JAF-RPT-12-00015 Rev. 0

JAF SEISMIC WALKDOWN REPORT FOR RESOLUTION OF FUKUSHIMA NEAR-TERM TASK FORCE RECOMMENDATION 2.3 SEISMIC

NOVEMBER 2012

BOOK 2 OF 3

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 1 of 5	
	Status: Y☐ N☐ U⊠
Seismic Walkdown Checklist (SWC) <u>SWEL1-456</u>	
Equipment ID No. 71BMCC-6 Equip. Class ¹ 1- Motor Contr	ol Center
Equipment Description Reactor building Motor Control Center	
Location: Bldg. RB Floor El. 272' Room, Area Col 8,	Line Y
Manufacturer, Model, Etc. (optional but recommended)	
Instructions for Completing Checklist	
This checklist may be used to document the results of the Seismic Walkd SWEL. The space below each of the following questions may be used to findings. Additional space is provided at the end of this checklist for document	record the results of judgments and
Anchorage	
 Is the anchorage configuration verification required (i.e., is the iter of the 50% of SWEL items requiring such verification)? 	n one Y⊠ N□
2. Is the anchorage free of bent, broken, missing or loose hardware?	Y N UN N/A
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	Y□ N□ U⊠ N/A□
4. Is the anchorage free of visible cracks in the concrete near the	Y□ N□ U⊠ N/A□
anchors?	

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

ATTACHMENT 9.6 SEISMIC WALKDOWN CHECKLIST FORM Sheet 2 of 5 Status: Y N U U □ Seismic Walkdown Checklist (SWC) SWEL1-456 Equip. Class 1- Motor Control Center Equipment ID No. 71BMCC-6 Equipment Description Reactor building Motor Control Center Y□ N□ U☒ N/A□ 5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) $Y \square N \square U \boxtimes$ 6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? **Interaction Effects** Y⊠ N□ U□ N/A□ 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? 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 $Y \boxtimes N \square U \square$

of potentially adverse seismic interaction effects?

ATTACHMENT 9.6		SEISMIC	WALKDOWN CHECKLIST FORM
Sheet 3 of 5			
			Status: Y□ N□ U⊠
Seismic Walkdown Checkl	ist (SWC) <u>SWEL1-456</u>		
Equipment ID No. 71BMCC-6	Equip. Class_1-	Motor Control Center	
Equipment Description Reacto	or building Motor Control Cen	ter	
Other Adverse Conditions		,	
11. Have you looked for and	d found no other seismic con ety functions of the equipmer		⊠ N□ U□
<u>Comments</u> (Additional pages r	may be added as necessary)		
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		•	
•			
	a Davil		
Evaluated by: <u>A.G. Porch</u>		,	Date: 10/31/2012
<u>@</u>	Sanaff	•	700. 10/01/2012
C. Sawatzke			10/31/2012

ATTACHMENT 9 6							
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SEISMIC WALKDOWN CHECKLIST FORM

Sheet 4 of 5

Status: Y □ N □ U ⊠

Seismic Walkdown Checklist (SWC) <u>SWEL1-456</u>

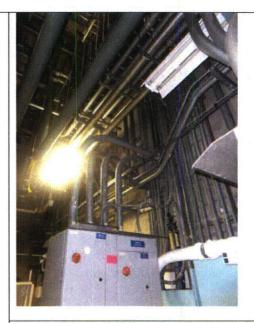
Equipment ID No. 71BMCC-6 Equip. Class 1- Motor Control Center

Equipment Description Reactor building Motor Control Center

Photographs



Note: 71BMCC-6 Front View



Note: 71BMCC-6 Attached Lines

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 5 of 5 Seismic Walkdown Checklist (SWC)SWEL1-456	Status: Y□ N□ U⊠
Equipment ID No. <u>71BMCC-6</u> Equip. Class_	1- Motor Control Center
Equipment Description Reactor building Motor Control Ce	enter
Note: 71BMCC-6 Side View	Note:

