APPENDIX B SEISMIC WALKDOWN CHECKLISTS (SWCs)

N

Status:



potentially adverse seismic conditions?

Seismic Walkdown Checklist (SWC)

Equipment ID No. <u>1CC-E-1A</u> Equip. Class 21. Tanks and Heat Exchangers				
Equipment Description Primary Plant Component Cooling Water Heat exchange	r			_
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 SWEL. The space below each of the following questions may be used to record the result findings. Additional space is provided at the end of this checklist for documenting other of the space is provided at the end of this checklist for documenting other of the space is provided at the end of this checklist for documenting other of the space is provided at the end of this checklist for documenting other of the space is provided at the end of this checklist for documenting other of the space is provided at the end of this checklist for documenting other of the space is provided at the end of this checklist for documenting other of the space is provided at the end of this checklist for documenting other of the space is provided at the end of this checklist for documenting other of the space is provided at the end of this checklist for documenting other of the space is provided at the end of this checklist for documenting other of the space is provided at the end of this checklist for documenting other of the space is provided at the end of this checklist for documenting other of the space is provided at the end of this checklist for documenting other of the space is provided at the end of this checklist for documenting other of the space is provided at the end of this checklist for documenting of the space is provided at the end of this checklist for the space is provided at the end of the space	ts of judg	ments and		
Anchorage				
. I. d	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. Rased on the above anchorage evaluations is the anchorage free of	Y			

N



Seismic Walkdown Checklist (SWC) Status:

Equipment ID No	Equip. Class 21. Tanks and Heat E	xchanger	S			
Equipment Descr	iption Primary Plant Component Cooling Water He	at exchan	ger			
Interaction Effec	ets		v	N	U	N/A
7. Are soft targets	free from impact by nearby equipment or structures?		X	N		IN/A
	equipment, distribution systems, ceiling tiles and lighting,		Y	N	U	N/A
and masonry blo	ock walls not likely to collapse onto the equipment?					
9. Do attached lin	nes have adequate flexibility to avoid damage?		Y X	N	U	N/A
	above seismic interaction evaluations, is equipment free adverse seismic interaction effects?		Y	N	U	
	Conditions ked for and found no other seismic conditions that could ct the safety functions of the equipment?		Y	N	U	
Comments (Add	itional pages may be added as necessary)					
Evaluated by:	Eddie M. Guerra	Date:	10/1/	2012		
	Church Welline					
	Adam L. Helffrich	_Date:	10/1/	2012		

Status:

U

N

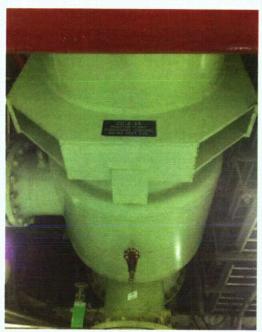
Equipment ID No. 1CC-E-1A

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

Seismic Walkdown Checklist (SWC)

Status:

(Y)

N

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



Equipment ID No. <u>IEE-EG-1</u> 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 it SWEL. The space below each of the following questions may be used to record the refindings. Additional space is provided at the end of this checklist for documenting of	esults of judg	ments and		
Anchorage				
1. Is the anchorage configuration verification required (i.e., is the item one	X	N		
of the 50% of SWEL items requiring such verification)? Anchored with 14-1 $1/4$ " diam anchor bolts. 6 of 14 anchors are below the engine block and there is a gap of $\sim 1/2$ " between floor and base of DG skid. Other anchors have grout pads. It is judged that the skid has adequate capacity for the demand load Also it is judged that bolt bending is not a concern due to gap of $\sim 1 1/2$ ". (see also calculation 52233-C-018).		N	II	N/A
2. Is the anchorage free of bent, broken, missing or loose hardware?	X	N	U	N/A
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	Y X	N	U	N/A
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Y	N 	U	N/A
5. Is the anchorage configuration consistent with plant documentation?	Y	N	U	N/A
(Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) Calculation 52233-C-018, page 4/17 confirms the anchorage configuration.		,		
2				
6. Resed on the above anchorage evaluations is the encharges free of	X	N	U	1
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	X			1

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.



Adam L. Helffrich

(Y) N U Seismic Walkdown Checklist (SWC) Status: 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? 8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? N/A 9. Do attached lines have adequate flexibility to avoid damage? 10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? **Other Adverse Conditions** 11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? Comments (Additional pages may be added as necessary) Evaluated by: 10/1/2012 Eddie M. Guerra Date:

Date:

10/1/2012

Status:

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N

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Equipment ID No. 1EE-EG-1

EG-1 Equip. Class 17. Engine Generators

Equipment Description Diese

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

Status:

(Y)

N

U

Equipment ID No. 1EE-EG-1

Equip. Class 17. Engine Generators

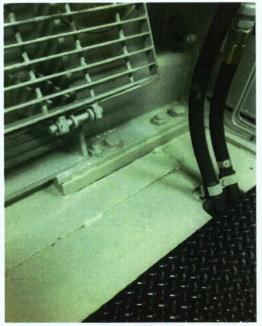
Equipment Description

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



Status:

(Y)

U

N

Equipment ID No. 1EE-EG-1

Equip. Class 17. Engine Generators

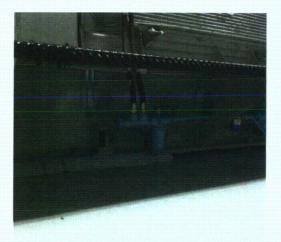
Equipment Description

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.

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C W. H. J. CL. LU: 4 (CW)	\circ	04-4
Seismic Walkdown Checklist (SW)	L)	Status:

Equipment ID No.	1EE-EG-2	Equip. Class	17. Engine Generators				
Equipment Descrip	tion <u>Dies</u>	el Generator					- -
Location: Bldg.	DGBX	Floor El.	735				
Manufacturer, Mod	el, Etc.						
SWEL. The space b	be used to docum below each of the	ent the results of following question	the Seismic Walkdown of an ons may be used to record the is checklist for documenting of	results of judgr	nents and		
Anchorage				V	N		
1 Is the anchorage	configuration ver	ification required	I (i.e., is the item one	X	N		
Anchored with 14-1 block and there is a have grout pads. It	gap of ~1/2" bet is judged that the at bolt bending is	or bolts. 6 of 14 a ween floor and b skid has adequa	ion)? nchors are below the engine ase of DG skid. Other anchors te capacity for the demand loc e to gap of ~1 1/2". (see also		N	U	N/A
2. Is the anchorage	free of bent, brok	en, missing or lo	ose hardware?	X			
3. Is the anchorage oxidation?	free of corrosion	that is more than	mild surface	Y	N	U	N/A
4. Is the anchorage	free of visible cra	acks in the concre	ete near the anchors?	Y	N	U	N/A
5. Is the anchorage				Y	N	U	N/A
which an ancho	tion only applies orage configuration of the config	n verification is r					
				Y	N	U	
6. Based on the abo	ove anchorage eva		nchorage free of	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.



