Page 237 of 516

Enclosure to W3F1-2013-0024 Page 312 of1014

Sheet 1 of 4

			Status: Y⊠ N⊟ U⊟
Seismic Walkdow	n Checklist (SWC)	SWEL1-058	
Equipment ID No.	SI MVAAA602-B	Equip. Class 1 MOTOR-OPERATED OPERATED VALVES	AND SOLENOID-
=	<u>-OR-</u>	OI EIVITED VIEVEO	
<u>;</u>	2SI-L102B		
Equipment Description	on SAFETY INJECTION	ON SUMP OUTLET HEADER B ISOL	ATION
Location: Bldg. RB	Floor El. <u>-3</u>	Room, Area <u>B53, COL 7A</u>	, LINE LZ
Manufacturer, Model	l, Etc. (optional but rec	ommended) <u>FISHER CONTROLS</u>	CO INC, 9211
Instructions for Co	mpleting Checklist		
SWEL. The space be	elow each of the follow	e results of the Seismic Walkdown of ing questions may be used to record to end of this checklist for documenting	the results of judgments and
Anchorage			
	age configuration verifif SWEL items requiring	cation required (i.e., is the item one such verification)?	Y□ N⊠
• In-lin	e component		
2. Is the anchora	age free of bent, broke	n, missing or loose hardware?	Y⊠ N□ U□ N/A□
	e component		
is acc		by insulation. However, anchorage ervice Testing (Program Section No.	
Is the anchor oxidation?	age free of corrosion th	nat is more than mild surface	Y⊠ N□ U□ N/A□
• In-lin	e component		
is acc		by insulation. However, anchorage ervice Testing (Program Section No.	
4. Is the anchor anchors?	age free of visible crac	ks in the concrete near the	Y□ N□ U□ N/A⊠
• In-lin	e component		

¹ Enter the equipment class <u>name</u> from Appendix B: Classes of Equipment.

Sheet 2 of 4

Calamia Wallada	Ob - -4 /0\4/0\	OWE! 4 050	Status: Y⊠ N□ U□
Seismic walkdo	wn Checklist (SWC)	SWEL1-058	
Equipment ID No.		Equip. Class MOTOR-OPERATED VALVES	AND SOLENOID-OPERATED
	<u>-OR-</u>		
	2SI-L102B		
Equipment Descrip	tion SAFETY INJECTION	ON SUMP OUTLET HEADER B ISOL	_ATION
(Note: This an anchora	question only applies if ge configuration verification	sistent with plant documentation? the item is one of the 50% for which tion is required.)	Y□ N□ U□ N/A⊠
• 111-11	ine component		
	ne above anchorage eva adverse seismic conditio	lluations, is the anchorage free of ns?	Y⊠ N□ U□
• In-li	ine component, N/A		
			<u></u>
Interaction Effects	<u>s</u>		
7. Are soft targ	gets free from impact by	nearby equipment or structures?	Y⊠ N□ U□ N/A□
		on systems, ceiling tiles and lighting,	Y⊠ N□ U□ N/A□
and mason	ry block walls not likely t	o collapse onto the equipment?	
9. Do attached	d lines have adequate flo	exibility to avoid damage?	Y⊠ N□ U□ N/A□
	·		
10 Paged a - 4	no obovo opiemie interes	stion avaluations is assumment for	VM ND HD
	ne above seismic interac ly adverse seismic intera	ction evaluations, is equipment free action effects?	Y⊠ N□ U□

Attachment C Rev. 0 Page 239 of 516

Sheet 3 of 4

			Status: Y⊠ N⊟ U⊟
Seismic Walkdo	wn Checklist (SWC)	SWEL1-058	
Equipment ID No.	<u>SI MVAAA602-B</u> -OR-	Equip. Class <u>MOTOR-OPERATED</u> <u>VALVES</u>	AND SOLENOID-OPERATED
	2SI-L102B		
Equipment Descrip	tion SAFETY INJECTION	ON SUMP OUTLET HEADER B ISOL	ATION
Other Adverse Co	onditions		
	poked for and found no confect the safety functions	other seismic conditions that could so of the equipment?	Y⊠ N□ U□
Comments (Additi	onal pages may be adde	ed as necessary)	
No visible tag; verified by isometric 4035-1879 and penetration #33 For area walk-by checklist see AWC-028			
Evaluated by: Nata	Matte die George	ati Gengi	Date: <u>10/15/12</u>
<u>Chu-</u>	Chieh Lin	while de	<u>10/15/12</u>

Sheet 4 of 4

Seismic Walkdo	wn Checklist (SWC)	Status: Y N U
Equipment ID No.	<u>SI MVAAA602-B</u> <u>-OR-</u>	Equip. Class MOTOR-OPERATED AND SOLENOID-OPERATED VALVES
	2SI-L102B	
Equipment Descrip	tion SAFETY INJECTION	ON SUMP OUTLET HEADER B ISOLATION

Photographs



Note: Safety Injection Sump Outlet Header B Isolation

Enclosure to W3F1-2013-0024 Page 316 of1014

Sheet 1 of 4	
	Status: Y□ N⊠ U□
Seismic Walkdown Checklist (SWC) <u>SWEL1-059</u>	
Equipment D No. ACCMFAN0002-B	
Equipment Description WET COOLING TOWER B FAN 2-SB	
Location: Bldg. CTB Floor El35 Room, Area ROOM B60A	COL 12A LINE Q1
Manufacturer, Model, Etc. (optional but recommended) AEROVENT INC, Mod	del W
Instructions for Completing Checklist	
This checklist may be used to document the results of the Seismic Walkdown of SWEL. The space below each of the following questions may be used to record findings. Additional space is provided at the end of this checklist for documenting	the results of judgments and
Anchorage	
1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?	Y
2. Is the anchorage free of bent, broken, missing or loose hardware?	Y N U N/A
Is the anchorage free of corrosion that is more than mild surface oxidation?	Y N U N/A
Is the anchorage free of visible cracks in the concrete near the anchors?	NO UO N/AO

See Attachment K - Revision 1

¹ Enter the equipment class <u>name</u> from Appendix B: Classes of Equipment.

Enclosure to W3F1-2013-0024 Page 317 of1014

Sheet 2 of 4	
Seismic Walkdown Checklist (SWC) <u>SWEL1-059</u>	Status: Y□ N⊠ U□
Equipment 10 No. ACCMFAN0002-B Equip. Class Fans -OR- FAN 10	
Equipment Description WET COOLING TOWER B FAN 2-SB	
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
Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	Y_ N_ U
Interaction Effects	
7. Are soft targets free from impact by nearby equipment or structures?	Y N U N/A
Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	Y N U N/A
9. Do attached lines have adequate flexibility to avoid damage?	Y_ N_ U_ N/A_
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	Y□ N☐ U□

See Attachment K - Revision 1

Enclosure to W3F1-2013-0024 Page 318 of1014

Sheet 3 of 4	
	Status: Y☐ N⊠ U☐
Seismic Walkdown Checklist (SWC) <u>SWEL1-059</u>	
Equipment IO No. ACCMFAN0002-B Equip. Class Fans -OR- FAN 10	
Equipment Description WET COOLING TOWER B FAN 2-SB	
Other Adverse Conditions	
Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment?	Y□ N⊠ U□
Comments (Additional pages may be added as necessary)	
Evaluated by:	Date:
	- \
	\

See Attachment K - Revision 1

Enclosure to W3F1-2013-0024 Page 319 of1014

Sheet 4 of 4	
	Status: Y☐ N☒ U☐
Seismic Walkdown Checklist (SWC) <u>SWEL1-</u>	059
Equipment ID No. ACCMFAN0002-B Equip. Class OR- FAN 10	ss_Fans
Equipment Description WET COOLING TOWER B FA	N 2-SB
Photographs	
Note:	Note:

Page 245 of 516

Sheet 1 of 5

	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) SWEL1-060	
Equipment ID No. CC MFAN0003-A Equip. Class: Fans	
-OR- FAN 3SA	
Equipment Description DRY COOLING TOWER A FAN 3-SA	
Location: Bldg. CTA Floor El35 Room, Area ROOM B59	COL 1M
Manufacturer, Model, Etc. (optional but recommended) <u>HUDSON PRODUCT</u>	CORP, Model APT14W6
Instructions for Completing Checklist	
This checklist may be used to document the results of the Seismic Walkdown of SWEL. The space below each of the following questions may be used to record t findings. Additional space is provided at the end of this checklist for documenting	the results of judgments and
Anchorage	
 Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? 	Y□ N⊠
 Item not one of the 50% of SWEL items requiring verification 	
2. Is the anchorage free of bent, broken, missing or loose hardware?	Y⊠ N□ U□ N/A□
 Motor anchored to skid, which is welded to existing steel and bolted to the wall. Fan gear unit adequately anchored. 	
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	Y⊠ N□ U□ N/A□
 Anchorage is free of corrosion 	
 Mild corrosion behind base plate; no seismic concern 	
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Y⊠ N□ U□ N/A□
 No cracks near support bolted to nearby wall 	

¹ Enter the equipment class <u>name</u> from Appendix B: Classes of Equipment.

Sheet 2 of 5

	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) SWEL1-060	
Equipment ID No. CC MFAN0003-A Equip. Class Fans	
-OR- FAN 3SA	
Equipment Description DRY COOLING TOWER A FAN 3-SA	<u>, , , , , , , , , , , , , , , , , , , </u>
 5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) Item not one of the 50% of SWEL items requiring verification 	Y□ N□ U□ N/A⊠
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	Y⊠ N□ U□
 Questions 2-4 satisfied; no seismic concern 	
Interaction Effects 7. Are soft targets free from impact by nearby equipment or structures?	Y⊠ N□ U□ N/A□
Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	Y⊠ N□ U□ N/A□
 9. Do attached lines have adequate flexibility to avoid damage? Attached line is flexible. 	Y⊠ N□ U□ N/A□
 10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Questions 7-9 satisfied 	Y⊠ N□ U□

Enclosure to W3F1-2013-0024 Page 322 of1014

Sheet 3 of 5

	Status: Y⊠ N⊟ U⊟
Seismic Walkdown Checklist (SWC) <u>SWEL1-060</u>	
Equipment ID No. <u>CC MFAN0003-A</u> Equip. Class <u>Fans</u>	·
-OR- FAN 3SA	
Equipment Description DRY COOLING TOWER A FAN 3-SA	
Other Adverse Conditions	
11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment?	Y⊠ N□ U□
Comments (Additional pages may be added as necessary)	
 For area walk-by checklist see AWC-010 	
Evaluated by: Brian Pace	_ Date: <u>10-05-2012</u>
dmikbali	
Dinesh Patel	<u>10-05-2012</u>

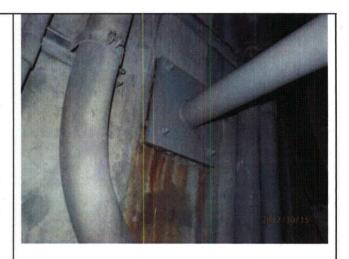
Sheet 4 of 5

Seismic Walkdown Checklist (SWC) SWEL1-060			Status: Y⊠ N□ U□
Equipment ID No.	CC MFAN0003-A	Equip. Class Fans	
	-OR- FAN 3SA		
Equipment Descrip	tion DRY COOLING TO	OWER A FAN 3-SA	

Photographs



Note: Dry cooling tower A fan 3-SA motor



Note: Bolts in good condition on wall support. Mild corrosion behind base plate.

Sheet 5 of 5

Seismic Walkdo	Status:	Y⊠	N□	U		
Equipment ID No.	CC MFAN0003-A	Equip. Class Fans				
	-OR- FAN 3SA					



Note: Bolts mounting motor to skid

Page 250 of 516

Sheet 1 of 5

	Status: Y⊠ N∐ U∐
Seismic Walkdown Checklist (SWC) <u>SWEL1-061</u>	
Equipment ID No. <u>HVCMAHU0001-A</u> Equip. Class¹ Fans	
-OR- AH-12(3A-SA)	
Equipment Description Control Room Air Handling Unit AH-12A	
Location: Bldg. RAB Floor El. +46 Room, Area Room 314, Co	ol. 9A, Line L
Manufacturer, Model, Etc. (optional but recommended) Buffalo Forge Co., 980	
Instructions for Completing Checklist	
This checklist may be used to document the results of the Seismic Walkdown of SWEL. The space below each of the following questions may be used to record t findings. Additional space is provided at the end of this checklist for documenting	he results of judgments and
Anchorage	
 Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? 	Y□ N⊠
 Item not one of the 50% of SWEL items requiring anchorage configuration verification 	
2. Is the anchorage free of bent, broken, missing or loose hardware?	Y⊠ N□ U□ N/A□
 One bolt is loose on the motor base. This is a tension rod and is used for alignment of the motor. This bolt being loose has no seismic concern. 	
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	Y⊠ N□ U□ N/A□
 Mild surface corrosion is located on one bolt on the shaft housing. This is no seismic concern. 	
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Y⊠ N□ U□ N/A□
 Base (skid) is welded to existing embedment plate. There are 	

no visible cracks in this concrete.

¹ Enter the equipment class <u>name</u> from Appendix B: Classes of Equipment.

Sheet 2 of 5

Seismic Walkdown Checklist (SWC) SWEL1-061	Status: Y⊠ N□ U□
Equipment ID No. HVCMAHU0001-A Equip. Class_Fans	4
<u>-OR- AH-12(3A-SA)</u>	
Equipment Description Control Room Air Handling Unit AH-12A	
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⊠
 Item not one of the 50% of SWEL items requiring anchorage configuration verification 	
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	Y⊠ N□ U□
 Questions 2-4 satisfied; no seismic concern 	
Interaction Effects	
7. Are soft targets free from impact by nearby equipment or structures?	Y⊠ N□ U□ N/A□
No soft targets around equipment.	
 There is a long term ladder in the area that is properly secured. No seismic concern. 	
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	Y⊠ N□ U□ N/A□
 Overhead lights are not covered. However, bulbs falling will have no adverse effect on any equipment. The fixture is properly mounted. 	
 Block wall in front of the unit acceptable per drawing no. G756 sh. 2, calculation no. Civil Seismic Block Wall, and FSAR Section 3.8.4.8 	
9. Do attached lines have adequate flexibility to avoid damage?	Y⊠ N□ U□ N/A□
One flexible conduit located on motor.	
Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	Y⊠ N□ U□
 Questions 7-9 satisfied 	

Sheet 3 of 5

	Status: Y⊠ N⊟ U⊟				
Seismic Walkdown Checklist (SWC) <u>SWEL1-061</u>					
Equipment ID No. <u>HVCMAHU0001-A</u> Equip. Class <u>Fans</u>	-				
-OR- AH-12(3A-SA)					
Equipment Description Control Room Air Handling Unit AH-12A					
Other Adverse Conditions					
11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment?	Y⊠ N□ U□				
Comments (Additional pages may be added as necessary)					
For area walk-by checklist see AWC-038					
Evaluated by: Dinesh Patel	Date: <u>10-09-2012</u>				
Suan fi Par	40.00.0040				
Brian Pace	10-09-2012				

Sheet 4 of 5

Status	$\mathbf{V}\mathbf{X}$	$N\square$	11
Status	TIAL	IVI I	UI

Seismic Walkdown Checklist (SWC) SWEL1-061

Equipment ID No. <u>HVCMAHU0001-A</u>

Equip. Class Fans

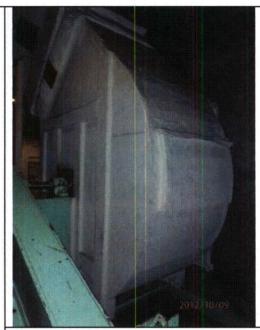
-OR- AH-12(3A-SA)

Equipment Description Control Room Air Handling Unit AH-12A

Photographs



Note: Mild surface corrosion on shaft housing bolt



Note: AH-12A

Sheet 5 of 5

Status:		

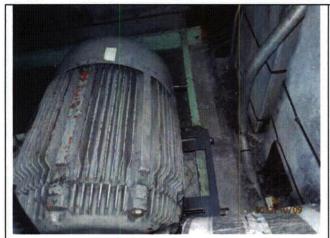
Seismic Walkdown Checklist (SWC) SWEL1-061

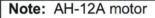
Equipment ID No. HVCMAHU0001-A

Equip. Class Fans

-OR- AH-12(3A-SA)

Equipment Description Control Room Air Handling Unit AH-12A







Note: Example of anchor bolt in good condition

Enclosure to W3F1-2013-0024 Page 330 of1014

Sheet 1 of 5

	Status: Y⊠ N⊟ U⊟
Seismic Walkdown Checklist (SWC) <u>SWEL1-062</u>	
Equipment ID No. <u>HVCMFAN0010-B</u> Equip. Class¹_Fans	
-OR- S-8(3B-SB)	
Equipment Description Control Room Emergency Filtration Unit B	
Location: Bldg. RAB Floor El. +41 Room, Area Room 314, C	ol. 10A, Line K
Manufacturer, Model, Etc. (optional but recommended) Buffalo Forge Co., 540	DL21
Instructions for Completing Checklist	
This checklist may be used to document the results of the Seismic Walkdown of SWEL. The space below each of the following questions may be used to record findings. Additional space is provided at the end of this checklist for documenting	the results of judgments and
Anchorage	· · · · · · · · · · · · · · · · · · ·
 1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Bolted to base frame which is welded to embedded steel No drawing available to verify weld configuration 	Y□ N⊠
 2. Is the anchorage free of bent, broken, missing or loose hardware? All hardware and welds are accounted for and in good condition 	Y⊠ N□ U□ N/A□
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	Y⊠ N□ U□ N/A□
 No corrosion on anchorage 	
Anchorage is painted	
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Y⊠ N□ U□ N/A□
 Anchorage is bolted to steel base frame or welded to embedded steel 	

No visible cracks in concrete around embedded steel

¹ Enter the equipment class <u>name</u> from Appendix B: Classes of Equipment.

Enclosure to W3F1-2013-0024 Page 331 of1014

Sheet 2 of 5

Seismic Walkdown Checklist (SWC)SWEL1-062	Status: Y⊠ N⊡ U⊡
• • • • • • • • • • • • • • • • • • • •	
Equipment ID No. <u>HVCMFAN0010-B</u> Equip. Class <u>Fans</u>	
<u>-OR- S-8(3B-SB)</u>	
Equipment Description Control Room Emergency Filtration Unit B	
 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⊠
 Anchors on fan assembly are consistent with plant documentation (Drawing no 7W-94663 and IPEEE pg. E-44) 	
No documents available to verify weld configuration	
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	Y⊠ N□ U□
No seismic concerns	
Interaction Effects	
7. Are soft targets free from impact by nearby equipment or structures?	Y⊠ N□ U□ N/A□
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	Y⊠ N□ U□ N/A□
9. Do attached lines have adequate flexibility to avoid damage?	Y⊠ N□ U□ N/A□
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	Y⊠ N□ U□

Sheet 3 of 5

		Status: Y⊠ N⊟ U⊟
Seismic Walkdo	wn Checklist (SWC) <u>SWEL1-062</u>	
Equipment ID No.	HVCMFAN0010-B Equip. Class Fans	
	-OR- S-8(3B-SB)	
Equipment Descrip	tion Control Room Emergency Filtration Unit B	
Other Adverse Co	<u>onditions</u>	
11. Have you lo adversely a	poked for and found no other seismic conditions that could ffect the safety functions of the equipment?	Y⊠ N□ U□
Comments (Additi	onal pages may be added as necessary)	
• For	area walk-by checklist see AWC-038	
	$m \rightarrow -c$	
	1 Jolalu Gengi	D
Evaluated by: <u>Nata</u>	ille George	_ Date: <u>10/9/12</u>
	Market	40.0440
<u>Chu</u>	-Chieh Lin	<u> </u>

Sheet 4 of 5

	Status:	$Y \boxtimes$	N	U
:				

Seismic Walkdown Checklist (SWC) <u>SWEL1-062</u>

Equipment ID No. <u>HVCMFAN0010-B</u>

Equip. Class Fans

-OR- S-8(3B-SB)

Photographs



Note: Control Room Emergency Filtration Unit B



Note: Weld configuration on base frame

Sheet 5 of 5

Seismic Walkdo	wn Checklist (SWC)	SWEL1-062	Status: Y⊠ N□ U□
Equipment ID No.	HVCMFAN0010-B	Equip. Class_Fans	
	-OR- S-8(3B-SB)		
Later to something	wor 220 0 12020 220		



Note: Weld configuration on base frame

Sheet 1 of 4

	Status: Y⊠ N_ U_
Seismic Walkdown Checklist (SWC) <u>SWEL1-063</u>	
Equipment ID No. <u>HVRMFAN0025-A</u> Equip. Class¹ Fans	
-OR- E-28(3A-SA)	
Equipment Description EDG ROOM A EXHAUST FAN E-28A	
Location: Bldg. RAB Floor El. +46 Room, Area Room 299, Co	I. 3A, Line J
Manufacturer, Model, Etc. (optional but recommended) JOY MFG CO, 8426870)
Instructions for Completing Checklist	
This checklist may be used to document the results of the Seismic Walkdown of a SWEL. The space below each of the following questions may be used to record the findings. Additional space is provided at the end of this checklist for documenting 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 documenting 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 documenting 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 documenting 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 documenting 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 documenting 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 documenting 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 documenting of the space is provided at the end of this checklist for documenting of the space is provided at the end of the en	e results of judgments and
Anchorage	
 Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? 	Y□ N⊠
 Item not one of the 50% of SWEL items requiring anchorage configuration verification 	
 2. Is the anchorage free of bent, broken, missing or loose hardware? Anchorage to wall free of any bent, broken, missing, or loose hardware. 	Y⊠ N□ U□ N/A□
natuware.	
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	Y⊠ N□ U□ N/A□
No corrosion was found.	
Is the anchorage free of visible cracks in the concrete near the anchors?	Y⊠ N□ U□ N/A□

No cracks on the concrete wall were found.

¹ Enter the equipment class <u>name</u> from Appendix B: Classes of Equipment.

Sheet 2 of 4

	Status: Y⊠ N⊟ U⊟
Seismic Walkdown Checklist (SWC) <u>SWEL1-063</u>	
Equipment ID No. <u>HVRMFAN0025-A</u> Equip. Class <u>Fans</u>	
-OR- E-28(3A-SA)	
Equipment Description EDG ROOM A EXHAUST FAN E-28A	
 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⊠
 Item not one of the 50% of SWEL items requiring anchorage configuration verification 	
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	Y⊠ N□ U□
 Questions 2-4 are satisfied; no seismic concern 	
Interaction Effects	
7. Are soft targets free from impact by nearby equipment or structures?	Y⊠ N□ U□ N/A□
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	Y⊠ N□ U□ N/A□
and masonly block walls not likely to collapse onto the equipment!	
9. Do attached lines have adequate flexibility to avoid damage?	Y⊠ N□ U□ N/A□
10. Based on the above seismic interaction evaluations, is equipment free	Y⊠ N□ U□
of potentially adverse seismic interaction effects?	

Enclosure to W3F1-2013-0024 Page 337 of1014

Sheet 3 of 4

	Status: Y⊠ N⊟ U⊟
Seismic Walkdown Checklist (SWC) <u>SWEL1-063</u>	
Equipment ID No. <u>HVRMFAN0025-A</u> Equip. Class <u>Fans</u>	
-OR- E-28(3A-SA)	
Equipment Description EDG ROOM A EXHAUST FAN E-28A	
Other Adverse Conditions	
11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment?	Y⊠ N□ U□
Comments (Additional pages may be added as necessary)	
 See AWC-036 for Area Walk-By Checklist 	
· · · · · · · · · · · · · · · · · · ·	
Evaluated by: Dinesh Patel	_ Date: <u>10-08-2012</u>
	_ 54.0. 10 00 2012
Boan & Pan	
Brian Pace Description	10-08-2012

Sheet 4 of 4

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Status:	YIXI	NI I	U

Seismic Walkdown Checklist (SWC) SWEL1-063

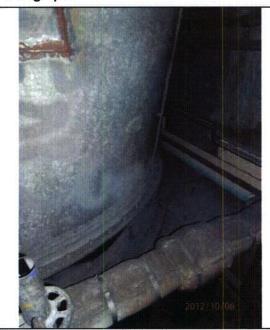
Equipment ID No. HVRMFAN0025-A

Equip. Class Fans

-OR- E-28(3A-SA)

Equipment Description EDG ROOM A EXHAUST FAN E-28A

Photographs



Note: Fan E-28 and surrounding area



Note: Bolts around fan are in good condition

Sheet 1 of 5

Status: Y⊠ N⊟ U⊟
Seismic Walkdown Checklist (SWC) <u>SWEL1-064</u>
Equipment ID No. <u>HVCMAHU0009-A</u> Equip. Class <u>Air Handlers</u>
-OR- S-8(3A-SA)
Equipment Description Control Room Emergency Filtration Unit A
Location: Bldg. RAB Floor El. +46 Room, Area Room 314, Col. 9A, Line K
Manufacturer, Model, Etc. (optional but recommended) Penwalt Corp., B47100012
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
 Is the anchorage configuration verification required (i.e., is the item one Y⊠ N□ of the 50% of SWEL items requiring such verification)?
2. Is the anchorage free of bent, broken, missing or loose hardware? Y⊠ N□ U□ N/A□ All 12 bolts are accounted for and in good condition
3. Is the anchorage free of corrosion that is more than mild surface Y⊠ N□ U□ N/A□ oxidation? • Anchorage is free of corrosion
4. Is the anchorage free of visible cracks in the concrete near the anchors? Y□ N☒ U□ N/A□
 Cracks found near several anchors. See LB-07 in Attachment F.

Some cracks appear to be patched

¹ Enter the equipment class <u>name</u> from Appendix B: Classes of Equipment.

Enclosure to W3F1-2013-0024 Page 340 of1014

Sheet 2 of 5

	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) <u>SWEL1-064</u>	
Equipment ID No. <u>HVCMAHU0009-A</u> Equip. Class <u>Air Handlers</u>	
-OR- S-8(3A-SA)	
Equipment Description Control Room Emergency Filtration Unit 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.) 	Y⊠ N□ U□ N/A□
 Anchorage configuration is consistent with plant documentation (IPEEE pg E-76) 	
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	Y□ N⊠ U□
Need to determine if cracks at anchor points are acceptable	
Interaction Effects	
7. Are soft targets free from impact by nearby equipment or structures?	Y⊠ N□ U□ N/A□
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	Y⊠ N□ U□ N/A□
There is a small 7' partition block wall more than 10' from	
equipment; no seismic concern	
9. Do attached lines have adequate flexibility to avoid damage?	Y⊠ N□ U□ N/A□
10. Based on the above seismic interaction evaluations, is equipment free	Y⊠ N□ U□
of potentially adverse seismic interaction effects?	

Sheet 3 of 5

	Status: Y⊠ N⊟ U⊟
Seismic Walkdown Checklist (SWC) <u>SWEL1-064</u>	
Equipment ID No. <u>HVCMAHU0009-A</u> Equip. Class <u>Air Handlers</u>	
-OR- S-8(3A-SA)	
Equipment Description Control Room Emergency Filtration Unit A	
Other Adverse Conditions	
 11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? Did not open doors; this is not necessary since no electronic equipment or sensors are enclosed 	Y⊠ N□ U□
Comments (Additional pages may be added as necessary) • For area walk-by checklist see AWC-038	
Motari Coma.	
Evaluated by: Natalie George	_ Date: <u>10/9/12</u>
Chu-Chieh Lin	10/9/12

Sheet 4 of 5

Status:	V	NI	
Status.		INI I	UII

Page 267 of 516

Seismic Walkdown Checklist (SWC) SWEL1-064

Equipment ID No. HVCMAHU0009-A

Equip. Class Air Handlers

-OR- S-8(3A-SA)

Equipment Description Control Room Emergency Filtration Unit A

Photographs



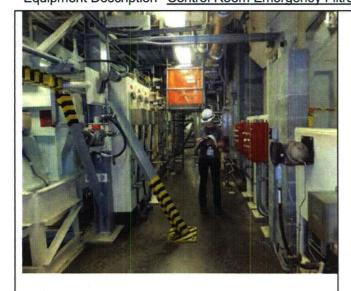
Note: Cracks found near several anchors



Note: Cracks found near several anchors

Sheet 5 of 5

Seismic Walkdo	wn Checklist (SWC)	SWEL1-064	Status:	Y⊠	N U
Equipment ID No.	HVCMAHU0009-A	Equip. Class Air Handlers			
	-OR- S-8(3A-SA)				
Fauinment Descrip	tion Control Room Eme	ergency Filtration Unit A			



Note: 7' partition block wall

Sheet 1 of 4

Status: Y⊠ N∐ U∐
Seismic Walkdown Checklist (SWC) <u>SWEL1-065</u>
Equipment ID No. HVRMAHU0028-A Equip. Class ¹ Air Handlers
-OR- AH-10(3A-SA)
Equipment Description CCW Pump Room A Air Handling Unit AH-10A
Location: Bldg. RAB Floor El. +21 Room, Area Room 235, Col. 5A, Line K
Manufacturer, Model, Etc. (optional but recommended) <u>Buffalo Forge Co., 60VPCO</u>
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
 Is the anchorage configuration verification required (i.e., is the item one Y N∑ of the 50% of SWEL items requiring such verification)?
 Fan is mounted to steel frame. Frame is mounted to wall.
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 Y N U N/A ∪ oxidation? • No corrosion
4. Is the anchorage free of visible cracks in the concrete near the anchors? Y□ N□ U□ N/A□ anchors?

