description: General view of component

Seismic Walkdown Checklist (SWC) Status: Ⓨ N U

Equipment ID No. DC-SWBD1-4 Equip. Class 14. Distribution Panels

Equipment Description 125V DC Bus 4

File Name: 2-63-2-1-25.jpeg
Description: View of channel mounting base



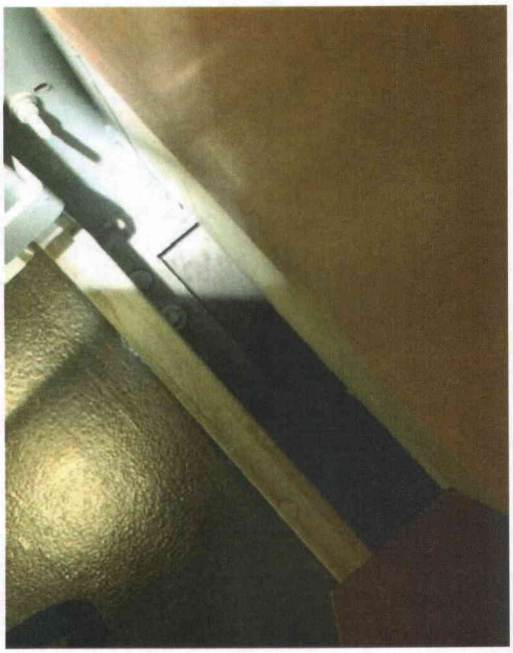
File Name: 2-64-2-1-25.jpeg
Description: View of back entry conduit

Seismic Walkdown Checklist (SWC) Status: Ⓨ N U

Equipment ID No. DC-SWBD1-4 Equip. Class 14. Distribution Panels

Equipment Description 125V DC Bus 4

File Name: 2-73-2-1-25.jpeg
Description: General view of inside of component



File Name: 2-94-2-1-25.jpeg
Description: View of anchorage detail taken from the back

Seismic Walkdown Checklist (SWC) Status: Ⓨ N U

Equipment ID No. DC-SWBD1-4 Equip. Class 14. Distribution Panels

Equipment Description 125V DC Bus 4

File Name: 2-95-2-1-25.jpeg
Description: View of base detail for braker section

Seismic Walkdown Checklist (SWC) Status: Ⓨ N U

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

Equipment Description Diesel Generator Fuel Oil Transfer Pump

Location: Bldg. DGBX Floor El. 735

Manufacturer, Model, Etc.

Instructions for Completing Checklist

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

Anchorage

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

Small pump anchored to concrete pad with 4-1/2" diam anchor bolts with adequate edge distance.

	Y	N	U	N/A
2. Is the anchorage free of bent, broken, missing or loose hardware?	X			
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	X			
4. Is the anchorage free of visible cracks in the concrete near the anchors?	X			

Some minor cracks noticed on concrete pad and judged acceptable.

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

Anchorage verified per document 52233-C-007 Anchorage Calc

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

Seismic Walkdown Checklist (SWC) Status: Ⓨ N U

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

Equipment Description Diesel Generator Fuel Oil Transfer Pump

Interaction Effects

	Y	N	U	N/A
7. Are soft targets free from impact by nearby equipment or structures?	X			
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	X			
9. Do attached lines have adequate flexibility to avoid damage? *Nozzles are identified to be well supported.*	X			

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

Other Adverse Conditions

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

Comments (Additional pages may be added as necessary)

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

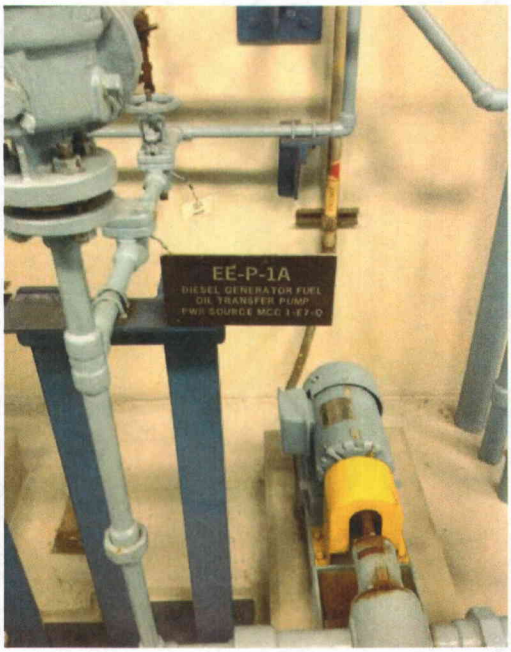
Adam L. Helffrich Date: 10/1/2012

Seismic Walkdown Checklist (SWC) Status: Ⓨ N U

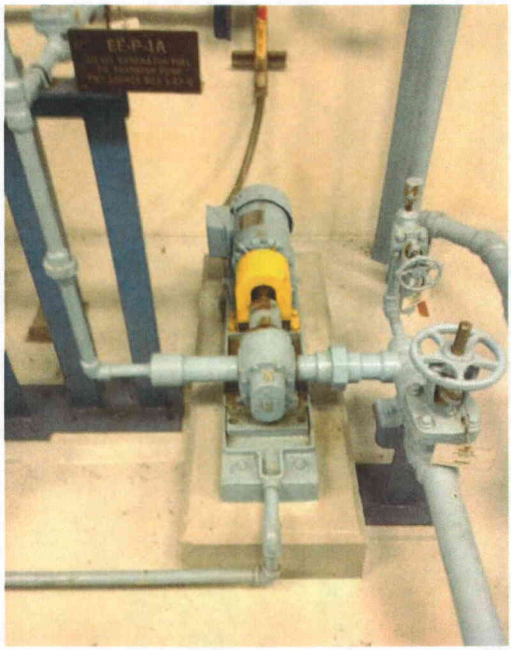
Equipment ID No. EE-P-1A Equip. Class 5. Horizontal Pumps

Equipment Description Diesel Generator Fuel Oil Transfer Pump

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



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



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

Seismic Walkdown Checklist (SWC) Status: Ⓨ N U

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

Equipment Description Diesel Generator Fuel Oil Transfer Pump

File Name: 2-63-1-1-20.jpeg
Description: View of component anchroage configuration

Seismic Walkdown Checklist (SWC) Status: Ⓨ N U

Equipment ID No. EE-TK-2A Equip. Class 21. Tanks and Heat Exchangers

Equipment Description EE-EG-1 Fuel Oil Day Tank

Location: Bldg. DGBX Floor El. 735

Manufacturer, Model, Etc. _____

Instructions for Completing Checklist

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

Anchorage

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

Tank is mounted on braced steel framing (HSS4x4x1/4). Each of four posts are anchored with 4-1" diameter anchor bolts.