Adam L. Helffrich

Seismic Walkdown Checklist (SWC) Equipment ID No. 1EE-EG-2 Equip. Class 17. Engine Generators

Equipment ID No	b. IEE-EG-2 Equip. Class 17. Engine Generat	ors				
Equipment Desci	ription Diesel Generator					
Interaction Effe	cts		Y	N	U	N/A
7. Are soft targets	s free from impact by nearby equipment or structures?		X		1	
	equipment, distribution systems, ceiling tiles and lighting, ock walls not likely to collapse onto the equipment?		Y	N	U 	N/A
9. Do attached lir	nes have adequate flexibility to avoid damage?		Y	N 	U I	N/A
	above seismic interaction evaluations, is equipment free adverse seismic interaction effects?		Y	N I	U	
	Conditions ked for and found no other seismic conditions that could ct the safety functions of the equipment?		Y	N	U	
Comments (Add	itional pages may be added as necessary)					
Evaluated by:	Eddie M. Guerra	Date:	10/1/2012	,		
Evaluated by.	Chang We of Drive	Date.	10/1/2012	<u></u>		

Date:

10/1/2012



Status:

(Y)

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



Status:

Y

U

N

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:

(Y)

N

Equipment ID No. <u>1EE-EG-2</u>

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.



potentially adverse seismic conditions?

Seismic Walkdown Checklist (SWC)

Seismic Walkdown	n Checklist (S	SWC)		Status:	Ŷ	N	U
Equipment ID No.	1FC-E-1A	Equip. Class	21. Tanks and Heat Exchang	gers			
Equipment Descrip	tion <u>F</u>	uel Pool Heat Excha	anger 1A				_
Location: Bldg.	FULB	Floor El.	735				
Manufacturer, Mod	lel, Etc						
SWEL. The space b	be used to doc below each of	ument the results of the following questi	f the Seismic Walkdown of an ons may be used to record the his checklist for documenting o	results of judgm	nents and		
Anchorage				Y	N		
		/ I/ III	d (i.e., is the item one		N X]	
Mounted on two sad	ddles. Fixed so diam anchors.		ion)? am anchor bolts and sliding tall concrete pedestal. No edg	e			
				Y	N	U	N/A
2. Is the anchorage	free of bent, b	roken, missing or lo	ose hardware?	X			
				Y	N	U	N/A
3. Is the anchorage oxidation?	free of corrosi	on that is more than	mild surface	X		l	<u> </u>
				Y	N	U	N/A
4. Is the anchorage	free of visible	cracks in the concre	ete near the anchors?	X			
				Y	N	U	N/A
	tion only applic	consistent with plan es if the item is one tion verification is r	of the 50% for			<u> </u>	X
				Y	N	U	
6. Based on the abo	ve anchorage	evaluations, is the a	nchorage free of	X			

N



Equipment ID No.	Equip. Class 21. Tanks and Heat	Exchanger	's			
Equipment Descri	ption Fuel Pool Heat Exchanger 1A					
Interaction Effec	ts		Y	N	U	N/A
7. Are soft targets	free from impact by nearby equipment or structures?		X			
	quipment, distribution systems, ceiling tiles and lighting, ock walls not likely to collapse onto the equipment?		Y X	N	U	N/A
	es have adequate flexibility to avoid damage? and to be well supported.		Y	N	U	N/A
	above seismic interaction evaluations, is equipment free dverse seismic interaction effects?		Y X	N	U]
	Conditions ted for and found no other seismic conditions that could be the safety functions of the equipment?		Y	N	- U]
Comments (Addi	tional pages may be added as necessary)					
	The Mhast					
Evaluated by:	Eddie M. Guerra	Date:	10/1	/2012		
	Chang & Alma Adam L. Helffrich	Date:	10/1	/2012		



Status:

Y

U

N

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



Seismic Walkdown Checklist (SWC)

Status:

Y

Equipment ID No. 1FC-E-1A

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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 Walkdow	n Checklist (SW	C)		Status:	(Y)	N	U
Equipment ID No.	1FC-P-1A	Equip. Class	5. Horizontal Pumps				
Equipment Descrip	otion <u>Fuel</u>	Pool Recirculation	on Pump				_
Location: Bldg.	FULB	Floor El.	735				
Manufacturer, Moo	del, Etc.						
SWEL. The space	be used to docun below each of the	nent the results of following question	the Seismic Walkdown of an ons may be used to record the is checklist for documenting of	results of judgn	nents and		
Anchorage							
1 Is the anchorage	configuration ve	rification required	(i.e., is the item one	Y	X	1	
of the 50% of SV	WEL items requir ' tall concrete pac	ing such verificat	- 3			J	
2. Is the anchorage	free of bent, brol	en missing or lo	ose hardware?	Y	N	U	N/A
2. 13 the anchorage	nee of bent, brok	ten, missing or lo	ose nardware:			1	1
				Y	N	U	N/A
3. Is the anchorage oxidation?	free of corrosion	that is more than	mild surface	X		1	<u> </u>
				Y	N	U	N/A
4. Is the anchorage	free of visible cra	acks in the concre	te near the anchors?	X		l	
				Y	N	U	N/A
	tion only applies	nsistent with plant if the item is one on verification is re	of the 50% for				X
				Y	N	U	,
6. Based on the abo	ove anchorage eva rse seismic condi		enorage free of	X		1]



Adam L. Helffrich

(Y) N U Seismic Walkdown Checklist (SWC) Status: Equipment ID No. 1FC-P-1A Equip. Class 5. Horizontal Pumps Fuel Pool Recirculation Pump **Equipment Description Interaction Effects** U 7. Are soft targets free from impact by nearby equipment or structures? U N/A 8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? N/A 9. Do attached lines have adequate flexibility to avoid damage? Nozzle piping found to be well supported. 10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? **Other Adverse Conditions** 11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? Comments (Additional pages may be added as necessary) Evaluated by: Eddie M. Guerra Date: 10/1/2012

Date:

10/1/2012



Seismic Walkdown Checklist (SWC)

Status:

Y

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



Status:

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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

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Status:

N



Seismic Walkdown Checklist (SWC)

Equipment ID No. <u>1FW-PNL-100B</u> Equip. Class 20. Instrument and Control Pane	els			
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 SWEL. The space below each of the following questions may be used to record the result findings. Additional space is provided at the end of this checklist for documenting other	ılts of judg	ments and		
Anchorage				
1. Is the anchorage configuration verification required (i.e., is the item one	Y	N X		
of the 50% of SWEL items requiring such verification)? 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 X	N	U	N/A
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	Y X	N	U	N/A
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Y X	N	U	N/A
The same disconsistings are a state of the same some second secon		N	T Y	NI/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.)	Y	N	U	N/A X
6. Based on the above anchorage evaluations, is the anchorage free of	Y X	N	U]
potentially adverse seismic conditions?				