No visible cracks in the concrete

¹ Enter the equipment class <u>name</u> from Appendix B: Classes of Equipment.

Sheet 2 of 4

	Status: Y⊠ N⊟ U⊟
Seismic Walkdown Checklist (SWC) <u>SWEL1-065</u>	
Equipment ID No. <u>HVRMAHU0028-A</u> Equip. Class <u>Air Handlers</u>	- · · · · · · · · · · · · · · · · · · ·
-OR- AH-10(3A-SA)	
Equipment Description CCW Pump Room A Air Handling Unit AH-10A	
 Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) 	Y□ N□ U□ N/A⊠
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	Y⊠ N□ U□
Questions 2-4 satisfied. No seismic concern	
Interaction Effects	
7. Are soft targets free from impact by nearby equipment or structures?	Y⊠ N□ U□ N/A□
Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	Y⊠ N□ U□ N/A□
9. Do attached lines have adequate flexibility to avoid damage?	Y⊠ N□ U□ N/A□
 10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Questions 7-9 satisfied. 	Y⊠ N□ U□

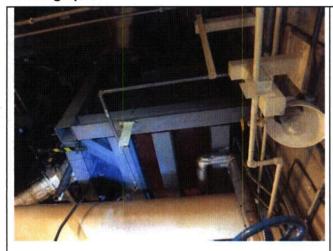
Sheet 3 of 4

	Status: Y⊠ N⊟ U⊟
Seismic Walkdown Checklist (SWC) <u>SWEL1-065</u>	
Equipment ID No. <u>HVRMAHU0028-A</u> Equip. Class <u>Air Handlers</u>	
-OR- AH-10(3A-SA)	
Equipment Description CCW Pump Room A Air Handling Unit AH-10A	
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□
<u>Comments</u> (Additional pages may be added as necessary)	
 For area walk-by checklist see AWC-022 	
Evaluated by: Brian Pace	Date: 10/4/12
Mulas	
Chu-Chieh Lin	<u>10/4/12</u>

Sheet 4 of 4

Seismic Walkdo	wn Checklist (SWC)	SWEL1-065	Status:	Y⊠	N U
Equipment ID No.	HVRMAHU0028-A	Equip. Class Air Handlers			
	-OR- AH-10(3A-SA)				
Equipment Descrip	tion CCW Pump Room	A Air Handling Unit AH-10A			

Photographs



Note: CCW Pump Room A Air Handling Unit AH-10A

Page 273 of 516

Sheet 1 of 4

	Status: Y⊠ N∐ U∐
Seismic Walkdown Checklist (SWC) <u>SWEL1-066</u>	
Equipment ID No. <u>HVRMAHU0032-B</u> Equip. Class ¹ Air Handlers	
-OR- AH-3(3B-SB)	
Equipment Description Shutdown Cooling HX B Air Handling Unit AH-3B (Cool-	ers for Heat Exchangers)
Location: Bldg. RAB Floor El35 Room, Area Room B20, 0	Col. 11A, Line J
Manufacturer, Model, Etc. (optional but recommended) Buffalo Forge Co., 60	PCO
Instructions for Completing Checklist	
This checklist may be used to document the results of the Seismic Walkdown of SWEL. The space below each of the following questions may be used to record findings. Additional space is provided at the end of this checklist for documenting	the results of judgments and
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⊠
Is the anchorage free of bent, broken, missing or loose hardware? All anchorage is accounted for and in good condition	Y⊠ N□ U□ N/A□
 3. Is the anchorage free of corrosion that is more than mild surface oxidation? No corrosion on anchorage, painted 	Y⊠ N□ U□ N/A□
7 110 controllers on anonorage, painted	
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Y⊠ N□ U□ N/A□
 No visible cracks in the concrete 	

¹ Enter the equipment class <u>name</u> from Appendix B: Classes of Equipment.

	Status: Y⊠ N⊟ U⊟
Seismic Walkdown Checklist (SWC) <u>SWEL1-066</u>	
Equipment ID No. <u>HVRMAHU0032-B</u> Equip. Class <u>Air Handlers</u>	
-OR- AH-3(3B-SB)	
Equipment Description Shutdown Cooling HX B Air Handling Unit AH-3B (Cool	ers for Heat Exchangers)
 Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) 	Y□ N□ U□ N/A⊠
 6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? No seismic concerns 	Y⊠ N□ U□
Interaction Effects	
7. Are soft targets free from impact by nearby equipment or structures?	Y⊠ N□ U□ N/A□
Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	Y⊠ N□ U□ N/A□
9. Do attached lines have adequate flexibility to avoid damage?	Y⊠ N□ U□ N/A□
Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	Y⊠ N□ U□ .

Enclosure to W3F1-2013-0024 Page 350 of1014

	Status: Y⊠ N⊟ U⊟
Seismic Walkdown Checklist (SWC) <u>SWEL1-066</u>	
Equipment ID No. <u>HVRMAHU0032-B</u> Equip. Class <u>Air Handlers</u>	
-OR- AH-3(3B-SB)	
Equipment Description Shutdown Cooling HX B Air Handling Unit AH-3B (Cool	ers for Heat Exchangers)
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□
	·
<u>Comments</u> (Additional pages may be added as necessary)	
 For area walk-by checklist see AWC-004 	
dmikpah?	
Evaluated by: Dinesh Patel	_ Date: <u>10/2/12</u>
Motati Genge	
Natalie George 0	10/2/12

Seismic Walkdo	wn Checklist (SWC)		Y⊠	N_ U_
Equipment ID No.	HVRMAHU0032-B	Equip. Class_Air Handlers		
	-OR- AH-3(3B-SB)			
Equipment Descript	tion Shutdown Cooling	HX B Air Handling Unit AH-3B (Coolers for Heat	Excha	ngers)

Photographs



Note: Shutdown Cooling HX B Air Handling Unit AH-3B

Sheet 1 of 5

	Status: Y⊠ N⊟ U⊟
Seismic Walkdown Checklist (SWC) <u>SWEL1-067</u>	
Equipment ID No. RFRMCHL0001-B Equip. Class¹ Chillers	
-OR- WC-1(3B-SB)	
Equipment Description Essential Chiller B	
Location: Bldg. RAB Floor El. +46 Room, Area Room 299, C	Col. 3A, Line K
Manufacturer, Model, Etc. (optional but recommended) Carrier Corp., 19FA42	7C121818SDF
Instructions for Completing Checklist	
This checklist may be used to document the results of the Seismic Walkdown of SWEL. The space below each of the following questions may be used to record findings. Additional space is provided at the end of this checklist for documenting	the results of judgments and
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□
Is the anchorage free of bent, broken, missing or loose hardware? All anchorage accounted for and in good condition	Y⊠ N□ U□ N/A□
Is the anchorage free of corrosion that is more than mild surface oxidation? Mild corrosion on anchorage; no seismic concern	Y⊠ N□ U□ N/A□
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Y⊠ N□ U□ N/A□
 No visible cracks in the concrete 	

¹ Enter the equipment class <u>name</u> from Appendix B: Classes of Equipment.

Enclosure to W3F1-2013-0024 Page 353 of1014

Seismic Walkdown Checklist (SWC)SWEL1-067	Status: Y⊠ N□ U□
Equipment ID No. RFRMCHL0001-B Equip. Class Chillers	
-OR- WC-1(3B-SB)	
Equipment Description Essential Chiller B	
 Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) 	Y⊠ N□ U□ N/A□
 Anchorage configuration consistent with plant documentation (IPEEE pg. E-42) 	
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	Y⊠ N□ U□
No seismic concern	
Interaction Effects	
7. Are soft targets free from impact by nearby equipment or structures?	Y⊠ N□ U□ N/A□
Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	Y⊠ N□ U□ N/A□
9. Do attached lines have adequate flexibility to avoid damage?	Y⊠ N□ U□ N/A□
Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	Y⊠ N□ U□

			Status: Y⊠ N⊟ U⊟
Seismic Walkdo	wn Checklist (SWC)	SWEL1-067	
Equipment ID No.	RFRMCHL0001-B	Equip. Class Chillers	
	-OR- WC-1(3B-SB)		
Equipment Descrip	tion Essential Chiller B		
Other Adverse Co	onditions		
11. Have you lo		other seismic conditions that could s of the equipment?	Y⊠ N□ U□
Comments (Additi	onal pages may be add	ed as necessary)	
• Wa	ter around chiller, previo	ously documented and preventative r	neasures in place
		s on half circle at end of compressor	
	-WF3-2012-05275 and \cle at end of compressor	WR 287632 initiated to address mode	erate corrosion on bolts on half
	area walk-by checklist		
	·		
Evaluated by: <u>Nata</u>	Mout Alie George	ati Genge	_ Date: <u>10/15/12</u>
<u>Chu</u>	-Chieh Lin	which de	1 <u>0/15/12</u>

	(C) 60 (C) (B) 60 (C)		
Status:	\sqrt{N}	NI	
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Seismic Walkdown Checklist (SWC) SWEL1-067

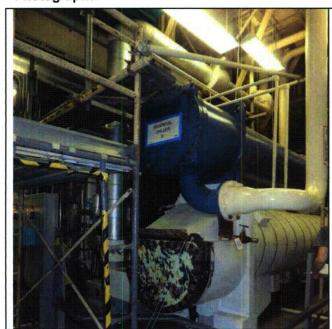
Equipment ID No. RFRMCHL0001-B

Equip. Class Chillers

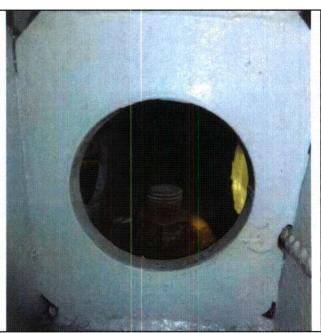
-OR- WC-1(3B-SB)

Equipment Description Essential Chiller B

Photographs



Note: Essential Chiller B



Note: Example of Essential Chiller B anchorage with mild corrosion

Sheet 5 of 5

Status: Y⊠ N□ U□

Seismic Walkdown Checklist (SWC) SWEL1-067

Equipment ID No. RFRMCHL0001-B

Equip. Class Chillers

-OR- WC-1(3B-SB)

Equipment Description Essential Chiller B



Note: Water around chiller, previously documented and preventative measures in place



Note: Moderate corrosion on bolts on half circle at end of compressor

Page 282 of 516

Enclosure to W3F1-2013-0024 Page 357 of1014

Sheet 1 of 4

Status: YX N U
Equipment ID No. DC EPDPB-DC Equip. Class <u>Distribution Panels and Automatic Transfer Switcher</u>
-OR- PDP-3B-DC-S
Equipment Description PDP B-DC
Location: Bldg. RAB Floor El. +21 Room, Area 212B, Col. 10A, Line J
Manufacturer, Model, Etc. (optional but recommended)
Instructions for Completing Checklist
This checklist may be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.
Anchorage
 Is the anchorage configuration verification required (i.e., is the item one Y∑ N☐ of the 50% of SWEL items requiring such verification)?
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 Y∑ N☐ U☐ N/A☐ oxidation? ■ No corrosion
 4. Is the anchorage free of visible cracks in the concrete near the YN N□ U□ N/A□ anchors? Spall concrete around three anchor bolts, no seismic concern since this is a CIP bolt (see photo)

¹ Enter the equipment class <u>name</u> from Appendix B: Classes of Equipment.

Attachment C Rev. 0 Page 283 of 516

Colomia Malledown Chapklist (CMC) CMF1 4 000	Status: Y⊠ N⊡ U⊡
Seismic Walkdown Checklist (SWC) <u>SWEL1-068</u>	
Equipment ID No. <u>DC EPDPB-DC</u> Equip. Class <u>Distribution Panels an</u>	d Automatic Transfer Switches
-OR- PDP-3B-DC-S	
Equipment Description PDP B-DC	
 Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) 	Y⊠ N□ U□ N/A□
 Anchorage configuration consistent with plant documentation (Drawing no. G574 sh. 5 and IPEEE pg. E-64) 	
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	Y⊠ N□ U□
 Questions 1-5 satisfied; no seismic concern 	
Internation Pfforts	
Interaction Effects	
7. Are soft targets free from impact by nearby equipment or structures?	Y⊠ N□ U□ N/A□
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	Y⊠ N□ U□ N/A□
O. Do attacked Page to see a demonstrative William and O	
9. Do attached lines have adequate flexibility to avoid damage? • Conduits attached rigidly to equipment are acceptable per • Conduits attached rigidly to equipment are acceptable per	Y⊠ N□ U□ N/A□
drawing no. B288, pg. 19-1	
10. Based on the above seismic interaction evaluations, is equipment free	Y⊠ N□ U□
of potentially adverse seismic interaction effects?	

Seismic Walkdown Checklist (SWC) SWEL1-068
Equipment ID No. DC EPDPB-DC Equip. Class <u>Distribution Panels and Automatic Transfer Switches</u> -OR- PDP-3B-DC-S
Equipment Description PDP B-DC
Other Adverse Conditions
11. Have you looked for and found no other seismic conditions that could Y⊠ N□ U□ adversely affect the safety functions of the equipment?
Comments (Additional pages may be added as necessary)
 Housekeeping issue; no seismic concern Extra hardware near anchor inside back of cabinet CR-WF3-2012-05270 and WR-287622 initiated to address this condition. For area walk-by checklist see AWC-018
Evaluated by: Brian Pace Bush Para Date: 10/2/12
Dinesh Patel 10/2/12

Status: Y⊠ N□ U□

Seismic Walkdown Checklist (SWC) SWEL1-068

Equipment ID No. <u>DC EPDPB-DC</u>

Equip. Class <u>Distribution Panels and Automatic Transfer Switches</u>

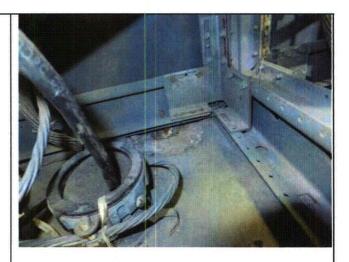
-OR- PDP-3B-DC-S

Equipment Description PDP B-DC

Photographs



Note: PDP B-DC



Note: Extra hardware (washer) near anchor inside of cabinet, spall concrete around anchor bolt

Page 286 of 516

Sheet 1 of 4

Seismic Walkdown Checklist (SWC)SWEL1-069	Status: YX N_ U_
Equipment ID No. ID EPDPMD Equip. Class Distribution Panels and Switches	nd Automatic Transfer
Equipment Description PDP MD NUCLEAR INST CHANNEL D	
Location: Bldg. RAB Floor El. +21 Room, Area ROOM 212	COL 10A
Manufacturer, Model, Etc. (optional but recommended)	
Instructions for Completing Checklist	
This checklist may be used to document the results of the Seismic Walkdown of SWEL. The space below each of the following questions may be used to record findings. Additional space is provided at the end of this checklist for documenting	the results of judgments and
Anchorage	
1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?	Y⊠ N□
 2. Is the anchorage free of bent, broken, missing or loose hardware? All hardware is accounted for and in good condition 	Y⊠ N□ U□ N/A□
 3. Is the anchorage free of corrosion that is more than mild surface oxidation? No corrosion 	Y⊠ N□ U□ N/A□
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Y⊠ N□ U□ N/A□

No visible cracks in the concrete

¹ Enter the equipment class <u>name</u> from Appendix B: Classes of Equipment.

	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) <u>SWEL1-069</u>	
Equipment ID No. <u>ID EPDPMD</u> Equip. Class <u>Distribution Panels and</u>	d Automatic Transfer Switches
-OR- PDP-3MDS	
Equipment Description PDP MD NUCLEAR INST CHANNEL D	
 Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) 	Y⊠ N□ U□ N/A□
 Anchorage configuration consistent with G574-SH5 	
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	Y⊠ N□ U□
 Questions 2-5 satisfied, no seismic concern 	
Interaction Effects	
7. Are soft targets free from impact by nearby equipment or structures?	Y⊠ N□ U□ N/A□
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	Y⊠ N□ U□ N/A□
Do attached lines have adequate flexibility to avoid damage?	Y⊠ N□ U□ N/A□
 Conduit rigidly attached to equipment is acceptable per drawing no. B288 sh. 19-1 	
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	Y⊠ N□ U□
Questions 7-9 satisfied, no seismic concern	

Enclosure to W3F1-2013-0024 Page 363 of1014

Seismic Walkdown Checklist (SWC) <u>SWEL1-069</u>	Status: Y⊠ N U
Equipment ID No. <u>ID EPDPMD</u> Equip. Class <u>Distribution Panels an</u>	d Automatic Transfer Switches
-OR- PDP-3MDS	
Equipment Description PDP MD NUCLEAR INST CHANNEL D	:
Other Adverse Conditions	
11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment?	Y⊠ N□ U□
Comments (Additional pages may be added as necessary)	
 The panel is identified based on all breaker IDs of B289-S146. For area walk-by checklist see AWC-018 	
	i .
Mottatti Genge Evaluated by: Natalie George	_ Date: <u>10/19/12</u>
Market A	<u> 10/10/12</u>
Chu-Chieh Lin	<u>10/19/12</u>

Status:	\vee	NI	11
Status.	$II \wedge I$	INI	U

Seismic Walkdown Checklist (SWC) SWEL1-069

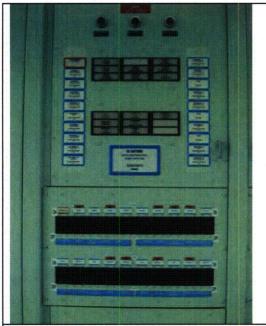
Equipment ID No. ID EPDPMD

Equip. Class <u>Distribution Panels and Automatic Transfer Switches</u>

-OR- PDP-3MDS

Equipment Description PDP MD NUCLEAR INST CHANNEL D

Photographs



Note: The panel is identified based on all breaker IDs of B289-S146.



Note: Anchorage configuration consistent with IPEEE of the identical item ID EPDPMA (PDP-3MAS)

Sheet 1 of 4

Status: Y⊠ N⊟ U⊟
Seismic Walkdown Checklist (SWC) <u>SWEL1-070</u>
Equipment ID No. DC EBATB Equip. Class Battery Racks
-OR- DC-B-3BS
Equipment Description 125V Battery & Rack 125VDC Battery B-S 60 Cells
Location: Bldg. RAB Floor El. +21 Room, Area Room 213, Col. 9A, Line J
Manufacturer, Model, Etc. (optional but recommended) C&D Batteries @ Allied, LCR33 and LCUN33
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
 Is the anchorage configuration verification required (i.e., is the item one Y⊠ N□ of the 50% of SWEL items requiring such verification)?
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
4. Is the anchorage free of visible cracks in the concrete near the anchors? ■ No visible cracks in the concrete

¹ Enter the equipment class <u>name</u> from Appendix B: Classes of Equipment.

Page 291 of 516

	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) <u>SWEL1-070</u>	
Equipment ID No. DC EBATB Equip. Class Battery Racks	
-OR- DC-B-3BS	
Equipment Description 125V Battery & Rack 125VDC Battery B-S 60 Cells	
 Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) 	Y⊠ N□ U□ N/A□
 Anchorage configuration consistent with plant documentation (see drawing no. G574 sh. 11) 	
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	Y⊠ N□ U□
 Questions 2-5 satisfied; no seismic concern 	
Interaction Effects	
7. Are soft targets free from impact by nearby equipment or structures?	Y⊠ N□ U□ N/A□
Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	Y⊠ N□ U□ N/A□
 Block walls are acceptable per drawing no. G765 sh. 2, calculation no. Civil Seismic Block Wall, and FSAR Section 3.8.4.8 	
9. Do attached lines have adequate flexibility to avoid damage?	Y⊠ N□ U□ N/A□
 Rigidly attached conduits are acceptable per drawing no. B288 pg. 19-1 	
Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	Y⊠ N□ U□
 Questions 7-9 are satisfied 	

Seismic Walkdown Checklist (SWC) SWEL1-070	Status: Y⊠ N⊡ U⊡
Equipment ID No. DC EBATB Equip. Class Battery Racks	
-OR- DC-B-3BS	
Equipment Description 125V Battery & Rack 125VDC Battery B-S 60 Cells	
Other Adverse Conditions	
11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment?	Y⊠ N□ U□
Comments (Additional pages may be added as necessary)	
 For area walk-by checklist see AWC-017 	
Evaluated by: Brian Pace Blown #Pace	_ Date: <u>10/2/12</u>
duikpali]	
Dinesh Patel	10/2/12

Status: Y⊠ N□ U□	Status:	$Y \boxtimes$	N	U
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Seismic Walkdown Checklist (SWC) SWEL1-070

Equipment ID No. DC EBATB

Equip. Class Battery Racks

-OR- DC-B-3BS

Equipment Description 125V Battery & Rack 125VDC Battery B-S 60 Cells

Photographs



Note: 125V Battery & Rack 125VDC Battery B-S 60 Cells



Note: Anchorage in good condition

Sheet 1 of 4

Sciencia Wallsdawer Chaeldiot (SWC) SWEL1 074
Seismic Walkdown Checklist (SWC) <u>SWEL1-071</u>
Equipment ID No. DC EBC1A Equip. Class ¹ Battery Chargers and Inverters
-OR- 3A1-S
Equipment Description Battery Charger A1
Location: Bldg. RAB Floor El. +21 Room, Area Room 212A, Col. 9A, Line H
Manufacturer, Model, Etc. (optional but recommended) C&D Batteries @ Allied, ARR130K150F3
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 Y⊠ N□ of the 50% of SWEL items requiring such verification)?
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 Y∑ N□ U□ N/A□ oxidation? • No corrosion
4. Is the anchorage free of visible cracks in the concrete near the anchors? Y⊠ N□ U□ N/A□ anchors?

No visible cracks in the concrete

¹ Enter the equipment class <u>name</u> from Appendix B: Classes of Equipment.

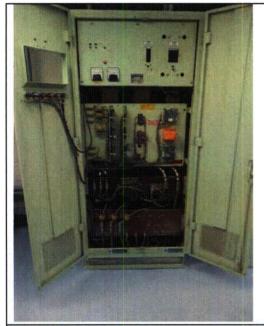
Seismic Walkdown Checklist (SWC) <u>SWEL1-071</u>	Status: Y⊠ N□ U□
Equipment ID No. <u>DC EBC1A</u> Equip. Class <u>Battery Chargers and</u>	Inverters
-OR- 3A1-S	
Equipment Description Battery Charger A1	
 Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) 	Y⊠ N□ U□ N/A□
 Anchorage configuration consistent with plant documentation (Drawing no. G574 sh. 5 and IPEEE pg. E-74) 	
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	Y⊠ N□ U□
 Questions 2-5 satisfied, no seismic concern. 	
Interaction Effects 7. Are soft targets free from impact by nearby equipment or structures?	Y⊠ N□ U□ N/A□
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	Y⊠ N□ U□ N/A□
 9. Do attached lines have adequate flexibility to avoid damage? Conduits rigidly attached to equipment are acceptable per drawing no. B288 sh. 19-1 	Y⊠ N□ U□ N/A□
Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	Y⊠ N□ U□

Enclosure to W3F1-2013-0024 Page 371 of1014

	Status: Y⊠ N⊟ U⊟
Seismic Walkdown Checklist (SWC) <u>SWEL1-071</u>	
Equipment ID No. DC EBC1A Equip. Class Battery Chargers ar	nd Inverters
-OR- 3A1-S	
Equipment Description Battery Charger A1	
Other Adverse Conditions	
Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment?	Y⊠ N□ U□
Comments (Additional pages may be added as necessary)	
For area walk-by checklist see AWC-016	
To alea waik-by checklist see AVVC-010	
Evaluated by: Brian Pace Blank France	Date: <u>10/4/12</u>
Chu-Chieh Lin	<u>10/4/12</u>

Seismic Walkdo	wn Checklist (SWC) ₋	Status: Y⊠ N□ U□
Equipment ID No.	DC EBC1A	Equip. Class_Battery Chargers and Inverters
	-OR- 3A1-S	
Equipment Descrip	tion Battery Charger A1	

Photographs



Note: Battery Charger A1

Sheet 1 of 4

Status: Y⊠ N∐ U∐
Seismic Walkdown Checklist (SWC) <u>SWEL1-072</u>
Equipment ID No. EG MDSG0001-B Equip. Class ¹ Engine Generators
Equipment Description Emergency Diesel Generator B
Location: Bldg. RAB Floor El. +21 Room, Area Room 222, 5A-J
Manufacturer, Model, Etc. (optional but recommended) Cooper Ind., Inc./Bessemer, KSV16T
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 Y⊠ N□ of the 50% of SWEL items requiring such verification)?
2. Is the anchorage free of bent, broken, missing or loose hardware? Y⊠ N□ U□ N/A□ All anchorage is accounted for and in good condition
3. Is the anchorage free of corrosion that is more than mild surface Y⊠ N□ U□ N/A□ oxidation? • No corrosion on anchorage
4. Is the anchorage free of visible cracks in the concrete near the anchors? Y⊠ N□ U□ N/A□ anchors?

• No visible cracks in the concrete

¹ Enter the equipment class <u>name</u> from Appendix B: Classes of Equipment.

	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) <u>SWEL1-072</u>	
Equipment ID No. <u>EG MDSG0001-B</u> Equip. Class <u>Engine Generators</u>	
Equipment Description Emergency Diesel Generator B	
 Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) 	Y⊠ N□ U□ N/A□
 Anchorage configuration consistent with plant documentation (drawing no. 1564-2040 and IPEEE pg. E-38), well anchored common skid 	
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	Y⊠ N□ U□
No seismic concerns	
Interaction Effects	
7. Are soft targets free from impact by nearby equipment or structures?	Y⊠ N□ U□ N/A□
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	Y⊠ N□ U□ N/A□
and massing block want not many to compact onto the equipment.	
9. Do attached lines have adequate flexibility to avoid damage?	Y⊠ N□ U□ N/A□
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	Y⊠ N□ U□

Page 300 of 516

Enclosure to W3F1-2013-0024 Page 375 of1014

	Status: Y⊠ N⊡ U⊡
Seismic Walkdown Checklist (SWC) <u>SWEL1-072</u>	
Equipment ID No. <u>EG MDSG0001-B</u> Equip. Class <u>Engine Generators</u>	
Equipment Description Emergency Diesel Generator B	
Other Adverse Conditions	
11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment?	Y⊠ N□ U□
<u>Comments</u> (Additional pages may be added as necessary)	
 For area walk-by checklist see AWC-025 	
Evaluated by: Dinesh Patel	Date: <u>10/2/12</u>
Motate Genge	
Natalie George	10/2/12

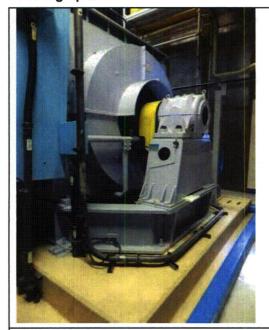
Status:	$Y \boxtimes$	N	U
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Seismic Walkdown Checklist (SWC) SWEL1-072

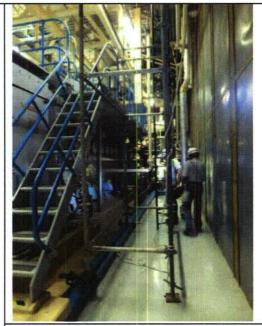
Equipment ID No. <u>EG MDSG0001-B</u> Equip. Class <u>Engine Generators</u>

Equipment Description Emergency Diesel Generator B

Photographs



Note: Example of Emergency Diesel Generator B anchorage



Note: Emergency Diesel Generator B

Page 302 of 516

Sheet 1 of 4

Status: Y⊠ N⊡ U⊡
Seismic Walkdown Checklist (SWC) <u>SWEL1-073</u>
Equipment ID No. CC ILS7011-B Equip. Class INSTRUMENT RACKS
<u>-OR-</u>
LS-CC-7011BS
Equipment Description CCW SURGE TANK B SIDE LO/LO LEVEL SWITCH
Location: Bldg. RAB Floor El. +91 Room, Area 417, COL 1A, LINE K
Manufacturer, Model, Etc. (optional but recommended) MAGNETROL INTL INC, BC751VPX
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
 Is the anchorage configuration verification required (i.e., is the item one Y N N N N N N N N N N N N N N N N N N
 This is an in-line component and cannot be part of the 50% list or be evaluated for anchorage.
 2. Is the anchorage free of bent, broken, missing or loose hardware? Y∑ N□ U□ N/A□ Welds between component and pipes are accounted for and in good condition.
3. Is the anchorage free of corrosion that is more than mild surface Y⊠ N□ U□ N/A□ oxidation?
 Welds appear to be in good condition. They are free of corrosion and painted.
 Is the anchorage free of visible cracks in the concrete near the anchors? Y□ N□ U□ N/A☒

This is an in-line component

¹ Enter the equipment class <u>name</u> from Appendix B: Classes of Equipment.