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 1 of 4	
Seismic Walkdown Checklist (SWC) <u>SWEL1-457</u>	Status: Y⊠ N⊟ U⊟
Equipment ID No. 71DC-A2 Equip. Class 1 14 - Distribution	n Panels
Equipment Description Relay Room Distribution Cabinet	
Location: Bldg. RR Floor El. 284.8 Room, Area Col. 10	, Line F
Manufacturer, Model, Etc. (optional but recommended)	
Instructions for Completing Checklist	
This checklist may be used to document the results of the Seismic Walkdo SWEL. The space below each of the following questions may be used to refindings. Additional space is provided at the end of this checklist for document	ecord the results of judgments and
Anchorage	
 Is the anchorage configuration verification required (i.e., is the item of the 50% of SWEL items requiring such verification)? 	one Y⊠ N□
The anchorage configuration verification is required.	
 Is the anchorage free of bent, broken, missing or loose hardware? The bottom right hand corner Unistrut Channel nut has failed. The resolution to this deficiency is to be tracked by CR-JAF-2012-0795- 	Y□ N⊠ U□ N/A□ 4
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	Y⊠ N□ U□ N/A□
Anchorage is free of corrosion that is more than mild surface oxidate	tion.
Is the anchorage free of visible cracks in the concrete near the anchors?	Y⊠ N□ U□ N/A□
Anchorage is free of visible cracks in the concrete near the anchors	\$

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

ATTACHMENT 9.6 SEIS	MIC WALKDO	WN CHECKLIST FOR
Sheet 2 of 4		
Seismic Walkdown Checklist (SWC) SWEL1-457	Status	: Y⊠ N□ U□
Equipment ID No. 71DC-A2 Equip. Class 14 - Distribution Pane	els	
Equipment Description Relay Room Distribution Cabinet		·
 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
The anchorage configuration is consistent with the SEWS for 71DC-A2 (Rev. 0). The panel is anchored with four 3/8" bolts to a pair of unistrut channels, which are welded to a steel building column.		•
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	Y□ N⊠	U□
Interaction Effects		
 Are soft targets free from impact by nearby equipment or structures? The soft targets are free from impact by nearby equipments and structures. 	Y⊠ N□	U□ N/A□
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? The overhead equipments and distribution systems are not likely to collapse onto the equipment.	Y⊠N□	U N/A
9. Do attached lines have adequate flexibility to avoid damage? The attached lines have adequate flexibility.	Y⊠N□	U N/A
Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? The equipment is free of potentially adverse seismic interaction effects.	Y⊠N□	U□

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 3 of 4	
Seismic Walkdown Checklist (SWC) <u>SWEL1-457</u>	Status: Y⊠ N□ U□
	Panala
Equipment ID No. 71DC-A2 Equip. Class 14 – Distribution	Paneis
Equipment Description Relay Room Distribution Cabinet	
Other Adverse Conditions	
11. Have you looked for and found no other seismic conditions that cou adversely affect the safety functions of the equipment?	ıld Y⊠ N□ U□
autoroory amount are causty ramous no or and equipment.	
Comments (Additional pages may be added as necessary)	
Evaluated by: <u>Donald Koberg</u> Simulal Why	D. I 0/0/4/0
Evaluated by: <u>Donala Koberg</u>	Date: <u>9/24/12</u>
Phyll.	· · · · · · · · · · · · · · · · · · ·
Pouria Pourabohadi	0/24/12

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 4 of 4

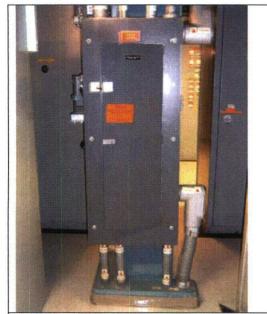
Status: Y⊠ N□ U□

Seismic Walkdown Checklist (SWC) <u>SWEL1-457</u>

Equipment ID No. 71DC-A2 Equip. Class 14 – Distribution Panels

Equipment Description Relay Room Distribution Cabinet

Photographs



Note: 71DC-A2 Cabinet



Note: Failed Unistrut Channel Nut, Refer to question 2.

ATTACHMENT 9.6 SEISMIC WALKDOWN CHECKLIST FORM Sheet 1 of 5 Status: Y N U ∪ Seismic Walkdown Checklist (SWC) SWEL1- 462 Equip. Class: 3 Medium Voltage, Metal clad Switchgear Equipment ID No. 71DSC-11561 Equipment Description <u>L15 UNIT SUBSTATION TRANSF T-13 HIGH SIDE DISC SW</u> Location: Bldg. RB Floor El. 300 Room, Area Col 2 Line R 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)? Y□ N□ U⊠ N/A□ 2. Is the anchorage free of bent, broken, missing or loose hardware? The anchorage is not visible for anchorage. 3. Is the anchorage free of corrosion that is more than mild surface Y□ N□ U⊠ N/A□ oxidation? Y□ N□ U⊠ N/A□ 4. Is the anchorage free of visible cracks in the concrete near the

anchors?