Seismic Walkdov	wn Checklist (SWC)		Status:	\bigcirc	N	U
Equipment ID No	o. <u>1FW-PNL</u> -100B Equip. Class 20. Instrument and C	ontrol Par	nels			
Equipment Descr	iption HYV-1FW-100B Local Panel					-
Interaction Effe	cts					
7. Are soft targets	s free from impact by nearby equipment or structures?		Y	N	U	N/A
O Ana ayanbaad a			Y	N	U	N/A
	equipment, distribution systems, ceiling tiles and lighting, ock walls not likely to collapse onto the equipment?					LJ
9. Do attached lin	nes have adequate flexibility to avoid damage?		Y	N	U	N/A
	y cables have adequate flexibility.					
	above seismic interaction evaluations, is equipment free adverse seismic interaction effects?		X	N	U]
	Conditions ked for and found no other seismic conditions that could ct the safety functions of the equipment?		Y	N	U]
Comments (Add	itional pages may be added as necessary)				-	
	- detro Mehra St					
Evaluated by:	Eddie M. Guerra	_Date:	10/1/2	012		
	Chang Deflow					
	Adam I. Helffrich	Date	10/1/2	012		

Equipment ID No. <u>1FW-PNL</u>-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

Status:

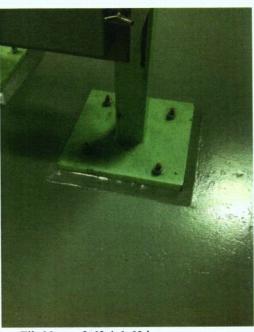
(Y)

N

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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

Status:

Y

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



6. Based on the above anchorage evaluations, is the anchorage free of

potentially adverse seismic conditions?

Seismic Walkdown Checklist (SWC)

Equipment ID No. <u>1PC-145</u> Equip. Class 0D. Other-Chec	k Valve or Manual Valve			
Equipment Description Fuel Pool Clg Sys to RWST Recirc Sys	s 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 Wal SWEL. The space below each of the following questions may be used findings. Additional space is provided at the end of this checklist for de	to record the results of judg	ments and		
Anchorage	Y	N		
1. Is the anchorage configuration verification required (i.e., is the item of the 50% of SWEL items requiring such verification)? Small manual valve on ~2 1/2" diam line. Piping found to be adequate	one	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 anchorage	Y Y	N	U	N/A
4. 15 the anchorage free of visione cracks in the conference hear the anchor	v	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				X

N



Equipment ID No	D. <u>1PC-145</u> Equip. Class 0D. Other-Check Val	lve or Ma	nual Valve			
Equipment Descr	Fuel Pool Clg Sys to RWST Recirc Sys Isol.					- , , , ,
Interaction Effe	cts		.,			
7. Are soft target	s free from impact by nearby equipment or structures?	X	N	U	N/A	
	equipment, distribution systems, ceiling tiles and lighting, ock walls not likely to collapse onto the equipment?		Y X	N	U	N/A
9. Do attached lir	nes have adequate flexibility to avoid damage?		Y	N	U	N/A
10. Based on the of potentially	Y	N	U]		
Other Adverse (Y	N	U			
Comments (Add	itional pages may be added as necessary)					
	- deter M. Shraft					
Evaluated by:	Eddie M. Guerra	_Date:	10/1/	2012		
	Chang be of Drug Adam L. Helffrich	Date:	10/1/	2012		

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

Ø N U

Status:



potentially adverse seismic conditions?

Seismic Walkdown Checklist (SWC)

Equipment ID No.	1PC-1FC-102A	Equip. Class	18. Instrument (on) Racks				
Equipment Descrip	tion (PS-F	C-102A) ISOL					
Location: Bldg.	FULB	Floor El.	735				
Manufacturer, Mod	el, Etc.						
SWEL. The space b	be used to docume below each of the f	nt the results of following questi	f the Seismic Walkdown of an ite ons may be used to record the re his checklist for documenting oth	sults of judg	ments and		
Anchorage							
1. Is the anchorage	configuration verif	ication required	d (i.e., is the item one	Y	N X	1	
Rack consists of a 2		5' tall) anchore	ion)? d with 4-3/8" diam anchor bolts. am machine bolts. Intrument is				
				Y	N	U	N/A
2. Is the anchorage	free of bent, broke	n, missing or lo	ose hardware?	X	1		
				Y	N	U	N/A
3. Is the anchorage oxidation?	free of corrosion th	nat is more than	mild surface	X			
				Y	N	U	N/A
4. Is the anchorage	free of visible crac	ks in the concre	ete near the anchors?	X			
				Y	N	U	N/A
	configuration cons tion only applies if rage configuration	the item is one	of the 50% for				X
				Y	N	U	
6 Dasad on the abo	ve anchorage eval	untions is the a	naharaa fraa af	V	1		1



Seismic Walkdown Checklist (SWC) Status: N U

Equipment Descr	iption (PS-FC-102A) ISOL					
Interaction Effe	ets		Y	N	U	N/A
7. Are soft targets	s free from impact by nearby equipment or structures?	X	- 1			
	equipment, distribution systems, ceiling tiles and lighting, ock walls not likely to collapse onto the equipment?	Y	N	U	N/A	
	nes have adequate flexibility to avoid damage? und with adequate flexibility.	Y	N	U	N/A	
	above seismic interaction evaluations, is equipment free adverse seismic interaction effects?	Y	N	U]	
	Conditions ked for and found no other seismic conditions that could ct the safety functions of the equipment?	Y	N	u U]	
Comments (Add	itional pages may be added as necessary)					
	- detro Mahra Ll					
Evaluated by:	Eddie M. Guerra	_Date:	10/1/	2012		
	Etun Welline					
	Adam L. Helffrich	Date:	10/1/	2012		

Seismic Walkdown Checklist (SWC)

Status:

Ŷ

N

Equipment ID No. <u>1PC-1FC-</u>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

Seismic Walkdown Checklist (SWC)

Status:

Y

N

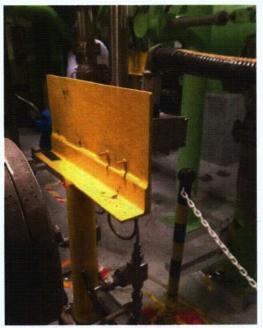
Equipment ID No. <u>1PC-1FC-</u>102A Equip. Class 18. Instrument (on) Racks

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



potentially adverse seismic conditions?