Seismic Walkdown Checklist (SWC) SWEL1-073	Status: Y⊠ N□ U□
Equipment ID No. <u>CC ILS7011-B</u> Equip. Class <u>INSTRUMENT RACK</u>	S
<u>-OR-</u>	
LS-CC-7011BS	
Equipment Description CCW SURGE TANK B SIDE LO/LO LEVEL SWITCH	
 Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) 	Y□ N□ U□ N/A⊠
 This is an in-line component and cannot be part of the 50% list or be evaluated for anchorage. 	
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	Y⊠ N□ U□
 The level switch is well supported by the pipes and their rigid supports, but is an in-line component and therefore has no anchorage. 	
Interaction Effects	
7. Are soft targets free from impact by nearby equipment or structures?	Y⊠ N□ U□ N/A□
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	Y⊠ N□ U□ N/A□
Do attached lines have adequate flexibility to avoid damage?	Y⊠ N□ U□ N/A□
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	Y⊠ N□ U□
Questions 7-9 are satisfied	

Enclosure to W3F1-2013-0024 Page 379 of1014

Seismic Walkdo	wn Checklist (SW	C) <u>SWEL1-073</u>	Status: YX N U
Equipment ID No.	CC ILS7011-B	Equip. Class INSTRUMENT RACK	(S
	-OR-		
	LS-CC-7011BS		
Equipment Descrip	otion CCW SURGE]	TANK B SIDE LO/LO LEVEL SWITCH	
Other Adverse Co	onditions		Access
11. Have you lo	ooked for and found n	o other seismic conditions that could ons of the equipment?	Y⊠ N□ U□
• The rigi	onal pages may be a e switch is well suppo d supports area walk-by checkli	rted by the connecting pipes at the top	and at the bottom with nearby
Evaluated by: <u>Bría</u>	n Pace	man & Paran milpali)	Date: <u>10-08-2012</u>
Dine	esh Patel		10-08-2012

Seismic Walkdo	wn Checklist (SWC)	SWEL1-073	Status:	ΥM	N_	U
Equipment ID No.	CC ILS7011-B	Equip. Class INSTRUMENT RACKS				
	<u>-OR-</u>					
	LS-CC-7011BS					
Fauinment Descrin	tion CCW SURGE TAN	JK B SIDE LO/LO LEVEL SWITCH				

Photographs



Note: CC ILS7011-B

Engineering Report No. WF3-CS-12-00003 Attachment C

Enclosure to W3F1-2013-0024 Page 381 of1014

Rev. 0 Page 306 of 516

Sheet 1 of 4

	Status: Y⊠ N⊟ U⊟
Seismic Walkdown Checklist (SWC) <u>SWEL1-074</u>	
Equipment ID No. <u>EGFILT6903-A</u> Equip. Class <u>Instrument Racks</u>	
-OR- LT-EG-6903AS	
Equipment Description Diesel Oil Feed Tank A Level Transmitter	
Location: Bldg. RAB Floor El. +46 Room, Area Room 328B	, Col. 2A, Line J
Manufacturer, Model, Etc. (optional but recommended) Rosemount, 1153DA	4
Instructions for Completing Checklist	
This checklist may be used to document the results of the Seismic Walkdown o SWEL. The space below each of the following questions may be used to record findings. Additional space is provided at the end of this checklist for documenting	I the results of judgments and
Anchorage	
 Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? 	Y⊠ N□
 2. Is the anchorage free of bent, broken, missing or loose hardware? Four bolts are accounted for and in good condition 	Y⊠ N□ U□ N/A□
Is the anchorage free of corrosion that is more than mild surface oxidation? No corrosion on any of the bolts on the mounting plate or on	Y⊠ N□ U□ N/A□
the supports anchored to the floor. 4. Is the anchorage free of visible cracks in the concrete near the anchors?	Y⊠ N□ U□ N/A□
 No cracks found around the support base plates. 	

¹ Enter the equipment class <u>name</u> from Appendix B: Classes of Equipment.

Seismic Walkdown Checklist (SWC)SWEL1-074	Status: Y⊠ N□ U□
· · · · · · · · · · · · · · · · · · ·	
Equipment ID No. <u>EGFILT6903-A</u> Equip. Class <u>Instrument Racks</u>	
-OR- LT-EG-6903AS	
Equipment Description <u>Diesel Oil Feed Tank A Level Transmitter</u>	
 Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) 	Y⊠ N□ U□ N/A□
 Anchorage is consistent with documentation in drawing 1564-7973. 	
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	Y⊠ N□ U□
 Questions 2-5 are satisfied; no seismic concern 	
Interaction Effects	
7. Are soft targets free from impact by nearby equipment or structures?	Y⊠ N□ U□ N/A□
8. Are overhead equipment, distribution systems, ceiling tiles and lighting,	Y⊠ N□ U□ N/A□
and masonry block walls not likely to collapse onto the equipment?	
 9. Do attached lines have adequate flexibility to avoid damage? One flexible line. 	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□
Questions 7-9 are satisfied.	

Enclosure to W3F1-2013-0024 Page 383 of1014

Seismic Walkdown Checklist (SWC) SWEL1-074	Status: Y⊠ N⊡ U⊡
Equipment ID No. <u>EGFILT6903-A</u> Equip. Class <u>Instrument Racks</u>	
-OR- LT-EG-6903AS_	
Equipment Description Diesel Oil Feed Tank A Level Transmitter	
Other Adverse Conditions	
11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment?	Y⊠ N□ U□
Comments (Additional pages may be added as necessary)	
 For area walk-by checklist see AWC-035 	
	•
Evaluated by: Dinesh Patel	_ Date: 10-08-2012
Burn & Para	
Brian Pace Driver Town	_ 10-08-2012

Sheet 4 of 4

Status: Y⊠ N□ U□

Seismic Walkdown Checklist (SWC) SWEL1-074

Equipment ID No. <u>EGFILT6903-A</u>

Equip. Class Instrument Racks

-OR- LT-EG-6903AS

Equipment Description Diesel Oil Feed Tank A Level Transmitter

Photographs



Note: Level transmitter mounted with four bolts to the mounting plate



Note: Four bolts in good condition and are consistent with plant documentation

Enclosure to W3F1-2013-0024 Page 385 of1014

Sheet 1 of 4
Seismic Walkdown Checklist (SWC) <u>SWEL1-075</u>
Equipmen VD No. IC ICDC1-C Equip. Class ¹ Instrument Racks
Equipment Description Instrument Cabinet C-1C
Location: Bldg. RCB Floor El. +21 Room, Area Room 421, Col. 16
Manufacturer, Model, Etc. (optional but recommended)
Instructions for Completing Checklist
This checklist may be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.
Anchorage
 Is the anchorage configuration verification required (i.e., is the item one Y N N N N N N N N N N N N N N N N N N
2. Is the anchorage free of bent, broken, missing or loose hardware? Y☐ N☐ U☐ N/A☐
3. Is the anchorage free of corrosion that is more than mild surface Y☐ N☐ U☐ N/A☐ oxidation?
4. Is the anchorage free of visible cracks in the concrete near the anchors? Y□ N□ U□ N/A□

See Attachment K - Revision 1

¹ Enter the equipment class <u>name</u> from Appendix B: Classes of Equipment.

Enclosure to W3F1-2013-0024 Page 386 of1014 Attachment C Rev. 0 Page 311 of 516

Sheet	2	of	4
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Cainnia Walladanna Obaalaliat (CMC) CMELA 075	Status: Y☐ N⊠ U☐
Seismic Walkdown Checklist (SWC) <u>SWEL1-075</u>	
Equipment IDNo. IC ICDC1-C Equip. Class Instrument Racks	
Equipment Description Instrument Cabinet C-1C	
 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
Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	Y_ N_ U_
Interaction Effects	
7. Are soft targets free from impact by nearby equipment or structures?	Y
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	Y_ N_ U_ N/A_
9. Do attached lines have adequate flexibility to avoid damage?	Y N U N/A
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	Y ND UD
	\

Enclosure to W3F1-2013-0024 Page 387 of1014

Sheet 3 of 4		
	Status: Y□	$N \boxtimes U \square$
Seismic Walkdown Checklist (SWC) <u>SWEL1-075</u>		
Equipment IDNo. IC ICDC1-C Equip. Class Instrument Racks		
Equipment Description Instrument Cabinet C-1C		
Other Adverse Conditions		
11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment?	Y N U	
Comments (Additional pages may be added as necessary)		
Evaluated by:	Date:	
•	- \	

See Attachment K - Revision 1

Enclosure to W3F1-2013-0024 Page 388 of1014

Rev. 0 Page 313 of 516

Sheet 4 of 4	
Seismic Walkdown Checklist (SWC) SWEL1-	Status: Y☐ N☒ U☐
Equipment IQ No. IC ICDC1-C Equip. Cla	
Equipment Description Instrument Cabinet C-1C	
Photographs	
Note:	Note:

Page 314 of 516

Sheet 1 of 4

	Status: Y⊠ N⊡ U⊡		
Seismic Walkdown Checklist (SWC) <u>SWEL1-076</u>			
Equipment ID No. IC ICDC12 Equip. Class INSTRUMENT RACK	S		
Equipment Description INSTRUMENT CABINET C-12			
Location: Bldg. RB Floor El4 Room, Area ROOM B145	, COL 2AZ		
Manufacturer, Model, Etc. (optional but recommended)			
Instructions for Completing Checklist			
This checklist may be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.			
Anchorage			
 Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? 	Y□ N⊠		
 No documentation to verify weld configuration 			
Is the anchorage free of bent, broken, missing or loose hardware? Welds are in good condition; no documentation to verify weld configuration	Y⊠ N□ U□ N/A□		
Configuration			
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	Y⊠ N□ U□ N/A□		
No corrosion near welds			
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Y⊠ N□ U□ N/A□		
 Equipment is welded to embedded steel; no cracks in concrete 			

around embeds

¹ Enter the equipment class <u>name</u> from Appendix B: Classes of Equipment.

Sheet 2 of 4

	Status: Y⊠ N⊟ U⊟
Seismic Walkdown Checklist (SWC) <u>SWEL1-076</u>	
Equipment ID No. IC ICDC12 Equip. Class INSTRUMENT RACKS	3
Equipment Description INSTRUMENT CABINET C-12	
 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.) No documentation to verify weld configuration 	Y□ N□ U□ N/A⊠
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	Y⊠ N□ U□
Interaction Effects	
7. Are soft targets free from impact by nearby equipment or structures?	Y⊠ N□ U□ N/A□
Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	Y⊠ N□ U□ N/A□
 9. Do attached lines have adequate flexibility to avoid damage? Conduit rigidly attached to equipment is acceptable per drawing no. B288 sh. 19-1 	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□

Enclosure to W3F1-2013-0024 Page 391 of1014

Sheet 3 of 4

Status: YX N U
Seismic Walkdown Checklist (SWC) SWEL1-076
Equipment ID No. IC ICDC12 Equip. Class INSTRUMENT RACKS
Equipment Description INSTRUMENT CABINET C-12
Other Adverse Conditions
11. Have you looked for and found no other seismic conditions that could Y⊠ N□ U□ adversely affect the safety functions of the equipment?
Comments (Additional pages may be added as necessary)
 Mild corrosion on cabinet exterior; no seismic concern. CR-WF3-2012-05275 and WR-287634
initiated to address this condition.
 Missing lifting eye at back of cabinet (1 of 4); no seismic concern
For area walk-by checklist see AWC-030
·
Evaluated by: Natalie George Date: 10/5/12
general de la companya del companya del companya de la companya de
Chu-Chieh Lin 10/5/12

Sheet 4 of 4

Seismic Walkdown Checklist (SWC) SWEL1-076	Status:	Υ⊠	N	U
Equipment ID No. <u>IC ICDC12</u> Equip. Class <u>INSTRUMENT RACKS</u>				
Equipment Description INSTRUMENT CABINET C-12				

Photographs



Note: Mild corrosion on cabinet exterior

Sheet 1 of 4	
	Status: Y□ N⊠ U□
Seismic Walkdown Checklist (SWC)SWEL1-077	
Equipment ID No. IC ICDC9 Equip. Class ¹ Instrument Racks	
Equipment Description Instrument Cabinet C-9	
Location: Bldg. ROB Floor El. +21 Room, Area Room 421, C	Col. 6
Manufacturer, Model, Etc. (optional but recommended)	
Instructions for Completing Checklist	
This checklist may be used to document the results of the Seismic Walkdown of SWEL. The space below each of the following questions may be used to record findings. Additional space is provided at the end of this checklist for documenting	the results of judgments and
Anchorage	
 Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? 	Y N
2. Is the anchorage free of bent, broken, missing or loose hardware?3. Is the anchorage free of corrosion that is more than mild surface oxidation?	Y N U N/A D
Is the anchorage free of visible cracks in the concrete near the anchors?	YN NO UO N/AO

See Attachment K - Revision 1

¹ Enter the equipment class <u>name</u> from Appendix B: Classes of Equipment.

Page 319 of 516

Enclosure to W3F1-2013-0024 Page 394 of1014

> State 2 of 4 Status: Y N N U □ Seismic Walkdown Checklist (SWC) SWEL1-077 Equip. Class Instrument Racks Equipment NO No. IC ICDC9 Equipment Description Instrument Cabinet C-9 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.) 6. Based on the above anchorage evaluations, is the anchorage free of Y N U potentially adverse seismid conditions? **Interaction Effects** 7. Are soft targets free from impact by nearby equipment or structures? Y N U N/A 8. Are overhead equipment, distribution systems, ceiling tiles and lighting, Y N U N/A and masonry block walls not likely to collapse onto the equipment? 9. Do attached lines have adequate flexibility to avoid damage? Y N U N/A 10. Based on the above seismic interaction evaluations, is equipment free N UU of potentially adverse seismic interaction effects?

See Attachment K - Revision 1

Enclosure to W3F1-2013-0024 Page 395 of1014

Sheet 3 of 4		
	Status: Y	N⊠ U[
Seismic Walkdown Checklist (SWC) <u>SWEL1-077</u>		
Equipment IO No. IC ICDC9 Equip. Class Instrument Racks		
Equipment Description Instrument Cabinet C-9		
Other Adverse Conditions		
11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment?	Y_ N_ U_	
Comments (Additional pages may be added as necessary)		
Evaluated by:	_ Date:	
	- \	
	\	

Enclosure to W3F1-2013-0024 Page 396 of1014

Sheet 4 of 4

Seismic Walkdown Checklist (SWC) SWEL1-077	Status: Y☐ N☒ U☐
Seisific Walkdowii Checklist (SWC)	
Equipment ID No. IC ICDC9 Equip. Class Instrument Ra	cks
Equipment Description Instrument Cabinet C-9	
Photographs	
	e;
Note: Note:	
	10 mm

Page 322 of 516

Sheet 1 of 4

Status: Y⊠ N	_ ∪_
Seismic Walkdown Checklist (SWC) <u>SWEL1-078</u>	
Equipment ID No. NG IPIS0945-B Equip. Class Instrument Racks	
-OR- PS-NG-0945BS	
Equipment Description NITROGEN HEADER 6 PRESS INDICATING SWITCH	
Location: Bldg. RB Floor El. +46 Room, Area COL 2AZ LINE M	
Manufacturer, Model, Etc. (optional but recommended) <u>ITT BARTON INSTRUMENTS, MODEL 580</u>	0-1
Instructions for Completing Checklist	
This checklist may be used to document the results of the Seismic Walkdown of an item of equipment SWEL. The space below each of the following questions may be used to record the results of judgme findings. Additional space is provided at the end of this checklist for documenting other comments.	
Anchorage	
 Is the anchorage configuration verification required (i.e., is the item one Y N N N N N N N N N N N N N N N N N N	
 Item not one of the 50% of SWEL items requiring anchorage configuration verification 	
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 Y⊠ N□ U□ N/A oxidation?	
 Switch anchorage to support has mild corrosion; no seismic concern 	
Support anchorage to wall is corrosion free	
4. Is the anchorage free of visible cracks in the concrete near the anchors? Y∑ N□ U□ N/A	
No cracks in the concrete	

¹ Enter the equipment class <u>name</u> from Appendix B: Classes of Equipment.

Sheet 2 of 4

	Status: Y⊠ N⊟ U⊟
Seismic Walkdown Checklist (SWC) <u>SWEL1-078</u>	
Equipment ID No. NG IPIS0945-B Equip. Class Instrument Racks	
-OR- PS-NG-0945BS	
Equipment Description NITROGEN HEADER 6 PRESS INDICATING SWITCH	
 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⊠
 Item not one of the 50% of SWEL items requiring anchorage configuration verification 	
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	Y⊠ N□ U□
No seismic concern	
	· · · · · · · · · · · · · · · · · · ·
Interaction Effects	
7. Are soft targets free from impact by nearby equipment or structures?	Y⊠ N□ U□ N/A□
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	Y⊠ N□ U□ N/A□
Do attached lines have adequate flexibility to avoid damage?	Y⊠ N□ U□ N/A□
, ,	_ _ _
10. Based on the above seismic interaction evaluations, is equipment free	Y⊠ N□ U□
of potentially adverse seismic interaction effects?	

Page 324 of 516

Sheet 3 of 4

Seismic Walkdown Checklist (SWC) SWEL1-078	Status: Y⊠ N⊟ U⊟
Equipment ID No. NG IPIS0945-B Equip. Class Instrument Racks	
-OR- PS-NG-0945BS	· · · · · · · · · · · · · · · · · · ·
Equipment Description <u>NITROGEN HEADER 6 PRESS INDICATING SWITCH</u>	ı
Other Adverse Conditions	
11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment?	Y⊠ N□ U□
Comments (Additional pages may be added as necessary)	
 For area walk-by checklist see AWC-041 	
•	
Motatu Genge Evaluated by: Natalie George	_ Date: <u>10/12/12</u>
Chu-Chieh Lin	10/12/12

Sheet 4 of 4

Status:	$\sqrt{\nabla}$	NI	
SIMILS	1101	IVI	1 11 1

Seismic Walkdown Checklist (SWC) SWEL1-078

Equipment ID No. NG IPIS0945-B

Equip. Class Instrument Racks

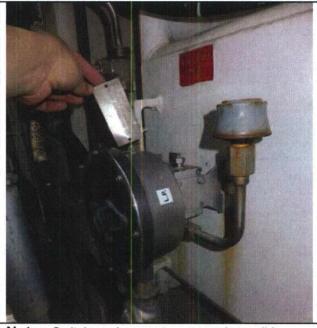
-OR- PS-NG-0945BS

Equipment Description NITROGEN HEADER 6 PRESS INDICATING SWITCH

Photographs



Note: Nitrogen header 6 pressure indicating switch



Note: Switch anchorage to support has mild corrosion

Page 326 of 516

Enclosure to W3F1-2013-0024 Page 401 of1014

Sheet 1 of 4	
	Status: Y☐ N⊠ U☐
Seismic Walkdown Checklist (SWC) <u>SWEL1-079</u>	
Equipment IN No. SG ILT1115-A Equip. Class Instrument Racks	
-OR- LT-FW-1115AS	
Equipment Description STEAM GENERATOR 1 LEVEL IXMITR (WIDE RANGE)	<u> </u>
Location: Bldg. RCB Floor El4 Room, Area Room 421, C	ol. 18
Manufacturer, Model, Etc. (Optional but recommended) ITT Barton Instrument	s, 764
Instructions for Completing Checklist	
This checklist may be used to document the results of the Seismic Walkdown of SWEL. The space below each of the following questions may be used to record findings. Additional space is provided at the end of this checklist for documenting	the results of judgments and
Anchorage	
Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?	Y N
2. Is the anchorage free of bent, broken, missing or loose hardware?	Y_ N_ U_ N/A_
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	Y N U N/A
Is the anchorage free of visible cracks in the concrete near the anchors?	Y NO UO N/AO

See Attachment K - Revision 1

¹ Enter the equipment class <u>name</u> from Appendix B: Classes of Equipment.

Enclosure to W3F1-2013-0024 Page 402 of1014

	Sheet 2 of 4	
		Status: Y□ N⊠ U□
	Seismic Walkdown Checklist (SWC) <u>SWEL1-079</u>	
	Equipment ID No. SG ILT1115-A Equip. Class Instrument Racks	
	-OR- LT-FW-1115AS	
	Equipment Description STEAM GENERATOR 1 LEVEL IXMITR (WIDE RANGE	Ξ)
	 Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) 	Y N U N/A
	6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	Y N U
_		
	Interaction Effects	
	7. Are soft targets free from impact by nearby equipment or structures?	Y N U N/A
	8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	Y_ N_ U_ N/A_
	Do attached lines have adequate flexibility to avoid damage?	Y N U N/A
	10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	Y

Enclosure to W3F1-2013-0024 Page 403 of1014

Sheet 3 of 4	
	Status: Y☐ N⊠ U☐
Seismic Walkdown Checklist (SWC) <u>SWEL1-079</u>	
Equipment D No. SG ILT1115-A Equip. Class Instrument Racks	,
-OR- LT-FW-1115AS	
Equipment Description STEAM GENERATOR 1 LEVEL IXMITR (WIDE RAI	NGE)
Other Adverse Conditions	
Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment?	Y N U
Comments (Additional pages may be added as necessary)	
Evaluated by:	Date:

See Attachment K - Revision 1

Enclosure to W3F1-2013-0024 Page 404 of1014

> Sheet 4 of 4 Status: Y□ N⊠ U□ Seismic Walkdown Checklist (SWC) SWEL1-079 Equipment ID No. SG ILT1115-A Equip. Class Instrument Racks -OR- LT-FW-1115AS STEAM GENERATOR 1 LEVEL IXMITR (WIDE RANGE) Equipment Description **Photographs** Note: Note:

Enclosure to W3F1-2013-0024 Page 405 of1014

Sheet 1 of 4
Status: Y□ N⊠ U□
Seismic Walkdown Checklist (SWC) <u>SWEL1-080</u>
Equipment IQ No. RC ITE0122-HA1 Equip. Class ¹ Temperature Sensors
-OR- TE-RC-0122HA
Equipment Description Reactor Coolant Loop 2 Hot Leg Temperature
Location: Bldg. RCB Floor El4 Room, Area Room 423
Manufacturer, Model, Etc. (optional but recommended) Weed Instrument Company, Inc., N9004E2B
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
 Is the anchorage configuration verification required (i.e., is the item one Y N N N N N N N N N N N N N N N N N N
2. Is the anchorage free of bent, broken, missing or loose hardware? Y☐ N☐ U☐ N/A☐
Is the anchorage free of corrosion that is more than mild surface
4. Is the anchorage free of visible cracks in the concrete near the anchors? Y□ N□ U□ N/A□ anchors?

See Attachment K - Revision 1

¹ Enter the equipment class <u>name</u> from Appendix B: Classes of Equipment.

Page 331 of 516

Enclosure to W3F1-2013-0024 Page 406 of1014

> Sheet 2 of 4 Status: Y N N U □ Seismic Walkdown Checklist (SWC) SWEL1-080 Equipment No. RC ITE0122-HA1 Equip. Class Temperature Sensors -OR- TE-RC-0122HA Equipment Description Reactor Coolant Loop 2 Hot Leg Temperature 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.) 6. Based on the above anchorage evaluations, is the anchorage free of Y N U potentially adverse seismic conditions? **Interaction Effects** Y N U N/A 7. Are soft targets free from impact by nearby equipment or structures? 8. Are overhead equipment, distribution systems, ceiling tiles and lighting, Y N U N/A and masonry block walls not likely to collapse onto the equipment? Y NUUNAU 9. Do attached lines have adequate flexibility to avoid damage? 10. Based on the above seismic interaction evaluations, is equipment free U of potentially adverse seismic interaction effects?

Enclosure to W3F1-2013-0024 Page 407 of1014 Attachment C Rev. 0 Page 332 of 516

Sheet 3 of 4			
	Status: Y	$N \boxtimes$	U
Seismic Walkdown Checklist (SWC) <u>SWEL1-080</u>			
Equipment D No. RC ITE0122-HA1 Equip. Class Temperature Sensors	Volumentaria di serve del composito del composito del composito del composito del composito del composito del c		
-OR- TE-RC-0122HA			
Equipment Description Reactor Coolant Loop 2 Hot Leg Temperature			
Other Adverse Conditions		**************************************	
11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment?	Y N U		
Comments (Additional pages may be added as necessary)			
Evaluated by:	Date:		
			na o pravyný čánapaja oma

Enclosure to W3F1-2013-0024 Page 408 of1014

Sheet 4 of 4

				Status: Y	\square N \boxtimes	U
Seismic Walkdown C	hecklist (SWC)	SWEL1-	080			
Equipment ID No. RC I	TE0122-HA1	Equip. Clas	s Temperature Sensors			
-OR-	- TE-RC-0122HA					
Equipment Description I	Reactor Coolant L	oop 2 Hot Le	g Temperature			
Photographs						
Note:			Note:			

Sheet 1 of 4

	Status: Y⊠ N□ U□		
Seismic Walkdown Checklist (SWC) <u>SWEL1-081</u>			
Equipment ID No. <u>EG ECP6850-B</u> Equip. Class <u>Instrumentation and C</u>	Control Panels		
-OR- D030			
Equipment Description Diesel Generator B Engine Control Panel			
Location: Bldg. RAB Floor El. +21 Room, Area Room 222, C	col. 5A, Line K		
Manufacturer, Model, Etc. (optional but recommended) Cooper Ind., Inc./Bess	emer, G5262961		
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⊠		
 Verified anchor bolts on front side, rear anchor bolts not accessible. Rear bolts acceptable per IPEEE walkdown. See drawing 1564-2169 for anchorage configuration. 			
2. Is the anchorage free of bent, broken, missing or loose hardware?	Y⊠ N□ U□ N/A□		
Visible anchorage is accounted for and in good condition			
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	Y⊠ N□ U□ N/A□		
No corrosion on visible anchors			
Is the anchorage free of visible cracks in the concrete near the	Y⊠ N□ U□ N/A□		
anchors?			
 No visible cracks in the concrete 			

¹ Enter the equipment class <u>name</u> from Appendix B: Classes of Equipment.

Enclosure to W3F1-2013-0024 Page 410 of1014

Sheet 2 of 4

Seismic Walkdown Checklist (SWC) SWEL1-081	Status: Y⊠ N⊡ U⊡
· · · · · · · · · · · · · · · · · · ·	
Equipment ID No. <u>EG ECP6850-B</u> Equip. Class <u>Instrumentation and C</u>	ontrol Panels
-OR- D030	
Equipment Description Diesel Generator B Engine Control Panel	
 Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) 	Y□ N□ U□ N/A⊠
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	Y⊠ N□ U□
Questions 2-4 satisfied	
Interaction Effects	
7. Are soft targets free from impact by nearby equipment or structures?	Y⊠ N□ U□ N/A□
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	Y⊠ N□ U□ N/A□
 9. Do attached lines have adequate flexibility to avoid damage? Conduit rigidly attached to equipment is acceptable per drawing no. B288 sh. 19-1 	Y⊠ N□ U□ N/A□
Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	Y⊠ N□ U□

Enclosure to W3F1-2013-0024 Page 411 of1014

Sheet 3 of 4

Seismic Walkdown Checklist (SWC)SWEL1-081	Status: Y⊠ N⊡ U⊡	
Equipment ID No. <u>EG ECP6850-B</u> Equip. Class <u>Instrumentation and C</u>	Control Panels	
-OR- D030		
Equipment Description <u>Diesel Generator B Engine Control Panel</u>		
Other Adverse Conditions		
11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment?	Y⊠ N□ U□	
Comments (Additional pages may be added as necessary) • For area walk-by checklist see AWC-025		
Evaluated by: Brian Pace Blank France	_ Date: <u>10/2/12</u>	
dniskpali]		
Dinesh Patel	10/2/12	

Sheet 4 of 4

Seismic Walkdo	wn Checklist (SWC)		tus: Y⊠	N U U
Equipment ID No.	EG ECP6850-B	Equip. Class Instrumentation and Control P	anels	
	-OR- D030			
Equipment Description Diesel Generator B Engine Control Panel				

Photographs



Note: Diesel Generator B Engine Control Panel

Sheet 1 of 4

Status: Y X N U
Seismic Walkdown Checklist (SWC) <u>SWEL1-082</u>
Equipment ID No. <u>ESFECP0001-A</u> Equip. Class ¹ <u>Instrumentation and Controls Panels</u>
Equipment Description ESFAS Cabinets
Location: Bldg. RAB Floor El. +21 Room, Area Room 212A, Col. 10A, Line H
Manufacturer, Model, Etc. (optional but recommended)
Instructions for Completing Checklist
This checklist may be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.
Anchorage
 Is the anchorage configuration verification required (i.e., is the item one Y⊠ N□ of the 50% of SWEL items requiring such verification)?
2. Is the anchorage free of bent, broken, missing or loose hardware? Y⊠ N□ U□ N/A□ All anchorage is accounted for and in good condition
3. Is the anchorage free of corrosion that is more than mild surface Y∑ N□ U□ N/A□ oxidation? • All anchorage is free of corrosion
 4. Is the anchorage free of visible cracks in the concrete near the anchors? No visible cracks in the concrete

¹ Enter the equipment class <u>name</u> from Appendix B: Classes of Equipment.