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

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 2 of 5	
Seismic Walkdown Checklist (SWC)SWEL1- 462	Status: Y☐ N☐ U⊠
Equipment ID No. 71DSC-11561 Equip. Class 3 Medium Volta	ge, Metal clad Switchgear
Equipment Description <u>L15 UNIT SUBSTATION TRANSF T-13 HIGH SI</u>	DE DISC SW
 Is the anchorage configuration consistent with plant documentation (Note: This question only applies if the item is one of the 50% for van anchorage configuration verification is required.) 	
6. Based on the above anchorage evaluations, is the anchorage free potentially adverse seismic conditions? N/A	of Y□ N□ U⊠
Interaction Effects	······································
 Are soft targets free from impact by nearby equipment or structure No soft targets. 	s? Y⊠ N□ U□ N/A□
Are overhead equipment, distribution systems, ceiling tiles and ligiting and masonry block walls not likely to collapse onto the equipment.	
8' lighting fixture would not likely to hit SWEL Item. If chain (1 of 2 break, SWEL is secured- no seismic concern.	2)
9. Do attached lines have adequate flexibility to avoid damage?	Y⊠ N□ U□ N/A□
Based on the above seismic interaction evaluations, is equipment of potentially adverse seismic interaction effects?	free Y⊠ N□ U□

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 3 of 5	
	Status: Y☐ N☐ U⊠
Seismic Walkdown Checklist (SWC) <u>SWEL1- 462</u>	
Equipment ID No. 71DSC-11561 Equip. Class 3 Medium Volta	age, Metal clad Switchgear
Equipment Description <u>L15 UNIT SUBSTATION TRANSF T-13 HIGH SI</u>	DE DISC SW
Other Adverse Conditions	
11. Have you looked for and found no other seismic conditions that co adversely affect the safety functions of the equipment?	ould Y⊠ N□ U□
Comments (Additional pages may be added as necessary)	
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I U, Parch	
Evaluated by: A. G. Porch	Date: <u>11/01/2012</u>
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C Squatzka P	44/04/2042

Sheet 4 of 5

Status: Y □ N □ U ⊠

Seismic Walkdown Checklist (SWC) SWEL1- 462

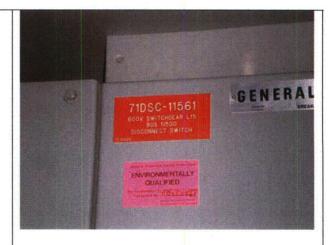
Equipment ID No. 71DSC-11561 Equip. Class 3 Medium Voltage, Metal clad Switchgear

Equipment Description <u>L15 UNIT SUBSTATION TRANSF T-13 HIGH SIDE DISC SW</u>

Photographs



Note: 71DSC-11561



Note: 71DSC-11561

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 5 of 5	
	Status: Y□ N□ U⊠
Seismic Walkdown Checklist (SWC) SWEL1- 462	
Equipment ID No. 71DSC-11561 Equip. Class 3 Medium V	/oltage, Metal clad Switchgear
Equipment Description <u>L15 UNIT SUBSTATION TRANSF T-13 HIGH</u>	I SIDE DISC SW
Note: 71DSC-11561 Note:	
Note.	

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FOR
Sheet 1 of 4	Status: Y□ N□ U⊠
Seismic Walkdown Checklist (SWC) <u>SWEL1-470</u>	•
Equipment ID No. 71INV-3A Equip. Class 16-Battery Char	gers and Inverters
Equipment Description LPCI MOV Indep Power Supply A Inverter	
Location: Bldg. RB Floor El. 344.6' Room, Area RB 344	.6', Col.5.5, Line P
Manufacturer, Model, Etc. (optional but recommended)	
Instructions for Completing Checklist	
This checklist may be used to document the results of the Seismic Walkdor SWEL. The space below each of the following questions may be used to refindings. Additional space is provided at the end of this checklist for docum	ecord the results of judgments and
Anchorage	
1. Is the anchorage configuration verification required (i.e., is the item of the 50% of SWEL items requiring such verification)?	one Y⊠ N□
The item is one of the 50% of SWEL items requiring anchorage configuration verification.	
 Is the anchorage free of bent, broken, missing or loose hardware? The expansion anchors and mounting bolts are free of bent, broken missing or loose hardware. 	Y□ N□ U⊠ N/A□ ,
Panels need to be removed and anchorage of internal components needs to be checked.	
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	Y⊠ N□ U□ N/A□
Anchorage is free of corrosion that is more than mild surface oxidat	ion.
Is the anchorage free of visible cracks in the concrete near the anchors?	Y⊠ N□ U□ N/A□
There are hair line cracks in the grout on top of concrete foundation and are deemed insignificant based on engineering judgment.),