Seismic Walkdowi	n Checklist	(SWC)					Status:	Ø	N	U
Equipment ID No. <u>1RW-189</u> Equip. Class 0D. Other-Check Valve or Manual						ıl Valve				
Equipment Descrip	tion	Primary CCW HX Outlet Valve								_
Location: Bldg.	AXLB		Floor El.	735						
Manufacturer, Mod	el, Etc.									
Instructions for Co This checklist may SWEL. The space be findings. Additiona	be used to doelow each of	locument of the fol	the results of lowing quest	tions may	be used to recor	d the result	s of judg	ments and		
Anchorage							Y	N		
1. Is the anchorage of the 50% of SW Small manual valve	VEL items re	equiring	such verifica	ation)?				X]	
2. Is the anchorage	free of bent,	, broken,	missing or l	oose hard	ware?	[Y	N	U	N/A X
3. Is the anchorage oxidation?	free of corro	osion tha	t is more tha	n mild suı	rface	[Y	N	U	N/A X
4. Is the anchorage	free of visib	ile cracks	s in the conc	rete near t	he anchors?		Y	N	U	N/A X
							Y	N	U	N/A
5. Is the anchorage (Note: This quest which an anchorage)	tion only app	plies if th	ne item is one	e of the 50	0% for	L			l	X
6. Based on the abo	ve anchorag	ge evalua	tions, is the	anchorage	e free of	Г	Y X	N	U	7

🕅 N U

Status:



Equipment ID No Equipment Descr		arve or Mai	nual valve			
Interaction Effe	cts		v	N	-	NI/A
7. Are soft targets	s free from impact by nearby equipment or structures?		X	N	U	N/A
0			Y	N	U	N/A
	equipment, distribution systems, ceiling tiles and lighting, ock walls not likely to collapse onto the equipment?		<u> </u>		Lagrange	[
9. Do attached lin	nes have adequate flexibility to avoid damage?		Y	N	U	N/A
			Y	N	U	
	above seismic interaction evaluations, is equipment free adverse seismic interaction effects?		X		I]
					_	
	ked for and found no other seismic conditions that could		Y	N	U	
adversely affe	ct the safety functions of the equipment?		X		1	J
Comments (Add	itional pages may be added as necessary)				-	
	the Whiast					
Evaluated by:	Eddie M. Guerra	Date:	10/1	/2012		
	Elan Delline					
	Adam L. Helffrich	Date:	10/1/	/2012		

Status:

(Y)

U

N

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



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

Seismic Walkdown	Checklist (SW	C)		Status:	Ø	N	U
Equipment ID No.	480VUS-1-8-N	Equip. Class	2. Low Voltage Switchgear				
Equipment Descripti	on 480	V Bus					-
Location: Bldg.	SRVB	Floor El.	713				
Manufacturer, Mode	l, Etc						
SWEL. The space be	e used to docun	nent the results of following questi	the Seismic Walkdown of an ons may be used to record the is checklist for documenting	e results of judgn	nents and		
Anchorage				Y	N		
I. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?				X			
	lds at front of se	ections verified. W	Velds at back of SWGR not				
				Y	N	U	N/A
2. Is the anchorage fi	ree of bent, brol	ken, missing or lo	ose hardware?	X			
				Y	N	U	N/A
3. Is the anchorage fi oxidation?	ree of corrosion	that is more than	mild surface	X			
				Y	N	U	N/A
4. Is the anchorage f	ree of visible cr	acks in the concre	ete near the anchors?	X]
				Y	N	U	N/A
5. Is the anchorage c (Note: This questi	on only applies	if the item is one	of the 50% for				X
which an anchor	age configuration	on verification is	required.)				
				v	N	TT	



Equipment ID N	o. 480VUS-1-8-N Equip. Class 2. Low Voltage Switch	hgear				
Equipment Desc	ription 480V Bus					
nteraction Effe	ects					
7. Are soft target	s free from impact by nearby equipment or structures?		X	N	U	N/A
	equipment, distribution systems, ceiling tiles and lighting, lock walls not likely to collapse onto the equipment?		Y	N	U	N/A
). Do attached lin	nes have adequate flexibility to avoid damage?		Y	N	U	N/A
Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?			Y	N	U	
	Conditions ked for and found no other seismic conditions that could cot the safety functions of the equipment?		Y	N	U	
Comments (Add	itional pages may be added as necessary)					
	- detro M. Line It					
Evaluated by:	Eddie M. Guerra	Date:	10/1/2	2012		
	Chan Dellan					
	Adam L. Helffrich	Date:	10/1/2	2012		

Status:

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



potentially adverse seismic conditions?

Seismic Walkdown Checklist (SWC)

Seismic Walkdown	smic Walkdown Checklist (SWC)		Status:	\bigcirc	N	U	
Equipment ID No.	480VUS-1-9-P	Equip. Class	2. Low Voltage Switchgean				
Equipment Descrip	tion 480V	Emergency Bus	:				-
Location: Bldg.	SRVB	Floor El.	713				
Manufacturer, Mod	lel, Etc.						
SWEL. The space b	be used to docume below each of the f	nt the results of ollowing question	the Seismic Walkdown of an ons may be used to record the is checklist for documenting	e results of judgm			
Anchorage				Y	N		
	configuration verif VEL items requirin		(i.e., is the item one ion)?		X		
2-1/2" diam plug we inspected since SW			'elds at back of SWGR not e.				
				Y	N	U	N/A
2. Is the anchorage	. Is the anchorage free of bent, broken, missing or loose hardware?	X	1				
3. Is the anchorage oxidation?	free of corrosion th	nat is more than	mild surface	Y	N	U	N/A
				Y	N	U	N/A
4. Is the anchorage	free of visible crac	ks in the concre	te near the anchors?	X			
				Y	N	U	N/A
	configuration cons tion only applies if rage configuration	the item is one	of the 50% for				X
6. Based on the abo	ve anchorage evalu	uations, is the ar	nchorage free of	Y	N	U	1



Evaluated by:

Eddie M. Guerra

Adam L. Helffrich

(Y) U N Seismic Walkdown Checklist (SWC) Status: Equipment ID No. 480VUS-1-9-P Equip. Class 2. Low Voltage Switchgear **Equipment Description** 480V Emergency Bus **Interaction Effects** N/A 7. Are soft targets free from impact by nearby equipment or structures? 8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? N/A 9. Do attached lines have adequate flexibility to avoid damage? 10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? **Other Adverse Conditions** 11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? Comments (Additional pages may be added as necessary)

10/1/2012

10/1/2012

Date:

Date:

Status:

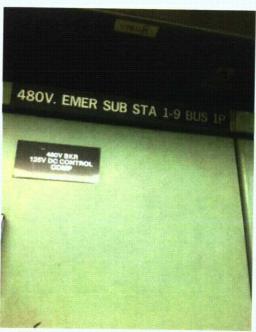
Y

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



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

N U

(Y)

Status:



potentially adverse seismic conditions?