Sheet 2 of 4

	Status: Y⊠ N⊟ U⊟
Seismic Walkdown Checklist (SWC) <u>SWEL1-082</u>	
Equipment ID No. <u>ESFECP0001-A</u> Equip. Class <u>Instrumentation and C</u>	ontrols Panels
Equipment Description ESFAS Cabinets	
 Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) 	Y⊠ N□ U□ N/A□
 Anchorage configuration consistent with plant documentation (SQ-NSSS-ICE-4) 	
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	Y⊠ N□ U□
 Questions 2-5 are satisfied, no seismic concern. 	
Interaction Effects	
7. Are soft targets free from impact by nearby equipment or structures?	Y⊠ N□ U□ N/A□
8. Are overhead equipment, distribution systems, ceiling tiles and lighting,	Y⊠ N□ U□ N/A□
and masonry block walls not likely to collapse onto the equipment?	
9. Do attached lines have adequate flexibility to avoid damage? Conduits visible attached to assume the population of	Y⊠ N□ U□ N/A□
 Conduits rigidly attached to equipment are acceptable per drawing no. B288 sh. 19-1 	
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	Y⊠ N□ U□
 Questions 7-9 are satisfied, no seismic concern. 	

Sheet 3 of 4

Status: YX N U
Equipment ID No. <u>ESFECP0001-A</u> Equip. Class <u>Instrumentation and Controls Panels</u>
Equipment Description ESFAS Cabinets
Other Adverse Conditions
11. Have you looked for and found no other seismic conditions that could Y⊠ N□ U□ adversely affect the safety functions of the equipment?
Comments (Additional pages may be added as necessary)
 A bolt was found near the 4th anchor bolt from the left at front, minor house keeping issue, no seismic concern.
For area walk-by checklist see AWC-016
Evaluated by: Brian Pace Blanch Date: 10/4/12
and the second of the second o
Chu-Cheih Lin 10/4/12

Sheet 4 of 4

Status: Y⊠ N□ U□

Seismic Walkdown Checklist (SWC) SWEL1-082

Equipment ID No. ESFECP0001-A

Equip. Class Instrumentation and Controls Panels

Equipment Description ESFAS Cabinets

Photographs



Note: ESFAS Cabinets



Note: ESFAS Cabinets Anchorage

Sheet 1 of 4

Status: Y⊠ N⊟ U⊟
Seismic Walkdown Checklist (SWC) <u>SWEL1-083</u>
Equipment ID No. IC EAUX2 Equip. Class ¹ Instrumentation and Control Panels
Equipment Description AUXILIARY PANEL 2(SB)
Location: Bldg. RAB Floor El. +35 Room, Area Room 262, Col. 11A, Line G
Manufacturer, Model, Etc. (optional but recommended)
Instructions for Completing Checklist
This checklist may be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.
Anchorage
 1. Is the anchorage configuration verification required (i.e., is the item one Y□ N☒ of the 50% of SWEL items requiring such verification)? • Item not one of the 50% of SWEL items requiring anchorage configuration verification
2. Is the anchorage free of bent, broken, missing or loose hardware? Y⊠ N□ U□ N/A□ All anchorage is accounted for and in good condition
 3. Is the anchorage free of corrosion that is more than mild surface oxidation? ◆ Anchorage is free of corrosion
4. Is the anchorage free of visible cracks in the concrete near the Y⊠ N□ U□ N/A□ anchors?

No free of visible cracks in the concrete near the anchors

¹ Enter the equipment class <u>name</u> from Appendix B: Classes of Equipment.

Sheet 2 of 4

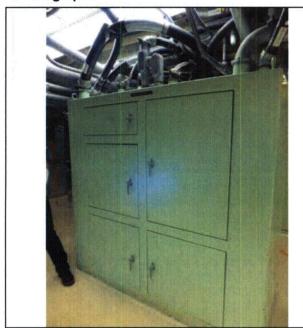
Seismic Walkdown Checklist (SWC)SWEL1-083	Status: Y⊠ N∐ U∐
Equipment ID No. IC EAUX2 Equip. Class Instrumentation and C	Control Panels
Equipment Description AUXILIARY PANEL 2(SB)	
 5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) IPEEE pg. E-41 states that bays are bolted together and welded to embedded steel. However, upon further inspection it was determined the equipment is bolted with eight ½" bolts to the embedded plate. 	Y□ N□ U□ N/A⊠
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	Y⊠ N□ U□
No seismic concern	
Interaction Effects 7. Are soft targets free from impact by nearby equipment or structures?	Y⊠ N□ U□ N/A□
 8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Block walls acceptable per drawing no. G765 sh. 2, calculation no. Civil Seismic Block Walls, and FSAR Section 3.8.4.8 	Y⊠ N□ U□ N/A□
9. Do attached lines have adequate flexibility to avoid damage?	Y⊠ N□ U□ N/A□
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	Y⊠ N□ U□

Sheet 3 of 4

Seismic Walkdown Checklist (SWC)SWEL1-083	Status: Y⊠ N□ U□
Equipment ID No. IC EAUX2 Equip. Class Instrumentation and C	Control Panels
Equipment Description AUXILIARY PANEL 2(SB)	
Other Adverse Conditions	
11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment?	Y⊠ N□ U□
Comments (Additional pages may be added as necessary)	
 For area walk-by checklist see AWC-053 	
Matatu Genge	
Evaluated by: Natalie George	_ Date: <u>10/15/12</u>
Chu Chiah Lin Chialland	40/45/40
Chu-Chieh Lin	<u>10/15/12</u>

Seismic Walkdown Checklist (SWC) <u>SWEL1-083</u>	Status:	Υ⊠	N_ U_
Equipment ID No. IC EAUX2 Equip. Class Instrumentation and Co	ntrol Panels	S	HINNING MATERIAL HINNING TO SECOND MATERIAL PROPERTY OF THE SE
Equipment Description AUXILIARY PANEL 2(SB)			

Photographs



Note: Auxiliary Panel 2(SB)



Note: Example of ½" bolt anchoring equipment to embedded plate

Attachment C Rev. 0 Page 346 of 516

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See Attachment K - Revision 1

¹ Enter the equipment class <u>name</u> from Appendix B: Classes of Equipment.

Enclosure to W3F1-2013-0024 Page 422 of1014

Attachment C Rev. 0 Page 347 of 516

Status: Y☐ N⊠ U☐
ntrol Panels
Y N U N/A
Y_ N_ U_
Y N U N/A
Y N U N/A
Y N U N/A
YO NO UO

See Attachment K - Revision 1

Page 348 of 516

Enclosure to W3F1-2013-0024 Page 423 of1014

> Sheet 3 of 4 Status: Y N U U Seismic Walkdown Checklist (SWC) SWEL1-084 Equipment No. IC ECP08 Equip. Class Instrumentation and Control Panels -OR- CP-08 Equipment Description Engineered Safeguard Control Panel CP8 Other Adverse Conditions 11. Have you looked for and found no other seismic conditions that could Y N U adversely affect the safety functions of the equipment? Comments (Additional pages may be added as necessary) Date: Evaluated by: ____

Attachment C Rev. 0 Page 349 of 516

Sheet 4 of 4				
				Status: Y☐ N⊠ U☐
Seismic Walkdo	wn Checklist (SWC)	SWEL1-0	<u> 184 </u>	
Equipment ID No.	IC ECP08	Equip. Clas	s Instrumentation and Co	ntrol Panels
	-OR- CP-08			
Equipment Descrip	tion Engineered Safeg	uard Control	Panel CP8	
Photographs				
Note:			Note:	
		<u></u>		

Sheet 1 of 4

0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Status: Y⊠ N⊟ U⊟
Seismic Walkdown Checklist (SWC) <u>SWEL1-085</u>	
Equipment ID No. <u>IC ECP22</u> Equip. Class <u>Instrumentation and C</u>	Control Panels
Equipment Description Core Protection Calculators	. 10/10/10
Location: Bldg. RAB Floor El. +46 Room, Area Room 304, C	ol. 9A, Line H
Manufacturer, Model, Etc. (optional but recommended)	
Instructions for Completing Checklist	
This checklist may be used to document the results of the Seismic Walkdown of SWEL. The space below each of the following questions may be used to record findings. Additional space is provided at the end of this checklist for documenting	the results of judgments and
Anchorage	
 1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Could only verify anchors on one side of the cabinet. Based on back side anchorage, front side anchorage is considered acceptable. 	Y□ N⊠
Is the anchorage free of bent, broken, missing or loose hardware? Visible anchorage is accounted for and in good condition.	Y⊠ N□ U□ N/A□
3. Is the anchorage free of corrosion that is more than mild surface oxidation?Visible anchorage is free of corrosion.	Y⊠ N□ U□ N/A□
4. Is the anchorage free of visible cracks in the concrete near the anchors? • No visible cracks on the concrete; concrete covered with	Y⊠ N□ U□ N/A□
▼ INC VISIDIE CLAUNS ON THE CONCLETE COVERED WITH	

carpeting

¹ Enter the equipment class <u>name</u> from Appendix B: Classes of Equipment.

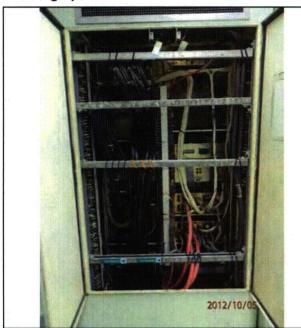
Seismic Walkdown Checklist (SWC)SWEL1-085	Status: Y⊠ N□ U□
Equipment ID No. IC ECP22 Equip. Class Instrumentation and C	Control Panala
	CONTROL Panels
Equipment Description Core Protection Calculators	
 Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) 	Y□ N□ U□ N/A⊠
Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Questions 2-4 satisfied; no seismic concern	Y⊠ N□ U□
Interaction Effects	
7. Are soft targets free from impact by nearby equipment or structures?	Y⊠ N□ U□ N/A□
Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	Y⊠ N□ U□ N/A□
9. Do attached lines have adequate flexibility to avoid damage?	Y⊠ N□ U□ N/A□
 10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Questions 7-9 satisfied 	Y⊠ N□ U□

Enclosure to W3F1-2013-0024 Page 427 of1014

Calanda Walladawa Chadalist (CWC) CWEL 4 005	Status: Y⊠ N⊟ U⊟
Seismic Walkdown Checklist (SWC) <u>SWEL1-085</u>	
Equipment ID No. IC ECP22 Equip. Class Instrumentation and C	ontrol Panels
Equipment Description Core Protection Calculators	
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□
 Bookcase near panel is anchored, satisfying requirements specified by IPEEE walkdowns. The anchorage calculation can be found in ECC95-005. 	
Comments (Additional pages may be added as necessary)	
For area walk-by checklist see AWC-032	
Evaluated by: Brian Pace	_ Date: <u>10-5-2012</u>
duckfold	
Dinesh Patel	_ 10-5-2012

Seismic Walkdov	vn Checklist (SWC)	SWEL1-085 Status: Y⊠ N□ U□	
Equipment ID No.	IC ECP22	Equip. Class Instrumentation and Control Panels	
Equipment Descript	ion Core Protection Ca	liculators	

Photographs



Note: Example of one of the four cabinets on ECP-22. A picture of the anchorage could not be made in order to not break the plane of the door, but it was determined to be in good condition. Notice the four unistruts. All are in good condition and bolted properly.



Note: Example of the front of ECP-22. All internals are well supported. Anchorage is not visible from this side.

Sheet 1 of 4

	Status: Y⊠ N⊟ U⊟
Seismic Walkdown Checklist (SWC) <u>SWEL1-086</u>	
Equipment ID No. IC ECP26 Equip. Class ¹ Instrumentation and 0	Control Panels
Equipment Description Process Analog Control Protective Channel B	
Location: Bldg. RAB Floor El. +46 Room, Area Room 304, C	Col. 8A, Line H
Manufacturer, Model, Etc. (optional but recommended) Westinghouse Electric	Corp., W8001
Instructions for Completing Checklist	
This checklist may be used to document the results of the Seismic Walkdown of SWEL. The space below each of the following questions may be used to record findings. Additional space is provided at the end of this checklist for documenting	the results of judgments and
Anchorage	
1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?	Y□ N⊠
 Item not one of the 50% of SWEL items requiring anchorage configuration verification 	
 2. Is the anchorage free of bent, broken, missing or loose hardware? All anchorage is accounted for and in good condition 	Y⊠ N□ U□ N/A□
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	Y⊠ N□ U□ N/A□
All anchorage is free of corrosion	
Is the anchorage free of visible cracks in the concrete near the anchors?	Y⊠ N□ U□ N/A□
 No visible cracks in the concrete 	

¹ Enter the equipment class <u>name</u> from Appendix B: Classes of Equipment.

	Status: Y⊠ N⊟ U⊟
Seismic Walkdown Checklist (SWC) <u>SWEL1-086</u>	
Equipment ID No. IC ECP26 Equip. Class Instrumentation and C	Control Panels
Equipment Description Process Analog Control Protective Channel B	
 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⊠
 Item not one of the 50% of SWEL items requiring anchorage configuration verification 	
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	Y⊠ N□ U□
 Questions 2-4 satisfied; no seismic concern 	
Interaction Effects	
7. Are soft targets free from impact by nearby equipment or structures?	Y⊠ N□ U□ N/A□
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	Y⊠ N□ U□ N/A□
and masonly block wans not likely to conapse onto the equipment:	
Do attached lines have adequate flexibility to avoid damage?	Y⊠ N□ U□ N/A□
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	Y⊠ N□ U□
 Questions 7-9 satisfied. 	

Status: YX N U
Equipment ID No. IC ECP26 Equip. Class Instrumentation and Control Panels
Equipment Description Process Analog Control Protective Channel B
Other Adverse Conditions
11. Have you looked for and found no other seismic conditions that could Y⊠ N□ U□ adversely affect the safety functions of the equipment?
Comments (Additional pages may be added as necessary) Verified that issues discussed in IPEEE document have been resolved. Cabinets are now bolted together (see photo). For area walk-by checklist see AWC-032
dnikpahi
Evaluated by: Dinesh Patel Date: 10-05-2012
Brian Pace Brian Pace 10-05-2012

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Status:		I VI	U

Page 357 of 516

Seismic Walkdown Checklist (SWC) SWEL1-086

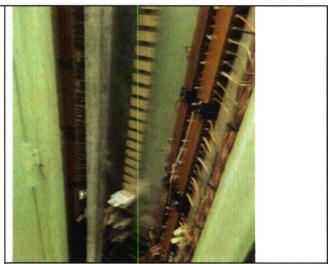
Equipment ID No. IC ECP26 Equip. Class Instrumentation and Control Panels

Equipment Description Process Analog Control Protective Channel B

Photographs



Note: Back side of ECP-26



Note: Front side of ECP-26



Note: Cabinets are now bolted together

Page 358 of 516

Sheet 1 of 4

Status: YX N U
Equipment ID No. IC ELCP61 Equip. Class: Instrumentation and Control Panels
-OR- LCP-61
Equipment Description Local Control Panel PAC LCP-61
Location: Bldg. RAB Floor El. +21 Room, Area Room 212A, Col. 9A
Manufacturer, Model, Etc. (optional but recommended)
Instructions for Completing Checklist
This checklist may be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.
Anchorage
 Is the anchorage configuration verification required (i.e., is the item one Y∑ N☐ of the 50% of SWEL items requiring such verification)?
2. Is the anchorage free of bent, broken, missing or loose hardware? Y⊠ N□ U□ N/A□ All welds accounted for and in good condition
3. Is the anchorage free of corrosion that is more than mild surface Y⊠ N□ U□ N/A□ oxidation? • Anchorage free of corrosion
4. Is the anchorage free of visible cracks in the concrete near the anchors? ■ No visible cracks in the concrete

¹ Enter the equipment class <u>name</u> from Appendix B: Classes of Equipment.

Seismic Walkdown Checklist (SWC) _ SWEL1-087	Status: Y⊠ N□ U□
Equipment ID No. IC ELCP61 Equip. Class Instrumentation and C	Control Panels
-OR- LCP-61	
Equipment Description Local Control Panel PAC LCP-61	
 Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) 	Y⊠ N□ U□ N/A□
 Anchorage configuration consistent with plant documentation (IPEEE pg. E-74) 	
Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	Y⊠ N□ U□
No seismic concern	
Interaction Effects 7. Are soft targets free from impact by nearby equipment or structures?	Y⊠ N□ U□ N/A□
Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	Y⊠ N□ U□ N/A□
 9. Do attached lines have adequate flexibility to avoid damage? Conduits rigidly attached to equipment are acceptable per drawing no. B288 sh. 19-1 	Y⊠ N□ U□ N/A□
Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	Y⊠ N□ U□

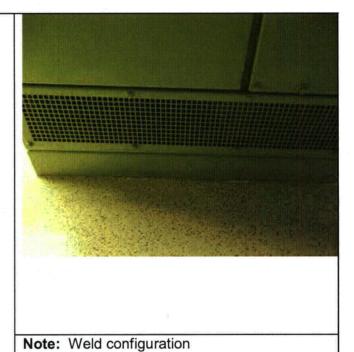
	Status: Y⊠ N∐ U∐			
Seismic Walkdown Checklist (SWC) <u>SWEL1-087</u>				
Equipment ID No. IC ELCP61 Equip. Class Instrumentation and C	Control Panels			
-OR- LCP-61				
Equipment Description Local Control Panel PAC LCP-61				
Other Adverse Conditions				
Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment?	Y⊠ N□ U□			
<u>Comments</u> (Additional pages may be added as necessary)				
 For area walk-by checklist see AWC-016 				
Evaluated by: Natalie George	<u>10/4/12</u> .			
Chu-Chieh Lin	10/4/12			

Seismic Walkdo	wn Checklist (SWC)	The state of the s	⊠ N□ U□
Equipment ID No.	IC ELCP61	Equip. Class Instrumentation and Control Panels	
	-OR- LCP-61		
Equipment Descrip	tion Local Control Pane	PAC LCP-61	

Photographs



Note: Local Control Panel PAC LCP-61



Sheet 1 of 4

	Status: Y⊠ N⊟ U⊟
Seismic Walkdown Checklist (SWC) <u>SWEL1-088</u>	
Equipment ID No. RFRECP3311-3B Equip. Class Instrumentation and Co	ontrol Panels
Equipment Description Water Chiller Compressor Control Panel 3B	
Location: Bldg. RAB Floor El. +46 Room, Area Room 299, Col	I. 3A, Line K
Manufacturer, Model, Etc. (optional but recommended) Carrier Corp., 24991800)
Instructions for Completing Checklist	
This checklist may be used to document the results of the Seismic Walkdown of an SWEL. The space below each of the following questions may be used to record the findings. Additional space is provided at the end of this checklist for documenting of	e results of judgments and
Anchorage	
Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?	Y⊠ N□
Is the anchorage free of bent, broken, missing or loose hardware? All welds and bolts are accounted for and in good condition	Y⊠ N□ U□ N/A□
Is the anchorage free of corrosion that is more than mild surface oxidation? Anchorage is free of corrosion	Y⊠ N□ U□ N/A□
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Y⊠ N□ U□ N/A□
 Equipment welded to chiller skid, no visible cracks in the chiller skid concrete pad 	

¹ Enter the equipment class <u>name</u> from Appendix B: Classes of Equipment.

	Status: Y⊠ N⊟ U⊟
Seismic Walkdown Checklist (SWC) <u>SWEL1-088</u>	
Equipment ID No. RFRECP3311-3B Equip. Class Instrumentation and C	ontrol Panels
Equipment Description Water Chiller Compressor Control Panel 3B	<u></u>
 Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) 	Y⊠ N□ U□ N/A□
 Anchorage configuration consistent with plant documentation (IPEEE pg. E-43) 	
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	Y⊠ N□ U□
No seismic concern	
Interaction Effects	
7. Are soft targets free from impact by nearby equipment or structures?	Y⊠ N□ U□ N/A□
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	Y⊠ N□ U□ N/A□
Do attached lines have adequate flexibility to avoid damage?	Y⊠ N□ U□ N/A□
5. Do attached lines have adequate hexibility to avoid damage:	
10. Recod on the above exismic interaction evaluations, is equipment free	Y⊠ N□ U□
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	

Salamia Walkdawa Charklist (SMC) SWEL 1 000	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) <u>SWEL1-088</u> Equipment ID No. <u>RFRECP3311-3B</u> Equip. Class <u>Instrumentation and C</u>	Control Panels
Equipment Description Water Chiller Compressor Control Panel 3B	
Other Adverse Conditions	
11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment?	Y⊠ N□ U□
Comments (Additional pages may be added as necessary)	
 For area walk-by checklist see AWC-037 	
Mottatti George Evaluated by: Natalie George	Date: <u>10/15/12</u>
Chu-Chieh Lin	10/15/12

	Administration of the		0.000
04-4		N.I	1.1
Status:	YIXI	IVI I	UI

Page 365 of 516

Seismic Walkdown Checklist (SWC) SWEL1-088

Favir and ID No. DEDECORO244 2B Favir Class Instrumentati

Equipment ID No. RFRECP3311-3B Equip. Class Instrumentation and Control Panels

Equipment Description Water Chiller Compressor Control Panel 3B

Photographs



Note: Water Chiller Compressor Control Panel 3B



Note: Water Chiller Compressor Control Panel 3B Weld to Chiller skid

Sheet 1 of 4

Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) <u>SWEL1-089</u>
Equipment ID No. BAMMTNK0001-A Equip. Class Tanks and Heat Exchangers
Equipment Description Boric Acid Makeup Tank A (Stores boric acid for normal or emergency supply to the reactor coolant system)
Location: Bldg. RAB Floor El35 Room, Area B38, Col. 5A, Line H
Manufacturer, Model, Etc. (optional but recommended) C-E Airpreheater (Built by C-E Avery),
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 Y□ N☒ of the 50% of SWEL items requiring such verification)? Anchor bolts are covered with insulation. Since bolts cannot be
seen, anchorage cannot be verified with plant documentation.
2. Is the anchorage free of bent, broken, missing or loose hardware? Y⊠ N□ U□ N/A□
One bolt has its insulation covering broken.
Other bolts are not visible.
 This visible bolt is not bent, broken, missing, or loose.
 Other bolts have insulation in good condition and bolts are assumed to also be in good condition.
3. Is the anchorage free of corrosion that is more than mild surface Y N U N V N V N V N V V N V V N V V N V V N V V V N V
 The exposed bolt has mild surface corrosion (boric acid).
 This corrosion is on the surface and not a concern. Other bolts are assumed to be in similar or better condition.
4. Is the anchorage free of visible cracks in the concrete near the anchors? Y∑ N□ U□ N/A□
No visible cracks in concrete surrounding anchorage

Seismic Walkdown Checklist (SWC)SWEL1-089	Status: Y⊠ N□ U□
Equipment ID No. BAMMTNK0001-A Equip. Class Tanks and Heat Excha	angers
Equipment Description Boric Acid Makeup Tank A (Stores boric acid for normal reactor coolant system)	or emergency supply to the
 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.) See #1. 	Y□ N□ U□ N/A⊠
 6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Questions 2-4 satisfied. 	Y⊠ N□ U□
Interaction Effects	
7. Are soft targets free from impact by nearby equipment or structures?	Y⊠ N□ U□ N/A□
Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	Y⊠ N□ U□ N/A□
9. Do attached lines have adequate flexibility to avoid damage?	Y⊠ N□ U□ N/A□
 10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Questions 7-9 satisfied. 	Y⊠ N□ U□

Seismic Walkdown Checklist (SWC) <u>SWEL1-089</u> Status: Y N U U
Equipment ID No. BAMMTNK0001-A Equip. Class Tanks and Heat Exchangers
Equipment Description Boric Acid Makeup Tank A (Stores boric acid for normal or emergency supply to the reactor coolant system)
Other Adverse Conditions
11. Have you looked for and found no other seismic conditions that could Y⊠ N□ U□ adversely affect the safety functions of the equipment?
 Comments (Additional pages may be added as necessary) CR-WF3-2012-05046 and WR-286685 initiated to address the missing anchor bolt insulation cover and the bolt's corrosion. Insulation clips missing (3 of 8); no seismic concern CR-WF3-2012-05046 and WR 286685 initiated to address missing insulation clips (3 of 8) For area walk-by checklist see AWC-005
Evaluated by: Dinesh Patel Date: 10/3/12 Brian Pace 10/3/12

Seismic Walkdov	wn Checklist (SWC) _.		Status: Y⊠ N□ U□
Equipment ID No.	BAMMTNK0001-A	Equip. Class Tanks and Heat Exchange	ers
Equipment Descript	ion Boric Acid Makeup reactor coolant sys	Tank A (Stores boric acid for normal or estem)	emergency supply to the

Photographs



Note: Insulation cover on one anchor bolt is missing; anchor bolt has mild surface corrosion (boric acid)



Note: Insulation clips missing (3 of 8)

Sheet 1 of 4

Seismic Walkdown Checklist (SWC) SWEL1-090	Status: Y⊠ N□ U□
Seisiffic Walkdown Checklist (SWC)	
Equipment ID No. <u>CC MHX0001-A</u> Equip. Class <u>Tanks and Heat Exch</u>	angers
Equipment Description Component Cooling Water Heat Exchanger A	
Location: Bldg. RAB Floor El. +21 Room, Area Room 220, C	ol 2A, Line K
Manufacturer, Model, Etc. (optional but recommended) <u>Struthers Wells Corporation</u>	ration, YEAR-1976
Instructions for Completing Checklist	
This checklist may be used to document the results of the Seismic Walkdown of SWEL. The space below each of the following questions may be used to record findings. Additional space is provided at the end of this checklist for documenting	the results of judgments and
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□
Is the anchorage free of bent, broken, missing or loose hardware? All anchorage is accounted for and in good condition	Y⊠ N□ U□ N/A□
 3. Is the anchorage free of corrosion that is more than mild surface oxidation? Anchorage free of corrosion, painted 	Y⊠ N□ U□ N/A□
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Y⊠ N□ U□ N/A□

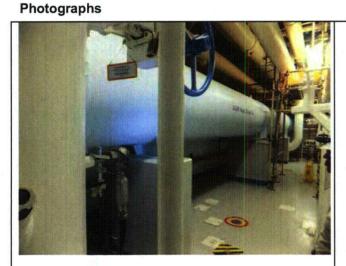
No visible cracks in concrete

¹ Enter the equipment class <u>name</u> from Appendix B: Classes of Equipment.

Soiomia Walkdown Chacklist (SWC) SWEL1 000	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) <u>SWEL1-090</u>	
Equipment ID No. <u>CC MHX0001-A</u> Equip. Class <u>Tanks and Heat Excha</u>	angers
Equipment Description Component Cooling Water Heat Exchanger 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.) 	Y⊠ N□ U□ N/A□
 Anchorage consistent with plant documentation (Drawing no. 1564-1466 and IPEEE pg. E-68) 	
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	Y⊠ N□ U□
 Questions 2-5 are satisfied; no seismic concern 	
Interaction Effects	
7. Are soft targets free from impact by nearby equipment or structures?	Y⊠ N□ U□ N/A□
8. Are overhead equipment, distribution systems, ceiling tiles and lighting,	Y⊠ N□ U□ N/A□
and masonry block walls not likely to collapse onto the equipment?	
9. Do attached lines have adequate flexibility to avoid damage?	Y⊠ N□ U□ N/A□
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	Y⊠ N□ U□
 Questions 7-9 are satisfied 	

	Status: Y⊠ N⊟ U⊟
Seismic Walkdown Checklist (SWC) <u>SWEL1-090</u>	
Equipment ID No. CC MHX0001-A Equip. Class Tanks and Heat Excha	ngers
Equipment Description Component Cooling Water Heat Exchanger A	
Other Adverse Conditions	
11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment?	Y⊠ N□ U□
Comments (Additional pages may be added as necessary)	
 For area walk-by checklist see AWC-023 	v
dmikpah]	D-1 40/4/0040
Evaluated by: Dinesh Patel	Date: 10/4/2012
Buan & Pan	
Brian Pace	10/4/2012

Seismic Walkdo	wn Checklist (SWC)		tatus:	Y⊠ N□	U
Equipment ID No.	CC MHX0001-A	Equip. Class_Tanks and Heat Exchangers	3		



Equipment Description Component Cooling Water Heat Exchanger A

Note: Component Cooling Water Heat Exchanger A



Note: Component Cooling Water Heat Exchanger A anchorage

Sheet 1 of 4

	Status: Y⊠ N⊟ U⊟
Seismic Walkdown Checklist (SWC) <u>SWEL1-091</u>	
Equipment ID No. CC MTNK0001-C Equip. Class TANKS AND HEAT E	XCHANGERS
Equipment Description COMPONENT COOLING WATER SURGE TANK	<u></u>
Location: Bldg. RAB Floor El. +91 Room, Area 417, COL 1A	, LINE K
Manufacturer, Model, Etc. (optional but recommended) BETHLEHEM STEEL,	15644554
Instructions for Completing Checklist	
This checklist may be used to document the results of the Seismic Walkdown of SWEL. The space below each of the following questions may be used to record findings. Additional space is provided at the end of this checklist for documenting	the results of judgments and
Anchorage	
1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?	Y⊠ N□
 2. Is the anchorage free of bent, broken, missing or loose hardware? All four anchor bolts are free of any bent, broken, missing, or loose hardware. Tank is well supported. 	Y⊠ N□ U□ N/A□
3. Is the anchorage free of corrosion that is more than mild surface oxidation?All anchors are free of corrosion.	Y⊠ N□ U□ N/A□
Is the anchorage free of visible cracks in the concrete near the anchors?	Y⊠ N□ U□ N/A□
 Anchors are mounted onto concrete floor. No visible cracks are in the concrete. 	