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

	EISMIC WALKDOWN CHECKLIST FORM
Sheet 2 of 4	
Seigneig Malledown Chaplalist (SMC) - SMEL 4 470	Status: Y☐ N☐ U⊠
Seismic Walkdown Checklist (SWC) SWEL1-470	
Equipment ID No. 71INV-3A Equip. Class 16-Battery Charge	ers and Inverters
Equipment Description	
 Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for whi an anchorage configuration verification is required.) 	Y⊠ N□ U□ N/A□ ch
The 5/8", 3/4", and 1" Hilti Kwik Bolt 3 anchors and the 1/2" ASTM Amounting bolts are configured in accordance with the JAF-CALC-09-00042 calculation, Rev. 3 per EC-17239, DWG. No 1.26-2 and 1.26-102.	•
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	Y□ N□ U⊠
The external anchorage is free of potentially adverse seismic conditions.	
Panels need to be removed and anchorage of internal components needs to be checked.	
Interaction Effects	
7. Are soft targets free from impact by nearby equipment or structures? Soft targets are free from impact from nearby equipment or structure	,
Are overhead equipment, distribution systems, ceiling tiles and lighting and masonry block walls not likely to collapse onto the equipment?	ng, Y⊠ N□ U□ N/A□
Light fixtures near the SWEL item need safety latches to prevent it fr falling down during a seismic event. However the light fixtures will not damage the SWEL item.	
 Do attached lines have adequate flexibility to avoid damage? The lines attached to the SWEL item have adequate flexibility to avoid damage. 	Y⊠ N□ U□ N/A□ id
	•
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	ee Y⊠ N□ U□
Based on the above seismic interaction evaluations, the equipment if free of potentially adverse seismic interaction effects.	is ·

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 3 of 4	
Seismic Walkdown Checklist (SWC)SWEL1-470	Status: Y☐ N☑ U⊠
Equipment ID No. 71INV-3A Equip. Class 16-Battery Charge	gers and Inverters
Equipment Description LPCI MOV Indep Power Supply A Inverter	
Other Adverse Conditions	
11. Have you looked for and found no other seismic conditions that cou adversely affect the safety functions of the equipment? No other seismic conditions that could adversely affect the safety functions of the equipment in the area were found.	ıld Y⊠ N□ U□
<u>Comments</u> (Additional pages may be added as necessary)	· · · · · · · · · · · · · · · · · · ·
No additional comments.	
Evaluated by: <u>Harpreet Ghuman</u>	Date: <u>09/30/2012</u>
Yaroslav Losey	09/30/2012

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 4 of 4	
	Status: Y N U⊠
Seismic Walkdown Checklist (SWC) SWEL1-470	_
Equipment ID No. 71INV-3A Equip. Class 16-Battery Cha	argers and Inverters
Equipment Description LPCI MOV Indep Power Supply A Inverter	
Photographs	
Note: Picture of equipment 71NV-3A. Note:	

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 1 of 4	
	Status: Y□ N□ U⊠
Seismic Walkdown Checklist (SWC) SWEL1- 474	
Equipment ID No. 71L25 Equip. Class ¹ 2 Low Voltage S	witch gear and Breaker Panel
Equipment Description 600V Switchgear Distribution (Bus 12500)	
Location: Bldg. <u>EG</u> Floor El. <u>272</u> Room, Area <u>Col 18.</u>	5 Line A1
Manufacturer, Model, Etc. (optional but recommended)	
Instructions for Completing Checklist	
This checklist may be used to document the results of the Seismic Walkdow SWEL. The space below each of the following questions may be used to refindings. Additional space is provided at the end of this checklist for document	cord the results of judgments and
Anchorage	
 Is the anchorage configuration verification required (i.e., is the item of the 50% of SWEL items requiring such verification)? 	one Y□ N⊠
Tha anchorage is not visible-Deferred.	
2. Is the anchorage free of bent, broken, missing or loose hardware?	Y□ N□ U⊠ N/A□
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	Y□ N□ U⊠ N/A□
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Y□ N□ U⊠ N/A□

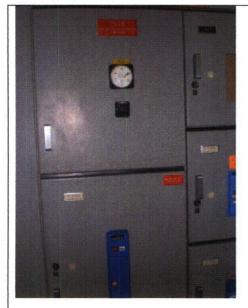
¹ Enter the equipment class <u>name</u> from Appendix B: Classes of Equipment.