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

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

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

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

Anchorage configuration confirmed by Drawing RS-0019Q

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

Seismic Walkdown Checklist (SWC) Status: Ⓨ N U

Equipment ID No. EE-TK-2A Equip. Class 21. Tanks and Heat Exchangers

Equipment Description EE-EG-1 Fuel Oil Day Tank

Interaction Effects

	Y	N	U	N/A
7. Are soft targets free from impact by nearby equipment or structures?	X			
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	X			
9. Do attached lines have adequate flexibility to avoid damage? *Attached piping are rigidly supported.*	X			

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

Other Adverse Conditions

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

Comments (Additional pages may be added as necessary)

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

Adam L. Helffrich Date: 10/1/2012

Seismic Walkdown Checklist (SWC) Status: Ⓨ N U

Equipment ID No. EE-TK-2A Equip. Class 21. Tanks and Heat Exchangers

Equipment Description EE-EG-1 Fuel Oil Day Tank

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

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

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

Seismic Walkdown Checklist (SWC) Status: Ⓨ N U

Equipment ID No. EE-TK-2A Equip. Class 21. Tanks and Heat Exchangers

Equipment Description EE-EG-1 Fuel Oil Day Tank

File Name: 2-63-2-1-20.jpeg
Description: View of component anchorage

Seismic Walkdown Checklist (SWC) Status: Ⓨ N U

Equipment ID No. FCV-1CH-113A Equip. Class 7. Pneumatic-Operated Valve

Equipment Description Boric Acid to Blender FCV

Location: Bldg. AXLB Floor El. 722

Manufacturer, Model, Etc. _____

Instructions for Completing Checklist

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

Anchorage

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

Seismic Walkdown Checklist (SWC) Status: Ⓨ N U

Equipment ID No. FCV-1CH-113A Equip. Class 7. Pneumatic-Operated Valve

Equipment Description Boric Acid to Blender FCV

Interaction Effects

	Y	N	U	N/A
7. Are soft targets free from impact by nearby equipment or structures?	X			
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	X			
9. Do attached lines have adequate flexibility to avoid damage? *Attached lines found with adequate flexibility.*	X			

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

Other Adverse Conditions

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

Comments (Additional pages may be added as necessary)

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

Adam L. Helffrich Date: 10/1/2012

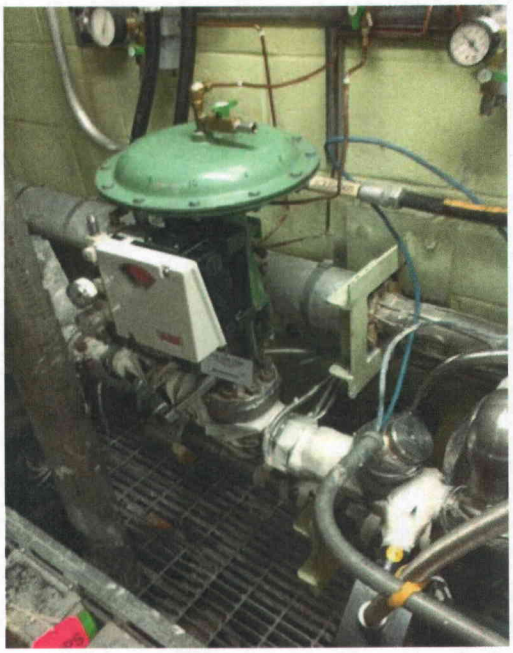
Seismic Walkdown Checklist (SWC) Status: Ⓨ N U

Equipment ID No. FCV-1CH-113A Equip. Class 7. Pneumatic-Operated Valve

Equipment Description Boric Acid to Blender FCV

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

File Name: 2-61-2-1-12.jpeg
Description: Component Plate ID



File Name: 2-62-2-1-12.jpeg
Description: General view of component

Seismic Walkdown Checklist (SWC) Status: Ⓨ N U

Equipment ID No. FCV-1FW-103B Equip. Class 7. Pneumatic-Operated Valve

Equipment Description 3B AFW Pump Recirc Control Valve

Location: Bldg. SFGB Floor El. 735

Manufacturer, Model, Etc. _____

Instructions for Completing Checklist

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

Anchorage

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

Small AOV on ~3" line well supported and found in good condition.

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

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ENGINEERS & CONSULTANTS

Seismic Walkdown Checklist (SWC) Status: Ⓨ N U

Equipment ID No. FCV-1FW-103B Equip. Class 7. Pneumatic-Operated Valve

Equipment Description 3B AFW Pump Recirc Control Valve

Interaction Effects

	Y	N	U	N/A
7. Are soft targets free from impact by nearby equipment or structures?	X			
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	X			
9. Do attached lines have adequate flexibility to avoid damage?	X			

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

Other Adverse Conditions

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

Comments (Additional pages may be added as necessary)

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

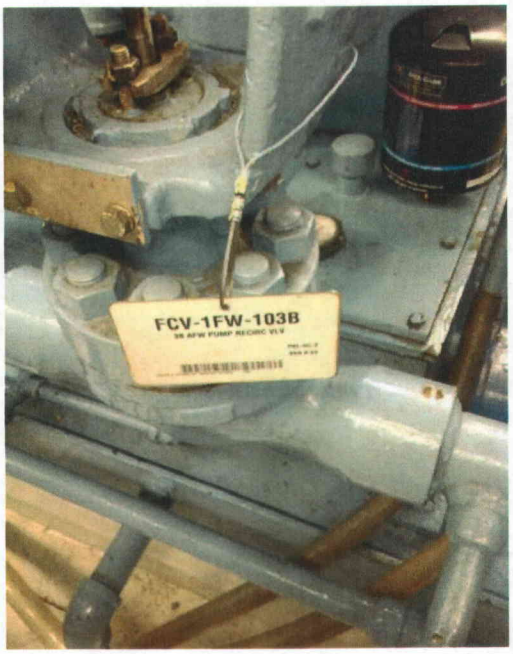
Adam L. Helffrich Date: 10/1/2012

Seismic Walkdown Checklist (SWC) Status: Ⓨ N U

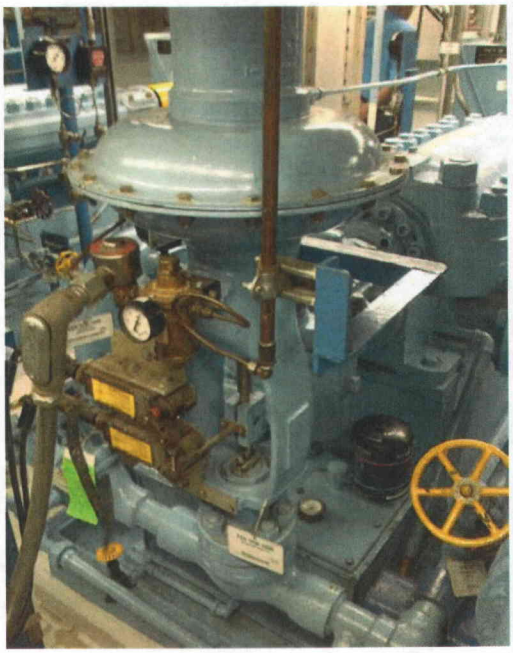
Equipment ID No. FCV-1FW-103B Equip. Class 7. Pneumatic-Operated Valve

Equipment Description 3B AFW Pump Recirc Control Valve

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



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



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

Seismic Walkdown Checklist (SWC) Status: Ⓨ N U

Equipment ID No. FCV-1FW-103B Equip. Class 7. Pneumatic-Operated Valve

Equipment Description 3B AFW Pump Recirc Control Valve

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

Seismic Walkdown Checklist (SWC) Status: (Y) N U

Equipment ID No. FW-59 Equip. Class 0D. Other-Check Valve or Manual Valve

Equipment Description Common Lube Oil Coolers 3-way Manual Valve

Location: Bldg. SFGB Floor El. 735

Manufacturer, Model, Etc. _____

Instructions for Completing Checklist

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

Anchorage

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

Mounted on a ~2 1/2" diam line with adequate support configuration.