¹ Enter the equipment class <u>name</u> from Appendix B: Classes of Equipment.

0 :- : 10 11 11 01 11 11 1 10 110 110 11	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) SWEL1-091	
Equipment ID No. <u>CC MTNK0001-C</u> Equip. Class <u>TANKS AND HEAT E</u>	XCHANGERS
Equipment Description COMPONENT COOLING WATER SURGE TANK	
 Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) 	Y⊠ N□ U□ N/A□
 Anchorage configuration is consistent with plant documentation. See drawing G574, S05. 	
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	Y⊠ N□ U□
 Questions 2-5 are satisfied; no seismic concern 	
Interaction Effects	
7. Are soft targets free from impact by nearby equipment or structures?	Y⊠ N□ U□ N/A□
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	Y⊠ N□ U□ N/A□
Do attached lines have adequate flexibility to avoid damage?	Y⊠ N□ U□ N/A□
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	Y⊠ N□ U□
 Questions 7-9 are satisfied 	

Seismic Walkdown Checklist (SWC) SWEL1-091	Status: Y⊠ N∐ U∏		
Equipment ID No. CC MTNK0001-C Equip. Class TANKS AND HEAT EXCHANGERS			
Equipment Description COMPONENT COOLING WATER SURGE TANK			
Other Adverse Conditions			
Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment?	Y⊠ N□ U□		
Comments (Additional pages may be added as necessary) • For area walk-by checklist see AWC-040			
	•		
Evaluated by: Brian Pace Evaluated by: Brian Pace	_ Date: 10-08-2012		
Amilpali)			
Dinesh Patel	_ 10-08-2012		

Status:		N 1	
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Otatas.	1 1/2 1/3		0

Seismic Walkdown Checklist (SWC) SWEL1-091

Equipment ID No. CC MTNK0001-C Equip. Class TANKS AND HEAT EXCHANGERS

Equipment Description COMPONENT COOLING WATER SURGE TANK

Photographs



Note: Component Cooling Water Surge Tank



Note: Example of satisfactory anchorage of the tank

Page 378 of 516

Sheet 1 of 5

Status: Y⊠ N⊡ U⊡
Seismic Walkdown Checklist (SWC) <u>SWEL1-092</u>
Equipment ID No. CS MHX0001-A Equip. Class ¹ Tanks and Heat Exchangers
Equipment Description Shutdown Cooling Heat Exchanger A
Location: Bldg. RAB Floor El35 Room, Area Room B48, Col. 11A, Line J
Manufacturer, Model, Etc. (optional but recommended) Engineers and Fabricators Company (EFCO)
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
 Is the anchorage configuration verification required (i.e., is the item one Y⊠ N□ of the 50% of SWEL items requiring such verification)?
2. Is the anchorage free of bent, broken, missing or loose hardware? Y⊠ N□ U□ N/A□ All anchorage is accounted for and in good condition
 3. Is the anchorage free of corrosion that is more than mild surface oxidation? No corrosion on anchorage Anchorage is painted
4. Is the anchorage free of visible cracks in the concrete near the anchors?

No visible cracks in concrete

¹ Enter the equipment class <u>name</u> from Appendix B; Classes of Equipment.

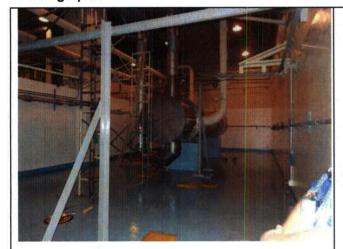
	Status: Y⊠ N⊟ U⊟
Seismic Walkdown Checklist (SWC) <u>SWEL1-092</u>	
Equipment ID No. CS MHX0001-A Equip. Class Tanks and Heat Exch	angers
Equipment Description Shutdown Cooling Heat Exchanger A	
 Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) 	Y⊠ N□ U□ N/A□
 Anchorage configuration consistent with plant documentation (General arrangement drawing G501, sh. 1 and IPEEE pg. E-87) 	
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	Y⊠ N□ U□
Question 2-5 satisfied	
Interaction Effects	
7. Are soft targets free from impact by nearby equipment or structures?	Y⊠ N□ U□ N/A□
Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	Y⊠ N□ U□ N/A□
9. Do attached lines have adequate flexibility to avoid damage?	Y⊠ N□ U□ N/A□
 10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Question 7-9 satisfied 	Y⊠ N□ U□

Status Seismic Walkdown Checklist (SWC) SWEL1-092	s: Y⊠ N□ U□
Equipment ID No. CS MHX0001-A Equip. Class Tanks and Heat Exchangers	
Equipment Description Shutdown Cooling Heat Exchanger A	
Other Adverse Conditions	
11. Have you looked for and found no other seismic conditions that could Y⊠ N☐ adversely affect the safety functions of the equipment?] ∪□
Comments (Additional pages may be added as necessary) 2 insulation clips open or loose on top, front end; no seismic concern For area walk-by checklist see AWC-006	
Evaluated by: Dinesh Patel Date: 10	D/3/12
Burn & Para	0/3/12

Sheet 4 of 5

Seismic Walkdown Checklist (SWC) <u>SWEL1-092</u>	Status: Y⊠	N_ U_
Equipment ID No. CS MHX0001-A Equip. Class Tanks and Heat Exchar	igers	
Equipment Description Shutdown Cooling Heat Exchanger A		

Photographs



Note: Shutdown Cooling Heat Exchanger A



Note: Anchorage of Shutdown Cooling Heat Exchanger A

Sheet 5 of 5

Seismic Walkdow	vn Checklist (SWC)		s: Y⊠	N_ U_
Equipment ID No.	CS MHX0001-A	Equip. Class Tanks and Heat Exchangers		
Equipment Descripti	on Shutdown Cooling	Heat Exchanger A		

Photographs



Note: 2 insulation clips open or loose on top, front end

Page 383 of 516

Sheet 1 of 5

Status: Y⊠ N⊟ U⊑
Seismic Walkdown Checklist (SWC) <u>SWEL1-093</u>
Equipment ID No. <u>EGFMTNK0001-A</u> Equip. Class¹_TANKS AND HEAT EXCHANGERS
Equipment Description FUEL OIL STORAGE TANK A
Location: Bldg. RB Floor El35 Room, Area COL 1A, LINE L
Manufacturer, Model, Etc. (optional but recommended)
Instructions for Completing Checklist
This checklist may be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.
Anchorage
 Is the anchorage configuration verification required (i.e., is the item one Y⊠ N□ of the 50% of SWEL items requiring such verification)?
2. Is the anchorage free of bent, broken, missing or loose hardware? Y∑ N☐ U☐ N/A☐
 Tank anchorage is free of bent, broken, missing, or loose hardware.
Is the anchorage free of corrosion that is more than mild surface Y⊠ N□ U□ N/A□ oxidation?
 One of the anchor bolts, and its surrounding area has mild surface corrosion. This poses no seismic concern.
4. Is the anchorage free of visible cracks in the concrete near the anchors? Y⊠ N□ U□ N/A□ anchors?

No visible cracks in the concrete.

¹ Enter the equipment class <u>name</u> from Appendix B: Classes of Equipment.

Page 384 of 516

	Status: Y⊠ N⊟ U⊟
Seismic Walkdown Checklist (SWC) <u>SWEL1-093</u>	
Equipment ID No. <u>EGFMTNK0001-A</u> Equip. Class <u>TANKS AND HEAT E</u>	XCHANGERS
Equipment Description FUEL OIL STORAGE TANK 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.) 	Y⊠ N□ U□ N/A□
 Anchorage configuration consistent with plant documentation; see anchorage detail on drawing G501 sh. 2 	
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	Y⊠ N□ U□
 Questions 2-5 satisfied; no seismic concerns 	
Interaction Effects	
7. Are soft targets free from impact by nearby equipment or structures?	Y⊠ N□ U□ N/A□
Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	Y⊠ N□ U□ N/A□
9. Do attached lines have adequate flexibility to avoid damage?	Y⊠ N□ U□ N/A□
 10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Questions 7-9 satisfied 	Y⊠ N□ U□

Sheet 3 of 5

	Status: Y⊠ N⊟ U⊟
Seismic Walkdown Checklist (SWC) <u>SWEL1-093</u>	
Equipment ID No. <u>EGFMTNK0001-A</u> Equip. Class <u>TANKS AND HEAT EX</u>	CHANGERS
Equipment Description FUEL OIL STORAGE TANK A	
Other Adverse Conditions	
11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment?	Y⊠ N□ U□
Comments (Additional pages may be added as necessary)	
WO-50074 from April 2005 references a leak from the flange gask	cet: no seismic concern.
Mild surface corrosion on manhole cover, anchor bolt, and anchor	
seismic concern	μ,
 CR-WF3-2012-05275 and WR-287635 initiated to address all corr 	osion conditions.
 For area walk-by checklist see AWC-029 	
Evaluated by: Brian Pace Bush France	Date: <u>10-5-2012</u>
dmikpali	
Dinesh Patel	10-5-2012

Sheet 4 of 5

Status:	$Y \boxtimes$	$N\square$	U

Seismic Walkdown Checklist (SWC) SWEL1-093

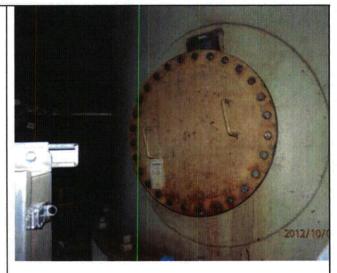
Equipment ID No. <u>EGFMTNK0001-A</u> Equip. Class <u>TANKS AND HEAT EXCHANGERS</u>

Equipment Description FUEL OIL STORAGE TANK A

Photographs



Note: Mild surface corrosion on anchor bolt and stiffener plate



Note: Mild surface corrosion on manhole cover

Sheet 5 of 5

Status:	1/1/	N I	1.1
Status:	YIXI	NI I	

Seismic Walkdown Checklist (SWC) SWEL1-093

Equipment ID No. EGFMTNK0001-A Equip. Class TANKS AND HEAT EXCHANGERS

Equipment Description FUEL OIL STORAGE TANK A



Note: Example of the good condition of the anchor bolts for the Diesel Oil Storage Tank A

Page 388 of 516

Sheet 1 of 4

	Status: Y⊠ N⊟ U⊟
Seismic Walkdown Checklist (SWC) <u>SWEL1-094</u>	
Equipment ID No. NG MACC0003 Equip. Class Tanks and Heat Exch	angers
Equipment Description Nitrogen Accumulator #3	
Location: Bldg. RAB Floor El. +21 Room, Area Room 219, C	ol. 5A, Line L
Manufacturer, Model, Etc. (optional but recommended) Dravo Corp.	
Instructions for Completing Checklist	
This checklist may be used to document the results of the Seismic Walkdown of SWEL. The space below each of the following questions may be used to record findings. Additional space is provided at the end of this checklist for documenting	the results of judgments and
Anchorage	
1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?	Y⊠ N□
 2. Is the anchorage free of bent, broken, missing or loose hardware? Welds are in good condition 	Y⊠ N□ U□ N/A□
 3. Is the anchorage free of corrosion that is more than mild surface oxidation? No corrosion on welds 	Y⊠ N□ U□ N/A□
Is the anchorage free of visible cracks in the concrete near the anchors?	Y⊠ N□ U□ N/A□
 Legs are welded to embedded plates; no cracks in concrete 	

around embedded plates

¹ Enter the equipment class <u>name</u> from Appendix B: Classes of Equipment.

Enclosure to W3F1-2013-0024 Page 464 of1014

Seismic Walkdown Checklist (SWC) SWEL1-094	Status: Y⊠ N∐ U∐
Seisiffic Walkdown Checklist (SWC)SWEL1-094	
Equipment ID No. NG MACC0003 Equip. Class Tanks and Heat Excha	angers
Equipment Description Nitrogen Accumulator #3	<u> </u>
 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 is consistent with IPEEE pg. E-14 	Y⊠ N□ U□ N/A□
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	Y⊠ N□ U□
Interaction Effects 7. Are soft targets free from impact by nearby equipment or structures?	Y⊠ N□ U□ N/A□
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	Y⊠ N□ U□ N/A□
Do attached lines have adequate flexibility to avoid damage?	Y⊠ N□ U□ N/A□
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	Y⊠ N□ U□

Enclosure to W3F1-2013-0024 Page 465 of1014

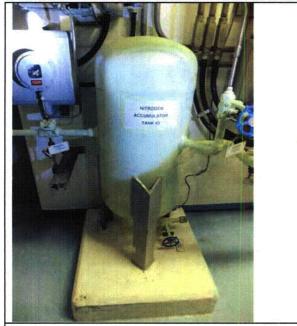
Sheet 3 of 4

	Status: Y⊠ N⊟ U⊟
Seismic Walkdown Checklist (SWC) <u>SWEL1-094</u>	
Equipment ID No. NG MACC0003 Equip. Class Tanks and Heat Exch	angers
Equipment Description <u>Nitrogen Accumulator #3</u>	
Other Adverse Conditions	
11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment?	Y⊠ N□ U□
Comments (Additional pages may be added as necessary)	
For area walk-by checklist see AWC-021	
Evaluated by: Dinesh Patel	_ Date: 10/4/12
<u> </u>	
1 Jatati Genge	
Natalie George 0	10/4/12

Sheet 4 of 4

Seismic Walkdown Checklist (SWC)		Status: Y⊠ N□ U□
Equipment ID No. NG MACC0003	Equip. Class Tanks and Heat Exchange	ers
Equipment Description Nitrogen Accumula	tor #3	

Photographs



Note: Nitrogen Accumulator #3



Note: Welds at base of leg

Page 392 of 516

Sheet 1 of 4

	Status: Y⊠ N⊟ U⊟
Seismic Walkdown Checklist (SWC) <u>SWEL1-095</u>	
Equipment ID No. <u>EGAMCMP0002-A</u> Equip. Class¹ <u>Air Compressors</u>	
Equipment Description EG A Air Compressor A2	
Location: Bldg. RAB Floor El. +21 Room, Area Room 221, C	ol. 3A, Line J
Manufacturer, Model, Etc. (optional but recommended) Kellogg-American Inc.	, 352TV
Instructions for Completing Checklist	
This checklist may be used to document the results of the Seismic Walkdown of SWEL. The space below each of the following questions may be used to record findings. Additional space is provided at the end of this checklist for documenting	the results of judgments and
Anchorage	
 Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? 	Y□ N⊠
 EG A Air Compressor A2 is bolted to top of EGA Air Receiver A2 	
2. Is the anchorage free of bent, broken, missing or loose hardware?	Y⊠ N□ U□ N/A□
All anchorage accounted for and in good shape	
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	Y⊠ N□ U□ N/A□
No corrosion	
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Y⊠ N□ U□ N/A□
 EG A Air Compressor A2 is bolted to top of EGA Air Receiver 	

A2; no cracks in concrete near receiver anchorage

¹ Enter the equipment class <u>name</u> from Appendix B: Classes of Equipment.

	Status: Y⊠ N⊟ U⊟
Seismic Walkdown Checklist (SWC) <u>SWEL1-095</u>	
Equipment ID No. <u>EGAMCMP0002-A</u> Equip. Class <u>Air Compressors</u>	· · · · · · · · · · · · · · · · · · ·
Equipment Description EG A Air Compressor A2	
 Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) 	Y□ N□ U□ N/A⊠
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	Y⊠ N□ U□
No seismic concern	
Interaction Effects	
7. Are soft targets free from impact by nearby equipment or structures?	Y⊠ N□ U□ N/A□
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	Y⊠ N□ U□ N/A□
	•
ı	
9. Do attached lines have adequate flexibility to avoid damage?	Y⊠ N□ U□ N/A□
10. Based on the above seismic interaction evaluations, is equipment free	Y⊠ N□ U□
of potentially adverse seismic interaction effects?	

Enclosure to W3F1-2013-0024 Page 469 of1014

Sheet 3 of 4

	Status: Y⊠ N⊟ U⊟
Seismic Walkdown Checklist (SWC) <u>SWEL1-095</u>	
Equipment ID No. EGAMCMP0002-A Equip. Class Air Compressors	·····
Equipment Description EG A Air Compressor A2	
Other Adverse Conditions	
11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment?	Y⊠ N□ U□
Comments (Additional pages may be added as necessary) • For area walk-by checklist see AWC-045	
Motatu Genge Evaluated by: Natalie George	_ Date: <u>10/8/12</u>
Chu-Chieh Lin	10/8/12

Sheet 4 of 4

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Status:	YX	NI I	1 11

Page 395 of 516

Seismic Walkdown Checklist (SWC) SWEL1-095

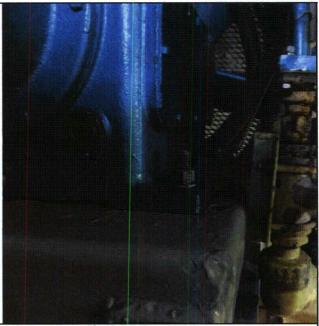
Equipment ID No. <u>EGAMCMP0002-A</u> Equip. Class <u>Air Compressors</u>

Equipment Description EG A Air Compressor A2

Photographs



Note: EG A Air Compressor A2



Note: EG A Air Compressor A2 anchorage to skid

Page 396 of 516

Sheet 1 of 4

Status: Y⊠ N⊡ U⊡
Seismic Walkdown Checklist (SWC) <u>SWEL1-096</u>
Equipment ID No. EGAMRCR0002-A Equip. Class ¹ Tanks and Heat Exchangers
Equipment Description (Air Receiver) EGA Air Receiver A2
Location: Bldg. RAB Floor El. +21 Room, Area Room 221, Col. 3A, Line K
Manufacturer, Model, Etc. (optional but recommended) Cooper Ind. Inc./Bessemer, 207V2410001
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
 Is the anchorage configuration verification required (i.e., is the item one Y⊠ N□ of the 50% of SWEL items requiring such verification)?
2. Is the anchorage free of bent, broken, missing or loose hardware? Y⊠ N□ U□ N/A□ All anchorage is accounted for and in good condition
3. Is the anchorage free of corrosion that is more than mild surface
 4. Is the anchorage free of visible cracks in the concrete near the anchors? No visible cracks in the concrete

¹ Enter the equipment class <u>name</u> from Appendix B: Classes of Equipment.

Enclosure to W3F1-2013-0024 Page 472 of1014

	Status: Y⊠ N⊟ U⊟
Seismic Walkdown Checklist (SWC) <u>SWEL1-096</u>	
Equipment ID No. EGAMRCR0002-A Equip. Class Tanks and Heat Excha	angers
Equipment Description (Air Receiver) EGA Air Receiver A2	
 Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) 	Y⊠ N□ U□ N/A□
 Anchorage configuration consistent with plant documentation (Drawing no. 1564-2060 and IPEEE pg. E-61) 	
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	Y⊠ N□ U□
No seismic concern	
Interaction Effects	
7. Are soft targets free from impact by nearby equipment or structures?	Y⊠ N□ U□ N/A□
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	Y⊠ N□ U□ N/A□
O. D. Marchad Brown born and a state of the Marchad Administration	
9. Do attached lines have adequate flexibility to avoid damage?	Y⊠ N□ U□ N/A□
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	Y⊠ N□ U□

Sheet 3 of 4

	Status: Y⊠ N⊟ U⊟			
Seismic Walkdown Checklist (SWC) <u>SWEL1-096</u>				
Equipment ID No. <u>EGAMRCR0002-A</u> Equip. Class <u>Tanks and Heat Exch</u>	angers			
Equipment Description (Air Receiver) EGA Air Receiver A2				
Other Adverse Conditions				
11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment?	Y⊠ N□ U□			
Comments (Additional pages may be added as necessary) • For area walk-by checklist see AWC-045				
Notati George				
Evaluated by: Natalie George	_ Date: <u>10/8/12</u>			
Chu-Chieh Lin	10/8/12			

Sheet 4 of 4

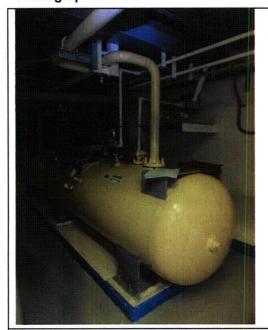
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Seismic Walkdown Checklist (SWC) SWEL1-096

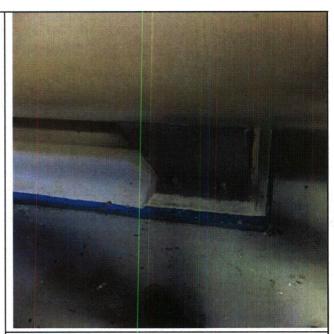
Equipment ID No. <u>EGAMRCR0002-A</u> Equip. Class <u>Tanks and Heat Exchangers</u>

Equipment Description (Air Receiver) EGA Air Receiver A2

Photographs



Note: EGA Air Receiver A2



Note: Example of EGA Air Receiver A2 anchorage

Enclosure to W3F1-2013-0024 Page 475 of1014

Sheet 1 of 4	
	Status: Y□ N⊠ U□
Seismic Walkdown Checklist (SWC) <u>SWEL1-097</u>	
Equipment D No. 4KVESWGR3B Equip. Class Medium Voltage, Metal-	Clad Switchgear
-OR- SWGR-3B3S	
Equipment Description Switchgear 3B	
Location: Bldg. RAB Floor El. +21 Room, Area Room 212, Col.	. 10A
Manufacturer, Model, Etc. (optional but recommended) General Electric Compar	ny, AM4163502H
Instructions for Completing Checklist	
This checklist may be used to document the results of the Seismic Walkdown of an SWEL. The space below each of the following questions may be used to record the findings. Additional space is provided at the end of this checklist for documenting or	e results of judgments and
Anchorage	
 Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? 	∕□ N⊠
Only opened panels 1-5, 12, and 15 The rest will be deferred until later when they are available.	
2. Is the anchorage free of bent, broken, missing or loose hardware?	′□ N□ U⊠ N/A□
Is the anchorage free of corrosion that is more than mild surface oxidation?	'□ N□ U⊠ N/A□
4. Is the anchorage free of visible cracks in the concrete near the anchors? Yellow the concrete near the anchors?	N□ U⊠ N/A□

See Attachment K - Revision 1

¹ Enter the equipment class <u>name</u> from Appendix B: Classes of Equipment.

Enclosure to W3F1-2013-0024 Page 476 of1014

Seismic Walkdo	wn Checklist (SWC) <u>SWEL1-097</u>	Status: Y☐ N⊠ U☐
Equipmen ND No.	4KVESWGR3B Equip. Class Medium Voltage, Met	al-Clad Switchgear
	-OR- SWGR-3B3S	
Equipment Descrip	tion Switchgear 3B	
(Note: This	prage configuration consistent with plant documentation? question only applies if the item is one of the 50% for which ge configuration verification is required.)	Y□ N⊠ U□ N/A□
	ne above anchorage evaluations, is the anchorage free of adverse seismic conditions?	Y□ N□ U⊠
Interaction Effects	<u>s</u>	
7. Are soft targ	gets free from impact by nearby equipment or structures?	Y⊠ N□ U□ N/A□
and mason	ad equipment, distribution systems, ceiling thes and lighting, ry block walls not likely to collapse onto the equipment? hting is in walk path. It is not over equipment.	Y⊠ N□ U□ N/A□
	d lines have adequate flexibility to avoid damage? lid conduits are attached, but are acceptable per B288, 9-1.	Y⊠ N□ U□ N/A□
of potentiall	ne above seismic interaction evaluations, is equipment free ly adverse seismic interaction effects? estions 7-9 verified.	Y⊠ N□ U□

Page 402 of 516

Enclosure to W3F1-2013-0024 Page 477 of1014

> Sheet 3 of 4 Status: Y N U U Seismi Walkdown Checklist (SWC) __SWEL1-097 Equip. Class Medium Voltage, Metal-Clad Switchgear Equipment IDNo. 4KVESWGR3B -OR- SWGR-3B3S Equipment Description Switchgear 3B Other Adverse Conditions 11. Have you looked for and found no other seismic conditions that could Y⊠ N□ U□ adversely affect the safety functions of the equipment? Comments (Additional pages may be added as necessary) Anchorage in panels that were opened is in good condition. All internals were well mounted. Panels 2 and 4 have two possibly missing bolts. Refer to photo. Date Evaluated by: Brian Pace 10-16-2012 <u>10-16-2012</u> Chu-Chieh Lin

Rev. 0 Page 403 of 516

Sheet 4 of 4
Status: Y N U
Equipment No. 4KVESWGR3B Equip. Class Medium Voltage, Metal-Clad Switchgear
-OR- SWGR-3B3S
Equipment Description Switchgear 3B
Photographs

Note: Possible missing bolts. They do not pose a seismic concern though.

Note:

Sheet 1 of 4

Status: Y □ N □ U □			
Seismic Walkdown Checklist (SWC) <u>SWEL2-001</u>			
Equipment ID No. FS EBKR314A-5D Equip. Class 1 Motor Control Centers and Wall-Mounted Contactors			
Equipment Description FUEL POOL PURIFICATION PUMP CIRCUIT BREAKER			
Location: Bldg. FHB Floor El. +1 Room, Area Room B151 Col 1FH, Line V			
Manufacturer, Model, Etc. (optional but recommended) Westinghouse Electric Corporation, HMCP050K2			
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			
 Is the anchorage configuration verification required (i.e., is the item one Y N N N N N N N N N N N N N N N N N N			
2. Is the anchorage free of bent, broken, missing or loose hardware? Y☐ N☐ U☐ N/A☐			
3. Is the anchorage free of corrosion that is more than mild surface Y☐ N☐ U☐ N/A☐ oxidation?			
4. Is the anchorage free of visible cracks in the concrete near the Y N U N/A anchors?			

¹ Enter the equipment class <u>name</u> from Appendix B: Classes of Equipment.

Enclosure to W3F1-2013-0024 Page 480 of1014

Colomia Malledona Chaoldiat (CMC) CMCI 2 004	Status: Y∐ N⊠ U∐
Seismic Walkdown Checklist (SWC) <u>SWEL2-001</u>	
Equipment ID No. FS EBKR314A-5D Equip. Class Motor Control Centers	and Wall-Mounted Contactors
Equipment Description FUEL POOL PURIFICATION PUMP CIRCUIT BREAKE	R
 Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) 	Y N U N/A
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	Y_ N_ U_
Interaction Effects	
7. Are soft targets free from impact by nearby equipment or structures?	Y N U N/A
Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	Y_ N_ U_ N/A_
9. Do attached lines have adequate flexibility to avoid damage?	Y_ N_ U_ N/A_
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	Y_ N_ U_

Engineering Report No. WF3-CS-12-00003 Attachment C Rev. 0 Page 406 of 516

Enclosure to W3F1-2013-0024 Page 481 of1014

Sheet 3 of 4

Seismic Walkdown Checklist (SWC) SWEL2-001	Status: Y NX U
Equipment ID No. FS EBKR314A-5D Equip. Class Motor Control Centers Equipment Description FUEL POOL PURIFICATION PUMP CIRCUIT BREAKE	
Equipment Description FOLL FOOL FOR FIGHT CIRCOTT BREAKE	17
Other Adverse Conditions	
11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment?	Y N U
Comments (Additional pages may be added as necessary)	
Evaluated by:	Date:

Sheet 4 of 4

Seismic Walkdown Checklist (SWC)SV		Y□ N⊠ U□
Equipment ID No. FS EBKR314A-5D Equi	Class_Motor Control Centers and Wall-Mc	ounted Contactors
Equipment Description <u>FUEL POOL PURIFICA</u>	ON PUMP CIRCUIT BREAKER	
Photographs		
}		
Note:	Note:	
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Engineering Report No. WF3-CS-12-00003 Attachment C Rev. 0 Page 408 of 516

Enclosure to W3F1-2013-0024 Page 483 of1014

Sheet 1 of 4

Status: Y☐ N⊠ U☐
Seismic Walkdown Checklist (SWC) <u>SWEL2-002</u>
Equipment ID No. FS EBKR314A-5M Equip. Class 1 Motor Control Centers and Wall-Mounted Contactors
Equipment Description Fuel Pool Pump A Circuit Breaker
Location: Bldg. FHB Floor El. +1 Room, Area Room B151, Col. 1FH, Line V
Manufacturer, Model, Etc. (optional but recommended) Westinghouse Electric Corporation, HMCP100R3
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
 Is the anchorage configuration verification required (i.e., is the item one Y N N N N N N N N N N N N N N N N N N
2. Is the anchorage free of bent, broken, missing or loose hardware? Y N U N/A
3. Is the anchorage free of corrosion that is more than mild surface Y□ N□ U□ N/A□ oxidation?
4. Is the anchorage free of visible cracks in the concrete near the anchors? Y□ N□ U□ N/A□ anchors?