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 2 of 4	
Seismic Walkdown Checklist (SWC) <u>SWEL1- 474</u>	Status: Y☐ N☐ U⊠
Equipment ID No. 71L25 Equip. Class 2 Low Voltage Sw	vitch gear and Breaker Panel
Equipment Description 600V Switchgear Distribution (Bus 12500)	
 Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for whan anchorage configuration verification is required.) 	
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? N/A	f Y□ N□ U⊠
Interaction Effects	,
7. Are soft targets free from impact by nearby equipment or structures? No soft targets.	Y⊠ N□ U□ N/A□
	VM NG HG N/AG
8. Are overhead equipment, distribution systems, ceiling tiles and lighti and masonry block walls not likely to collapse onto the equipment?	ng, 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 from of potentially adverse seismic interaction effects?	ee Y⊠ N□ U□

ATTACHMENT 9.6		Sı	EISMIC WALKDOWN CHECKLIST FORM
Sheet 3 of 4			,
			Status: Y☐ N☐ U⊠
Seismic Walkdow	n Checklist (SW	C) <u>SWEL1- 474</u>	
Equipment ID No.	71L25	Equip. Class 2 Low Voltage Sw	itch gear and Breaker Panel
Equipment Descripti	on <u>600V Switchge</u>	ar Distribution (Bus 12500)	
Other Adverse Con	ditions		
		o other seismic conditions that could ons of the equipment?	Y⊠ N□ U□
Comments (Additio	nal pages may be a	dded as necessary)	
٠	.*		
•			
	10,1	Sand	D-144/04/0040
Evaluated by: <u>A Por</u>	cn	·	Date: <u>11/01/2012</u>
<u>C. Sa</u>	watzke C. Sau	aft-	11/01/2012

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 4 of 4	
	Status: Y☐ N☐ U⊠
Seismic Walkdown Checklist (SWC)	
Equipment ID No. 71L25	Equip. Class 2 Low Voltage Switch gear and Breaker Panel
Equipment Description 600V Switchgear D	Distribution (Bus 12500)

Photographs



Note: 71L25



Note: 71L25

ATTACHMENT 9.6 SEISMIC WALKDOWN CHECKLIST F	ORM
Sheet 1 of 5	
Status: Y⊠ N ∪	\Box
Seismic Walkdown Checklist (SWC) SWEL1-475	
Equipment ID No. 71L26 Equip. Class¹ 2 – Low Voltage Switchgears and Breaker Panel	s
Equipment Description 600V Switchgear Distribution BUS 12600	
Location: Bldg. EB Floor El. 272 Room, Area C: 18.5, L: B	
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 an 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□ 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? 	
Anchorage is free of corrosion that is more than mild surface oxidation.	
4. Is the anchorage free of visible cracks in the concrete near the Y⊠ N□ U□ N/A□ anchors?	

Anchorage is free of visible cracks in the concrete near the anchors.

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

ATTACHMENT 9.6 SEISI	MIC WALKDOWN CHECKLIST FOR
Sheet 2 of 5	
Seismic Walkdown Checklist (SWC) <u>SWEL1-475</u>	Status: Y⊠ N□ U□
Equipment ID No. 71L26 Equip. Class 2 – Low Voltage Switch	chgears and Breaker Panels
Equipment Description 600V Switchgear Distribution BUS 12600	
 Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) The anchorage configuration is consistent with the SEWS for 71L26 	Y⊠ N□ U□ N/A□
(Rev. 0). The plug welds were confirmed.	,
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? The soft targets are free from impact by nearby equipment and structure.	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? Masonary block wall divides the East and West Electric bay. Modifications were made to enhance the walls as part of IE Bulliten 80-11. (Ref. Calculation No. C012, "HCLPF for block walls EB-272-1,2")	Y⊠ N□ U□ N/A□
9. Do attached lines have adequate flexibility to avoid damage? The attached lines have adequate flexibility.	Y⊠ N□ U□ N/A□
Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? The equipment is free of adverse seismic interaction effect.	Y⊠ N□ U□