Equipment ID No.	4KVS-1AE	Equip. Class	3. Medium Voltage Sv	witchgear				
Equipment Descrip	tion <u>416</u> 0	OV Emergency B	us					-
Location: Bldg.	SRVB	Floor El.	713					
Manufacturer, Mod	lel, Etc.							
SWEL. The space b	be used to docume below each of the	nent the results of following questi	f the Seismic Walkdown ons may be used to reco iis checklist for docume	ord the results	of judg	ments and		
Anchorage					V	N		
1. Is the anchorage	configuration ve	rification required	d (i.e., is the item one	Г	Y	N X		
of the 50% of SV 8 plug welds (1-1/4	VEL items requir " diam) verified of the panel was e	ing such verificat at the front of the nergized. 3 rows	ion)? SWGR sections. Welds of embed channels unde					
					Y	N	U	N/A
2. Is the anchorage	free of bent, brol	ken, missing or lo	ose hardware?		X			
					Y	N	U	N/A
3. Is the anchorage oxidation?	free of corrosion	that is more than	mild surface	L L	X			
					v	N	17	NI/A
4. Is the anchorage	free of visible cr	acks in the concre	ete near the anchors?	Г	X	N	U	N/A
ii io iii umamamga						1		1
					Y	N	U	N/A
5. Is the anchorage								X
		if the item is one on verification is i						
					Y	N	U	
6. Based on the abo	ve anchorage ev	aluations, is the a	nchorage free of	Γ	X]

U



Seismic Walkdown Checklist (SWC) Status: Status:

Equipment ID No	Equip. Class 3. Medium Voltage	Switchgea	r			
Equipment Descr	iption 4160V Emergency Bus					
Interaction Effec	ets		v	.	· •	21/4
7. Are soft targets	s free from impact by nearby equipment or structures?		X	N	U I	N/A
	equipment, distribution systems, ceiling tiles and lighting, ock walls not likely to collapse onto the equipment?		Y X	N	U	N/A
9. Do attached lin	nes have adequate flexibility to avoid damage?		Y	N	U	N/A
	above seismic interaction evaluations, is equipment free adverse seismic interaction effects?		Y X	N	U]
	Conditions ked for and found no other seismic conditions that could ct the safety functions of the equipment?		Y	N	- U]
Comments (Add	itional pages may be added as necessary)				-	
	- delis Mehra St					
Evaluated by:	Eddie M. Guerra	Date:	10/1	/2012	-	
	Clany & Almu Adam L. Helffrich	Date:	10/1	/2012		

Status:

Y

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



Status:

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

Status:

Y

U

N

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



6. Based on the above anchorage evaluations, is the anchorage free of

potentially adverse seismic conditions?

Seismic Walkdown Checklist (SWC)	ic Walkdown Checklist (SWC)			N	U
Equipment ID No. 4KVS-1DF Equip. Class	3. Medium Voltage Switchgea	r			
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 t SWEL. The space below each of the following question findings. Additional space is provided at the end of this	ns may be used to record the re	sults of judgr	nents and		
Anchorage		V	N		
1. Is the anchorage configuration verification required of the 50% of SWEL items requiring such verification and such verification of the Swelds (1-1/4" diam) verified at the front of the Swelds as the panel was energized. 3 rows of SWGR were verified. Two at front of the SWGR and or	on)? SWGR sections. Welds at the fembed channels under the	Y	X		
		v	N	11	NI/A
2. Is the anchorage free of bent, broken, missing or loo	se hardware?	X	N 	U	N/A
		Y	N	U	N/A
3. Is the anchorage free of corrosion that is more than a oxidation?	nild surface	X			
		Y	N	U	N/A
4. Is the anchorage free of visible cracks in the concret	e near the anchors?	X			
		Y	N	U	N/A
5. Is the anchorage configuration consistent with plant (Note: This question only applies if the item is one of which an anchorage configuration verification is re-	of the 50% for				X
		Y	N	IJ	

U

N

 \bigcirc



Seismic Walkdown Checklist (SWC) Status:

Equipment ID No	o. 4KVS-1DF Equip. Class 3. Medium Voltage	Switchgea	r			
Equipment Desc	ription 4160V Bus					-
nteraction Effe	ects					
7. Are soft target	s free from impact by nearby equipment or structures?		Y X	N	U	N/A
			Y	N	U	N/A
	equipment, distribution systems, ceiling tiles and lighting, lock walls not likely to collapse onto the equipment?		X	l	1	l
Do attached lin	nes have adequate flexibility to avoid damage?		Y	N	U	N/A
Based on the	above seismic interaction evaluations, is equipment free		Y	N	U	,
	adverse seismic interaction effects?					
Other Adverse (N.		
	ked for and found no other seismic conditions that could cot the safety functions of the equipment?		X	N	I U	
Comments (Add	itional pages may be added as necessary)	E E				
	addie White It					
Evaluated by:	Eddie M. Guerra	_Date:	10/1/	/2012		
	Elma De flore					
	Adam L. Helffrich	Date:	10/1/	2012		



Status:

U

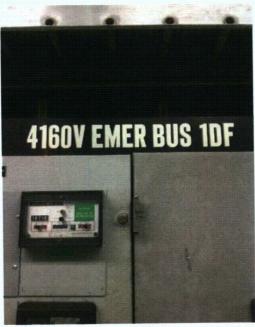
Equipment ID No. 4KVS-1DF

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

U

Seismic Walkdown Checklist (SWC)

Status:

Y

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. <u>BAT-1-1</u>	Equip. Class 15. Battery Racks				
Equipment Description	125V DC Battery/Instrument Control Power				-
Location: Bldg. SRVB	Floor El. <u>713</u>				
Manufacturer, Model, Etc.					
SWEL. The space below each of	Thecklist ocument the results of the Seismic Walkdown of an f the following questions may be used to record the ovided at the end of this checklist for documenting of	results of judgr	nents and		
Anchorage					
		Y	N	1	
0 0	n verification required (i.e., is the item one	X			
	quiring such verification)? composed of 6 bays. Each bay anchoraed with 6-1/2 ad spacers found in adequate condition.	y"			
		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 corros	sion that is more than mild surface	X			
oxidation?					
		Y	N	U	N/A
4. Is the anchorage free of visible	le cracks in the concrete near the anchors?	X		L	
		Y	N	U	N/A
	n consistent with plant documentation?	X			
which an anchorage configuration	olies if the item is one of the 50% for ration verification is required.) Solution is required.) Solution 52: med per drawing 8700-1.24-1E and calcualtion 52:	223			
C-016 Anchorage Calc.	mea per arawing 6700-1.24-115 and calcudition 322	233-			
J		Y	N	U	
	e evaluations, is the anchorage free of	X]
potentially adverse seismic co	onditions'?				