¹ Enter the equipment class <u>name</u> from Appendix B: Classes of Equipment.

Enclosure to W3F1-2013-0024 Page 484 of1014

	Status: Y∐ N⊠ U∐
Seismic Walkdown Checklist (SWC) <u>SWEL2-002</u>	
Equipment ID No. FS EBKR314A-5M Equip. Class Motor Control Centers	and Wall-Mounted Contactors
Equipment Description Fuel Pool Pump A Circuit Breaker	<u></u>
 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
Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	Y N U
Interaction Effects	
7. Are soft targets free from impact by nearby equipment or structures?	Y N U N/A
Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	Y_ N_ U_ N/A_
9. Do attached lines have adequate flexibility to avoid damage?	Y N U N/A
Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	Y_ N_ U_

Engineering Report No. WF3-CS-12-00003 Attachment C Rev. 0 Page 410 of 516

Enclosure to W3F1-2013-0024 Page 485 of1014

Sheet 3 of 4

Status: Y NE UL Seismic Walkdown Checklist (SWC) SWEL2-002	_
Equipment ID No. FS EBKR314A-5M Equip. Class Motor Control Centers and Wall-Mounted Contact	ors
Equipment Description Fuel Pool Pump A Circuit Breaker	
Other Adverse Conditions	
11. Have you looked for and found no other seismic conditions that could Y N U U adversely affect the safety functions of the equipment?	
<u>Comments</u> (Additional pages may be added as necessary)	
Evaluated by: Date:	

Engineering Report No. WF3-CS-12-00003 Attachment C Rev. 0 Page 411 of 516

Enclosure to W3F1-2013-0024 Page 486 of1014

Sheet 4 of 4

Seismic Walkdown Checklist (SWC) <u>SWEL2</u>	Status: Y☐ N⊠ U☐
	ass Motor Control Centers and Wall-Mounted Contactors
Equipment Description Fuel Pool Pump A Circuit Bre	eaker_
Photographs	
Note:	Note:

Enclosure to W3F1-2013-0024 Page 487 of1014

Sheet 1 of 4

Status: Y N U
Seismic Walkdown Checklist (SWC) <u>SWEL2-003</u>
Equipment ID No. FS EBKR314B-6F Equip. Class Motor Control Centers and Wall-Mounted Contactors
Equipment Description REFUELING CANAL DRAIN PUMP CIRCUIT BREAKER
Location: Bldg. FHB Floor El. +1 Room, Area Room B151, Col. 2FH, Line W
Manufacturer, Model, Etc. (optional but recommended) Westinghouse Electric Corp., HMCP030H1
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
 Is the anchorage configuration verification required (i.e., is the item one Y N☐ N☐ of the 50% of SWEL items requiring such verification)?
2. Is the anchorage free of bent, broken, missing or loose hardware? Y☐ N☐ U☐ N/A☐
Is the anchorage free of corrosion that is more than mild surface
4. Is the anchorage free of visible cracks in the concrete near the Y☐ N☐ U☐ N/A☐ anchors?

¹ Enter the equipment class <u>name</u> from Appendix B: Classes of Equipment.

Enclosure to W3F1-2013-0024 Page 488 of1014

Seismic Walkdown Checklist (SWC)SWEL2-003	Status: Y∟ N⊠ U∟
Equipment ID No. FS EBKR314B-6F Equip. Class Motor Control Centers	and Wall-Mounted Contactors
Equipment Description REFUELING CANAL DRAIN PUMP CIRCUIT BREAKE	<u>R</u>
 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
Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	Y_ N_ U_
Interaction Effects	
7. Are soft targets free from impact by nearby equipment or structures?	Y_ N_ U_ N/A_
Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	Y_ N_ U_ N/A_
9. Do attached lines have adequate flexibility to avoid damage?	Y_ N_ U_ N/A_
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	Y_ N_ U_

Engineering Report No. WF3-CS-12-00003 Attachment C Rev. 0 Page 414 of 516

Enclosure to W3F1-2013-0024 Page 489 of1014

Sheet 3 of 4

	Status: Y∐ N⊠ U∐
Seismic Walkdown Checklist (SWC) <u>SWEL2-003</u>	
Equipment ID No. FS EBKR314B-6F Equip. Class Motor Control Centers	and Wall-Mounted Contactors
Equipment Description REFUELING CANAL DRAIN PUMP CIRCUIT BREAKER	₹
Other Adverse Conditions	
11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment?	Y N U
Comments (Additional pages may be added as necessary)	
Evaluated by:	Date:

Enclosure to W3F1-2013-0024 Page 490 of1014

Sheet 4 of 4

Seismic Walkdown Checklist (SWC) _	Status: Y N U	
Equipment ID No. FS EBKR314B-6F	Equip. Class_Motor Control Centers and Wall-Mounted Contacto	<u>ors</u>
Equipment Description REFUELING CANA	IAL DRAIN PUMP CIRCUIT BREAKER	
Photographs		
Note:	Note:	
No.		

Enclosure to W3F1-2013-0024 Page 491 of1014

Sheet 1 of 5

Status: Y⊠ N⊡ U⊡
Seismic Walkdown Checklist (SWC) <u>SWEL2-004</u>
Equipment ID No. CC EBKR90A-21 Equip. Class Low Voltage Switchgear and Breaker Panels
Equipment Description MAIN FUEL POOL HX TCV CHANNEL A SOL (CC-620)
Location: Bldg. RAB Floor El. +35 Room, Area Room 262, Col. 11A, Line G
Manufacturer, Model, Etc. (optional but recommended) Heinemann Electric, CD2G3U52402
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
 Is the anchorage configuration verification required (i.e., is the item one Y N N N N N N N N N N N N N N N N N N
 2. Is the anchorage free of bent, broken, missing or loose hardware? Y∑ N□ U□ N/A□ Bolts on panel ID EPDP90A are not bent, broken, missing, or loose.
 3. Is the anchorage free of corrosion that is more than mild surface y N □ U □ N/A □ oxidation? No visible corrosion on bolts.
 4. Is the anchorage free of visible cracks in the concrete near the anchors? There are two surface cracks in the concrete that lead up and through an anchor bolt on both sides of cabinet ID EPDP90A. These cracks appear only to be surface cracks and do not affect the structural capacity of the bolts. There is no seismic concern in this case.

	Status: Y⊠ N⊟ U⊟
Seismic Walkdown Checklist (SWC) <u>SWEL2-004</u>	
Equipment ID No. CC EBKR90A-21 Equip. Class Low Voltage Switchge	ear and Breaker Panels
Equipment Description MAIN FUEL POOL HX TCV CHANNEL A SOL (CC-620	<u>))</u>
 Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) 	Y□ N□ U□ N/A⊠
 6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Questions 2-4 satisfied; no seismic concern 	Y⊠ N□ U□
Interaction Effects	
7. Are soft targets free from impact by nearby equipment or structures?	Y⊠ N□ U□ N/A□
 8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? A block wall is located behind cabinet ID EPDP90A. The block 	Y⊠.N□ U□ N/A□
wall is acceptable per drawing no. G756 sh. 2, calculation no. Civil Seismic Block Wall, and FSAR Section 3.8.4.8	
 9. Do attached lines have adequate flexibility to avoid damage? Rigid conduits penetrate the top of ID EPDP90A. These conduits are acceptable per B288, S19-1. 	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□
 Questions 7-9 satisfied 	

Status: Y N U U Seismic Walkdown Checklist (SWC) SWEL2-004
Equipment ID No. CC EBKR90A-21 Equip. Class Low Voltage Switchgear and Breaker Panels
Equipment Description MAIN FUEL POOL HX TCV CHANNEL A SOL (CC-620)
Other Adverse Conditions
11. Have you looked for and found no other seismic conditions that could Y⊠ N□ U□ adversely affect the safety functions of the equipment?
Comments (Additional pages may be added as necessary)
 ID EPDP90A cabinet is attached to a vertical wide flange structural member at three locations. Vertical wide flange is welded to a base plate at the bottom and to a structural member at the top. On opposite side of the cabinet, there are 12 stitch welds that are 2" long welded to a vertical wide flange member. This wide flange is welded to base plate at the bottom. On the first panel from the left inside ID EPDP90A, two of 18 bolts are missing from the panel cover. This is not a seismic concern. WR-161979 previously initiated to address this condition. On the third panel from the left inside ID EPDP90A, three of 18 bolts are missing from the panel cover. This is not a seismic concern. WR-161979 previously initiated to address this condition. For area walk-by checklist see AWC-052
Evaluated by: Brian Pace Burn HPan Date: 10-10-2012
Dinesh Patel 10-10-2012

Sheet 4 of 5

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Status:	YIXI	N	U

Page 419 of 516

Seismic Walkdown Checklist (SWC) SWEL2-004

Equipment ID No. CC EBKR90A-21

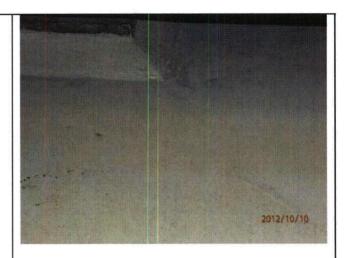
Equip. Class Low Voltage Switchgear and Breaker Panels

Equipment Description MAIN FUEL POOL HX TCV CHANNEL A SOL (CC-620)

Photographs



Note: Inside panel with CC EBKR90A-21



Note: This surface crack leads to an anchor bolt, but it is not a seismic or structural concern (same on other side)

Sheet 5 of 5

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Seismic Walkdown Checklist (SWC) SWEL2-004

Equipment ID No. CC EBKR90A-21

Equip. Class Low Voltage Switchgear and Breaker Panels

Equipment Description MAIN FUEL POOL HX TCV CHANNEL A SOL (CC-620)



Note: Third cabinet from the left on ID EPDP90A has three missing bolts of its 18 total.

Sheet 1 of 4

Status: Y⊠ N⊡ U⊡
Seismic Walkdown Checklist (SWC) <u>SWEL2-005</u>
Equipment ID No. CC EBKR91B-21 Equip. Class Low Voltage Switchgear and Breaker Panels
Equipment Description MAIN FUEL POOL HX TCV CHANNEL B SOL (CC-620)
Location: Bldg. RAB Floor El. +35 Room, Area Room 262, Col. 11A, Line K
Manufacturer, Model, Etc. (optional but recommended) Heinemann Electric Company, CD2G3U52402
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
 Is the anchorage configuration verification required (i.e., is the item one Y N⊠ of the 50% of SWEL items requiring such verification)?
2. Is the anchorage free of bent, broken, missing or loose hardware? Y⊠ N□ U□ N/A□ All anchorage is accounted for and in good condition
3. Is the anchorage free of corrosion that is more than mild surface oxidation? ◆ All anchorage is free of corrosion
4. Is the anchorage free of visible cracks in the concrete near the Y⊠ N□ U□ N/A□ anchors?

No visible cracks in the concrete

¹ Enter the equipment class <u>name</u> from Appendix B: Classes of Equipment.

	Status: Y⊠ N∐ U∐
Seismic Walkdown Checklist (SWC) <u>SWEL2-005</u>	
Equipment ID No. CC EBKR91B-21 Equip. Class Low Voltage Switchge	ar and Breaker Panels
Equipment Description MAIN FUEL POOL HX TCV CHANNEL B SOL (CC-620)
 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.) Configuration of bolts between switchgear and frame are verified based on drawing no. 5817-4669. No documents 	Y□ N□ U□ N/A⊠
available to verify frame anchorage to ground.	
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	Y⊠ N□ U□
No seismic concern	
Internation Effects	
Interaction Effects	
7. Are soft targets free from impact by nearby equipment or structures?	Y⊠ N□ U□ N/A□
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	Y⊠ N□ U□ N/A□
 Block walls acceptable per drawing no. G765 sh. 2, calculation no. Civil Seismic Block Walls, and FSAR Section 3.8.4.8 	
9. Do attached lines have adequate flexibility to avoid damage?	Y⊠ N□ U□ N/A□
Rigid conduit acceptable per drawing no. B-288, Sh. 19-1	
Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	Y⊠ N□ U□

Status: Y N U Seismic Walkdown Checklist (SWC) SWEL2-005
Equipment ID No. CC EBKR91B-21 Equip. Class Low Voltage Switchgear and Breaker Panels
Equipment Description MAIN FUEL POOL HX TCV CHANNEL B SOL (CC-620)
Other Adverse Conditions 11. Have you looked for and found no other seismic conditions that could Y⊠ N□ U□
adversely affect the safety functions of the equipment?
Comments (Additional pages may be added as necessary)
For area walk-by checklist see AWC-053
M-+
Evaluated by: Natalie George Date: 10/15/12
Chu-Chieh Lin 10/15/12

Sheet 4 of 4

Status:	VM	NI	LI
Status.			\cup

Seismic Walkdown Checklist (SWC) SWEL2-005

Equipment ID No. CC EBKR91B-21 Equip. Class Low Voltage Switchgear and Breaker Panels

Equipment Description MAIN FUEL POOL HX TCV CHANNEL B SOL (CC-620)

Photographs



Note: Main Fuel Pool HX TCV Channel B SOL (CC-620)



Note: Bolts between switchgear and frame

Sheet 1 of 4

Seismic Walkdown Checklist (SWC) SWEL2-006	Status: Y∐ N⊠ U∐
Equipment ID No. FS EBKR314B-5M Equip. Class Motor Control Centers and	d Wall-Mounted Contactors
Equipment Description Fuel Pool Pump B	
Location: Bldg. FHB Floor El. +1 Room, Area Room B151, Col.	2FH, Line W
Manufacturer, Model, Etc. (optional but recommended) Gould, Inc., EF3A100	
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 findings. Additional space is provided at the end of this checklist for documenting other.	results of judgments and
Anchorage	
1. Is the anchorage configuration verification required (i.e., is the item one Y of the 50% of SWEL items requiring such verification)?	□ N□
Is the anchorage free of bent, broken, missing or loose hardware? Y	_ N□ U□ N/A□
Is the anchorage free of corrosion that is more than mild surface oxidation? Y	_ N
Is the anchorage free of visible cracks in the concrete near the anchors? Y[N U N/A

¹ Enter the equipment class <u>name</u> from Appendix B: Classes of Equipment.

Enclosure to W3F1-2013-0024 Page 501 of1014

O TO TO ME HOLD IN OUR A PLACE (OMO) OME I O OOC	Status: Y∐ N⊠ U∐
Seismic Walkdown Checklist (SWC) <u>SWEL2-006</u>	
Equipment ID No. FS EBKR314B-5M Equip. Class Motor Control Centers	and Wall-Mounted Contactors
Equipment Description Fuel Pool Pump B	· ·····
 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
Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	Y N U
Interaction Effects	
7. Are soft targets free from impact by nearby equipment or structures?	Y N U N/A
Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	Y N U N/A
9. Do attached lines have adequate flexibility to avoid damage?	Y N U N/A
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	Y N U

Engineering Report No. WF3-CS-12-00003 Attachment C Rev. 0 Page 427 of 516

Enclosure to W3F1-2013-0024 Page 502 of1014

Status: Y☐ N⊠ U[
Seismic Walkdown Checklist (SWC) <u>SWEL2-006</u>	
Equipment ID No. FS EBKR314B-5M Equip. Class Motor Control Centers and Wall-Mounted Contact	ors
Equipment Description Fuel Pool Pump B	
Other Adverse Conditions	
11. Have you looked for and found no other seismic conditions that could Y N U u adversely affect the safety functions of the equipment?	
Comments (Additional pages may be added as necessary)	
Evaluated by: Date:	

Engineering Report No. WF3-CS-12-00003 Attachment C Rev. 0 Page 428 of 516

Enclosure to W3F1-2013-0024 Page 503 of1014

Sheet 4 of 4

	Status: Y☐ N☒ U☐
Seismic Walkdown Checklist (SWC) <u>SWEL:</u>	L2-006
Equipment ID No. <u>FS EBKR314B-5M</u> Equip. C	Class Motor Control Centers and Wall-Mounted Contactors
Equipment Description Fuel Pool Pump B	
Photographs	
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Note:	Note:

Engineering Report No. WF3-CS-12-00003 Attachment C Rev. 0

Page 429 of 516

Enclosure to W3F1-2013-0024 Page 504 of1014

Sheet 1 of 4

Status: Y □ N ☒ U □
Seismic Walkdown Checklist (SWC) <u>SWEL2-007</u>
Equipment ID No. FS EOL314A-5M Equip. Class Motor Control Centers and Wall-Mounted Contactors
Equipment Description FUEL POOL PUMP A TOL
Location: Bldg. FHB Floor El. +1 Room, Area Room B151, Col. 1FH, Line V
Manufacturer, Model, Etc. (optional but recommended) Gould Inc., A203FT58
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
 Is the anchorage configuration verification required (i.e., is the item one Y N N N N N N N N N N N N N N N N N N
2. Is the anchorage free of bent, broken, missing or loose hardware? Y☐ N☐ U☐ N/A☐
Is the anchorage free of corrosion that is more than mild surface Y□ N□ U□ N/A□ oxidation?
4. Is the anchorage free of visible cracks in the concrete near the anchors? Y□ N□ U□ N/A□ anchors?

¹ Enter the equipment class <u>name</u> from Appendix B: Classes of Equipment.

Enclosure to W3F1-2013-0024 Page 505 of1014

	Status: Y∐ N⊠ U∐
Seismic Walkdown Checklist (SWC) <u>SWEL2-007</u>	
Equipment ID No. FS EOL314A-5M Equip. Class Motor Control Centers	s and Wall-Mounted Contactors
Equipment Description FUEL POOL PUMP A TOL	· · · · · · · · · · · · · · · · · · ·
 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
Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	Y
Interaction Effects	
7. Are soft targets free from impact by nearby equipment or structures?	Y N U N/A
Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	Y_ N_ U_ N/A_
9. Do attached lines have adequate flexibility to avoid damage?	Y_ N_ U_ N/A_
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	Y_ N_ U_

Engineering Report No. WF3-CS-12-00003 Attachment C Rev. 0 Page 431 of 516

Enclosure to W3F1-2013-0024 Page 506 of1014

Seismic Walkdown Checklist (SWC) SWEL2-007	Status: Y N N U
Equipment ID No. FS EOL314A-5M Equip. Class Motor Control Centers an	d Wall-Mounted Contactors
Equipment Description FUEL POOL PUMP A TOL	
Other Adverse Conditions	
Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment?	□ N□ U□
Comments (Additional pages may be added as necessary)	
Evaluated by: D	ate:

Engineering Report No. WF3-CS-12-00003 Attachment C Rev. 0 Page 432 of 516

Enclosure to W3F1-2013-0024 Page 507 of1014

Sheet 4 of 4

Seismic Walkdown Checklist (SWC)	Status: Y N	⊿ ∪□
Equipment ID No. FS EOL314A-5M E	Equip. Class Motor Control Centers and Wall-Mounted Co	ontactors
Equipment Description FUEL POOL PUMP A	A TOL	
Photographs		
		•
Note:	Note:	

Engineering Report No. WF3-CS-12-00003 Attachment C Rev. 0 Page 433 of 516

Enclosure to W3F1-2013-0024 Page 508 of1014

Sheet 1 of 4

	Status: Y∐ N⊠ U∐
Seismic Walkdown Checklist (SWC) <u>SWEL2-008</u>	
Equipment ID No. <u>FS EOL314B-5M</u> Equip. Class <u>Motor Control Centers</u>	and Wall-Mounted Contactors
Equipment Description FUEL POOL PUMP B TOL	·
Location: Bldg. FHB Floor El. +1 Room, Area Room B152,	Col. 2FH, Line W
Manufacturer, Model, Etc. (optional but recommended) Gould Inc., E20FOL1	
Instructions for Completing Checklist	
This checklist may be used to document the results of the Seismic Walkdown of SWEL. The space below each of the following questions may be used to record findings. Additional space is provided at the end of this checklist for documenting	the results of judgments and
Anchorage	
1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?	Y
2. Is the anchorage free of bent, broken, missing or loose hardware?	Y_ N_ U_ N/A_
Is the anchorage free of corrosion that is more than mild surface oxidation?	Y NU UNA
Is the anchorage free of visible cracks in the concrete near the anchors?	Y_ N_ U_ N/A_

¹ Enter the equipment class <u>name</u> from Appendix B: Classes of Equipment.

Enclosure to W3F1-2013-0024 Page 509 of1014

	Status: Y∐ N⊠ U∐
Seismic Walkdown Checklist (SWC) <u>SWEL2-008</u>	
Equipment ID No. FS EOL314B-5M Equip. Class Motor Control Centers	and Wall-Mounted Contactors
Equipment Description FUEL POOL PUMP B TOL	
 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
Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	Y_ N_ U_
Interaction Effects	
7. Are soft targets free from impact by nearby equipment or structures?	Y N U N/A
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	Y N U N/A
9. Do attached lines have adequate flexibility to avoid damage? .	Y_ N_ U_ N/A_
Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	Y_ N_ U_

Engineering Report No. WF3-CS-12-00003 Attachment C Rev. 0 Page 435 of 516

Enclosure to W3F1-2013-0024 Page 510 of1014

	Status: Y☐ N⊠ U☐
Seismic Walkdown Checklist (SWC) <u>SWEL2-008</u>	
Equipment ID No. FS EOL314B-5M Equip. Class Motor Control Centers	and Wall-Mounted Contactors
Equipment Description FUEL POOL PUMP B TOL	,
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
Comments (Additional pages may be added as necessary)	
Evaluated by:	Date:

Engineering Report No. WF3-CS-12-00003 Attachment C Rev. 0 Page 436 of 516

Enclosure to W3F1-2013-0024 Page 511 of1014

Sheet 4 of 4

	Status: Y☐ N⊠ U☐
Seismic Walkdown Checklist (SWC) <u>SWEL2-</u>	008
Equipment ID No. FS EOL314B-5M Equip. Class	ss Motor Control Centers and Wall-Mounted Contactors
Equipment Description FUEL POOL PUMP B TOL	
Photographs	
1	
1	
Note:	Note:
}	

Sheet 1 of 4

Status: Y	\square N \boxtimes U \square
Seismic Walkdown Checklist (SWC) <u>SWEL2-009</u>	
Equipment ID No. FS EOL314B-6F Equip. Class Motor Control Centers and Wall-Mou	inted Contactors
Equipment Description REFUELING CANAL DRAIN PMP TOL	
Location: Bldg. FHB Floor El. +1 Room, Area Room B152, Col. 2FH, Line	W
Manufacturer, Model, Etc. (optional but recommended) Gould, Inc. A203C12	
Instructions for Completing Checklist	
This checklist may be used to document the results of the Seismic Walkdown of an item of equ SWEL. The space below each of the following questions may be used to record the results of jufindings. Additional space is provided at the end of this checklist for documenting other commen	udgments and
Anchorage	
 Is the anchorage configuration verification required (i.e., is the item one Y N N of the 50% of SWEL items requiring such verification)? 	
2. Is the anchorage free of bent, broken, missing or loose hardware? Y☐ N☐ U[□ N/A □
3. Is the anchorage free of corrosion that is more than mild surface Y☐ N☐ Ú[oxidation?	□ N/A□
 Is the anchorage free of visible cracks in the concrete near the anchors? Y□ N□ U[□ N/A□

¹ Enter the equipment class <u>name</u> from Appendix B: Classes of Equipment.

Engineering Report No. WF3-CS-12-00003 Attachment C Rev. 0 Page 438 of 516

Enclosure to W3F1-2013-0024 Page 513 of1014

	Status: Y□ N⊠ U□
Seismic Walkdown Checklist (SWC) <u>SWEL2-009</u>	
Equipment ID No. FS EOL314B-6F Equip. Class Motor Control Centers	and Wall-Mounted Contactors
Equipment Description REFUELING CANAL DRAIN PMP TOL	
 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
Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	Y_ N_ U_
Interaction Effects	
7. Are soft targets free from impact by nearby equipment or structures?	Y N U N/A
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	Y_ N_ U_ N/A_
9. Do attached lines have adequate flexibility to avoid damage?	Y_ N_ U_ N/A_
Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	Y_ N_ U_

Enclosure to W3F1-2013-0024 Page 514 of1014

Seismic Walkdown Checklist (SWC) SWEL2-009	Status: Y∐ N⊠ U∐
Seisific Walkuowii Checklist (SWC)	
Equipment ID No. FS EOL314B-6F Equip. Class Motor Control Centers	and Wall-Mounted Contactors
Equipment Description REFUELING CANAL DRAIN PMP TOL	
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
Comments (Additional pages may be added as necessary)	
Evaluated by:	Data
Evaluated by:	Date:
	

Engineering Report No. WF3-CS-12-00003 Attachment C Rev. 0 Page 440 of 516

Enclosure to W3F1-2013-0024 Page 515 of1014

Sheet 4 of 4

Caiamia Malkdawa Chaaklist (CMC)	Status: Y N U
Seismic Walkdown Checklist (SWC)	SWEL2-009
Equipment ID No. FS EOL314B-6F	Equip. Class Motor Control Centers and Wall-Mounted Contactor
Equipment Description REFUELING CAN	IAL DRAIN PMP TOL
Photographs	
Note:	Note:

Sheet 1 of 4

Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) <u>SWEL2-010</u>
Equipment ID No. CC EMTR3A-2 Equip. Class ¹ Horizontal Pumps
Equipment Description Component Cooling Water Pump A
Location: Bldg. RAB Floor El. +21 Room, Area Room 235, Col. 5A, Line K
Manufacturer, Model, Etc. (optional but recommended) Siemens-Allis, Inc., 135
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
 Is the anchorage configuration verification required (i.e., is the item one Y⊠ N□ of the 50% of SWEL items requiring such verification)?
2. Is the anchorage free of bent, broken, missing or loose hardware? Y⊠ N□ U□ N/A□ All hardware accounted for and in good condition
 3. Is the anchorage free of corrosion that is more than mild surface y N □ U □ N/A □ oxidation? No corrosion on anchorage Anchorage painted
4. Is the anchorage free of visible cracks in the concrete near the anchors? Y⊠ N□ U□ N/A□ anchors?

No visible cracks in concrete near anchor bolts

¹ Enter the equipment class <u>name</u> from Appendix B: Classes of Equipment.

	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) <u>SWEL2-010</u>	
Equipment ID No. CC EMTR3A-2 Equip. Class Horizontal Pumps	
Equipment Description Component Cooling Water Pump 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.) 	Y⊠ N□ U□ N/A□
 Anchorage configuration is consistent with plant documentation (Drawing no. 1564-1347 and IPEEE pg. E-72) 	
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	Y⊠ N□ U□
No seismic concern	
Interaction Effects	
7. Are soft targets free from impact by nearby equipment or structures?	Y⊠ N□ U□ N/A□
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	Y⊠ N□ U□ N/A□
9. Do attached lines have adequate flexibility to avoid damage?	Y⊠ N□ U□ N/A□
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	Y⊠ N□ U□

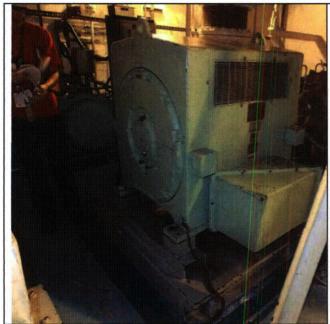
Enclosure to W3F1-2013-0024 Page 518 of1014

	Status: Y⊠ N⊟ U⊟
Seismic Walkdown Checklist (SWC) <u>SWEL2-010</u>	
Equipment ID No. CC EMTR3A-2 Equip. Class Horizontal Pumps	
Equipment Description Component Cooling Water Pump A	
Other Adverse Conditions	
11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment?	Y⊠ N□ U□
Comments (Additional pages may be added as necessary)	
 For area walk-by checklist see AWC-022 	
Evaluated by: Natalie George	_ Date: <u>10/8/12</u>
Chu-Chieh Lin	10/8/12

Sheet 4 of 4

Seismic Walkdown Checklist (SWC) SWEL2-010	Status:	Υ⊠	N_ U_
Equipment ID No. CC EMTR3A-2 Equip. Class Horizontal Pumps			
Equipment Description Component Cooling Water Pump A			

Photographs



Note: Component Cooling Water Pump A

Page 445 of 516

Sheet 1 of 5

Status: Y⊠ N U U
Seismic Walkdown Checklist (SWC) <u>SWEL2-011</u>
Equipment ID No. CC MPMP0001-A Equip. Class ¹ Horizontal Pumps
Equipment Description Component Cooling Water Pump A
Location: Bldg. RAB Floor El. +21 Room, Area Room 235, Col. 5A, Line K
Manufacturer, Model, Etc. (optional but recommended) Babcock & Wilcox Company, 12X14X16
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
 Is the anchorage configuration verification required (i.e., is the item one Y∑ N☐ of the 50% of SWEL items requiring such verification)?
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? ■ Mild corrosion; no seismic concern
4. Is the anchorage free of visible cracks in the concrete near the anchors? ■ No visible cracks pear anchor bolts in concrete

¹ Enter the equipment class <u>name</u> from Appendix B: Classes of Equipment.