ATTACHMENT 9.6 Sheet 3 of 5		SEIS	MIC WALKDOWN CH	ECKLIST FO
neet 3 Of 3			04-4 3457	
eismic Walkdowr	Checklist (SWC) SWEL1-475	•	Status: Y⊠	N_ U_
quipment ID No. 7		— Low Voltage Swit	tchgears and Break	er Panels
	n 600V Switchgear Distribution BUS 12		crigears and Dreak	CI I dilois
	1 600 Switchgear Distribution BOS 12			:
Other Adverse Cond	itions			
	ed for and found no other seismic condit ct the safety functions of the equipment?		Y⊠ N□ U□	
,			•	
omments (Addition	al pages may be added as necessary)			
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Evaluated by: <u>Donald</u>	Koberg Smald Why		Date: <u>9/25/12</u>	·
	XX			;
	Pourghobadi Pyr		9/25/12	•

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 4 of 5

Status: Y⊠ N□ U□

Seismic Walkdown Checklist (SWC) <u>SWEL1-475</u>

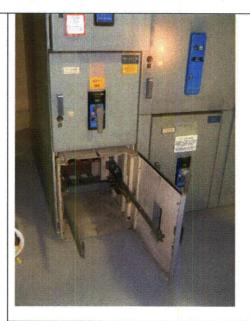
Equipment ID No. 71L26 Equip. Class 2 – Low Voltage Switchgears and Breaker Panels

Equipment Description 600V Switchgear Distribution BUS 12600

Photographs



Note: 71L26



Note: Bottom Corner Panel Open

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ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 5 of 5	
Calauria Walledauur Chaaldint (CWC) CWELL 4	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) SWEL1-4	
Equipment ID No. 71L26 Equip. Class	2 – Low Voltage Switchgears and Breaker Panels
Equipment Description 600V Switchgear Distribution BU	JS 12600
Note: Cabinet Base Plug Weld	Note:

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FOR
Sheet 1 of 5	,
	Status: Y□ N□ U⊠
Seismic Walkdown Checklist (SWC) SWEL1- 481	——————————————————————————————————————
Equipment ID No. 71MCC-161 Equip. Class 1 Motor Control	Center
Equipment Description 600V Motor Control Center (Bus 116100)	
Location: Bldg. RB Floor El. 272 Room, Area Col 1.5	5 Line W
Manufacturer, Model, Etc. (optional but recommended)	
Instructions for Completing Checklist	
This checklist may be used to document the results of the Seismic Walkdo SWEL. The space below each of the following questions may be used to refindings. Additional space is provided at the end of this checklist for document	ecord the results of judgments and
Anchorage	
 Is the anchorage configuration verification required (i.e., is the item of the 50% of SWEL items requiring such verification)? 	one Y□ N⊠
	•
2. Is the anchorage free of bent, broken, missing or loose hardware?	Y□ N□ U⊠ N/A□
Not Readily accessible.	
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	Y□ N□ U⊠ N/A□
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Y□ N□ U⊠ N/A□

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

ATTAC	HMENT 9.6	SEISMIC W	ALKDO'	WN CH	ECKLIS	T FOR
Sheet	2 of 5					
Saiom	nic Walkdown Checklist (SWC) <u>SWEL1- 481</u>	S	tatus:	Υ□	$N\square$	U⊠
	•					
	ment ID No. <u>71MCC-161</u> Equip. Class <u>1 Motor Control C</u>	Center				<u> </u>
Equipr	ment Description 600V Motor Control Center (Bus 116100)					
5.	Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for whan anchorage configuration verification is required.)		N□	U <u> </u>	N/A⊠	
6.	Based on the above anchorage evaluations, is the anchorage free o potentially adverse seismic conditions?	of Y	N□	U⊠		
Intera	ction Effects	,				
	Are soft targets free from impact by nearby equipment or structures' No soft targets.	?	N	U	N/A[]	
8.	Are overhead equipment, distribution systems, ceiling tiles and light and masonry block walls not likely to collapse onto the equipment?	ing, Y⊠	IN□	υ	N/A∐	
	and masonly block wans not likely to conapse onto the equipment:				•	
9.	Do attached lines have adequate flexibility to avoid damage?	YΣ	N	U	N/A∐	
						٠
10.	Based on the above seismic interaction evaluations, is equipment fr of potentially adverse seismic interaction effects?	ree Y⊠	N□	U <u> </u>		

