

## **APPENDIX B SEISMIC WALKDOWN CHECKLISTS (SWCs)**

**Seismic Walkdown Checklist (SWC)**

Status:  Y     N     U

Equipment ID No. ICC-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**

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	

*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 anchors.*

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

Y	N	U	N/A
X			

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

Y	N	U	N/A
X			

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

Y	N	U	N/A
X			

5. Is the anchorage configuration consistent with plant documentation?

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

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

Y	N	U	N/A
X			

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

Y	N	U
X		



**Seismic Walkdown Checklist (SWC)**

Status:  Y     N     U

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

Equipment Description Primary Plant Component Cooling Water Heat exchanger

**Interaction Effects**

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

Y	N	U	N/A
X			

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

Y	N	U	N/A
X			

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

Y	N	U	N/A
X			

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

Y	N	U
X		

**Other Adverse Conditions**

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

Y	N	U
X		

**Comments** (Additional pages may be added as necessary)

Evaluated by:       Date: 10/1/2012

  
Adam L. Helffrich      Date: 10/1/2012



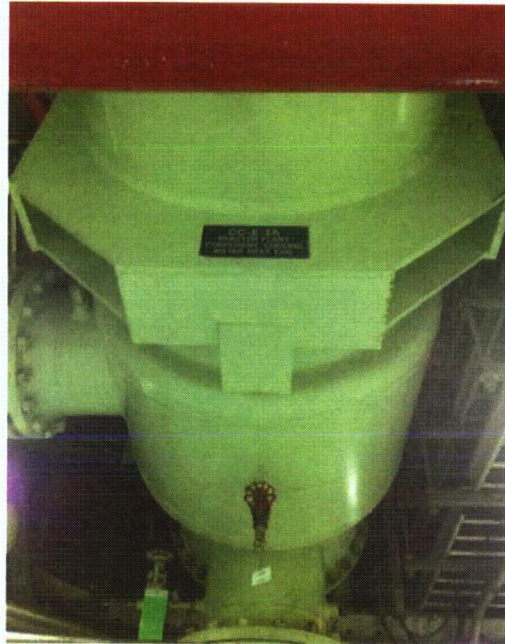
**Seismic Walkdown Checklist (SWC)**

Status:  N  U

Equipment ID No. ICC-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

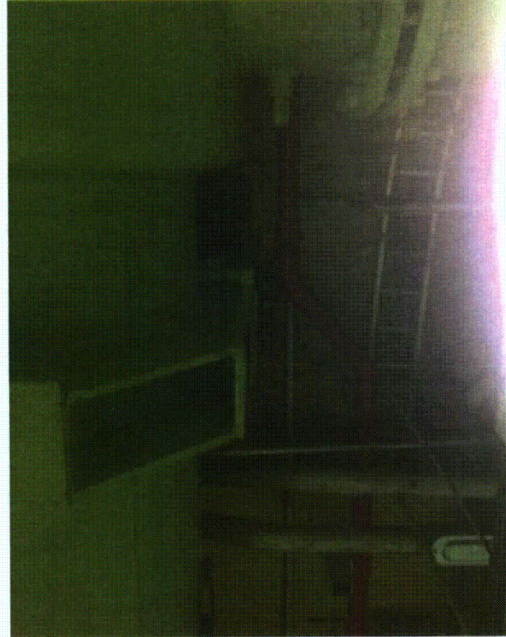


**Seismic Walkdown Checklist (SWC)**

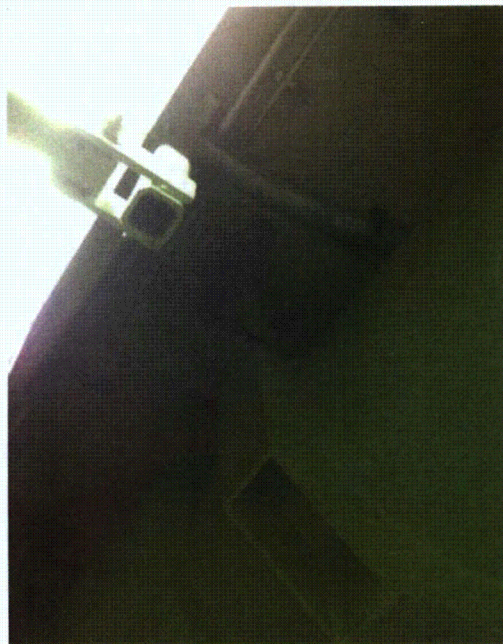
Status:  N  U

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**

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	

*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).*

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

Y	N	U	N/A
X			

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

Y	N	U	N/A
X			

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

Y	N	U	N/A
X			

5. Is the anchorage configuration consistent with plant documentation?

(Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)  
*Calculation 52233-C-018, page 4/17 confirms the anchorage configuration.*

Y	N	U	N/A
X			

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

Y	N	U
X		

*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:  Y  N  U

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

Equipment Description Diesel Generator

**Interaction Effects**

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

Y	N	U	N/A
X			

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

Y	N	U	N/A
X			

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

Y	N	U	N/A
X			

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

Y	N	U
X		

**Other Adverse Conditions**

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

Y	N	U
X		

**Comments** (Additional pages may be added as necessary)



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



Adam L. Helffrich Date: 10/1/2012



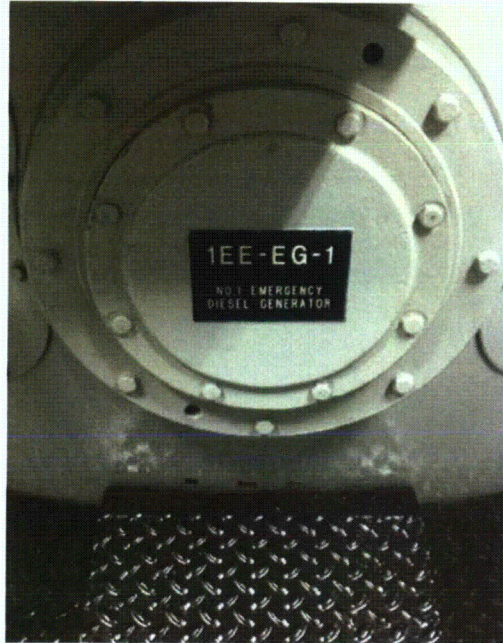
**Seismic Walkdown Checklist (SWC)**

Status:  N  U

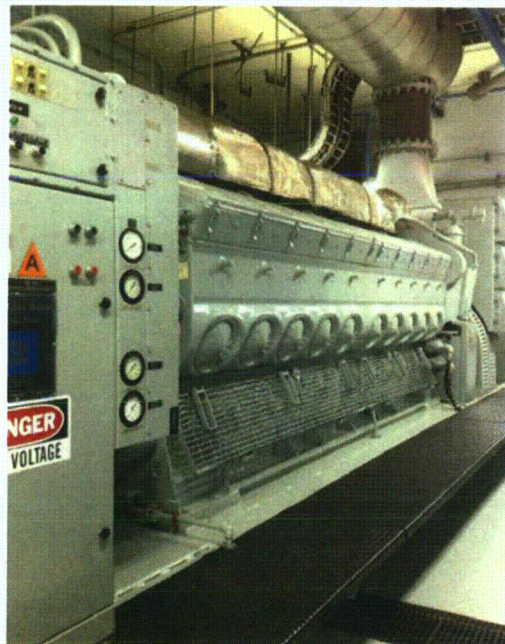
Equipment ID No. 1EE-EG-1 Equip. Class 17. Engine Generators