	Status: Y⊠ N∐ U∐
Seismic Walkdown Checklist (SWC) <u>SWEL2-011</u>	
Equipment ID No. CC MPMP0001-A Equip. Class Horizontal Pumps	
Equipment Description Component Cooling Water Pump 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.) 	Y⊠ N□ U□ N/A□
 Anchorage configuration is consistent with plant documentation (IPEEE pg. E-72) 	
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	Y⊠ N□ U□
No seismic concern	
Interaction Effects	
7. Are soft targets free from impact by nearby equipment or structures?	Y⊠ N□ U□ N/A□
8. Are overhead equipment, distribution systems, ceiling tiles and lighting,	Y⊠ N□ U□ N/A□
and masonry block walls not likely to collapse onto the equipment?	
9. Do attached lines have adequate flexibility to avoid damage?	Y⊠ N□ U□ N/A□
10. Based on the above seismic interaction evaluations, is equipment free	Y⊠ N□ U□
of potentially adverse seismic interaction effects?	· 🖂 · 🖫 🍮

Status: YX N U U Seismic Walkdown Checklist (SWC)SWEL2-011
Equipment ID No. CC MPMP0001-A Equip. Class Horizontal Pumps
Equipment Description Component Cooling Water Pump A
Other Adverse Conditions
11. Have you looked for and found no other seismic conditions that could Y⊠ N□ U□ adversely affect the safety functions of the equipment?
 Comments (Additional pages may be added as necessary) No tag identifying the equipment was found; used drawing no. 1564-1347, IPEEE pg. E-72, and Manufacturer name to verify the equipment to be evaluated Leakage and mild corrosion around base of pump; no seismic concern. WR-288202 previously initiated for this condition. For area walk-by checklist see AWC-022
Evaluated by: Natalie George Date: 10/8/12 Chu-Chieh Lin 10/8/12

Sheet 4 of 5

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Status:	YIXI	INI I	U

Seismic Walkdown Checklist (SWC) SWEL2-011

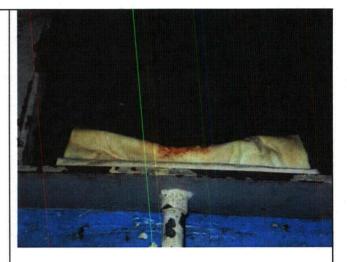
Equipment ID No. CC MPMP0001-A Equip. Class Horizontal Pumps

Equipment Description Component Cooling Water Pump A

Photographs



Note: Leakage and mild corrosion around base of pump



Note: Leakage and mild corrosion around base of pump

Sheet 5 of 5

Seismic Walkdown Checklist (SWC)SWEL2-01	1	## ##	Status: Y	⊠ N∐ U∐
Equipment ID No. CC MPMP0001-A Equip. Class	Horizontal Pum	nps		
Equipment Description Component Cooling Water Pump	οA			
Note: Component Cooling Water Pump A	Note:			

Sheet 1 of 4

Status: Y⊠ N∐ U∐
Seismic Walkdown Checklist (SWC) <u>SWEL2-012</u>
Equipment ID No. FS EMTR314A-5M Equip. Class Horizontal Pumps
Equipment Description Fuel Pool Pump A Motor
Location: Bldg. FHB Floor El. +1 Room, Area Room B156, Col. 3FH, Line T
Manufacturer, Model, Etc. (optional but recommended) Westinghouse Electric Corporation, TBDP74C15518
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
 Is the anchorage configuration verification required (i.e., is the item one Y∑ N□ of the 50% of SWEL items requiring such verification)?
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 Y N U N/A ∪ oxidation? • No corrosion
4. Is the anchorage free of visible cracks in the concrete near the Y⊠ N□ U□ N/A□ anchors?

No visible cracks in the concrete

¹ Enter the equipment class <u>name</u> from Appendix B: Classes of Equipment.

Enclosure to W3F1-2013-0024 Page 526 of1014

	Status: Y⊠ N⊡ U⊡
Seismic Walkdown Checklist (SWC) <u>SWEL2-012</u>	
Equipment ID No. FS EMTR314A-5M Equip. Class Horizontal Pumps	·
Equipment Description Fuel Pool Pump A Motor	
 Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) 	Y⊠ N□ U□ N/A□
 Anchorage configuration consistent with plant documentation (Drawing 1564-702 and G595) 	
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	Y⊠ N□ U□
No seismic concerns	
Interaction Effects	
7. Are soft targets free from impact by nearby equipment or structures?	Y⊠ N□ U□ N/A□
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	Y⊠ N□ U□ N/A□
and masonly block wans not likely to conapse onto the equipment:	
9. Do attached lines have adequate flexibility to avoid damage?	Y⊠ N□ U□ N/A□
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	Y⊠ N□ U□

	Status: Y⊠ N⊟ U⊟
Seismic Walkdown Checklist (SWC) <u>SWEL2-012</u>	
Equipment ID No. FS EMTR314A-5M Equip. Class Horizontal Pumps	
Equipment Description Fuel Pool Pump A Motor	
Other Adverse Conditions	
11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment?	Y⊠ N□ U□
<u>Comments</u> (Additional pages may be added as necessary)	
 For area walk-by checklist see AWC-048 	
Notatio Gones	
Evaluated by: Natalie George	Date: 10/10/12
Chu-Chieh Lin	<u>10/10/12</u>

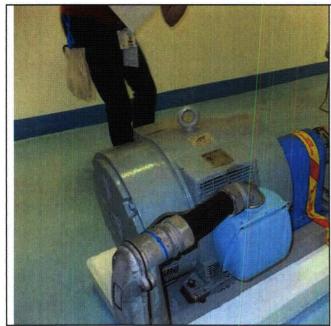
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Seismic Walkdown Checklist (SWC) SWEL2-012

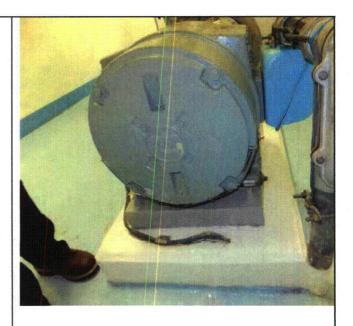
Equipment ID No. FS EMTR314A-5M Equip. Class Horizontal Pumps

Equipment Description Fuel Pool Pump A Motor

Photographs



Note: Fuel Pool Pump A Motor



Note: Example of Fuel Pool Pump A Motor anchorage

Page 454 of 516

Sheet 1 of 4

Status: Y⊠ N∐ U∐			
Seismic Walkdown Checklist (SWC) <u>SWEL2-013</u>			
Equipment ID No. FS EMTR314B-5M Equip. Class¹ Horizontal Pumps			
Equipment Description Fuel Pool Pump B Motor			
Location: Bldg. FHB Floor El. +1 Room, Area Room B157, Col. 2FH, Line T			
Manufacturer, Model, Etc. (optional but recommended) Westinghouse Electric Corp., TBDP			
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			
 Is the anchorage configuration verification required (i.e., is the item one Y⊠ N□ of the 50% of SWEL items requiring such verification)? 			
2. Is the anchorage free of bent, broken, missing or loose hardware? Y⊠ N□ U□ N/A□ All hardware is accounted for and in good condition			
 3. Is the anchorage free of corrosion that is more than mild surface y N □ U □ N/A □ oxidation? ◆ All anchorage is free of corrosion 			
4. Is the anchorage free of visible cracks in the concrete near the anchors? Y⊠ N□ U□ N/A□ anchors?			

No visible cracks in the concrete

¹ Enter the equipment class <u>name</u> from Appendix B: Classes of Equipment.

Enclosure to W3F1-2013-0024 Page 530 of1014

	Status: Y⊠ N⊟ U⊟
Seismic Walkdown Checklist (SWC) <u>SWEL2-013</u>	
Equipment ID No. FS EMTR314B-5M Equip. Class Horizontal Pumps	·
Equipment Description Fuel Pool Pump B Motor	
 Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) 	Y⊠ N□ U□ N/A□
 Anchorage configuration consistent with plant documentation (Drawing no. G595 and 1564-702) 	
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	Y⊠ N□ U□
No seismic concern	
Interaction Effects	
7. Are soft targets free from impact by nearby equipment or structures?	Y⊠ N□ U□ N/A□
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	Y⊠ N□ U□ N/A□
Do attached lines have adequate flexibility to avoid damage?	Y⊠ N□ U□ N/A□
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	Y⊠ N□ U□

	Status: Y⊠ N⊟ U⊟
Seismic Walkdown Checklist (SWC) <u>SWEL2-013</u>	
Equipment ID No. FS EMTR314B-5M Equip. Class Horizontal Pumps	
Equipment Description Fuel Pool Pump B Motor	
Other Adverse Conditions	
11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment?	Y⊠ N□ U□
Comments (Additional pages may be added as necessary) • For area walk-by checklist see AWC-049	<u> </u>
Tor area walk by driedklist 300 NWO 040	
	•
notatu Genge	
Evaluated by: Natalie George	Date: <u>10/12/12</u>
Chu-Chieh Lin	10/12/12

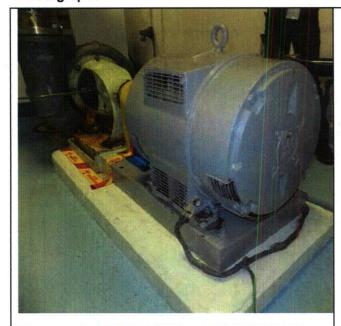
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Seismic Walkdown Checklist (SWC) SWEL2-013

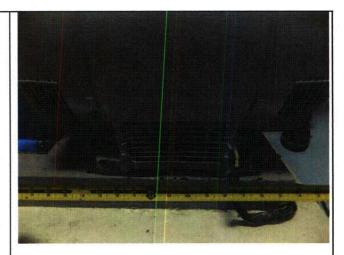
Equipment ID No. FS EMTR314B-5M Equip. Class Horizontal Pumps

Equipment Description Fuel Pool Pump B Motor

Photographs



Note: Fuel Pool Pump B Motor



Note: Fuel Pool Pump B Motor anchorage

Sheet 1 of 5

Status: YX N U
·
Equipment ID No. FS EMTR314B-6F Equip. Class ¹ Horizontal Pumps
Equipment Description Refueling Canal Drain Pump Motor
Location: Bldg. FHB Floor El35 Room, Area Room B58, Col. 4FH, Line V
Manufacturer, Model, Etc. (optional but recommended) Allis Chalmers Corp., RG213T
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
 Is the anchorage configuration verification required (i.e., is the item one Y N N N N N N N N N N N N N N N N N N
 Motor mounted to pump skid, skid mounted to concrete
 Item not one of the 50% of SWEL items requiring anchorage configuration verification
2. Is the anchorage free of bent, broken, missing or loose hardware? Y⊠ N□ U□ N/A□
 Four bolts used to mount motor to pump skid, bolts in good condition
 Four bolts used to mount skid to concrete, bolts in good condition; see drawing G501, S03
3. Is the anchorage free of corrosion that is more than mild surface Y⊠ N□ U□ N/A□ oxidation?
No corrosion was found on any anchorage
4. Is the anchorage free of visible cracks in the concrete near the anchors? Y⊠ N□ U□ N/A□ anchors?
 No visible cracks in concrete near the anchors mounting skid to

concrete

¹ Enter the equipment class <u>name</u> from Appendix B: Classes of Equipment.

Enclosure to W3F1-2013-0024 Page 534 of1014

	Status: Y⊠ N⊡ U⊡
Seismic Walkdown Checklist (SWC) <u>SWEL2-014</u>	
Equipment ID No. FS EMTR314B-6F Equip. Class Horizontal Pumps	
Equipment Description Refueling Canal Drain Pump Motor	
 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⊠
 Item not one of the 50% of SWEL items requiring anchorage configuration verification 	
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	Y⊠ N□ U□
 Questions 2-4 are satisfied; no seismic concern 	
	-
Interaction Effects	
7. Are soft targets free from impact by nearby equipment or structures?	Y⊠ N□ U□ N/A□
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	Y⊠ N□ U□ N/A□
 9. Do attached lines have adequate flexibility to avoid damage? One flexible conduit and a grounding cable connected to motor 	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□
Questions 7-9 satisfied	

	Status: Y⊠ N⊟ U⊟
Seismic Walkdown Checklist (SWC) SWEL2-014	
Equipment ID No. FS EMTR314B-6F Equip. Class Horizontal Pumps	
Equipment Description Refueling Canal Drain Pump Motor	
Other Adverse Conditions 11. Have you looked for and found no other seismic conditions that could	Y⊠ N□ U□
adversely affect the safety functions of the equipment?	
Comments (Additional pages may be added as necessary)	
 See AWC-050 for Area Walk-By Checklist 	
Bean & Pan	
Evaluated by: Brian Pace	Date: <u>10-10-2012</u>
duilpali]	
Dinesh Patel	10-10-2012

Status:	VV	N	

Seismic Walkdown Checklist (SWC) SWEL2-014

Equipment ID No. FS EMTR314B-6F Equip. Class Horizontal Pumps

Equipment Description Refueling Canal Drain Pump Motor

Photographs



Note: Refueling Canal Drain Pump and Motor



Note: Motor is well anchored to pump skid

Sheet 5 of 5

Status:		NI	
Status.	$I \sim$	INI	U

Seismic Walkdown Checklist (SWC) SWEL2-014

Equipment ID No. FS EMTR314B-6F Equip. Class Horizontal Pumps

Equipment Description Refueling Canal Drain Pump Motor



Note: Flexible conduit attached to motor

Engineering Report No. WF3-CS-12-00003 Attachment C Rev. 0

Page 463 of 516

Enclosure to W3F1-2013-0024 Page 538 of1014

Sheet 1 of 4

Status: Y⊠ N⊟ U⊟			
Seismic Walkdown Checklist (SWC) <u>SWEL2-015</u>			
Equipment ID No. FS MPMP0001-A Equip. Class ¹ Horizontal Pumps			
Equipment Description Fuel Pool Pump A			
Location: Bldg. FHB Floor El. +1 Room, Area Room B157, Col. 2FH, Line T			
Manufacturer, Model, Etc. (optional but recommended) Crane Deming Pumps, 406680650999			
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			
 Is the anchorage configuration verification required (i.e., is the item one Y∑ N☐ of the 50% of SWEL items requiring such verification)? 			
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 Y N U N/A U N/A □ oxidation? • No corrosion			
4. Is the anchorage free of visible cracks in the concrete near the anchors? Y⊠ N□ U□ N/A□ anchors?			

No visible cracks in the concrete

¹ Enter the equipment class <u>name</u> from Appendix B: Classes of Equipment.

Enclosure to W3F1-2013-0024 Page 539 of1014

Seismic Walkdown Checklist (SWC) _ SWEL2-015	Status: Y⊠ N□ U□
Equipment ID No. FS MPMP0001-A Equip. Class Horizontal Pumps	
Equipment Description Fuel Pool Pump 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.) 	Y⊠ N□ U□ N/A□
 Anchorage configuration consistent with plant documentation (Drawing 1564-702 and G595) 	
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	Y⊠ N□ U□
No seismic concern	
Interaction Effects	
7. Are soft targets free from impact by nearby equipment or structures?	Y⊠ N□ U□ N/A□
8. Are overhead equipment, distribution systems, ceiling tiles and lighting,	Y⊠ N□ U□ N/A□
and masonry block walls not likely to collapse onto the equipment?	
9. Do attached lines 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□

	Status: Y⊠ N⊟ U⊟
Seismic Walkdown Checklist (SWC) <u>SWEL2-015</u>	
Equipment ID No. FS MPMP0001-A Equip. Class Horizontal Pumps	
Equipment Description Fuel Pool Pump A	
Other Adverse Conditions	
11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment?	Y⊠ N□ U□
Comments (Additional pages may be added as necessary)	
 For area walk-by checklist see AWC-048 	
Evaluated by: Natalie George	_ Date: <u>10/10/12</u>
1111 131 1	
Chu-Chieh Lin	<u>10</u> /10/12

Seismic Walkdown Checklist (SWC) <u>SWEL2-015</u>	Status: Y⊠ N□ U□
Equipment ID No. FS MPMP0001-A Equip. Class Horizontal Pu	mps
Equipment Description Fuel Pool Pump A	

Photographs



Note: Fuel Pool Pump A



Note: Example of Fuel Pool Pump A anchorage

Page 467 of 516

Sheet 1 of 4

Seismic Walkdown Checklist (SWC) <u>SWEL2-016</u>			
Seisific Walkdown Checklist (SWC)SWELZ-010			
Equipment ID No. FS MPMP0001-B Equip. Class ¹ Horizontal Pumps			
Equipment Description Fuel Pool Pump B			
Location: Bldg. FHB Floor El. +1 Room, Area Room B157, Col. 3FH, Line T			
Manufacturer, Model, Etc. (optional but recommended) Crane Deming Pumps, 406680650999			
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			
 Is the anchorage configuration verification required (i.e., is the item one Y⊠ N□ of the 50% of SWEL items requiring such verification)? 			
2. Is the anchorage free of bent, broken, missing or loose hardware? Y⊠ N□ U□ N/A□ All anchorage accounted for and in good condition			
3. Is the anchorage free of corrosion that is more than mild surface Y∑ N☐ U☐ N/A☐ oxidation? • All anchorage is free of corrosion			
4. Is the anchorage free of visible cracks in the concrete near the anchors? Y□ N□ U□ N/A□ anchors?			

No visible cracks in concrete near anchors

¹ Enter the equipment class <u>name</u> from Appendix B: Classes of Equipment.

Seismic Walkdown Checklist (SWC) _ SWEL2-016	Status: Y⊠ N⊡ U⊡
· · · · · · · · · · · · · · · · · · ·	
Equipment ID No. FS MPMP0001-B Equip. Class Horizontal Pumps	
Equipment Description Fuel Pool Pump B	
 Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) 	Y⊠ N□ U□ N/A□
 Anchorage configuration consistent with plant documentation (Drawing no. G595 and 1564-702) 	
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	Y⊠ N□ U□
No seismic concern	
Interaction Effects	
7. Are soft targets free from impact by nearby equipment or structures?	Y⊠ N□ U□ N/A□
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	Y⊠ N□ U□ N/A□
Do attached lines have adequate flexibility to avoid damage?	Y⊠ N□ U□ N/A□
o. Do alabilou illioo havo adoquato lioxibility to avoia damago.	
40. Boood on the phase enjoying interesting analysis as a subsection of the	
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	Y⊠ N□ U□

Status: Y N U U Seismic Walkdown Checklist (SWC) SWEL2-016
Equipment ID No. FS MPMP0001-B Equip. Class Horizontal Pumps
Equipment Description Fuel Pool Pump B
Other Adverse Conditions
11. Have you looked for and found no other seismic conditions that could Y⊠ N□ U□ adversely affect the safety functions of the equipment?
Comments (Additional pages may be added as necessary)
 Mild corrosion on pump; no seismic concern. WR-288204 previously initiated for this condition. No tag on equipment; verified based on manufacturer, plant location, and equipment drawings For area walk-by checklist see AWC-049
Evaluated by: Natalie George Date: 10/12/12
Chu-Chieh Lin 10/12/12

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Status:	VV	NI	
Status.		INI	O I

Page 470 of 516

Seismic Walkdown Checklist (SWC) SWEL2-016

Equipment ID No. FS MPMP0001-B Equip. Class Horizontal Pumps

Equipment Description Fuel Pool Pump B

Photographs



Note: Fuel Pool Pump B



Note: Mild corrosion on pump

Page 471 of 516

Sheet 1 of 4

Status: Y N U U Seismic Walkdown Checklist (SWC) SWEL2-017			
Equipment ID No. CC MVAAA620 Equip. Class Pneumatic-Operated Valves			
-OR- 3CC-FM138A/B			
Equipment Description Fuel Pool Heat Exchanger Temperature Control			
Location: Bldg. FHB Floor El. +1 Room, Area Room B161, Col. 1FH, Line U			
Manufacturer, Model, Etc. (optional but recommended) Fisher Controls Company, Inc., 9211-12"			
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			
 Is the anchorage configuration verification required (i.e., is the item one Y N⊠ of the 50% of SWEL items requiring such verification)? 			
In-line component			
In-line component; all valve related hardware is accounted for and in good condition Y □ N□ U□ N/A□ V□ N□ U□ N/A□			
 3. Is the anchorage free of corrosion that is more than mild surface y N U N/A U			
4. Is the anchorage free of visible cracks in the concrete near the anchors? ■ In-line component			

¹ Enter the equipment class <u>name</u> from Appendix B: Classes of Equipment.

Enclosure to W3F1-2013-0024 Page 547 of1014

	Status: Y⊠ N⊟ U⊟
Seismic Walkdown Checklist (SWC) <u>SWEL2-017</u>	
Equipment ID No. <u>CC MVAAA620</u> Equip. Class <u>Pneumatic-Operated</u>	Valves
-OR- 3CC-FM138A/B	
Equipment Description Fuel Pool Heat Exchanger Temperature Control	
 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⊠
In-line component	
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	Y⊠ N□ U□
 In-line component, N/A; no seismic concerns 	
Interaction Effects	
7. Are soft targets free from impact by nearby equipment or structures?	Y⊠ N□ U□ N/A□
Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	Y⊠ N□ U□ N/A□
 Fluorescent lights do not have cages, no seismic concern 	
9. Do attached lines have adequate flexibility to avoid damage?	Y⊠ N□ U□ N/A□
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	Y⊠ N□ U□

	Status: Y⊠ N⊟ U⊟
Seismic Walkdown Checklist (SWC) <u>SWEL2-017</u>	
Equipment ID No. CC MVAAA620 Equip. Class Pneumatic-Operated	Valves
-OR- 3CC-FM138A/B	
Equipment Description Fuel Pool Heat Exchanger Temperature Control	
Other Adverse Conditions	
Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment?	Y⊠ N□ U□
Comments (Additional pages may be added as necessary)	
 For area walk-by checklist see AWC-046 	
·	
Motati Genge	Data: 10/10/12
Evaluated by: Natalie George	_ Date: <u>10/10/12</u>
Chu-Chieh Lin	10/10/12

Seismic Walkdo	wn Checklist (SWC)	SWEL2-017	Status:	Y⊠	N□	U
Equipment ID No.	CC MVAAA620	Equip. Class_Pneumatic-Operated Valv	ves			
	-OR- 3CC-FM138A/B					
Equipment Descrip	tion Fuel Pool Heat Exc	changer Temperature Control				

Photographs



Note: Fuel Pool Heat Exchanger Temperature Control

Page 475 of 516

Sheet 1 of 5

Status: Y⊠ N∐ U∐
Seismic Walkdown Checklist (SWC) <u>SWEL2-018</u>
Equipment ID No. CC ISV0620-1 Equip. Class Motor-Operated and Solenoid-Operated Valves
-OR- 3CC-FM138A/B
Equipment Description SV FOR CC-620
Location: Bldg. FHB Floor El. +1 Room, Area Room B161, Col. 1FH, Line V
Manufacturer, Model, Etc. (optional but recommended) ASCO, NPX832058E
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
 Is the anchorage configuration verification required (i.e., is the item one Y N⊠ of the 50% of SWEL items requiring such verification)?
 Item not one of the 50% of SWEL items requiring anchorage configuration verification
2. Is the anchorage free of bent, broken, missing or loose hardware? Y⊠ N□ U□ N/A□
All anchorage accounted for and in good condition
3. Is the anchorage free of corrosion that is more than mild surface Y⊠ N□ U□ N/A□ oxidation?
All anchorage is free of corrosion, painted
4. Is the anchorage free of visible cracks in the concrete near the anchors? Y∑ N☐ U☐ N/A☐
 Component attached to support, support attached to wall; no cracks in concrete around support anchorage

¹ Enter the equipment class <u>name</u> from Appendix B: Classes of Equipment.

Seismic Walkdown Checklist (SWC) SWEL2-018	Status: Y⊠ N⊡ U⊡
Seisific Walkdowii Checklist (SWC)	
Equipment ID No. <u>CC ISV0620-1</u> Equip. Class <u>Motor-Operated and S</u>	Solenoid-Operated Valves
-OR- 3CC-FM138A/B_	
Equipment Description SV FOR CC-620	
 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⊠
 Item not one of the 50% of SWEL items requiring anchorage configuration verification 	
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	Y⊠ N□ U□
No seismic concern	
Interaction Effects	
7. Are soft targets free from impact by nearby equipment or structures?	Y⊠ N□ U□ N/A□
8. Are overhead equipment, distribution systems, ceiling tiles and lighting,	Y⊠ N□ U□ N/A□
and masonry block walls not likely to collapse onto the equipment?	
 Florescent lights do not have cages, no seismic concern 	
9. Do attached lines have adequate flexibility to avoid damage?	Y⊠ N□ U□ N/A□
10. Based on the above seismic interaction evaluations, is equipment free	Y⊠ N□ U□
of potentially adverse seismic interaction effects?	

	Status: Y⊠ N⊟ U⊟
Seismic Walkdown Checklist (SWC) <u>SWEL2-018</u>	
Equipment ID No. <u>CC ISV0620-1</u> Equip. Class <u>Motor-Operated and</u>	d Solenoid-Operated Valves
-OR- 3CC-FM138A/B	
Equipment Description SV FOR CC-620	
Other Adverse Conditions	
Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment?	Y⊠ N□ U□
Comments (Additional pages may be added as necessary) • For area walk-by checklist see AWC-046	
Evaluated by: Natalie George	Date: <u>10/10/12</u>
Chu-Chieh Lin	10/10/12

Status:		N I	1.1
STATUS	YIXI	IVI I	U

Seismic Walkdown Checklist (SWC) SWEL2-018

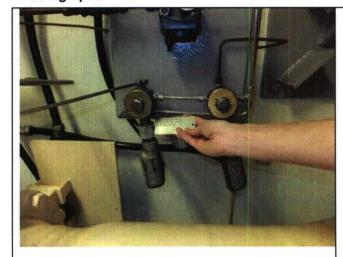
Equipment ID No. CC ISV0620-1

Equip. Class Motor-Operated and Solenoid-Operated Valves

-OR- 3CC-FM138A/B

Equipment Description SV FOR CC-620

Photographs



Note: SV for CC-620



Note: Support anchorage to wall

Sheet 5 of 5

Status:			
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Siams		IVI I	1.11

Page 479 of 516

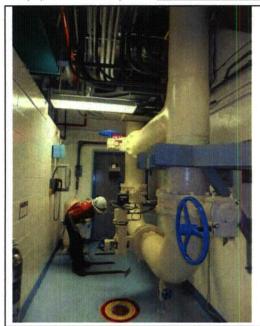
Seismic Walkdown Checklist (SWC) SWEL2-018

Equipment ID No. CC ISV0620-1

Equip. Class Motor-Operated and Solenoid-Operated Valves

-OR- 3CC-FM138A/B

Equipment Description SV FOR CC-620



Note: Florescent lights do not have cages

Page 480 of 516

Sheet 1 of 5

Status: Y⊠ N⊟ U⊟
Seismic Walkdown Checklist (SWC) <u>SWEL2-019</u>
Equipment ID No. CC ISV0620-2 Equip. Class ¹ Motor-Operated and Solenoid-Operated Valves
Equipment Description SV FOR CC-620
Location: Bldg. FHB Floor El. +1 Room, Area Room B161, Col. 1FH, Line V
Manufacturer, Model, Etc. (optional but recommended) MPX832058E
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 Y□ N☒ of the 50% of SWEL items requiring such verification)? Item not one of the 50% of SWEL items requiring anchorage configuration verification
2. Is the anchorage free of bent, broken, missing or loose hardware? Y⊠ N□ U□ N/A□ All anchorage is accounted for and in good condition
 3. Is the anchorage free of corrosion that is more than mild surface Y∑ N□ U□ N/A□ oxidation? • All anchorage is free of corrosion, painted
 4. Is the anchorage free of visible cracks in the concrete near the anchors? ■ Component is attached to support, support is anchored to wall; no cracks in concrete around support

¹ Enter the equipment class <u>name</u> from Appendix B: Classes of Equipment.