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 3 of 5	
	Status: Y∐ N∏ U⊠
Seismic Walkdown Checklist (SWC) <u>SWEL1- 481</u>	·
Equipment ID No. 71MCC-161 Equip. Class 1 Motor Contr	ol Center
Equipment Description 600V Motor Control Center (Bus 116100)	
Other Adverse Conditions	
11. Have you looked for and found no other seismic conditions that cadversely affect the safety functions of the equipment?	ould Y⊠ N□ U□
	V.
Comments (Additional pages may be added as necessary)	
Area above 71MCC-161 is highly congested; cable trays, piping Supports, hardware etc are intact.	and conduits appear well supported.
•	
10. Dand	
Evaluated by: A. Porch	Date: <u>10/31/2012</u>
C. Sawatzke C. Sawatt	10/31/2012

ATTACHMENT 9.6			SEISMIC	WALKDOWN CHECKLIST FORM
Sheet 4 of 5				
Seismic Walkdo	wn Checklist (SWC)	SWEL1- 48	11	Status: Y☐ N☐ U⊠
Equipment ID No.	71MCC-161	Equip. Class_	1 Motor Control Center	

Photographs



Equipment Description 600V Motor Control Center (Bus 116100)

Note: 71MCC-161



Note: 71MCC-161

ATTACHMENT 9.6			SEISMIC	WALKDOWN C	HECKLIST FORM
Sheet 5 of 5 Seismic Walkdow	n Checklist (SWC)	SWEL1- 481		Status: Y] N□ U⊠
Equipment ID No.	71MCC-161	Equip. Class 1 Moto	or Control Center		
Equipment Description	on <u>600V Motor Contr</u>	rol Center (Bus 116100	0)		
Note: <u>71MCC-161</u>		Note:			5

ATTACHMENT 9.6 SEISMIC WALKDOWN CHECKLIST FO
Sheet 1 of 4
Status: Y☐ N☐ U⊠
Seismic Walkdown Checklist (SWC) <u>SWEL1- 487</u>
Equipment ID No. 71MCC-252 Equip. Class 1 Motor Control Centers and Wall-mounted contactors
Equipment Description 600V Motor Control Center (Bus 125200)
Location: Bldg. EB Floor El. 272 Room, Area Col. 18 Line A
Manufacturer, Model, Etc. (optional but recommended)
Instructions for Completing Checklist
This checklist may be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.
Anchorage)
 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.

Y⊠ N□ U□ N/A□

 $Y \boxtimes N \square U \square$

ATTACHMENT 9.6 SEISMIC WALKDOWN CHECKLIST FORM Sheet 2 of 4 Status: Y N U ∪ Seismic Walkdown Checklist (SWC) SWEL1- 487 Equip. Class 1 Motor Control Centers and Wall-mounted Equipment ID No. 71MCC-252 contactors Equipment Description 600V Motor Control Center (Bus 125200) Y□ N□ U□ N/A⊠ 5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) 6. Based on the above anchorage evaluations, is the anchorage free of $Y \square N \square U \boxtimes$ potentially adverse seismic conditions? **Interaction Effects** 7. Are soft targets free from impact by nearby equipment or structures? Y□ N□ U□ N/A⊠ No soft targets. 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?

of potentially adverse seismic interaction effects?

10. Based on the above seismic interaction evaluations, is equipment free

ATTACHMENT 9.6	Se	EISMIC WALKDOWN CHECKLIST FORM	
Sheet 3 of 4			
		Status: Y☐ N☐ U⊠	
Seismic Walkdown Checklist (SWC)	SWEL1- 487		
Equipment ID No. 71MCC-252	Equip. Class 1 Motor Control Centers and Wall-mounted contactors		
Equipment Description 600V Motor Cont.	rol Center (Bus 125200)		
Other Adverse Conditions			
Have you looked for and found no adversely affect the safety function		Y⊠ N⊡ U□	
Comments (Additional pages may be add	ded as necessary)		
		. (
	•		
•			
Evaluated by: A.Porch /	Sand.	Date: <u>11/1/2012</u>	
C. Sawatzke, C. Sawa	<i>to-</i>	11/1/2012	

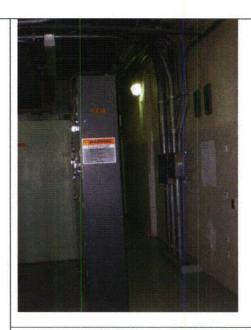
ATTACHMENT 9.6			SEISMIC WALKDOWN CHECKLIST FORM
Sheet 4 of 4			
			Status: Y□ N□ U⊠
Seismic Walkdo	wn Checklist (SWC)	SWEL1- 48	
Equipment ID No.	71MCC-252	Equip. Class_ contactors	1 Motor Control Centers and Wall-mounted