Adam L. Helffrich

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** N/A U 7. Are soft targets free from impact by nearby equipment or structures? 8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? 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. N/A 9. Do attached lines have adequate flexibility to avoid damage? 10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? **Other Adverse Conditions** 11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? Comments (Additional pages may be added as necessary) Evaluated by: Eddie M. Guerra Date: 10/1/2012

Date:

10/1/2012



Status:

(Y)

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

Y

Status:

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



which an anchorage configuration verification is required.)

6. Based on the above anchorage evaluations, is the anchorage free of

potentially adverse seismic conditions?

C-016 Anchorage Calc.

Anchorage configuration confirmed per drawing 8700-1.24-1E and calcualtion 52233-

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



Adam L. Helffrich

Seismic Walkdown Checklist (SWC)	Status:	\bigcirc	N	U

Equipment ID N	lo. <u>BAT-1-2</u> Equip. Class 15. Battery Racks				
Equipment Desc	ription 125V DC Battery 2/Instrument Control Power				-
Interaction Effe	ects				
7. Are soft target	ts free from impact by nearby equipment or structures?	X	N	T U	N/A
		Y	N	U	N/A
and masonry b	equipment, distribution systems, ceiling tiles and lighting, lock walls not likely to collapse onto the equipment? 1-11, SB-1-12, SB-1-13, SB-1-14 and SB-1-15 have been qualified per	, X			
9. Do attached li	nes have adequate flexibility to avoid damage?	Y X	N	U	N/A
		Y	N	U	,
	10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?			1	J
Other Adverse	Conditions			_	
11. Have you loo	oked for and found no other seismic conditions that could ect the safety functions of the equipment?	Y	N	U]
Comments (Add	litional pages may be added as necessary)			_	
	- deter MShraft				
Evaluated by:	Eddie M. Guerra Date:	10/1/	2012		
	Chan & Allow				

Date:

10/1/2012



Status:

(Y)

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

U

(Y)

N

Status:



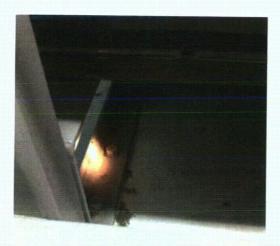
Seismic Walkdown Checklist (SWC)

Equipment ID No. <u>BAT-1-2</u> 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



potentially adverse seismic conditions?

Seismic Walkdown Checklist (SWC)			Status:	\bigcirc	N	U	
Equipment ID No.	BAT-CHG-1-1	Equip. Class	16. Battery Chargers and I	nverters			
Equipment Descrip	tion Statio	on Battery Charg	er NO. 1				
Location: Bldg.	SRVB	Floor El.	713				
Manufacturer, Mod	lel, Etc.						
SWEL. The space b	be used to docum below each of the	ent the results of following questi	the Seismic Walkdown of a cons may be used to record the checklist for documenting	ne results of judgm			
Anchorage				V	N		
			l (i.e., is the item one	X	N		
	WEL items requiri with 4-5/8" diam o		ion)? o found to next panel judged	not a			
				Y	N	U	N/A
2. Is the anchorage	free of bent, brok	en, missing or lo	ose hardware?	X	1		
				Y	N	U	N/A
3. Is the anchorage oxidation?	free of corrosion	that is more than	mild surface	X	<u> </u>		
				Y	N	U	N/A
4. Is the anchorage	free of visible cra	cks in the concre	ete near the anchors?	X			
	~			Y	N	U	N/A
	tion only applies in prage configuration	f the item is one verification is	of the 50% for required.)	X	!		
				Y	N	U	
6. Based on the abo	ove anchorage eva	luations, is the a	nchorage free of	X		0]



Equipment ID 2	DATE CHE A TOTAL T		Status:	(X)	N	U
Equipment ID 1 Equipment Des	I P and I or Suitery Charger	s and Inve	rters			_
Interaction Eff	ects	-				
7. Are soft targe	ets free from impact by nearby equipment or structures?		Y X	N	U	N/A
8. Are overhead and masonry b	equipment, distribution systems, ceiling tiles and lighting, block walls not likely to collapse onto the equipment?		Y	N	U	N/A
9. Do attached li	nes have adequate flexibility to avoid damage? its found with adequate flexibility.		Y	N	U	N/A
10. Based on the of potentially	above seismic interaction evaluations, is equipment free adverse seismic interaction effects?		Y	N	U	Ĺ
Other Adverse of 11. Have you loo adversely affe	Conditions ked for and found no other seismic conditions that could bet the safety functions of the equipment?		Y	N	U	
Comments (Add	itional pages may be added as necessary)					
	- delie MehraIt					
Evaluated by:	Eddie M. Guerra	Date:	10/1/20	012		
	Adam L. Helffrich	Date:	10/1/20	012		



Status:

Y

N

U

Equipment ID No. <u>BAT-CHG</u>-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

Status:

(Y)

U

N

Equipment ID No. <u>BAT-CHG</u>-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

U

N

Status:



potentially adverse seismic conditions?

Equipment ID No. BAT-0	CHG1-2-A Equip. Class 16. Battery Chargers and	l Inverters			
Equipment Description	Battery Charger				-
Location: Bldg. SRVB	Floor El. <u>713</u>				
Manufacturer, Model, Etc.					
SWEL. The space below ea	ng Checklist to document the results of the Seismic Walkdown of ch of the following questions may be used to record s provided at the end of this checklist for documenti	the results of judgme			
Anchorage		V	N		
of the 50% of SWEL iten	ration verification required (i.e., is the item one as requiring such verification)? rompartment in BAT-CHG1-2. Battery charger is an	Y	N X]	
2. Is the anchorage free of b	ent, broken, missing or loose hardware?	Y	N	U	N/A
3. Is the anchorage free of coxidation?	orrosion that is more than mild surface	Y	N	U	N/A
4. Is the anchorage free of v	risible cracks in the concrete near the anchors?	Y	N	U	N/A
5. Is the anchorage configur	ration consistent with plant documentation?	Y	N	U	N/A
(Note: This question only	applies if the item is one of the 50% for applies if the item is required.)	<u> </u>			
C Deceded the shows on the	orage evaluations, is the anchorage free of	Y	N	U	i



N Seismic Walkdown Checklist (SWC) Status: U Equipment ID No. BAT-CHG1-2-A Equip. Class 16. Battery Chargers and Inverters **Equipment Description Battery Charger Interaction Effects** 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. 8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? N/A 9. Do attached lines have adequate flexibility to avoid damage? 10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? **Other Adverse Conditions** 11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? Comments (Additional pages may be added as necessary)

Evaluated by:

Eddie M. Guerra

Date:

10/1/2012

Adam L. Helffrich

Date:

10/1/2012



Status:

Y

N

U

Equipment ID No. <u>BAT-CHG</u>1-2-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

U

Seismic Walkdown Checklist (SWC)

Status: Y

N

Equipment ID No. <u>BAT-CHG</u>1-2-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



6. Based on the above anchorage evaluations, is the anchorage free of

potentially adverse seismic conditions?