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

Seismic Walkdown Checklist (SWC) Status: Ⓨ N U

Equipment ID No. FW-59 Equip. Class 0D. Other-Check Valve or Manual Valve

Equipment Description Common Lube Oil Coolers 3-way Manual Valve

Interaction Effects

	Y	N	U	N/A
7. Are soft targets free from impact by nearby equipment or structures?	X			
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? *Nearby temporary scaffold identified to be well restrained.*	X			
9. Do attached lines have adequate flexibility to avoid damage?	X			

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

Other Adverse Conditions

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

Comments (Additional pages may be added as necessary)

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

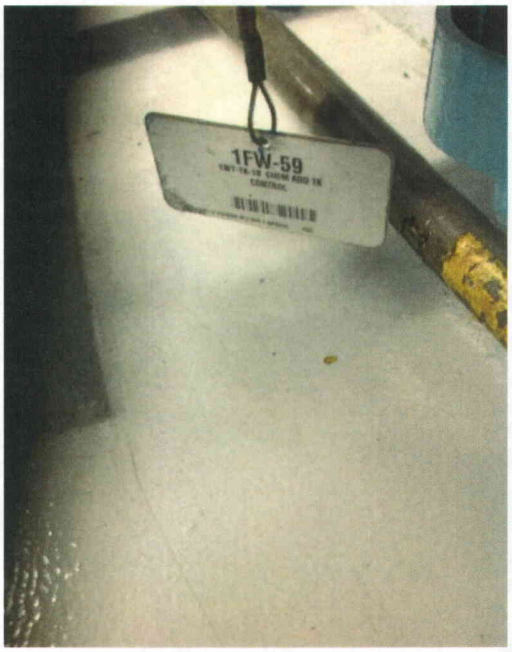
Adam L. Helffrich Date: 10/1/2012

Seismic Walkdown Checklist (SWC) Status: Ⓨ N U

Equipment ID No. FW-59 Equip. Class 0D. Other-Check Valve or Manual Valve

Equipment Description Common Lube Oil Coolers 3-way Manual Valve

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



File Name: 2-61-8-1-50.jpeg
Description: Component Plate ID

File Name: 2-62-8-1-50.jpeg
Description: General view of component

Seismic Walkdown Checklist (SWC) Status: Ⓨ N U

Equipment ID No. FW-P-2 Equip. Class 5. Horizontal Pumps

Equipment Description Turbine Driven Pump

Location: Bldg. SFGB Floor El. 735

Manufacturer, Model, Etc.

Instructions for Completing Checklist

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

Anchorage

	Y	N	U	N/A
1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?	X			
Mounted on skid and anchored with 8-3/4" diam anchor bolts.				
2. Is the anchorage free of bent, broken, missing or loose hardware?	X			
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	X			
4. Is the anchorage free of visible cracks in the concrete near the anchors?	X			
5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)	X			
Anchorage verified per drawing 08700-02.040-0005, Rev. E.				
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	X			

Paul C. Rizzo Associates, Inc.
ENGINEERS & CONSULTANTS

Seismic Walkdown Checklist (SWC) Status: Ⓨ N U

Equipment ID No. FW-P-2 Equip. Class 5. Horizontal Pumps

Equipment Description Turbine Driven Pump

Interaction Effects

	Y	N	U	N/A
7. Are soft targets free from impact by nearby equipment or structures?	X			
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	X			
9. Do attached lines have adequate flexibility to avoid damage? *Attached pie lines are adequately supported.*	X			

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

Other Adverse Conditions

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

Comments (Additional pages may be added as necessary)

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

Adam L. Helffrich Date: 10/1/2012

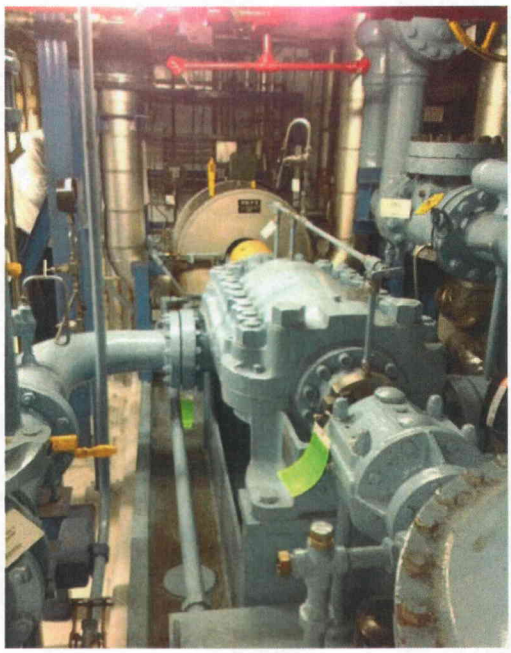
Seismic Walkdown Checklist (SWC) Status: Ⓨ N U

Equipment ID No. FW-P-2 Equip. Class 5. Horizontal Pumps

Equipment Description Turbine Driven Pump

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

File Name: 2-61-3-1-50.jpeg
Description: Component Plate ID



File Name: 2-62-3-1-50.jpeg
Description: General view of component

Seismic Walkdown Checklist (SWC) Status: Ⓨ N U

Equipment ID No. FW-P-2 Equip. Class 5. Horizontal Pumps

Equipment Description Turbine Driven Pump

File Name: 2-64-3-1-50.jpeg
Description: View of component anchorage configuration

File Name: 2-73-3-1-50.jpeg
Description: View of attached pipe lines

Seismic Walkdown Checklist (SWC) Status: (Y) N U

Equipment ID No. FW-P-3A Equip. Class 5. Horizontal Pumps

Equipment Description NO. 3A Motor Driven Auxiliary Feedwater Pump

Location: Bldg. SFGB Floor El. 735

Manufacturer, Model, Etc. _____

Instructions for Completing Checklist

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

Anchorage

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

Mounted on skid and anchored with 8-3/4" diam anchor bolts.

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

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

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

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

Anchorage verified per drawing 02.040-0011B and 8700-RC-21M. (see also calc. 52233-C-007).

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

Seismic Walkdown Checklist (SWC) Status: Ⓨ N U

Equipment ID No. FW-P-3A Equip. Class 5. Horizontal Pumps

Equipment Description NO. 3A Motor Driven Auxiliary Feedwater Pump

Interaction Effects

	Y	N	U	N/A
7. Are soft targets free from impact by nearby equipment or structures?	X			
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	X			
9. Do attached lines have adequate flexibility to avoid damage?	X			

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

Other Adverse Conditions

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

Comments (Additional pages may be added as necessary)

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

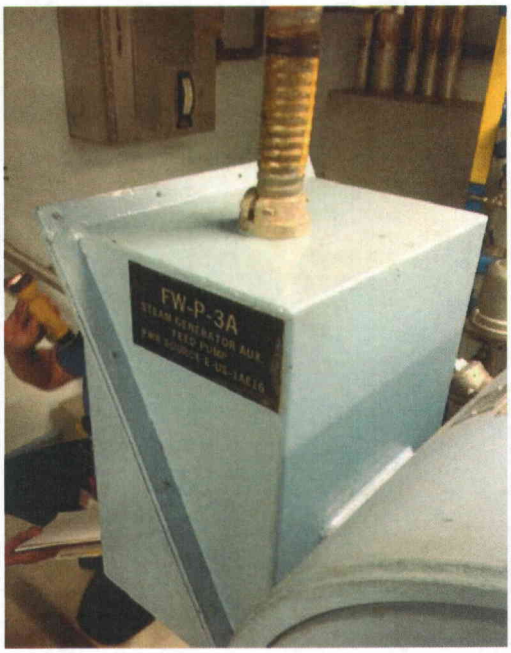
Adam L. Helffrich Date: 10/1/2012

Seismic Walkdown Checklist (SWC) Status: Ⓨ N U

Equipment ID No. FW-P-3A Equip. Class 5. Horizontal Pumps

Equipment Description NO. 3A Motor Driven Auxiliary Feedwater Pump

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



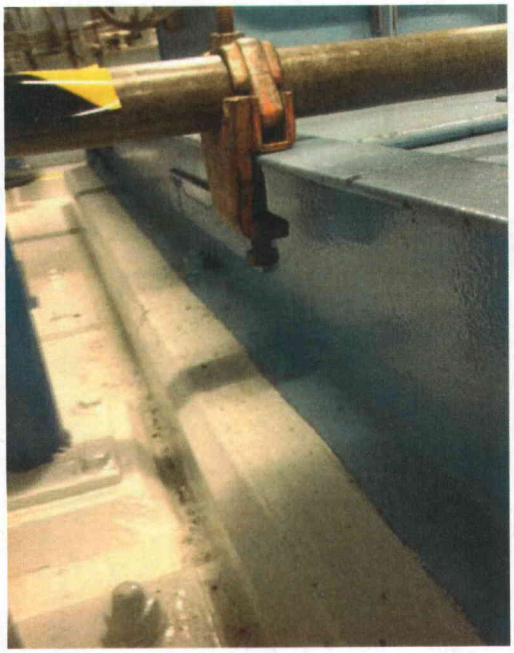
File Name: 2-61-4-1-50.jpeg
Description: Component Plate ID