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:  Y     N     U

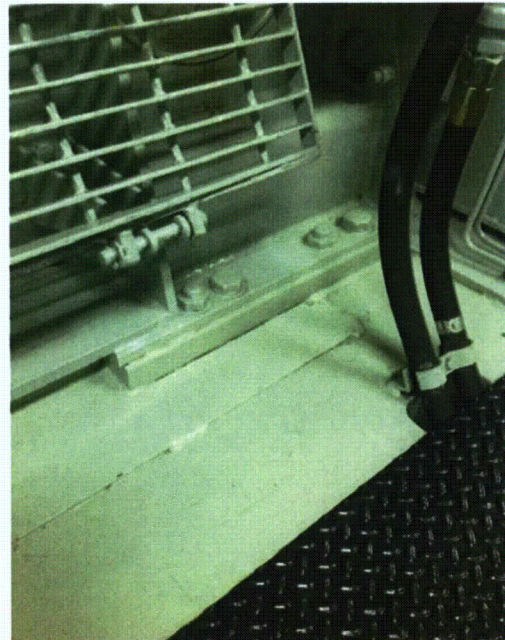
Equipment ID No. 1EE-EG-1    Equip. Class 17. Engine Generators

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

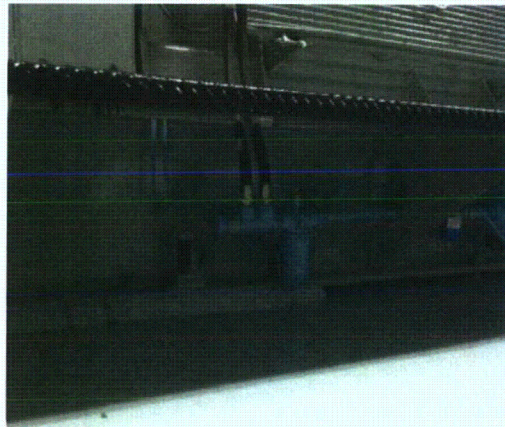
Equipment ID No. 1EE-EG-1 Equip. Class 17. Engine Generators

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:  Y     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**

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	

*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).*

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

Y	N	U	N/A
X			

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

Y	N	U	N/A
X			

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

Y	N	U	N/A
X			

5. Is the anchorage configuration consistent with plant documentation?

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

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

Y	N	U	N/A
X			

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

Y	N	U
X		

*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:  Y     N     U

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

Equipment Description Diesel Generator

**Interaction Effects**

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

Y	N	U	N/A
X			

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

Y	N	U	N/A
X			

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

Y	N	U	N/A
X			

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

Y	N	U
X		

**Other Adverse Conditions**

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

Y	N	U
X		

**Comments** (Additional pages may be added as necessary)



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



Adam L. Helffrich      Date: 10/1/2012



**Seismic Walkdown Checklist (SWC)**

Status:  N  U

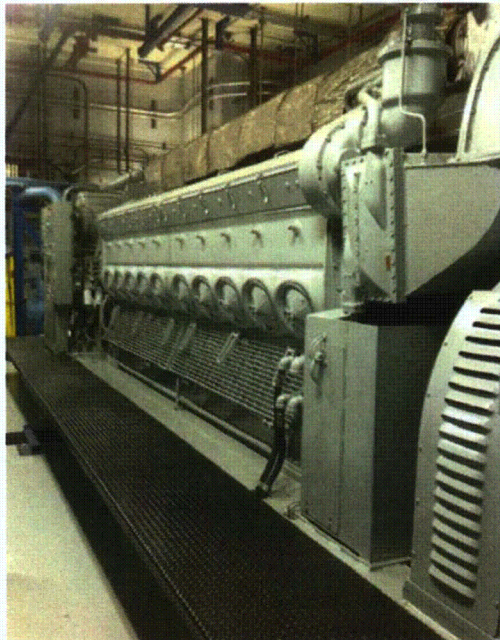
Equipment ID No. 1EE-EG-2 Equip. Class 17. Engine Generators

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:  Y     N     U

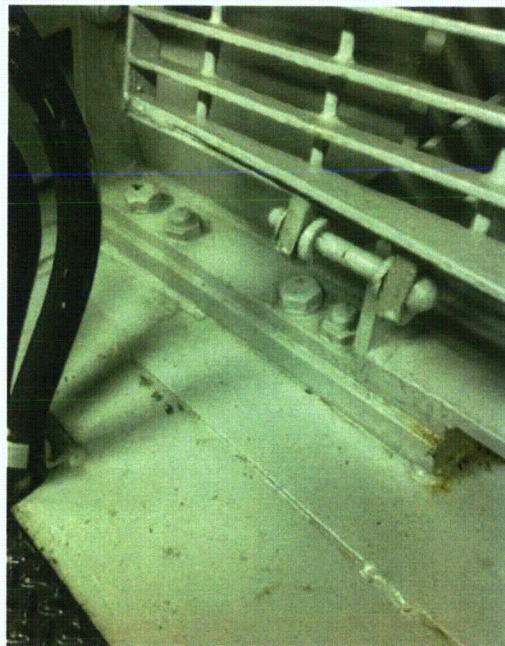
Equipment ID No. 1EE-EG-2      Equip. Class 17. Engine Generators

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:  Y     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**