Seismic Walkdown Checklist (SWC)				Status:	(I)	IN	U
Equipment ID No.	BAT-CHG-	-1-3 Equip. Class	s 16. Battery Chargers and	Inverters			
Equipment Descrip	tion S	Station Battery Char	rger NO. 3				-
Location: Bldg.	SRVB	Floor El.	713				
Manufacturer, Mod	lel, Etc						
SWEL. The space b	be used to do below each of	cument the results of the following ques	of the Seismic Walkdown of tions may be used to record this checklist for documenti	the results of judge	ments and		
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 concern.	with 4-5/8" di	iam anchors. ~4" go	ap found to next panel judge	ed not a			
				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 oxidation?	free of corros	ion that is more tha	in mild surface	X		l	1
				Y	N	U	N/A
4. Is the anchorage	free of visible	e cracks in the conc	rete near the anchors?	X			
				Y	N	U	N/A
	tion only appl	consistent with platies if the item is on ration verification is	e of the 50% for				X
				Y	N	U	



Seismic Walkdo	wn Checklist (SWC)		Status:	Ŷ	N	U
Equipment ID No	o. <u>BAT-CHG</u> -1-3 Equip. Class 16. Battery Chargers	and Inverte	ers			
Equipment Desci	ription Station Battery Charger NO. 3					
Interaction Effe	cts		Y	N	U	N/A
7. Are soft target	s free from impact by nearby equipment or structures?		X	- 11		19/24
			Y	N	U	N/A
8. Are overhead	equipment, distribution systems, ceiling tiles and lighting,		X			
	ock walls not likely to collapse onto the equipment? 15 has been qualified per IE 80-11 review.					
			Y	N	U	N/A
	nes have adequate flexibility to avoid damage? Its found with adequate flexibility.		X			
			Y	N	U	
	above seismic interaction evaluations, is equipment free adverse seismic interaction effects?		X			
Other Adverse (
	ked for and found no other seismic conditions that could ct the safety functions of the equipment?		X	N	U	1
adversely affe	et the safety functions of the equipment:		_ A		L	
Comments (Add	itional pages may be added as necessary)					
	- detro Whi It					
Evaluated by:	Eddie M. Guerra	Date:	10/1/2	012		
	Chang & Alban					
	Adam L. Helffrich	Date:	10/1/2	012		



Seismic Walkdown Checklist (SWC)

Status:

(Y)

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

Ŷ

N

Status:

Seismic Walkdown Checklist (SWC)

Equipment ID No. <u>BAT-CHG</u>-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



Status:

(Y)

U

Equipment ID No. <u>BAT-CHG-1-3</u> 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



6. Based on the above anchorage evaluations, is the anchorage free of

potentially adverse seismic conditions?

Seismic Walkdown	Checklist	(SWC)		Status	· ①	N	U
Equipment ID No.	BB-A1	Equip. Class	20. Instrument and Contro	l Panels			
Equipment Descript	tion	Control Room					
Location: Bldg.	SRVB	Floor El.	735				
Manufacturer, Mode	el, Etc.						
SWEL. The space b	be used to delow each of	ocument the results of of the following question	the Seismic Walkdown of a ons may be used to record th is checklist for documenting	e results of judg	ments and		
Anchorage				V	N		
of the 50% of SW	/EL items re	n verification required equiring such verificati chorage is covered with		Y	X]	
				Y	N	U	N/A
2. Is the anchorage f	free of bent,	broken, missing or loc	ose hardware?	X		<u> </u>	
3. Is the anchorage to oxidation?	free of corro	osion that is more than	mild surface	Y X	N	U	N/A
oxidation?							
1. Is the sucharase t	fuac af siaib	lo anaska in the semena	to many the emphasis	Y	N	U	N/A
4. Is the anchorage i	iree or visio	le cracks in the concre	te flear the affenors:		1	1	
				Y	N	U	N/A
(Note: This quest	ion only app	n consistent with plant plies if the item is one or tration verification is re	of the 50% for				X
				Y	N	U	



Equipment ID No	b. BB-A1 Equip. Class 20. Instrument and Control	Panels			
Equipment Descr	iption Control Room				- -
Interaction Effec	cts				
7 Are soft targets	s free from impact by nearby equipment or structures?	X	N	U	N/A
7. Are son targets	since from impact by hearby equipment of structures:		l	1	1
		Y	N	U	N/A
	equipment, distribution systems, ceiling tiles and lighting,	X	IN		IN/A
	ock walls not likely to collapse onto the equipment? ling's main runners are supported by wires at ~4' spacing. Each	1			
	ge grating) is tied to the main runners at each of its four corners				
	d no interaction concern.	Y	N	U	N/A
9. Do attached lin	nes have adequate flexibility to avoid damage?	X	l .		<u> </u>
		Y	N	U	
	above seismic interaction evaluations, is equipment free adverse seismic interaction effects?	X	1	1	j
Other Adverse (
	ked for and found no other seismic conditions that could	Y	N	U	1
adversely affe	ct the safety functions of the equipment?	X	<u> </u>]	1
Comments (Add	itional pages may be added as necessary)			_	
	Total Minust				
Evaluated by:	Eddie M. Guerra Date	e: <u>10/1</u>	/2012	_	
	Chan Dellan				
	Adam L. Helffrich Date	e:10/1	/2012		



Seismic Walkdown Checklist (SWC)

Status:

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



Status:

(Y)