File Name: 2-62-4-1-50.jpeg
Description: General view of component

Seismic Walkdown Checklist (SWC) Status: Ⓨ N U

Equipment ID No. FW-P-3A Equip. Class 5. Horizontal Pumps

Equipment Description NO. 3A Motor Driven Auxiliary Feedwater Pump



File Name: 2-63-4-1-50.jpeg
Description: View of component anchorage configuration

Seismic Walkdown Checklist (SWC) Status: Ⓨ N U

Equipment ID No. FW-T-2 Equip. Class 5. Horizontal Pumps

Equipment Description Aux Feed Pump Steam Terry Turbine

Location: Bldg. SFGB Floor El. 735

Manufacturer, Model, Etc. _____

Instructions for Completing Checklist

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

Anchorage

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

Y	N
	X

Mounted on same skid as FW-P-2 pump. Skid anchored with 8-3/4" diam anchor bolts.

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

Y	N	U	N/A
X			

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

Y	N	U	N/A
X			

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

Y	N	U	N/A
X			

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

Y	N	U	N/A
			X

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

Y	N	U
X		

Seismic Walkdown Checklist (SWC) Status: Ⓨ N U

Equipment ID No. FW-T-2 Equip. Class 5. Horizontal Pumps

Equipment Description Aux Feed Pump Steam Terry Turbine

Interaction Effects

	Y	N	U	N/A
7. Are soft targets free from impact by nearby equipment or structures?	X			
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	X			
9. Do attached lines have adequate flexibility to avoid damage?	X			

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

Other Adverse Conditions

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

Comments (Additional pages may be added as necessary)

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

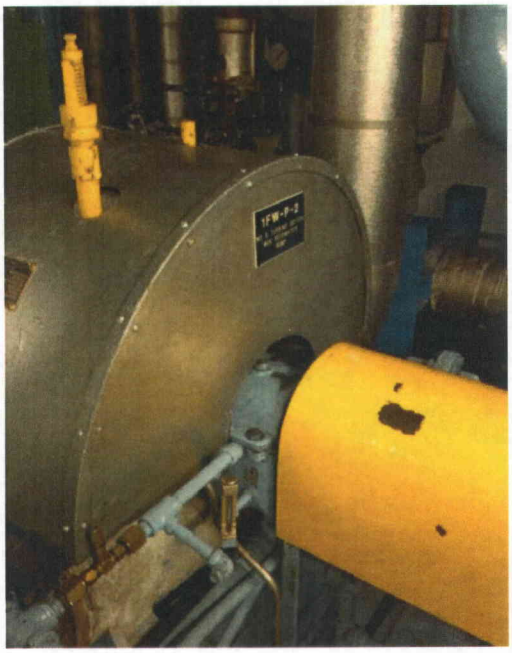
Adam L. Helffrich Date: 10/1/2012

Seismic Walkdown Checklist (SWC) Status: Ⓨ N U

Equipment ID No. FW-T-2 Equip. Class 5. Horizontal Pumps

Equipment Description Aux Feed Pump Steam Terry Turbine

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



File Name: 2-61-5-1-50.jpeg
Description: Component Plate ID

File Name: 2-62-5-1-50.jpeg
Description: General view of component

Seismic Walkdown Checklist (SWC) Status: Ⓨ N U

Equipment ID No. HCV-1CH-186 Equip. Class 7. Pneumatic-Operated Valve

Equipment Description RCP Seal SUP Hand CONT

Location: Bldg. AXLB Floor El. 722

Manufacturer, Model, Etc. _____

Instructions for Completing Checklist

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

Anchorage

Y	N
	X

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

Valve mounted on well supported 4" diam line. Yoke supported to wall and piping is supported back to same wall.

Y	N	U	N/A
			X

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

Y	N	U	N/A
			X

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

Y	N	U	N/A
			X

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

Y	N	U	N/A
			X

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

Y	N	U
X		

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

Paul C. Rizzo Associates, Inc.
ENGINEERS & CONSULTANTS

Seismic Walkdown Checklist (SWC) Status: Ⓨ N U

Equipment ID No. HCV-1CH-186 Equip. Class 7. Pneumatic-Operated Valve

Equipment Description RCP Seal SUP Hand CONT

Interaction Effects

	Y	N	U	N/A
7. Are soft targets free from impact by nearby equipment or structures?	X			
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	X			
9. Do attached lines have adequate flexibility to avoid damage?	X			

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

Other Adverse Conditions

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

Comments (Additional pages may be added as necessary)

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

Adam L. Helffrich Date: 10/1/2012

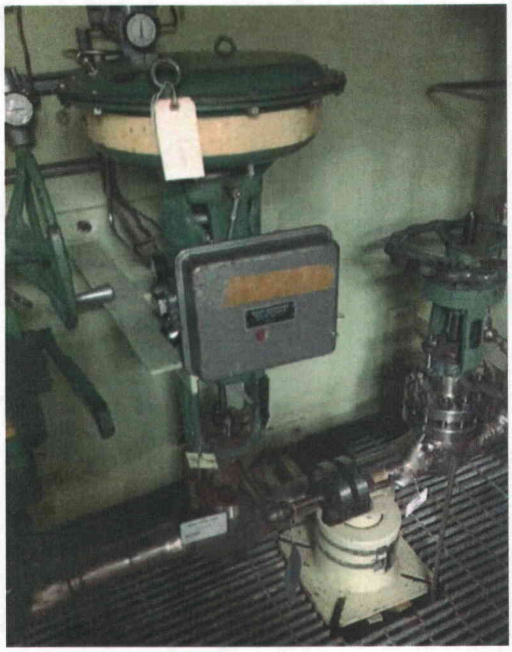
Seismic Walkdown Checklist (SWC) Status: Ⓨ N U

Equipment ID No. HCV-1CH-186 Equip. Class 7. Pneumatic-Operated Valve

Equipment Description RCP Seal SUP Hand CONT

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

File Name: 2-61-1-1-12.jpeg
Description: Component Plate ID



File Name: 2-62-1-1-12.jpeg
Description: General view of component

Paul C. Rizzo Associates, Inc.
ENGINEERS & CONSULTANTS

Seismic Walkdown Checklist (SWC) Status: Ⓨ N U

Equipment ID No. INV-VITBUS1-1 Equip. Class 16. Battery Chargers and Inverters

Equipment Description Vital Bus I Inverter

Location: Bldg. SRVB Floor El. 713

Manufacturer, Model, Etc.

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

Anchorage

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

6-5/8" diam anchors identified for anchorage configuration. Adequate separation identified between adjacent panels.

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

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

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

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

Drawing RE-0038D confirms anchorage configuration. (see also calc. 52233-C-017).