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

Y	N
X	X

*Mounted on 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.*

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

Y	N	U	N/A
X			

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

Y	N	U	N/A
X			

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

Y	N	U	N/A
X			

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

Y	N	U	N/A
			X

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

Y	N	U
X		



**Seismic Walkdown Checklist (SWC)**

Status:  Y     N     U

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

Equipment Description Fuel Pool Heat Exchanger 1A

**Interaction Effects**

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

Y	N	U	N/A
X			

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

Y	N	U	N/A
X			

9. Do attached lines have adequate flexibility to avoid damage?  
*Nozzle piping found to be well supported.*

Y	N	U	N/A
X			

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

Y	N	U
X		

**Other Adverse Conditions**

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

Y	N	U
X		

**Comments** (Additional pages may be added as necessary)



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



Adam L. Helffrich      Date: 10/1/2012



**Seismic Walkdown Checklist (SWC)**

Status:  N  U

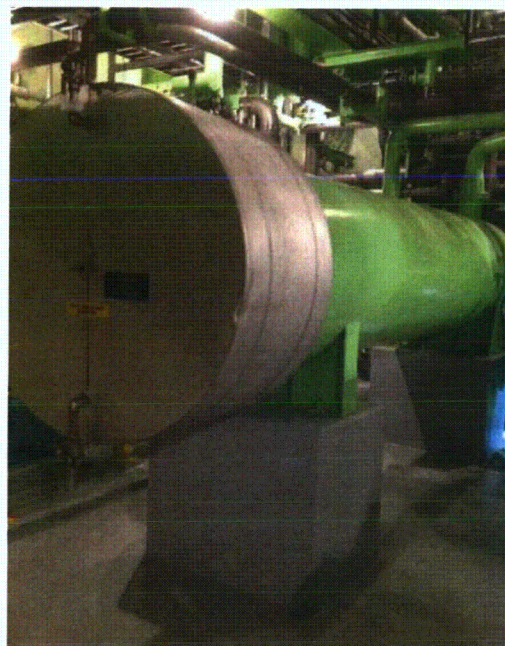
Equipment ID No. 1FC-E-1A Equip. Class 21. Tanks and Heat Exchangers

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

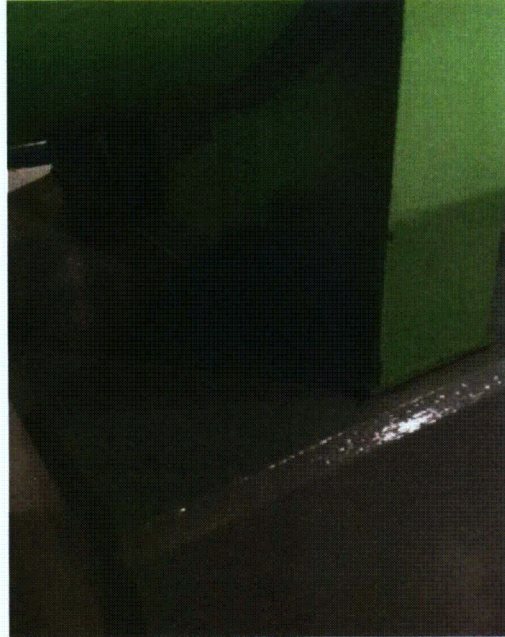


**Seismic Walkdown Checklist (SWC)**

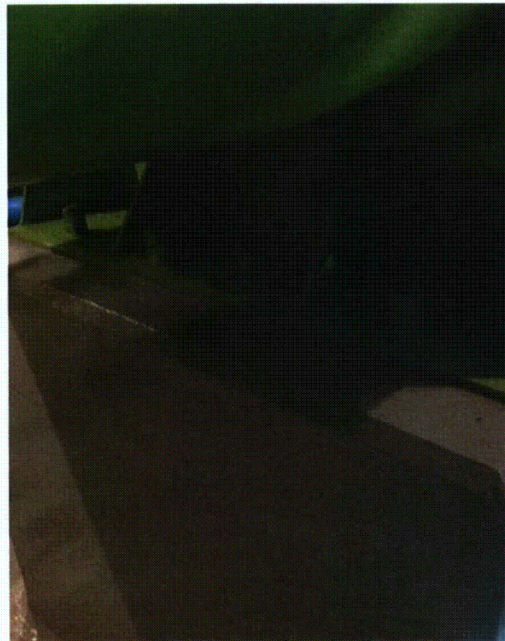
Status:  Y     N     U

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 outer anchorage configuration



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



**Seismic Walkdown Checklist (SWC)**

Status:  Y     N     U

Equipment ID No. IFC-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**

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
X	X

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

Y	N	U	N/A
X			

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

Y	N	U	N/A
X			

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

Y	N	U	N/A
X			

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

Y	N	U	N/A
			X

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

Y	N	U
X		



**Seismic Walkdown Checklist (SWC)**

Status:  Y     N     U

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

Equipment Description Fuel Pool Recirculation Pump

**Interaction Effects**

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

Y	N	U	N/A
X			

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

Y	N	U	N/A
X			

9. Do attached lines have adequate flexibility to avoid damage?  
*Nozzle piping found to be well supported.*

Y	N	U	N/A
X			

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

Y	N	U
X		

**Other Adverse Conditions**

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

Y	N	U
X		

**Comments** (Additional pages may be added as necessary)



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



Adam L. Helffrich      Date: 10/1/2012



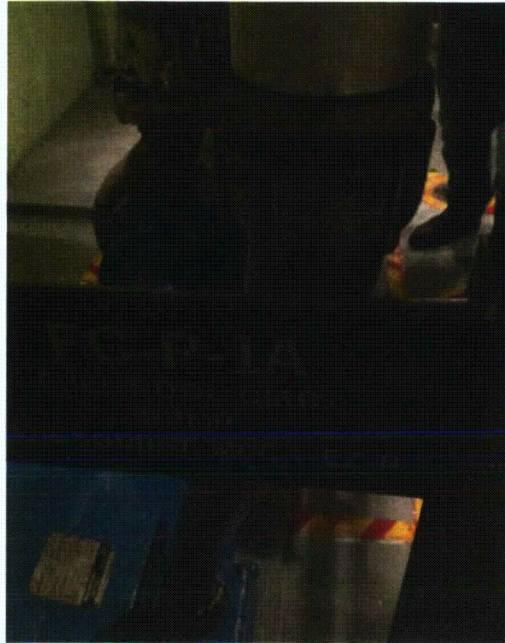
**Seismic Walkdown Checklist (SWC)**

Status:  N  U

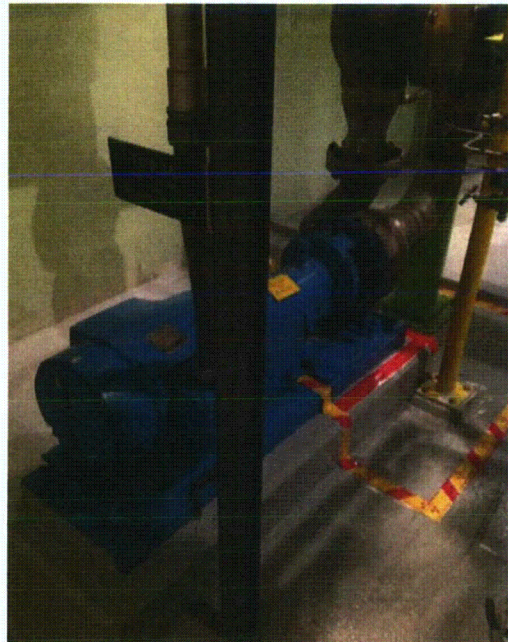
Equipment ID No. 1FC-P-1A Equip. Class 5. Horizontal Pumps