	Status: Y⊠ N⊟ U⊟
Seismic Walkdown Checklist (SWC) <u>SWEL2-019</u>	
Equipment ID No. CC ISV0620-2 Equip. Class Motor-Operated and S	Solenoid-Operated Valves
Equipment Description SV FOR CC-620	
 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⊠
 Item not one of the 50% of SWEL items requiring anchorage configuration verification 	
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	Y⊠ N□ U□
No seismic concern	
Interaction Effects	
7. Are soft targets free from impact by nearby equipment or structures?	Y⊠ N□ U□ N/A□
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	Y⊠ N□ U□ N/A□
Fluorescent lights do not have cages, no seismic concern	
9. Do attached lines have adequate flexibility to avoid damage?	Y⊠ N□ U□ N/A□
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	Y⊠ N□ U□

Sajamia Walkdawa Charklist (SWC) SWEL 2 040	Status: Y⊠ N UU
Seismic Walkdown Checklist (SWC) SWEL2-019	
Equipment ID No. <u>CC ISV0620-2</u> Equip. Class <u>Motor-Operated and S</u>	Solenoid-Operated Valves
Equipment Description SV FOR CC-620	
Other Adverse Conditions	
11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment?	Y⊠ N□ U□
Comments (Additional pages may be added as necessary) • For area walk-by checklist see AWC-046	
Totalea waik-by checklist see Avvo 646	
notati Genge	
Evaluated by: Natalie George	_ Date: <u>10/10/12</u>
Chu-Chieh Lin	<u>10/10/12</u>

Seismic Walkdown Checklist	t (SWC)SWEL2-019	Status: Y⊠ N□ U□
Equipment ID No. CC ISV0620-	2 Equip. Class Motor-Operated and S	olenoid-Operated Valves
Equipment Description SV FOR	CC-620	

Photographs



Note: SV for CC-620



Note: Support anchorage to wall

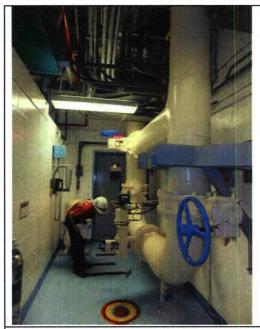
Sheet 5 of 5

Status:	VX	$N\square$	υП
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Seismic Walkdown Checklist (SWC) SWEL2-019

Equipment ID No. CC ISV0620-2 Equip. Class Motor-Operated and Solenoid-Operated Valves

Equipment Description SV FOR CC-620



Note: Fluorescent lights do not have cages

Page 485 of 516

Sheet 1 of 4

Status: Y⊠ N∐ U∐
Seismic Walkdown Checklist (SWC) <u>SWEL2-020</u>
Equipment ID No. FS MHX0001 Equip. Class ¹ Tanks and Heat Exchangers
Equipment Description Fuel Pool Heat Exchanger Tube Side
Location: Bldg. FHB Floor El. +1 Room, Area Col. 2FH, Line U
Manufacturer, Model, Etc. (optional but recommended)
Instructions for Completing Checklist
This checklist may be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.
Anchorage
 Is the anchorage configuration verification required (i.e., is the item one Y⊠ N□ of the 50% of SWEL items requiring such verification)?
2. Is the anchorage free of bent, broken, missing or loose hardware? Y⊠ N□ U□ N/A□
All anchors are free of bent and missing hardware.
3. Is the anchorage free of corrosion that is more than mild surface Y∑ N□ U□ N/A□ oxidation? • No visible corrosion
4. Is the anchorage free of visible cracks in the concrete near the

No visible cracks

¹ Enter the equipment class <u>name</u> from Appendix B: Classes of Equipment.

Seismic Walkdown Checklist (SWC) <u>SWEL2-020</u>	Status: Y⊠ N⊡ U⊡
Equipment ID No. FS MHX0001 Equip. Class Tanks and Heat Exch	angers
Equipment Description Fuel Pool Heat Exchanger Tube Side	
 Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) 	Y⊠ N□ U□ N/A□
 Anchorage configuration consistent with plant documentation (Drawing no. 1564-157 and G595) 	
 6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Questions 2-5 satisfied 	Y⊠ N□ U□
Interaction Effects	
7. Are soft targets free from impact by nearby equipment or structures?	Y⊠ N□ U□ N/A□
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	Y⊠ N□ U□ N/A□
Fluorescent lighting without caging is present over the equipment. However, these bulbs falling on the heat exchanger pose no seismic concern and the fixture itself is rigidly mounted.	
9. Do attached lines have adequate flexibility to avoid damage?	Y⊠ N□ U□ N/A□
 10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Questions 7-9 satisfied 	Y⊠ N□ U□

	Status: Y⊠ N⊟ U⊟
Seismic Walkdown Checklist (SWC) <u>SWEL2-020</u>	
Equipment ID No. FS MHX0001 Equip. Class Tanks and Heat Exch	angers
Equipment Description Fuel Pool Heat Exchanger Tube Side	
Other Adverse Conditions	
Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment?	Y⊠ N□ U□
Comments (Additional pages may be added as necessary)	
 For area walk-by checklist see AWC-047 	
Evaluated by: Brian Pace Evaluated by: Brian Pace	_ Date: 10-10-2012
dmilpali	
Dinesh Patel	10-10-2012

Status:	∇	$N\square$	
otatus.	11/	1 1 1	

Page 488 of 516

Seismic Walkdown Checklist (SWC) SWEL2-020

Equipment ID No. FS MHX0001 Equip. Clas

Equip. Class Tanks and Heat Exchangers

Equipment Description Fuel Pool Heat Exchanger Tube Side

Photographs



Note: Fuel Pool Heat Exchanger



Note: Example of anchorage on Fuel Pool Heat Exchanger

Sheet 1 of 4

Status: Y⊠ N∐ U∐
Seismic Walkdown Checklist (SWC) <u>SWEL2-021</u>
Equipment ID No. FS MHX0002 Equip. Class ¹ Tanks and Heat Exchangers
Equipment Description Back-Up Fuel Pool Heat Exchanger PO#J11-100014
Location: Bldg. FHB Floor El35 Room, Area Col. 3FH, Line T
Manufacturer, Model, Etc. (optional but recommended) Yuba Heat Transfer Corp., SFC1A
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
 Is the anchorage configuration verification required (i.e., is the item one Y⊠ N☐ of the 50% of SWEL items requiring such verification)?
 2. Is the anchorage free of bent, broken, missing or loose hardware? Y□ N☒ U□ N/A□ One of the four 3/4" diameter bolts has a loose nut. All other hardware is accounted for and in good condition. CR-WF3-2012-05698 was initiated for this condition.
 3. Is the anchorage free of corrosion that is more than mild surface oxidation? No corrosion was found on anchorage, painted
4. Is the anchorage free of visible cracks in the concrete near the anchors? Y⊠ N□ U□ N/A□ anchors?

Concrete pedestal has no visible cracks

¹ Enter the equipment class <u>name</u> from Appendix B: Classes of Equipment.

	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) <u>SWEL2-021</u>	
Equipment ID No. FS MHX0002 Equip. Class Tanks and Heat Excha	angers
Equipment Description Back-Up Fuel Pool Heat Exchanger PO#J11-100014	
 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 consistent with plant documentation 	Y⊠ N□ U□ N/A□
(Drawings 5817-8938 S01, S02, and S03)	
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	Y□ N⊠ U□
 One of the anchor bolts has a loose nut (see question #2). 	
Interaction Effects	
7. Are soft targets free from impact by nearby equipment or structures?	Y⊠ N□ U□ N/A□
8. Are overhead equipment, distribution systems, ceiling tiles and lighting,	Y⊠ N□ U□ N/A□
and masonry block walls not likely to collapse onto the equipment?	
9. Do attached lines have adequate flexibility to avoid damage?	Y⊠ N□ U□ N/A□
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	Y⊠ N□ U□
Questions 7-9 satisfied	

Opiomia Malladanus Obooblist (CMO) - CMEI 2 004	Status: Y⊠ N⊡ U⊡
Seismic Walkdown Checklist (SWC) <u>SWEL2-021</u>	
Equipment ID No. FS MHX0002 Equip. Class Tanks and Heat Excha	ngers
Equipment Description Back-Up Fuel Pool Heat Exchanger PO#J11-100014	
Other Adverse Conditions	
11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment?	Y⊠ N□ U□
Comments (Additional pages may be added as necessary)	
 For area walk-by checklist see AWC-051 	
Evaluated by: Brian Pace Blank France	Date: 10-10-2012
durikpali)	
Dinesh Patel	10-10-2012

Status:	Y⊠	N□	U

Seismic	Walkdown	Checklist	(SWC)	SWEL2-021

Equipment ID No. FS MHX0002 Equip. Class Tanks and Heat Exchangers

Equipment Description Back-Up Fuel Pool Heat Exchanger PO#J11-100014

Photographs



Note: Back-Up Fuel Pool Heat Exchanger



Note: Bolt (second from the left) has a loose nut, gap between bottom nut and washer

Sheet 1 of 4

Status: Y⊠ N⊟ U⊟
Seismic Walkdown Checklist (SWC) <u>SWEL2-022</u>
Equipment ID No. 7FS0 3/4-72 Equip. Class ¹ Other (Pipe)
Equipment Description REFUEL CANAL DR PUMP STRN DRAIN LINE
Location: Bldg. FHB Floor El35 Room, Area
Manufacturer, Model, Etc. (optional but recommended)
Instructions for Completing Checklist
This checklist may be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.
Anchorage
 Is the anchorage configuration verification required (i.e., is the item one Y☐ N☒ of the 50% of SWEL items requiring such verification)?
Consists of drain line and its components
2. Is the anchorage free of bent, broken, missing or loose hardware? Y⊠ N□ U□ N/A□ All anchorage of components and pipe supports are in good condition
3. Is the anchorage free of corrosion that is more than mild surface Y⊠ N□ U□ N/A□ oxidation? • No corrosion found on any anchorage
4. Is the anchorage free of visible cracks in the concrete near the

No visible cracks near pipe supports

¹ Enter the equipment class <u>name</u> from Appendix B: Classes of Equipment.

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Seismic Walkdown Checklist (SWC) <u>SWEL2-022</u>	
Equipment ID No. 7FS0 3/4-72 Equip. Class Other (Pipe)	
Equipment Description REFUEL CANAL DR PUMP STRN DRAIN LINE	
 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 NU UNAX
 6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Questions 2-4 are satisfied; no seismic concern 	Y⊠ N□ U□
Interaction Effects	
7. Are soft targets free from impact by nearby equipment or structures?	Y⊠ N□ U□ N/A□
 8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Overhead lighting has no cage. Falling bulbs will not impact piping or supports. This is no seismic concern. 	Y⊠ N□ U□ N/A□
9. Do attached lines have adequate flexibility to avoid damage? • Line is well supported	Y⊠ N□ U□ N/A□
 10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Questions 7-9 are satisfied 	Y⊠ N□ U□

Seismic Walkdown Checklist (SWC) SWEL2-022	Status: Y⊠ N□ U□
Equipment ID No. 7FS0 3/4-72 Equip. Class Other (Pipe)	
Equipment Description REFUEL CANAL DR PUMP STRN DRAIN LINE	
Other Adverse Conditions	
11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment?	Y⊠ N□ U□
	·
Comments (Additional pages may be added as necessary)	
 This piping was included due to potential for rapid drain down of Piping is consistent with plant isometric, see drawing V8.4-1001 See AWC-050 for Area Walk-By Checklist 	·
Evaluated by: Brian Pace Blank France	_ Date: <u>10-10-2012</u>
dnikpalis	
Dinesh Patel	<u>10-10-2012</u>

Seismic Walkdown Checklist (SWC) SWEL2-022	Status:	Y⊠	N_ U_
Equipment ID No. 7FS0 3/4-72 Equip. Class_Other (Pipe)			
Equipment Description REFUEL CANAL DR PUMP STRN DRAIN LINE			

Photographs



Note: Piping run 7FS0 3/4-72

Sheet 1 of 5

	Status: Y⊠ N∐ U∐
Seismic Walkdown Checklist (SWC) <u>SWEL2-023</u>	
Equipment ID No. 7FS4-45 Equip. Class Other (Pipe)	
Equipment Description Refuel Canal Drain Pump Suction	
Location: Bldg. FHB Floor El35 Room, Area Col. 4FH, Line	e V
Manufacturer, Model, Etc. (optional but recommended)	
Instructions for Completing Checklist	
This checklist may be used to document the results of the Seismic Walkdown of a SWEL. The space below each of the following questions may be used to record the findings. Additional space is provided at the end of this checklist for documenting	he results of judgments and
Anchorage	
 1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Consists of drain pump suction line and its components 	Y□ N⊠
Is the anchorage free of bent, broken, missing or loose hardware? All anchorage of components and pipe supports is in good condition	Y⊠ N□ U□ N/A□
Is the anchorage free of corrosion that is more than mild surface oxidation? No corresion found on any anchorage.	Y⊠ N□ U□ N/A□
No corrosion found on any anchorage	
Is the anchorage free of visible cracks in the concrete near the anchors? No visible cracks near pine supports.	Y⊠ N□ U□ N/A□
 No visible cracks near pipe supports 	

 $^{^{\}mbox{\tiny 1}}$ Enter the equipment class \underline{name} from Appendix B: Classes of Equipment.

Seismic Walkdown Checklist (SWC) SWEL2-023	Status: Y⊠ N□ U□
Equipment ID No. 7FS4-45 Equip. Class Other (Pipe)	
Equipment Description Refuel Canal Drain Pump Suction	
 Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) 	Y N U N/A
 6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Questions 2-4 are satisfied; no seismic concern 	Y⊠ N□ U□
Interaction Effects	
7. Are soft targets free from impact by nearby equipment or structures?	Y⊠ N□ U□ N/A□
 8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Overhead lighting has no cage. Falling bulbs will not impact piping or supports. This is not a seismic concern. 	Y⊠ N□ U□ N/A□
 9. Do attached lines have adequate flexibility to avoid damage? Lines are well supported 	Y⊠ N□ U□ N/A□
 10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Questions 7-9 are satisfied 	Y⊠ N□ U□

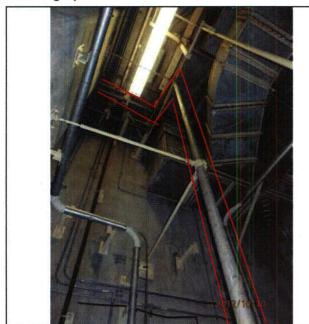
Seismic Walkdown Checklist (SWC)SWEL2-023	Status: YX N U
Equipment ID No. <u>7FS4-45</u> Equip. Class <u>Other (Pipe)</u>	
Equipment Description Refuel Canal Drain Pump Suction	
Other Adverse Conditions	
11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment?	Y⊠ N□ U□
Comments (Additional pages may be added as necessary)	
 This piping was included due to potential for rapid drain down of 	the spent fuel pool
Piping is consistent with plant isometric; see drawing 4305-4446 Piping is consistent with plant isometric; see drawing 4305-4446 Piping is consistent with plant isometric; see drawing 4305-4446	
 See AWC-050 for Area Walk-By Checklist 	
Evaluated by: Brian Pace	Date: 10-10-2012
A ()	
dnikpali	
Dinesh Patel	10-10-2012

	12000000000		
Status:	$\sqrt{\nabla}$	NI	
Status.		INI	U

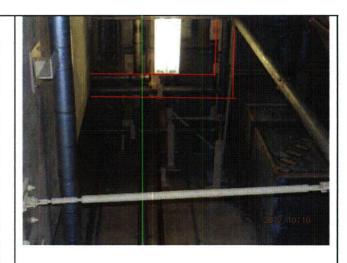
Page 500 of 516

Seismic Walkdo	wn Checklist (SWC)		otatus.	о Ц
Equipment ID No.	7FS4-45	Equip. Class Other (Pipe)		
Equipment Descrip	tion Refuel Canal Drain	Pump Suction		

Photographs



Note: Pipe 7FS4-45



Note: Pipe 7FS4-45

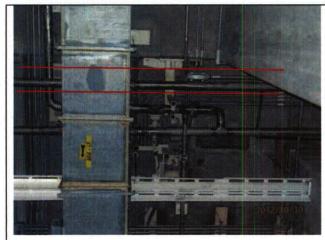
Sheet 5 of 5

Status:	YX	$N\square$	$\cup \square$

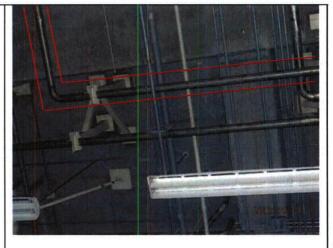
Seismic Walkdown Checklist (SWC) SWEL2-023

Equipment ID No. 7FS4-45 Equip. Class Other (Pipe)

Equipment Description Refuel Canal Drain Pump Suction







Note: Pipe 7FS4-45

Page 502 of 516

Sheet 1 of 5

Status: Y⊠ N∟ U∟	J
Seismic Walkdown Checklist (SWC) <u>SWEL2-024</u>	
Equipment ID No. 7FS4-46 Equip. Class ¹ _OTHER (PIPE)	
Equipment Description SPENT FUEL CASK STORAGE TO DRAIN PUMP SUCTION	
Location: Bldg. FHB Floor El35 Room, Area	
Manufacturer, Model, Etc. (optional but recommended)	
Instructions for Completing Checklist	
This checklist may be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.	
Anchorage	
 Is the anchorage configuration verification required (i.e., is the item one Y N N N N N N N N N N N N N N N N N N	
 Consists of cask storage to drain pump suction line and its components 	
 2. Is the anchorage free of bent, broken, missing or loose hardware? Y∑ N☐ U☐ N/A☐ All anchorage of components and pipe supports is in good condition 	
3. Is the anchorage free of corrosion that is more than mild surface Y⊠ N□ U□ N/A□ oxidation?	
No corrosion found on any anchorage	
4. Is the anchorage free of visible cracks in the concrete near the anchors? Y∑ N□ U□ N/A□ anchors?	

No visible cracks in concrete near pipe supports

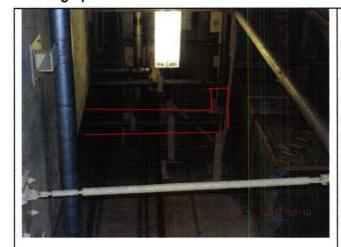
¹ Enter the equipment class <u>name</u> from Appendix B: Classes of Equipment.

Seismic Walkdown Checklist (SWC)SWEL2-024	Status: Y⊠ N□ U□
Equipment ID No. 7FS4-46 Equip. Class OTHER (PIPE)	
Equipment Description SPENT FUEL CASK STORAGE TO DRAIN PUMP SU	CTION
 Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) 	Y□ N□ U□ N/A⊠
 6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Questions 2-4 are satisfied; no seismic concern 	Y⊠ N□ U□
Interaction Effects	
7. Are soft targets free from impact by nearby equipment or structures?	Y⊠ N□ U□ N/A□
Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	Y⊠ N□ U□ N/A□
 9. Do attached lines have adequate flexibility to avoid damage? Line is well supported 	Y⊠ N□ U□ N/A□
 10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Questions 7-9 are satisfied 	Y⊠ N□ U□

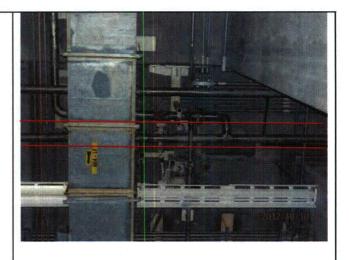
Seismic Walkdown Checklist (SWC) SWEL2-024	Status: Y⊠ N□ U□
Equipment ID No. 7FS4-46 Equip. Class OTHER (PIPE)	
Equipment Description SPENT FUEL CASK STORAGE TO DRAIN PUMP SUC	TION
Other Adverse Conditions	
Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment?	Y⊠ N□ U□
Comments (Additional pages may be added as necessary)	
 This piping was included due to potential for rapid drain down of the Piping is consistent with plant isometric; see drawing 4305-4446 See AWC-050 for Area Walk-By Checklist 	ne spent fuel pool.
Evaluated by: Brian Pace Burn HPan Amilbali	Date: <u>10-10-2012</u>
Dinesh Patel	10-10-2012

Seismic Walkdown Checklist (SWC) <u>SWEL2-024</u>	Status:	Y⊠ N□ U□
Equipment ID No. 7FS4-46 Equip. Class_OTHER (PIPE)		
Equipment Description SPENT FUEL CASK STORAGE TO DRAIN PUMP SUCTI	ON	

Photographs



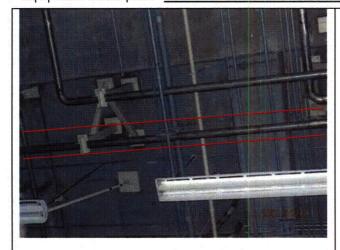
Note: 7FS4-46



Note: 7FS4-46

Sheet 5 of 5

Seismic Walkdown Checklist (SWC)		Status:	Υ⊠	N□	U
Equipment ID No. 7FS4-46	Equip. Class OTHER (PIPE)				
Equipment Description SPENT FUEL CAS	SK STORAGE TO DRAIN PUMP SUCTIO	N			



Note: 7FS4-46

Page 507 of 516

Sheet 1 of 5

	Status: Y⊠ N⊟ U⊟
Seismic Walkdown Checklist (SWC) <u>SWEL2-025</u>	
Equipment ID No. 7FS4-47 Equip. Class OTHER (PIPE)	
Equipment Description SPENT FUEL CASK DECONTAMINATION PIT	
Location: Bldg. FHB Floor El35 Room, Area	
Manufacturer, Model, Etc. (optional but recommended)	
Instructions for Completing Checklist	
This checklist may be used to document the results of the Seismic Walkdown of SWEL. The space below each of the following questions may be used to record findings. Additional space is provided at the end of this checklist for documenting	the results of judgments and
Anchorage	
 Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? 	Y□ N⊠
 Consists of cask decontamination pit line and its components 	
Is the anchorage free of bent, broken, missing or loose hardware? All anchorage of components and pipe supports is in good condition	Y⊠ N□ U□ N/A□
Is the anchorage free of corrosion that is more than mild surface oxidation?	Y⊠ N□ U□ N/A□
No corrosion found on any anchorage	
Is the anchorage free of visible cracks in the concrete near the anchors?	Y⊠ N□ U□ N/A□
 No visible cracks in concrete near pipe supports 	

¹ Enter the equipment class <u>name</u> from Appendix B: Classes of Equipment.

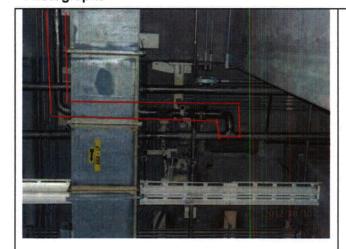
Optional a Mallada and Okasal Mad (OMO) - OMELO OOF	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) <u>SWEL2-025</u>	
Equipment ID No. 7FS4-47 Equip. Class OTHER (PIPE)	
Equipment Description SPENT FUEL CASK DECONTAMINATION PIT	
 Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) 	Y N U N/A
 6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Questions 2-4 are satisfied; no seismic concern 	Y⊠ N□ U□
Interaction Effects	
7. Are soft targets free from impact by nearby equipment or structures?	Y⊠ N□ U□ N/A□
Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	Y⊠ N□ U□ N/A□
9. Do attached lines have adequate flexibility to avoid damage? • Line is well supported	Y⊠ N□ U□ N/A□
 10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Questions 7-9 are satisfied 	Y⊠ N□ U□

Seismic Walkdown Checklist (SWC)SWEL2-025	Status: Y⊠ N□ U□
Equipment ID No. 7FS4-47 Equip. Class OTHER (PIPE)	
Equipment Description SPENT FUEL CASK DECONTAMINATION PIT	
Other Adverse Conditions 11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment?	Y⊠ N□ U□ ·
 Comments (Additional pages may be added as necessary) This piping was included due to potential for rapid drain down of Piping is consistent with plant isometric. Refer to drawing 4305-6 See AWC-050 for Area Walk-By Checklist 	•
Evaluated by: Brian Pace Branch Prace dmikpali	Date: <u>10-10-2012</u>
Dinesh Patel	10-10-2012

Status:	$Y \boxtimes$	N	U

Seismic Walkdown Checklist (SWC) SWEL2-025	Status:	YM NU UU
Equipment ID No. 7FS4-47 Equip. Class OTHER (PIPE)		ACCOMMENDATION OF THE STATE OF
Equipment Description SPENT FUEL CASK DECONTAMINATION PIT		

Photographs



Note: 7FS4-47



Note: 7FS4-47

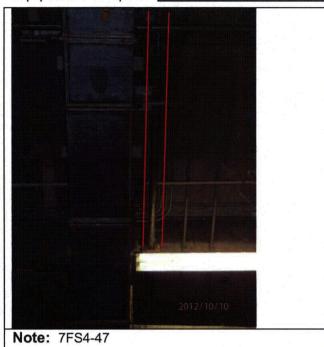
Sheet 5 of 5

Status:	YX	$N\square$	$\cup \square$

Seismic Walkdown Checklist (SWC) SWEL2-025

Equipment ID No. <u>7FS4-47</u> Equip. Class <u>OTHER (PIPE)</u>

Equipment Description SPENT FUEL CASK DECONTAMINATION PIT



Page 512 of 516

Sheet 1 of 5

	Status: Y⊠ N⊟ U⊟
Seismic Walkdown Checklist (SWC) <u>SWEL2-026</u>	
Equipment ID No. FS MPMP0002 Equip. Class Horizontal Pumps	
Equipment Description Refueling Canal Drain Pump	
Location: Bldg. FHB Floor El35 Room, Area Room B58, C	Col. 4FH, Line V
Manufacturer, Model, Etc. (optional but recommended) Goulds Pumps, Inc., 3	196ST6
Instructions for Completing Checklist	
This checklist may be used to document the results of the Seismic Walkdown of SWEL. The space below each of the following questions may be used to record findings. Additional space is provided at the end of this checklist for documenting	the results of judgments and
Anchorage	
 Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? 	Y□ N⊠
 Item not one of the 50% of SWEL items requiring anchorage configuration verification 	
2. Is the anchorage free of bent, broken, missing or loose hardware?	Y⊠ N□ U□ N/A□
 The pump is mounted to the skid with 3 bolts, bolts are in good condition 	•
 Four 5/8" diameter anchor bolts mount the skid to the concrete, bolts are in good condition; see drawing G501, S03 for details 	
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	Y⊠ N□ U□ N/A□
Anchorage is free of corrosion	
Is the anchorage free of visible cracks in the concrete near the anchors?	Y⊠ N□ U□ N/A□

No cracks were observed in the concrete

¹ Enter the equipment class <u>name</u> from Appendix B: Classes of Equipment.

	Status: Y⊠ N⊟ U⊟
Seismic Walkdown Checklist (SWC) <u>SWEL2-026</u>	
Equipment ID No. FS MPMP0002 Equip. Class Horizontal Pumps	
Equipment Description Refueling Canal Drain Pump	
 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⊠
 Item not one of the 50% of SWEL items requiring anchorage configuration verification 	
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	Y⊠ N□ U□
Questions 2-4 are satisfied; no seismic concern	
Interaction Effects	
7. Are soft targets free from impact by nearby equipment or structures?	Y⊠ N□ U□ N/A□
No soft targets around equipment.	
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	Y⊠ N□ U□ N/A□
Overhead lights have no cage. The fixtures are properly	
mounted. Falling bulbs would have no impact on the equipment and is not a seismic concern.	
9. Do attached lines have adequate flexibility to avoid damage?	Y⊠ N□ U□ N/A□
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	Y⊠ N□ U□
 Questions 7-9 are satisfied 	

Seismic Walkdown Checklist (SWC)SWEL2-026	Status: Y⊠ N∐ U∐
Equipment ID No. FS MPMP0002 Equip. Class Horizontal Pumps	
Equipment Description Refueling Canal Drain Pump	
Other Adverse Conditions	
11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment?	Y⊠ N□ U□
Comments (Additional pages may be added as necessary)	
 See AWC-050 for Area Walk-By Checklist 	
Evaluated by: Brian Pace Evaluated by: Brian Pace	_ Date: 10-10-2012
dmiskpali]	
Dinesh Patel	10-10-2012

Seismic Walkdown Checklist (SWC) <u>SWEL2-026</u>	Status: Y⊠ N□ U□
Equipment ID No. FS MPMP0002 Equip. Class Horizontal Pumps	
Equipment Description Refueling Canal Drain Pump	

Photographs



Note: Refueling Canal Drain Pump and Motor



Note: Bolts mounting pump to skid in good condition

Sheet 5 of 5

Status: Y⊠ N□ U□

Seismic Walkdown Checklist (SWC) SWEL2-026

Equipment ID No. FS MPMP0002 Equip. Class Horizontal Pumps

Equipment Description Refueling Canal Drain Pump



Note: Bolts mounting skid to concrete in good condition



Note: Lines are properly attached