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

Seismic Walkdown Checklist (SWC) Status: Ⓨ N U

Equipment ID No. INV-VITBUS1-1 Equip. Class 16. Battery Chargers and Inverters

Equipment Description Vital Bus I Inverter

Interaction Effects

	Y	N	U	N/A
7. Are soft targets free from impact by nearby equipment or structures?	X			
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	X			
9. Do attached lines have adequate flexibility to avoid damage? *Attached conduits identified with adequate flexibility.*	X			

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

Other Adverse Conditions

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

Comments (Additional pages may be added as necessary)

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

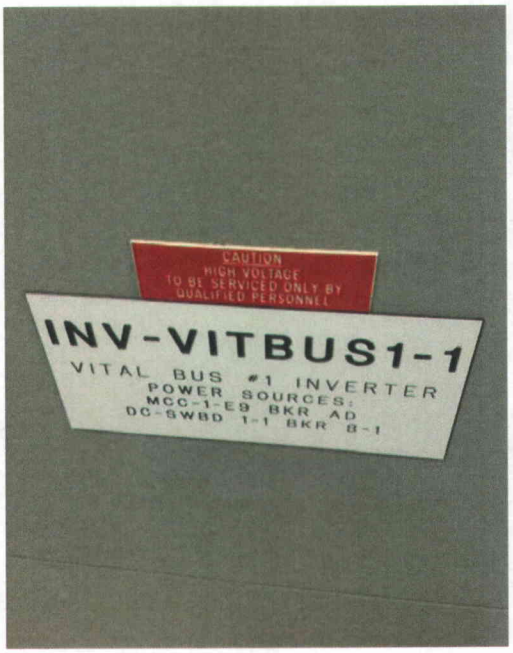
Adam L. Helffrich Date: 10/1/2012

Seismic Walkdown Checklist (SWC) Status: Ⓨ N U

Equipment ID No. INV-VITBUS1-1 Equip. Class 16. Battery Chargers and Inverters

Equipment Description Vital Bus I Inverter

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



File Name: 2-61-8-1-25.jpeg
Description: Component Plate ID

File Name: 2-62-8-1-25.jpeg
Description: General view of component

Seismic Walkdown Checklist (SWC) Status: Ⓨ N U

Equipment ID No. INV-VITBUS1-1 Equip. Class 16. Battery Chargers and Inverters

Equipment Description Vital Bus I Inverter

File Name: 2-63-8-1-25.jpeg
Description: View of top entry conduits

File Name: 2-64-8-1-25.jpeg
Description: View of anchorage configuration

Seismic Walkdown Checklist (SWC) Status: Ⓨ N U

Equipment ID No. INV-VITBUS1-1 Equip. Class 16. Battery Chargers and Inverters

Equipment Description Vital Bus I Inverter

File Name: 2-73-8-1-25.jpeg
Description: Front view of base anchorage configuration

Seismic Walkdown Checklist (SWC) Status: Ⓨ N U

Equipment ID No. INV-VITBUS1-3 Equip. Class 16. Battery Chargers and Inverters

Equipment Description Vital Bus III Inverter

Location: Bldg. SRVB Floor El. 713

Manufacturer, Model, Etc.

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

Anchorage

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

Attached to support base with 6-5/8"diam machine bolts. Support base anchored to concrete with 8-3/4" anchors. Around 10" separation identified with adjacent panels.

	Y	N	U	N/A
2. Is the anchorage free of bent, broken, missing or loose hardware?	X			
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	X			
4. Is the anchorage free of visible cracks in the concrete near the anchors?	X			
5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)	X			

Drawing RE-0038B confirms anchorage configuration. (see also calc. 52233-C-017).

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

Seismic Walkdown Checklist (SWC) Status: Ⓨ N U

Equipment ID No. INV-VITBUS1-3 Equip. Class 16. Battery Chargers and Inverters

Equipment Description Vital Bus III Inverter

Interaction Effects

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

	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? *Block wall SB-1-15 has been qualified per IE 80-11 review.*	X			

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

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

Other Adverse Conditions

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

Comments (Additional pages may be added as necessary)

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

Adam L. Helffrich Date: 10/1/2012

Seismic Walkdown Checklist (SWC) Status: Ⓨ N U

Equipment ID No. INV-VITBUS1-3 Equip. Class 16. Battery Chargers and Inverters

Equipment Description Vital Bus III Inverter

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

File Name: 2-61-6-1-25.jpeg
Description: Component Plate ID

File Name: 2-62-6-1-25.jpeg
Description: General view of component

Seismic Walkdown Checklist (SWC) Status: Ⓨ N U

Equipment ID No. INV-VITBUS1-3 Equip. Class 16. Battery Chargers and Inverters

Equipment Description Vital Bus III Inverter

File Name: 2-63-6-1-25.jpeg
Description: Front view of base anchorage configuration

File Name: 2-64-6-1-25.jpeg
Description: Close up view of anchorage detail

Seismic Walkdown Checklist (SWC) Status: Ⓨ N U

Equipment ID No. INV-VITBUS1-3 Equip. Class 16. Battery Chargers and Inverters

Equipment Description Vital Bus III Inverter

File Name: 2-73-6-1-25.jpeg
Description: View of weld detail on channel mounting base

File Name: 2-94-6-1-25.jpeg
Description: General view of base configuration

Seismic Walkdown Checklist (SWC) Status: Ⓨ N U

Equipment ID No. INV-VITBUS1-4 Equip. Class 16. Battery Chargers and Inverters

Equipment Description Vital Bus I'VE Inverter

Location: Bldg. SRVB Floor El. 713

Manufacturer, Model, Etc.

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

Anchorage

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

Attached to support base with 6-5/8"diam machine bolts. Support base anchored to concrete with 8-3/4" anchors. Around 10" separation identified with adjacent panels.

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

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

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

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

Drawing RE-0038B confirms anchorage configuration. (see also calc. 52233-C-017).

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

Seismic Walkdown Checklist (SWC) Status: Ⓨ N U

Equipment ID No. INV-VITBUS1-4 Equip. Class 16. Battery Chargers and Inverters

Equipment Description Vital Bus I'VE Inverter

Interaction Effects

	Y	N	U	N/A
7. Are soft targets free from impact by nearby equipment or structures?	X			
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? *Block wall SB-1-9 has been qualified per IE 80-11 review.*	X			
9. Do attached lines have adequate flexibility to avoid damage?	X			

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

Other Adverse Conditions

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

Comments (Additional pages may be added as necessary)

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

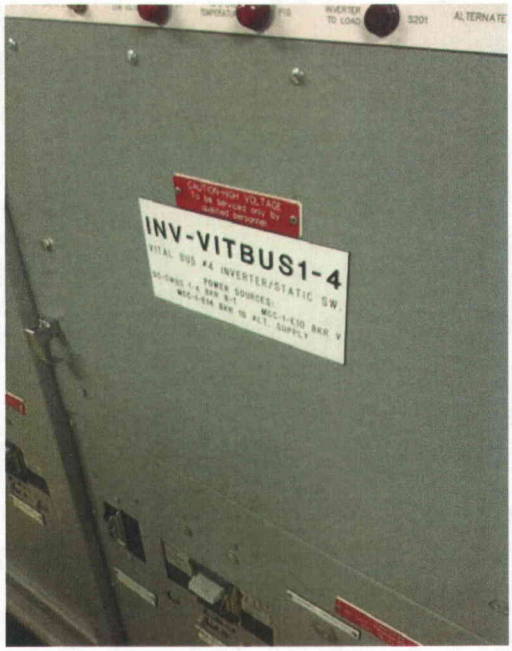
Adam L. Helffrich Date: 10/1/2012

Seismic Walkdown Checklist (SWC) Status: Ⓨ N U

Equipment ID No. INV-VITBUS1-4 Equip. Class 16. Battery Chargers and Inverters

Equipment Description Vital Bus I'VE Inverter

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



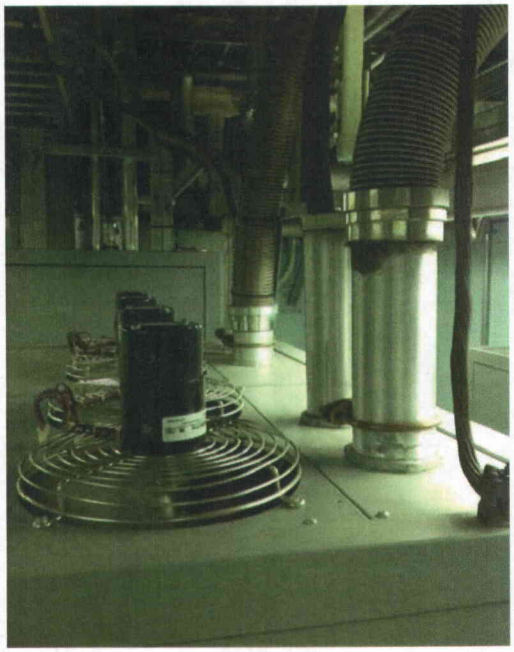
File Name: 2-61-2-1-26.jpeg
Description: Component Plate ID