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



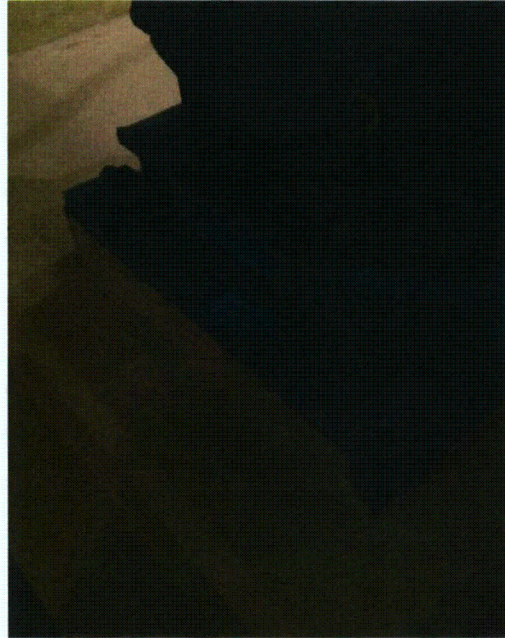
**Seismic Walkdown Checklist (SWC)**

Status:  Y     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:  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**

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

Y	N
	X

*Small panel (~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.*

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

Y	N	U	N/A
X			

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

Y	N	U	N/A
X			

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

Y	N	U	N/A
X			

5. Is the anchorage configuration consistent with plant documentation?

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

Y	N	U	N/A
			X

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

Y	N	U
X		



**Seismic Walkdown Checklist (SWC)**

Status:  Y     N     U

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

Equipment Description HYV-1FW-100B Local Panel

**Interaction Effects**

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

Y	N	U	N/A
X			

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

Y	N	U	N/A
X			

9. Do attached lines have adequate flexibility to avoid damage?  
*Attached top entry cables have adequate flexibility.*

Y	N	U	N/A
X			

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

Y	N	U
X		

**Other Adverse Conditions**

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

Y	N	U
X		

**Comments** (Additional pages may be added as necessary)



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



Adam L. Helffrich Date: 10/1/2012



**Seismic Walkdown Checklist (SWC)**

Status:  Y     N     U

Equipment ID No. 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:  Y     N     U

Equipment ID No. IPC-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**

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

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

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

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

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

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

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

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

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

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

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

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

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



**Seismic Walkdown Checklist (SWC)**

Status:  N  U

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

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

**Interaction Effects**

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

Y	N	U	N/A
X			

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

Y	N	U	N/A
X			

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

Y	N	U	N/A
X			

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

Y	N	U
X		

**Other Adverse Conditions**

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

Y	N	U
X		

**Comments** (Additional pages may be added as necessary)



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



Adam L. Helffrich Date: 10/1/2012



**Seismic Walkdown Checklist (SWC)**

Status:  Y     N     U

Equipment ID No. 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:  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. Instrument 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:  Y     N     U

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

Equipment Description (PS-FC-102A) ISOL

**Interaction Effects**

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

Y	N	U	N/A
X			

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

Y	N	U	N/A
X			

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

Y	N	U	N/A
X			

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

Y	N	U
X		

**Other Adverse Conditions**

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

Y	N	U
X		

**Comments** (Additional pages may be added as necessary)



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



Adam L. Helffrich Date: 10/1/2012



**Seismic Walkdown Checklist (SWC)**

Status:  N U

Equipment ID No. 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)**

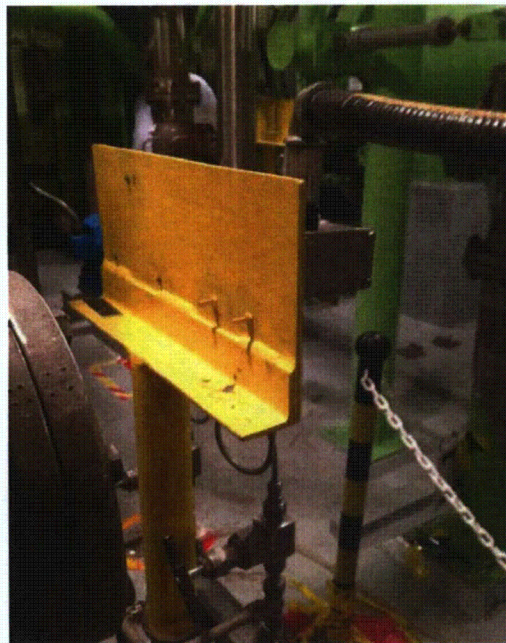
Status:  N  U

Equipment ID No. IPC-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 instrument 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**

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

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

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

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

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

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

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

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

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

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

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

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

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



**Seismic Walkdown Checklist (SWC)**

Status:  Y     N     U

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

Equipment Description Primary CCW HX Outlet Valve

**Interaction Effects**

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

Y	N	U	N/A
X			

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

Y	N	U	N/A
X			

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

Y	N	U	N/A
X			

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

Y	N	U
X		

**Other Adverse Conditions**

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

Y	N	U
X		

**Comments** (Additional pages may be added as necessary)



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



Adam L. Helffrich      Date: 10/1/2012



**Seismic Walkdown Checklist (SWC)**

Status:  N  U

Equipment ID No. 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**

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

Y	N
X	X

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

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

Y	N	U	N/A
X			

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

Y	N	U	N/A
X			

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

Y	N	U	N/A
X			

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

Y	N	U	N/A
			X

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

Y	N	U
X		



**Seismic Walkdown Checklist (SWC)**

Status:  Y     N     U

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

Equipment Description 480V Bus

**Interaction Effects**

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

Y	N	U	N/A
X			

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

Y	N	U	N/A
X			

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

Y	N	U	N/A
X			

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

Y	N	U
X		

**Other Adverse Conditions**

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

Y	N	U
X		

**Comments** (Additional pages may be added as necessary)



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



Adam L. Helffrich Date: 10/1/2012



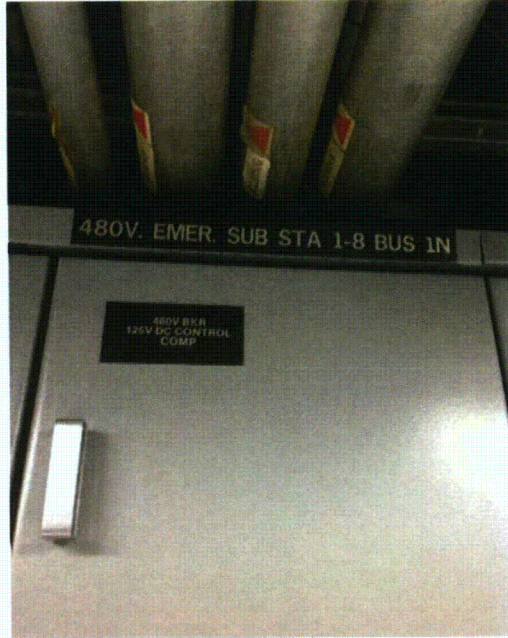
**Seismic Walkdown Checklist (SWC)**

Status:  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:  Y     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**