N

U

Equipment ID No. BB-A1

Equipment Description

Equip. Class 20. Instrument and Control Panels

Control Room



File Name: 2-63-5-1-18.jpeg

Description: View of electrical instrumentation connected to panel



Seismic Walkdown Checklist (SWC)	Status:	\bigcirc	N	U
Equipment ID No. <u>CC-TK-1</u> Equip. Class 21. Tanks and Heat Exchanger	rs			
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 ite SWEL. The space below each of the following questions may be used to record the refindings. Additional space is provided at the end of this checklist for documenting oth	sults of judgme			
Anchorage		.,		
. Is the anchorage configuration verification required (i.e., is the item one	Y	X		
of the 50% of SWEL items requiring such verification)? Tank supported on 4 legs ($L6 \times 6 \times 1/2$). Each leg anchored with 1-1" diam anchor.	L			
	Y	N	U	N/A
2. Is the anchorage free of bent, broken, missing or loose hardware?	X			
	Y	N	U	N/A
B. Is the anchorage free of corrosion that is more than mild surface oxidation?	X			
	Y	N	U	N/A
I. Is the anchorage free of visible cracks in the concrete near the anchors?	X			
	Y	N	U	N/A
 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)				\bigcirc	N	U
Equipment ID No	o. <u>CC-TK-1</u> Equip. Class 21. Tanks and Heat	Exchangers	S			
Equipment Descr	iption Component Cooling Water Surge Tank					
Interaction Effe	cts					
7. Are soft targets	s free from impact by nearby equipment or structures?		Y	N	U	N/A
8. Are overhead e	equipment, distribution systems, ceiling tiles and lighting,		Y	N	U	N/A
and masonry blo	ock walls not likely to collapse onto the equipment?					
9. Do attached lin	nes have adequate flexibility to avoid damage?		Y	N	U	N/A
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?			Y	N	U]
Other Adverse (Conditions ked for and found no other seismic conditions that could		Y	N	U	
	ct the safety functions of the equipment?		X]
Comments (Add	itional pages may be added as necessary)				-	
	the Melmatt					
Evaluated by:	Eddie M. Guerra	Date:	10/1/2	012	_	
	Chan Dellan					
	Adam L. Helffrich	Date:	10/1/2	012		



Status:

Y

N

U

Equipment ID No. <u>CC-TK-1</u>

Equip. Class 21. Tanks and Heat Exchangers

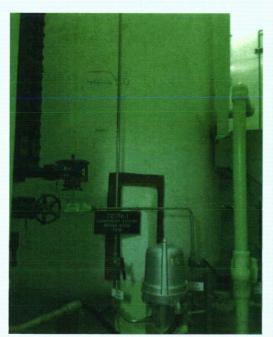
Equipment Description

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



Status:

(Y)

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



potentially adverse seismic conditions?

Seismic Walkdown Checklist (SWC) Status:

Equipment ID No. <u>CH-P-1C</u> Equip. Class 5. Horizo	ntal Pumps				
Equipment Description Charging High-Head Safety Inje	ction 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 Seismi SWEL. The space below each of the following questions may be findings. Additional space is provided at the end of this checklist	used to record the resu	ılts of judg	ments and		
Anchorage		V	N		
1. Is the anchorage configuration verification required (i.e., is the	e item one	X	N		
of the 50% of SWEL items requiring such verification)? Pump anchored with 16-1" anchor bolts. Mounting base found in					
		Y	N	U	N/A
2. Is the anchorage free of bent, broken, missing or loose hardwa	re?	X			
		Y	N	U	N/A
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	e	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 document (Note: This question only applies if the item is one of the 50% which an anchorage configuration verification is required.) Anchorage variety of the property of th	for	X			
Anchorage verified per calculations CH-P-1C and 52233-C-007					
		Y	N	U	,
6 Rased on the above anchorage evaluations is the anchorage fr	ee of	I Y			l



Chan Dellin

Adam L. Helffrich

ENGIN	EERS & CONSULTANTS					
Seismic Walkdo	wn Checklist (SWC)		Status:	\bigcirc	N	U
Equipment ID No	o. <u>CH-P-1C</u> Equip. Class 5. Horizontal Pumps	3				
Equipment Descr	iption Charging High-Head Safety Injection Pump)				
Interaction Effe	cts					
7. Are soft targets	s free from impact by nearby equipment or structures?		X	N	U	N/A
	equipment, distribution systems, ceiling tiles and lighting, ock walls not likely to collapse onto the equipment?		Y X	N	U	N/A
9. Do attached lir	nes have adequate flexibility to avoid damage?		Y X	N	U	N/A
	above seismic interaction evaluations, is equipment free adverse seismic interaction effects?		Y X	N	U	l
Other Adverse (Conditions				-	
	ked for and found no other seismic conditions that could ct the safety functions of the equipment?		Y	N	U]
Comments (Add	itional pages may be added as necessary)				-	
	- delie Minaft					
Evaluated by:	Eddie M. Guerra	Date:	10/1/2	012		

Date:

10/1/2012

Status:

Ŷ

U

N

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

N

Status:



Seismic Walkdown Checklist (SWC)

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



6. Based on the above anchorage evaluations, is the anchorage free of

potentially adverse seismic conditions?

Seismic Walkdown Checklist (SWC)		Status:	\bigcirc	N	U
Equipment ID No. <u>CH-BL-2</u>	Equip. Class	21. Tanks and Heat Exchangers				
Equipment Description <u>I</u>	Boric Acid Blender					
Location: Bldg. AXLB	Floor El.	768				
Manufacturer, Model, Etc.		<u> </u>				
SWEL. The space below each of	cument the results of the following question	the Seismic Walkdown of an item ons may be used to record the resu is checklist for documenting other	lts of judgm			
Anchorage			Y	N		
1. Is the anchorage configuration of the 50% of SWEL items re				X		
stiffened ring support is attached agitator is directly attached to to	d to steel platform by op of the tank with 8-3					
			Y	N	U	N/A
2. Is the anchorage free of bent,	broken, missing or lo	ose hardware?	X			
			Y	N	U	N/A
3. Is the anchorage free of corros oxidation?	sion that is more than	mild surface	X			
			Y	N	U	N/A
1. Is the anchorage free of visible	e cracks in the concre	ete near the anchors?	X	1		
5. Is the anchorage configuration	s consistent with plans	t documentation?	Y	N	U	N/A X
(Note: This question only app which an anchorage configur	lies if the item is one	of the 50% for				
			Y	N	U	



Equipment ID No	Equip. Class 21. Tanks and Heat Ex	xchanger	S			
Equipment Descr	iption Boric Acid Blender					
Interaction Effec			Y	N	U	N/A
7. Are soft targets	free from impact by nearby equipment or structures?		X	J		
	equipment, distribution systems, ceiling tiles and lighting, ock walls not likely to collapse onto the equipment?		Y	N	U	N/A
9. Do attached lin	es have adequate flexibility to avoid damage?		Y	N	U	N/A
	above seismic interaction evaluations, is equipment free adverse seismic interaction effects?		Y	N	U	
	Conditions ked for and found no other seismic conditions that could ct the safety functions of the equipment?		Y	N	U	
Comments (Add	itional pages may be added as necessary)					
	- deter M. Shraft					
Evaluated by:	Eddie M. Guerra	Date:	10/1/2	2012		
	Chang & Allow Adam L. Helffrich	_Date:	10/1/2	2012		



Status:

(Y)

N

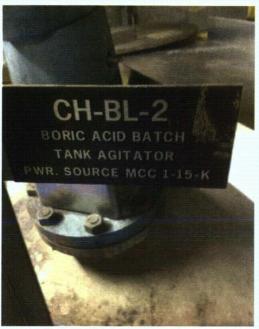
U

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

(Y)

N

Status:



Seismic Walkdown Checklist (SWC)

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