File Name: 2-62-2-1-26.jpeg
Description: General view of component

Seismic Walkdown Checklist (SWC) Status: Ⓨ N U

Equipment ID No. INV-VITBUS1-4 Equip. Class 16. Battery Chargers and Inverters

Equipment Description Vital Bus I'VE Inverter



File Name: 2-63-2-1-26.jpeg
Description: View of top entry conduits

File Name: 2-64-2-1-26.jpeg
Description: Front view of base anchorage configuration

Seismic Walkdown Checklist (SWC) Status: Ⓨ N U

Equipment ID No. INV-VITBUS1-4 Equip. Class 16. Battery Chargers and Inverters

Equipment Description Vital Bus I'VE Inverter

File Name: 2-73-2-1-26.jpeg
Description: Close up view of anchorage detail

File Name: 2-94-2-1-26.jpeg
Description: View of weld detail on channel mounting base

Seismic Walkdown Checklist (SWC) Status: Ⓨ N U

Equipment ID No. LS-1-EE-201-1 Equip. Class 18. Instrument (on) Racks

Equipment Description EE-EG-1 Day Tank Level (Pump CTRL) Level Switch

Location: Bldg. DGBX Floor El. 735

Manufacturer, Model, Etc. _____

Instructions for Completing Checklist

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

Anchorage

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

Paul C. Rizzo Associates, Inc.
ENGINEERS & CONSULTANTS

Seismic Walkdown Checklist (SWC) Status: Ⓨ N U

Equipment ID No. LS-1-EE-201-1 Equip. Class 18. Instrument (on) Racks

Equipment Description EE-EG-1 Day Tank Level (Pump CTRL) Level Switch

Interaction Effects

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

Other Adverse Conditions

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

Comments (Additional pages may be added as necessary)

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

Adam L. Helffrich Date: 10/1/2012

Seismic Walkdown Checklist (SWC) Status: Ⓨ N U

Equipment ID No. LS-1-EE-201-1 Equip. Class 18. Instrument (on) Racks

Equipment Description EE-EG-1 Day Tank Level (Pump CTRL) Level Switch

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

File Name: 2-61-3-1-20.jpeg
Description: Component Plate ID

File Name: 2-62-3-1-20.jpeg
Description: General view of component

Seismic Walkdown Checklist (SWC) Status: Ⓨ N U

Equipment ID No. LT-1QS-100A Equip. Class 18. Instrument (on) Racks

Equipment Description RWST Level Transmitter

Location: Bldg. YARD Floor El. 735

Manufacturer, Model, Etc. _____

Instructions for Completing Checklist

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

Anchorage

Y	N
	X

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

Mounted on short cantilever support (~12") made of HSS 2 1/2" x 3" x 1/4". Support is attached to concrete wall surounding the tank with 4-1/2" diam anchor bolts. Equipment brackets are welded to the support structure.

Y	N	U	N/A
X			

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

Y	N	U	N/A
X			

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

Some signs of of rust visible on brackets. Judged not a concern.

Y	N	U	N/A
X			

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

Y	N	U	N/A
			X

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

Y	N	U
X		

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

Seismic Walkdown Checklist (SWC) Status: Ⓨ N U

Equipment ID No. LT-1QS-100A Equip. Class 18. Instrument (on) Racks

Equipment Description RWST Level Transmitter

Interaction Effects

	Y	N	U	N/A
7. Are soft targets free from impact by nearby equipment or structures?	X			
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	X			
9. Do attached lines have adequate flexibility to avoid damage?	X			

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

Other Adverse Conditions

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

Comments (Additional pages may be added as necessary)

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

Adam L. Helffrich Date: 10/1/2012

Seismic Walkdown Checklist (SWC) Status: Ⓨ N U

Equipment ID No. LT-1QS-100A Equip. Class 18. Instrument (on) Racks

Equipment Description RWST Level Transmitter

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

File Name: 2-61-1-1-09.jpeg
Description: Component Plate ID

File Name: 2-62-1-1-09.jpeg
Description: General view of component

Seismic Walkdown Checklist (SWC) Status: Ⓨ N U

Equipment ID No. MCC-1-E1 Equip. Class 1. Motor Control Center

Equipment Description 480V Motor Comtrol Center Fed From 480V Substation 1-8 Emergency Bus via 1NBKR 8N7

Location: Bldg. INTS Floor El. 705

Manufacturer, Model, Etc. _____

Instructions for Completing Checklist

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

Anchorage

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

3 Section MCC, each section's base channel is welded to embed steel with at least an average of 5 1/2" of 1/4" welds.

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

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

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

Portion of concrete cover on the embed steel is exposedbut judged adequate as the load path of the embed steel does not require this cover to be effective.

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

Base weld detail in MCC-1-E1 verified per Calculation 52233-C-001 Anchorage Calc

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

Seismic Walkdown Checklist (SWC) Status: Ⓨ N U

Equipment ID No. MCC-1-E1 Equip. Class 1. Motor Control Center

Equipment Description 480V Motor Comtrol Center Fed From 480V Substation 1-8 Emergency Bus via 1NBKR 8N7

Interaction Effects

	Y	N	U	N/A
7. Are soft targets free from impact by nearby equipment or structures?	X			
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	X			
9. Do attached lines have adequate flexibility to avoid damage? *Minimal top restraint provided by top entry conduit.*	X			

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

Other Adverse Conditions

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

Comments (Additional pages may be added as necessary)

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

Adam L. Helffrich Date: 10/1/2012

Seismic Walkdown Checklist (SWC) Status: Ⓨ N U

Equipment ID No. MCC-1-E1 Equip. Class 1. Motor Control Center

Equipment Description 480V Motor Comtrol Center Fed From 480V Substation 1-8 Emergency Bus via 1NBKR 8N7

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

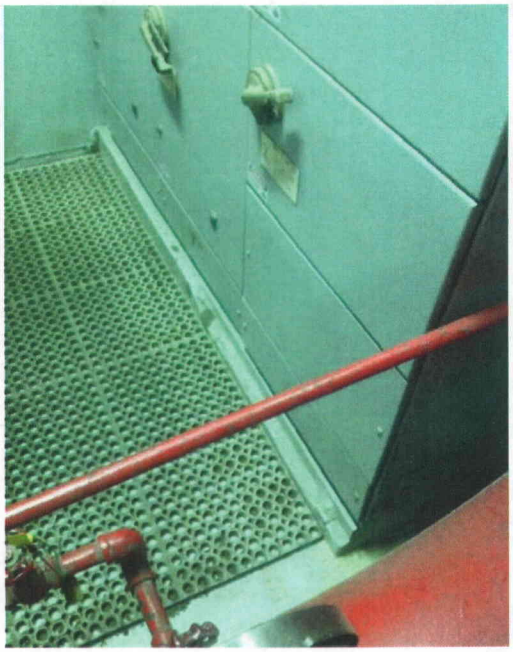
File Name: 2-61-1-1-27.jpeg
Description: Component Plate ID

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

Seismic Walkdown Checklist (SWC) Status: Ⓨ N U

Equipment ID No. MCC-1-E1 Equip. Class 1. Motor Control Center

Equipment Description 480V Motor Comtrol Center Fed From 480V Substation 1-8 Emergency Bus via 1NBKR 8N7



File Name: 2-63-1-1-27.jpeg
Description: View of spalled concrete at base of MCC

File Name: 2-64-1-1-27.jpeg
Description: View of top entry conduits

Seismic Walkdown Checklist (SWC) Status: Ⓨ N U

Equipment ID No. MCC-1-E12 Equip. Class 1. Motor Control Center

Equipment Description Motor Control Center

Location: Bldg. SFGB Floor El. 735

Manufacturer, Model, Etc. _____

Instructions for Completing Checklist

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

Anchorage

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

MCC composed of 4 sections. Each section welded to embed with an average of 4 1/2" of 1/4" fillet welds, front and back.