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

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

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

Y	N	U	N/A
X			

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

Y	N	U	N/A
X			

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

Y	N	U	N/A
X			

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

Y	N	U	N/A
			X

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

Y	N	U
X		



**Seismic Walkdown Checklist (SWC)**

Status:  Y     N     U

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

Equipment Description 480V Emergency Bus

**Interaction Effects**

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

Y	N	U	N/A
X			

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

Y	N	U	N/A
X			

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

Y	N	U	N/A
X			

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

Y	N	U
X		

**Other Adverse Conditions**

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

Y	N	U
X		

**Comments** (Additional pages may be added as necessary)



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



Adam L. Helffrich Date: 10/1/2012



**Seismic Walkdown Checklist (SWC)**

Status:  Y     N     U

Equipment ID No. 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

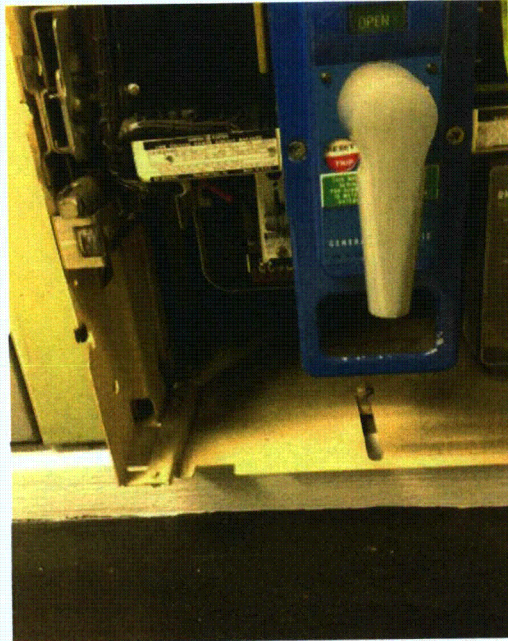


**Seismic Walkdown Checklist (SWC)**

Status:  Y     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**

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

*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.*

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

Y	N	U	N/A
X			

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

Y	N	U	N/A
X			

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

Y	N	U	N/A
X			

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

Y	N	U	N/A
			X

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

Y	N	U
X		



**Seismic Walkdown Checklist (SWC)**

Status:  Y     N     U

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

Equipment Description 4160V Emergency Bus

**Interaction Effects**

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

Y	N	U	N/A
X			

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

Y	N	U	N/A
X			

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

Y	N	U	N/A
X			

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

Y	N	U
X		

**Other Adverse Conditions**

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

Y	N	U
X		

**Comments** (Additional pages may be added as necessary)



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



Adam L. Helffrich    Date: 10/1/2012



**Seismic Walkdown Checklist (SWC)**

Status:  Y  N  U

Equipment ID No. 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:  Y     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

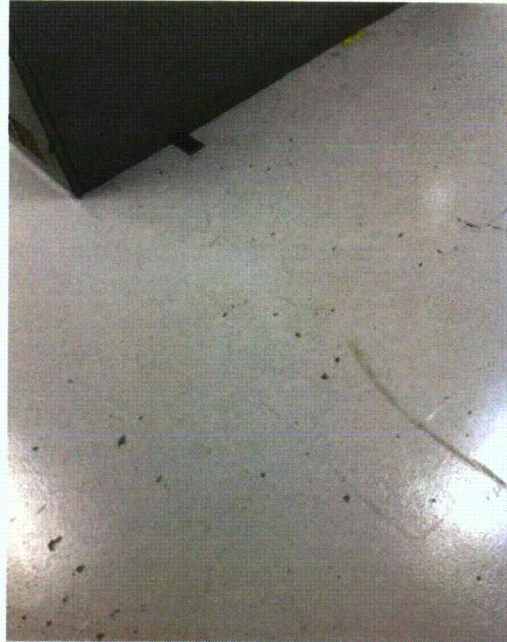


**Seismic Walkdown Checklist (SWC)**

Status:  Y  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 embedment



**Seismic Walkdown Checklist (SWC)**

Status:  Y     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**

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

Y	N
X	X

*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.*

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

Y	N	U	N/A
X			

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

Y	N	U	N/A
X			

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

Y	N	U	N/A
X			

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

Y	N	U	N/A
			X

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

Y	N	U
X		



**Seismic Walkdown Checklist (SWC)**

Status:  Y     N     U

Equipment ID No. 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 |   |   |     |
| 10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?                   | X |   |   |     |

**Other Adverse Conditions**

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

**Comments** (Additional pages may be added as necessary)



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



Adam L. Helffrich      Date: 10/1/2012



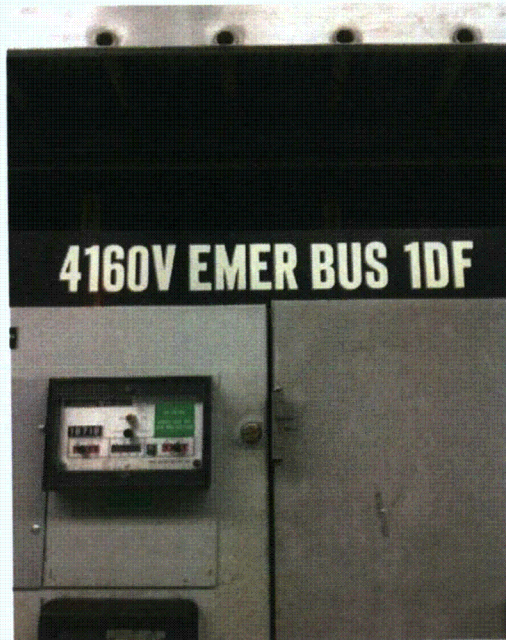
**Seismic Walkdown Checklist (SWC)**

Status:  Y  N  U

Equipment ID No. 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:  Y     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:  Y     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**

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		

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

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

	Y	N	U	N/A
X				

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

	Y	N	U	N/A
X				

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

	Y	N	U	N/A
X				

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

	Y	N	U	N/A
X				

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

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

	Y	N	U
X			



**Seismic Walkdown Checklist (SWC)**

Status:  Y     N     U

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

Equipment Description 125V DC Battery/Instrument Control Power

**Interaction Effects**

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

Y	N	U	N/A
X			

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

Y	N	U	N/A
X			

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

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

Y	N	U	N/A
X			

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

Y	N	U
X		

**Other Adverse Conditions**

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

Y	N	U
X		

**Comments** (Additional pages may be added as necessary)



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



Adam L. Helffrich      Date: 10/1/2012



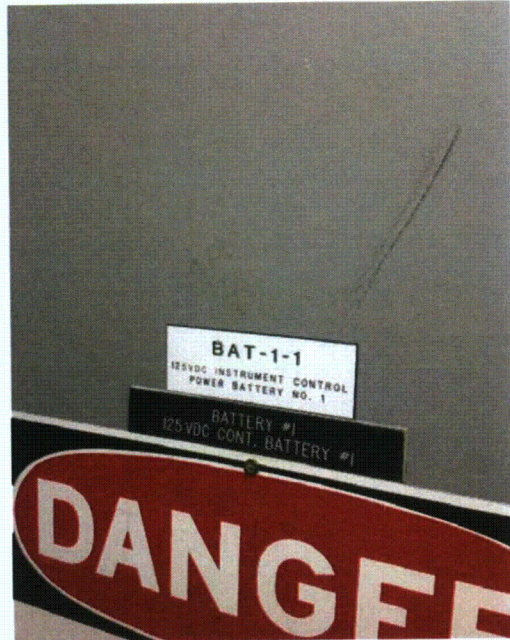
**Seismic Walkdown Checklist (SWC)**

Status:  Y  N  U

Equipment ID No. 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)**

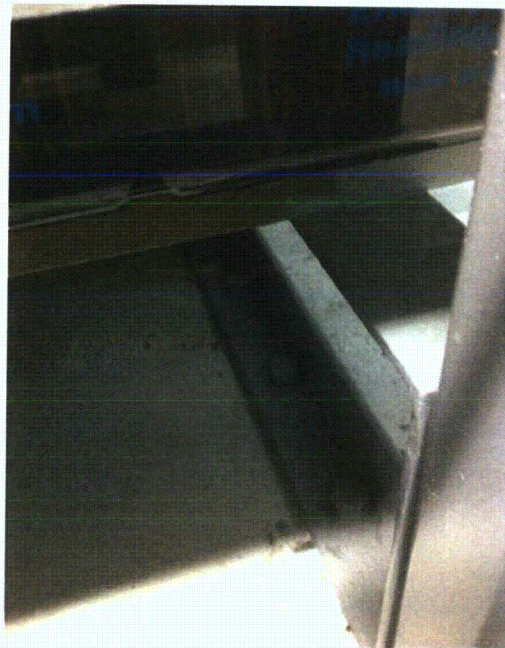
Status:  Y     N     U

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:  Y     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**

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	

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

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

Y	N	U	N/A
X			

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

Y	N	U	N/A
X			

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

Y	N	U	N/A
X			

5. Is the anchorage configuration consistent with plant documentation?

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

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

Y	N	U	N/A
X			

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

Y	N	U
X		



**Seismic Walkdown Checklist (SWC)**

Status:  Y  N  U

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

Equipment Description 125V DC Battery 2/Instrument Control Power

**Interaction Effects**

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

Y	N	U	N/A
X			

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

Y	N	U	N/A
X			

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

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

Y	N	U	N/A
X			

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

Y	N	U
X		

**Other Adverse Conditions**


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

Y	N	U
X		

**Comments** (Additional pages may be added as necessary)



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



Adam L. Helffrich Date: 10/1/2012



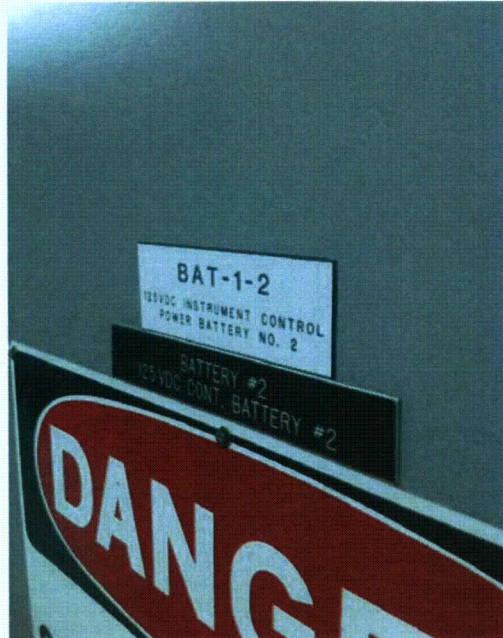
**Seismic Walkdown Checklist (SWC)**

Status:  N  U

Equipment ID No. 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

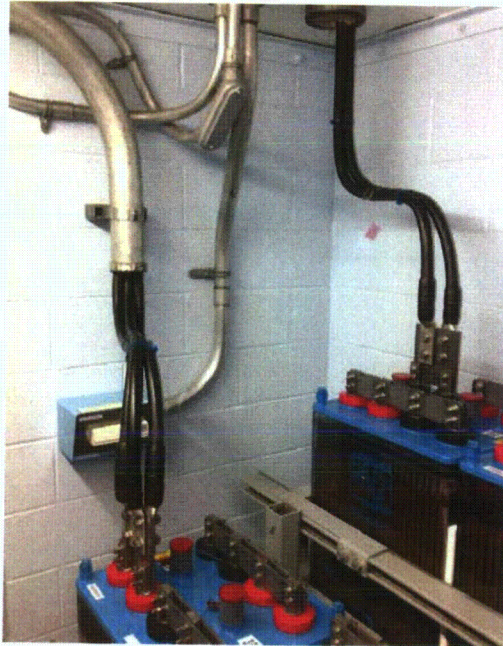


**Seismic Walkdown Checklist (SWC)**

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:  Y     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**