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

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

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

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

Base weld detail in MCC-1-E12 verified per Calculation 52233-C-001 Anchorage Calc

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

Seismic Walkdown Checklist (SWC) Status: Ⓨ N U

Equipment ID No. MCC-1-E12 Equip. Class 1. Motor Control Center

Equipment Description Motor Control Center

Interaction Effects

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

	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?	X			

A mostly rod hung cable tray (with minimal lateral supports) has a gap of about 4" to MCC-1-E6 and MCC-1-E12. Conservative displacement calculation showed that the available gap is adequate to preclude interaction of the tray with these MCC's.

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

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

Other Adverse Conditions

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

Comments (Additional pages may be added as necessary)

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

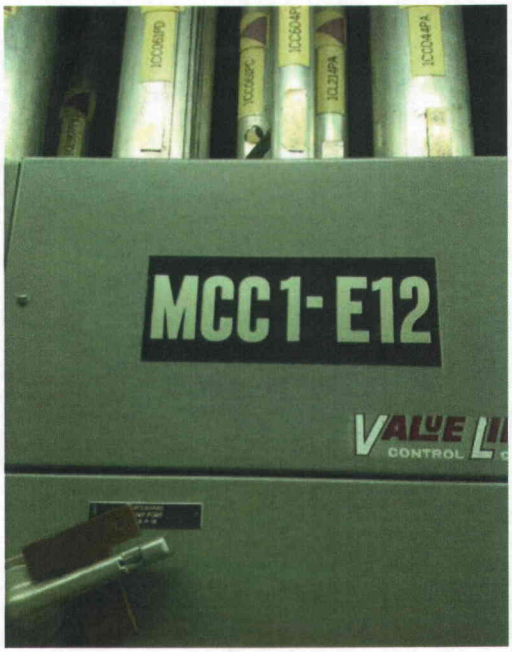
Adam L. Helffrich Date: 10/1/2012

Seismic Walkdown Checklist (SWC) Status: Ⓨ N U

Equipment ID No. MCC-1-E12 Equip. Class 1. Motor Control Center

Equipment Description Motor Control Center

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



File Name: 2-61-3-1-23.jpeg
Description: Component Plate ID

File Name: 2-62-3-1-23.jpeg
Description: General view of component

Seismic Walkdown Checklist (SWC) Status: Ⓨ N U

Equipment ID No. MCC-1-E12 Equip. Class 1. Motor Control Center

Equipment Description Motor Control Center

File Name: 2-63-3-1-23.jpeg
Description: View of top entry conduits

File Name: 2-64-3-1-23.jpeg
Description: View of MCC embeddment and stitch weld detail

Seismic Walkdown Checklist (SWC) Status: Ⓨ N U

Equipment ID No. MCC-1-E13 Equip. Class 1. Motor Control Center

Equipment Description 480V Motor Control Center Fed From 480V Substation 1-8 Bus 1N

Location: Bldg. SFGB Floor El. 756

Manufacturer, Model, Etc. _____

Instructions for Completing Checklist

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

Anchorage

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

MCC composed of 3 sections. Sill channel welded to HSS 4x6 which in turn is welded to embed steel. Each section of MCC has an average of 4" of 1/4" welds at front and back. The HSS 4x6 is welded to embed with ~3" @ 7" stitch of 1/4" fillet welds, front and back.

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

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

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

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

Base weld detail in MCC-1-E13 verified per Calculation 52233-C-002 Anchorage Calc

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

Seismic Walkdown Checklist (SWC) Status: Ⓨ N U

Equipment ID No. MCC-1-E13 Equip. Class 1. Motor Control Center

Equipment Description 480V Motor Control Center Fed From 480V Substation 1-8 Bus 1N

Interaction Effects

	Y	N	U	N/A
7. Are soft targets free from impact by nearby equipment or structures?	X			
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	X			
9. Do attached lines have adequate flexibility to avoid damage? *Top entry conduit found with adequate flexibility.*	X			

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

Other Adverse Conditions

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

Comments (Additional pages may be added as necessary)

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

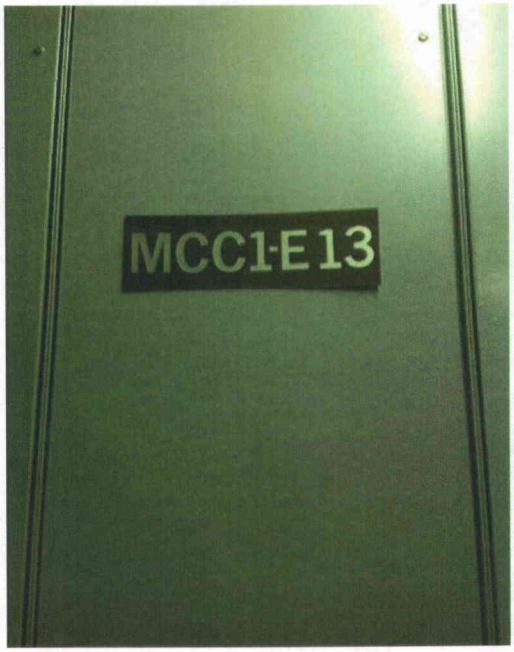
Adam L. Helffrich Date: 10/1/2012

Seismic Walkdown Checklist (SWC) Status: Ⓨ N U

Equipment ID No. MCC-1-E13 Equip. Class 1. Motor Control Center

Equipment Description 480V Motor Control Center Fed From 480V Substation 1-8 Bus 1N

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



File Name: 2-61-9-1-32.jpeg
Description: Component Plate ID

File Name: 2-62-9-1-32.jpeg
Description: General view of component

Seismic Walkdown Checklist (SWC) Status: Ⓨ N U

Equipment ID No. MCC-1-E13 Equip. Class 1. Motor Control Center

Equipment Description 480V Motor Control Center Fed From 480V Substation 1-8 Bus 1N

File Name: 2-63-9-1-32.jpeg
Description: View of MCC base stitch weld detail

File Name: 2-64-9-1-32.jpeg
Description: General view of tube section member used for MCC base

Seismic Walkdown Checklist (SWC) Status: Ⓨ N U

Equipment ID No. MCC-1-E13 Equip. Class 1. Motor Control Center

Equipment Description 480V Motor Control Center Fed From 480V Substation 1-8 Bus 1N

File Name: 2-73-9-1-32.jpeg
Description: General view of MCC base configuration

File Name: 2-94-9-1-32.jpeg
Description: View of flexible attached lines

Seismic Walkdown Checklist (SWC) Status: Ⓨ N U

Equipment ID No. MCC-1-E4 Equip. Class 1. Motor Control Center

Equipment Description 480V Motor Control Center Fed From 480V Substation 1-9 Bus 1P (9P9)

Location: Bldg. AXLB Floor El. 735

Manufacturer, Model, Etc. _____

Instructions for Completing Checklist

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

Anchorage

Y	N
	X

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

MCC composed of 5 sections. MCC base channel is welded to embed steel with an average of ~5" of 1/4" weld at front of each MCC section. The weld on the back cannot be verified since MCC is too close to wall. Typically MCCs that are too close to a wall have their rear mounting channels welded to embed steel by welding the channel flange that is inside the MCC (as opposed to the flange outside of the MCC and closer to the wall). For this MCC the base of the unit could not be accessed and presense o the back welds was not verified.