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	

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

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

Y	N	U	N/A
X			

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

Y	N	U	N/A
X			

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

Y	N	U	N/A
X			

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

Y	N	U	N/A
X			

*Anchorage configuration confirmed per Calculation DSC-6698*

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

Y	N	U
X		



**Seismic Walkdown Checklist (SWC)**

Status:  Y     N     U

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

Equipment Description Station Battery Charger NO. 1

**Interaction Effects**

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

Y	N	U	N/A
X			

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

Y	N	U	N/A
X			

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

*Top entry conduits found with adequate flexibility.*

Y	N	U	N/A
X			

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

Y	N	U
X		

**Other Adverse Conditions**

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

Y	N	U
X		

**Comments** (Additional pages may be added as necessary)



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



Adam L. Helffrich Date: 10/1/2012



**Seismic Walkdown Checklist (SWC)**

Status:  N  U

Equipment ID No. 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



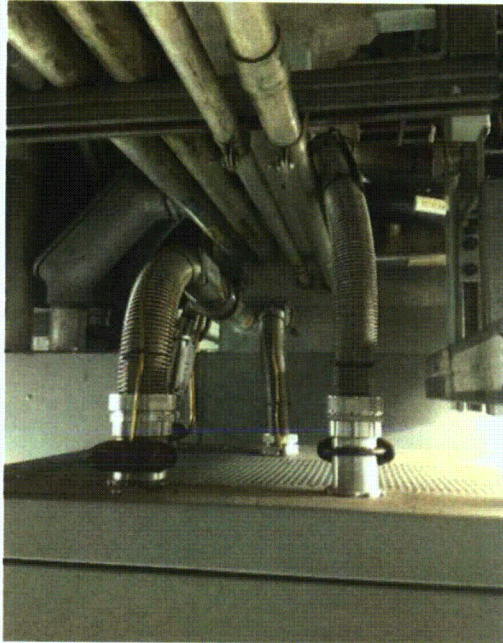
**Seismic Walkdown Checklist (SWC)**

Status:  N  U

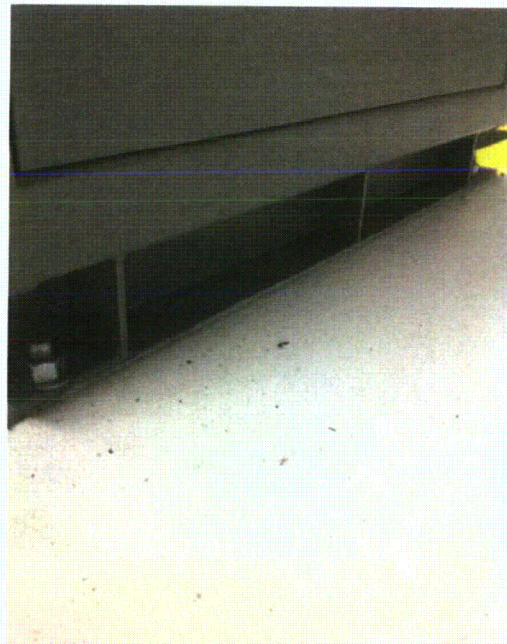
Equipment ID No. BAT-CHG-1-1 Equip. Class 16. Battery Chargers and Inverters

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 anchorage 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**

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

Y	N
X	X

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

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

Y	N	U	N/A
X			

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

Y	N	U	N/A
X			

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

Y	N	U	N/A
X			

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

Y	N	U	N/A
			X

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

Y	N	U
X		



**Seismic Walkdown Checklist (SWC)**

Status: Y    Ⓝ    U

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

Equipment Description Battery Charger

**Interaction Effects**

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.*

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

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

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

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

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

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

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

**Other Adverse Conditions**


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

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

**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

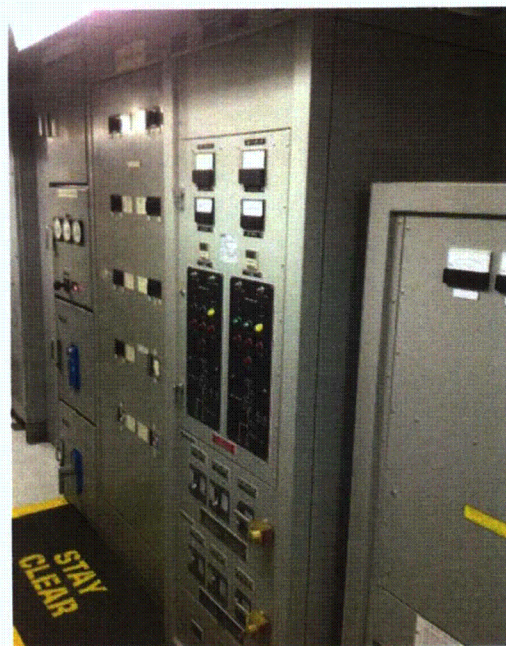
Equipment ID No. BAT-CHG1-2-A Equip. Class 16. Battery Chargers and Inverters

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



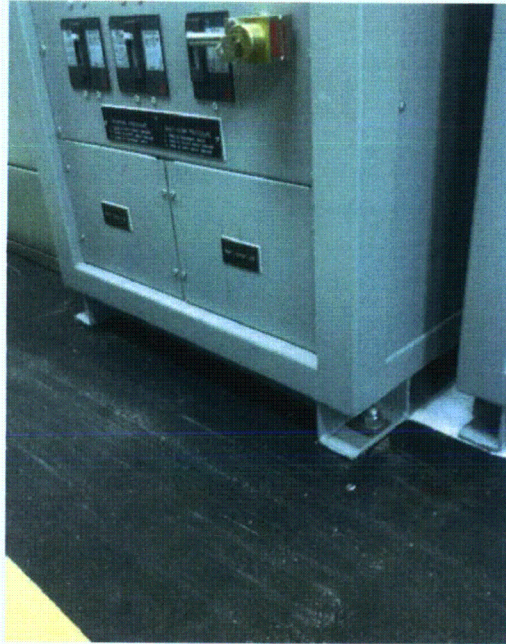
**Seismic Walkdown Checklist (SWC)**

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 anchorage configuration



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



**Seismic Walkdown Checklist (SWC)**

Status:  Y     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**

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

Y	N
X	X

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

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

Y	N	U	N/A
X			

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

Y	N	U	N/A
X			

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

Y	N	U	N/A
X			

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

Y	N	U	N/A
			X

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

Y	N	U
X		



**Seismic Walkdown Checklist (SWC)**

Status:  Y     N     U

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

Equipment Description Station Battery Charger NO. 3

**Interaction Effects**

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

Y	N	U	N/A
X			

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?  
*Block wall SB-1-15 has been qualified per IE 80-11 review.*

Y	N	U	N/A
X			

9. Do attached lines have adequate flexibility to avoid damage?  
*Top entry conduits found with adequate flexibility.*

Y	N	U	N/A
X			

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

Y	N	U
X		

**Other Adverse Conditions**

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

Y	N	U
X		

**Comments** (Additional pages may be added as necessary)



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



Adam L. Helffrich    Date: 10/1/2012



**Seismic Walkdown Checklist (SWC)**

Status:  N  U

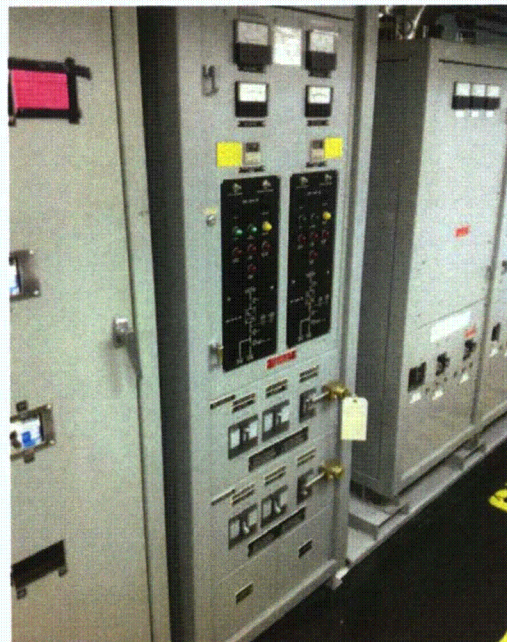
Equipment ID No. BAT-CHG-1-3 Equip. Class 16. Battery Chargers and Inverters

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:  Y     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:  Y     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**

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

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

Y	N
X	X

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

Y	N	U	N/A
X			

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

Y	N	U	N/A
X			

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

Y	N	U	N/A
X			

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

Y	N	U	N/A
			X

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

Y	N	U
X		



**Seismic Walkdown Checklist (SWC)**

Status:  Y     N     U

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

Equipment Description Control Room

**Interaction Effects**

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

Y	N	U	N/A
X			

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

Y	N	U	N/A
X			

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

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

Y	N	U	N/A
X			

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

Y	N	U
X		

**Other Adverse Conditions**

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

Y	N	U
X		

**Comments** (Additional pages may be added as necessary)



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



Adam L. Helffrich      Date: 10/1/2012



**Seismic Walkdown Checklist (SWC)**

Status:  Y  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**

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

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

Y	N
X	X

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

Y	N	U	N/A
X			

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

Y	N	U	N/A
X			

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

Y	N	U	N/A
X			

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

Y	N	U	N/A
			X

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

Y	N	U
X		



**Seismic Walkdown Checklist (SWC)**

Status:  Y     N     U

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

Equipment Description Component Cooling Water Surge Tank

**Interaction Effects**

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

Y	N	U	N/A
X			

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

Y	N	U	N/A
X			

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

Y	N	U	N/A
X			

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

Y	N	U
X		

**Other Adverse Conditions**

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

Y	N	U
X		

**Comments** (Additional pages may be added as necessary)



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



Adam L. Helffrich      Date: 10/1/2012



**Seismic Walkdown Checklist (SWC)**

Status:  Y     N     U

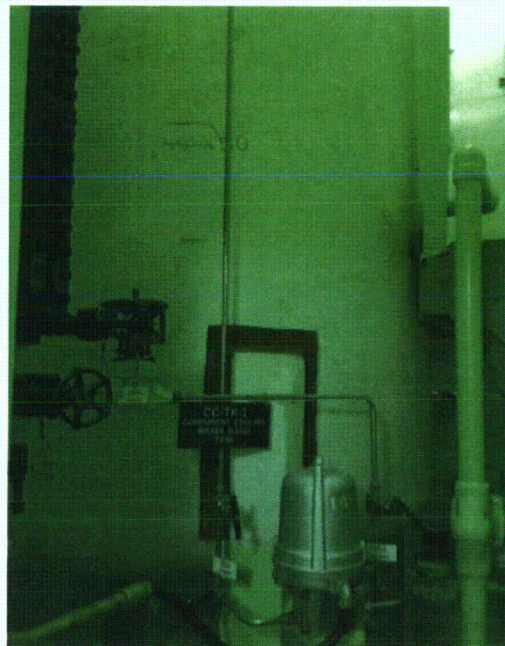
Equipment ID No. CC-TK-1      Equip. Class 21. Tanks and Heat Exchangers

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

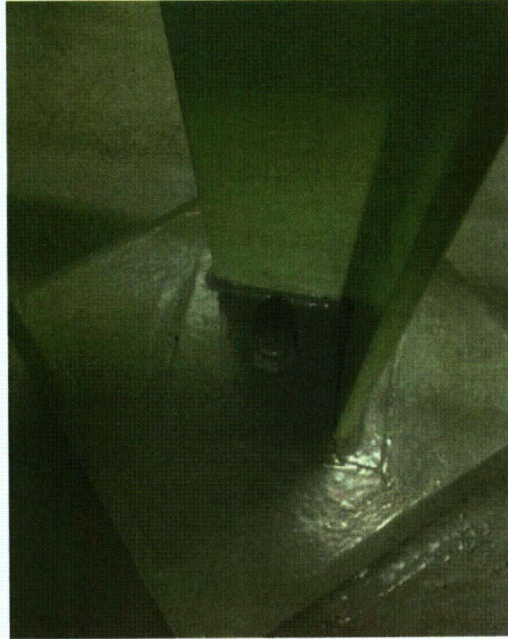


**Seismic Walkdown Checklist (SWC)**

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:  Y     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**

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	

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

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

Y	N	U	N/A
X			

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

Y	N	U	N/A
X			

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

Y	N	U	N/A
X			

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

Y	N	U	N/A
X			

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

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

Y	N	U
X		



**Seismic Walkdown Checklist (SWC)**

Status:  Y     N     U

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

Equipment Description Charging High-Head Safety Injection Pump

**Interaction Effects**

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

Y	N	U	N/A
X			

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

Y	N	U	N/A
X			

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

Y	N	U	N/A
X			

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

Y	N	U
X		

**Other Adverse Conditions**

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

Y	N	U
X		

**Comments** (Additional pages may be added as necessary)



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



Adam L. Helffrich      Date: 10/1/2012



**Seismic Walkdown Checklist (SWC)**

Status:  N U

Equipment ID No. 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:  Y  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:  Y     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**

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

Y	N
	X

*Small 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.*

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

Y	N	U	N/A
X			

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

Y	N	U	N/A
X			

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

Y	N	U	N/A
X			

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

Y	N	U	N/A
			X

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

Y	N	U
X		



**Seismic Walkdown Checklist (SWC)**

Status:  Y     N     U

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

Equipment Description Boric Acid Blender

**Interaction Effects**

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

Y	N	U	N/A
X			

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

Y	N	U	N/A
X			

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

Y	N	U	N/A
X			

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

Y	N	U
X		

**Other Adverse Conditions**

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

Y	N	U
X		

**Comments** (Additional pages may be added as necessary)



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



Adam L. Helffrich      Date: 10/1/2012



**Seismic Walkdown Checklist (SWC)**

Status:  N  U

Equipment ID No. 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:  V     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