Y	N	U	N/A
X			

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

Y	N	U	N/A
X			

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

Y	N	U	N/A
X			

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

Y	N	U	N/A
			X

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

Y	N	U
X		

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

Seismic Walkdown Checklist (SWC) Status: Ⓨ N U

Equipment ID No. MCC-1-E4 Equip. Class 1. Motor Control Center

Equipment Description 480V Motor Control Center Fed From 480V Substation 1-9 Bus 1P (9P9)

Interaction Effects

	Y	N	U	N/A
7. Are soft targets free from impact by nearby equipment or structures?	X			
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? *12" tray rod hung is far enough not to interact with top entry conduit.*	X			
9. Do attached lines have adequate flexibility to avoid damage? *Many 4" diam conduits at top are braced back to the wall behind which would eliminate potential banging of the MCC to the back wall.*	X			

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

Other Adverse Conditions

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

Comments (Additional pages may be added as necessary)

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

Adam L. Helffrich Date: 10/1/2012

Seismic Walkdown Checklist (SWC) Status: Ⓨ N U

Equipment ID No. MCC-1-E4 Equip. Class 1. Motor Control Center

Equipment Description 480V Motor Control Center Fed From 480V Substation 1-9 Bus 1P (9P9)

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

File Name: 2-61-1-1-47.jpeg
Description: Component Plate ID

File Name: 2-62-1-1-47.jpeg
Description: General view of component

Seismic Walkdown Checklist (SWC) Status: Ⓨ N U

Equipment ID No. MCC-1-E4 Equip. Class 1. Motor Control Center

Equipment Description 480V Motor Control Center Fed From 480V Substation 1-9 Bus 1P (9P9)

File Name: 2-63-1-1-47.jpeg
Description: View of top entry conduits

File Name: 2-64-1-1-47.jpeg
Description: View of MCC embeddment and stitch weld detail

Seismic Walkdown Checklist (SWC) Status: Ⓨ N U

Equipment ID No. MCC-1-E6 Equip. Class 1. Motor Control Center

Equipment Description 480V Motor Control Center Fed From 480V Substation 1-9 Bus 1P(9P14)

Location: Bldg. SFGB Floor El. 735

Manufacturer, Model, Etc. _____

Instructions for Completing Checklist

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

Anchorage

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

MCC composed of 17 sections. Each section welded to embed with an average of 4.5" of 1/4" fillet welds, front and back.

	Y	N	U	N/A
2. Is the anchorage free of bent, broken, missing or loose hardware?	X			
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	X			
4. Is the anchorage free of visible cracks in the concrete near the anchors?	X			
5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)	X			

Base weld detail in MCC-1-E6 verified per Calculation 52233-C-001 Anchorage Calc

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

Seismic Walkdown Checklist (SWC) Status: Ⓨ N U

Equipment ID No. MCC-1-E6 Equip. Class 1. Motor Control Center

Equipment Description 480V Motor Control Center Fed From 480V Substation 1-9 Bus 1P(9P14)

Interaction Effects

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

	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?	X			

A mostly rod hung cable tray (with minimal lateral supports) has a gap of about 4" to MCC-1-E6 and MCC-1-E12. Conservative displacement calculation showed that the available gap is adequate to preclude interaction of the tray with these MCC's.

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

Top entry conduit found to be braced back to the wall.

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

Other Adverse Conditions

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

Comments (Additional pages may be added as necessary)

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

Adam L. Helffrich Date: 10/1/2012

Seismic Walkdown Checklist (SWC) Status: Ⓨ N U

Equipment ID No. MCC-1-E6 Equip. Class 1. Motor Control Center

Equipment Description 480V Motor Control Center Fed From 480V Substation 1-9 Bus 1P(9P14)

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

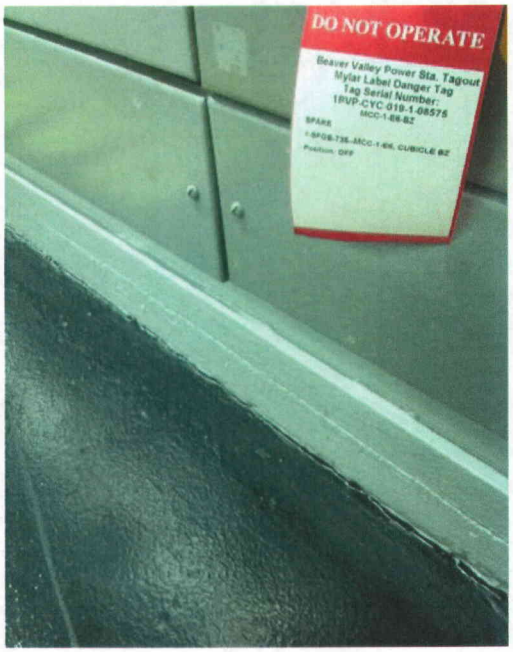
File Name: 2-61-2-1-23.jpeg
Description: Component Plate ID

File Name: 2-62-2-1-23.jpeg
Description: General view of component

Seismic Walkdown Checklist (SWC) Status: Ⓨ N U

Equipment ID No. MCC-1-E6 Equip. Class 1. Motor Control Center

Equipment Description 480V Motor Control Center Fed From 480V Substation 1-9 Bus 1P(9P14)



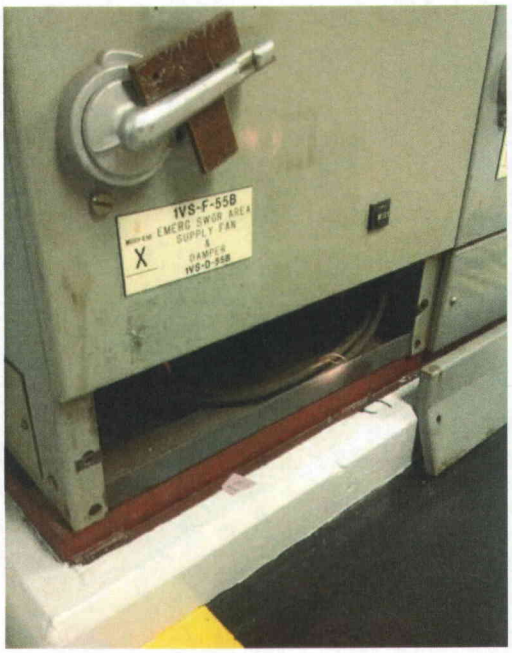
File Name: 2-63-2-1-23.jpeg
Description: View of MCC embeddment and stitch weld detail

File Name: 2-64-2-1-23.jpeg
Description: View of top entry conduits

Seismic Walkdown Checklist (SWC) Status: Ⓨ N U

Equipment ID No. MCC-1-E6 Equip. Class 1. Motor Control Center

Equipment Description 480V Motor Control Center Fed From 480V Substation 1-9 Bus 1P(9P14)



File Name: 2-73-2-1-23.jpeg
Description: View of openned cabinet section

File Name: 2-94-2-1-23.jpeg
Description: Welded detail taken from front of MCC

Seismic Walkdown Checklist (SWC) Status: Ⓨ N U

Equipment ID No. MCC-1-E6 Equip. Class 1. Motor Control Center

Equipment Description 480V Motor Control Center Fed From 480V Substation 1-9 Bus 1P(9P14)

File Name: 2-95-2-1-23.jpeg
Description: Welded detail taken from back of MCC