Equipment Description 600V Motor Control Center (Bus 125200)

Photographs



Note: 71MCC-252



Note: 71MCC-252

ATTACHMENT 9.6 SEISMIC WALKDOWN CHECKLIST FORM Sheet 1 of 5 Status: Y N U U □ Seismic Walkdown Checklist (SWC) SWEL 1-489 Equipment ID No. 71MCC-254 Equip. Class Motor Control Centers and Wall-mounted Contactors Equipment Description 600V Motor Control Center (Bus 125400) Location: Bldg. EG Floor El. <u>272</u> Room, Area Col 23 line A1 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)? Y□ N□ U⊠ N/A□ 2. Is the anchorage free of bent, broken, missing or loose hardware? 3. Is the anchorage free of corrosion that is more than mild surface Y□ N□ U⊠ N/A□ oxidation? Y⊠ N□ U□ N/A□ 4. Is the anchorage free of visible cracks in the concrete near the anchors? No cracks noted.

ATTACHMENT 9.6 SEI	SMIC WALKDOWN CHECKLIST FORM
Sheet 2 of 5	
Seismic Walkdown Checklist (SWC) SWEL 1- 489	Status: Y☐ N☐ U⊠
Equipment ID No. 71MCC-254 Equip. Class Motor Control Cente	ers and Wall-mounted Contactors
	and vvaii-mounted Contactors
Equipment Description 600V Motor Control Center (Bus 125400)	
 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⊠
	Ť
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	Y□ N□ U⊠
	•
Interaction Effects	
7. Are soft targets free from impact by nearby equipment or structures?	Y⊠ N□ U□ N/A□
8. Are overhead equipment, distribution systems, ceiling tiles and lighting and masonry block walls not likely to collapse onto the equipment?	, Y⊠ N□ U□ N/A□
,	
9. Do attached lines have adequate flexibility to avoid damage?	Y⊠ N□ U□ N/A□
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	Y⊠ N□ U□

ATTACHMENT 9.6	SEIS	MIC WALKDOWN CHECKLIST F	OR
Sheet 3 of 5	·		
Ontower Welledown Observited (OMO) CMEL 4 400		Status: Y☐ N☐ U[\boxtimes
Seismic Walkdown Checklist (SWC) <u>SWEL 1- 489</u>			
Equipment ID No. 71MCC-254 Equip. Class Motor Cont	trol Center	s and Wall-mounted Contac	tors
Equipment Description 600V Motor Control Center (Bus 125400)			
Other Adverse Conditions			
11. Have you looked for and found no other seismic conditions the adversely affect the safety functions of the equipment?	at could	Y⊠ N□ U□	
Comments (Additional pages may be added as necessary)			
,			
		•	
Evaluated by: R Casella Rich Casella		Date: <u>10-31-12</u>	
A Porch		10-31-12	

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ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 4 of 5

Status: Y N U U □

Seismic Walkdown Checklist (SWC) SWEL 1-489

Equipment ID No. 71MCC-254 Equip. Class Motor Control Centers and Wall-mounted Contactors

Equipment Description 600V Motor Control Center (Bus 125400)

Photographs



Note: 71MCC-254



Note: Conduit, duct, and cable tray above 71MCC-254

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 5 of 5	
Seismic Walkdown Checklist (SWC) SWEL 1-489	Status: Y☐ N☐ U⊠
Equipment ID No. 71MCC-254 Equip. Class Motor C	control Centers and Wall-mounted Contactors
Equipment Description 600V Motor Control Center (Bus 125400)	
Note: Fillet welds at base of 71MCC-254 Note:	

Rev. 0 Page 324 of 573

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 1 of 4	
	Status: Y⊠ N⊟ U⊟
Seismic Walkdown Checklist (SWC) <u>SWEL1-491</u>	
Equipment ID No. 71MCC-262 Equip. Class 1 - Motor Contractors	ol Centers and Wall Mounted
Equipment Description 600V Motor Control Center (BUS 12600)	
Location: Bldg. EB Floor El. 272 Room, Area Col. 18	, Line B
Manufacturer, Model, Etc. (optional but recommended)	
Instructions for Completing Checklist	,
This checklist may be used to document the results of the Seismic Walkdor SWEL. The space below each of the following questions may be used to refindings. Additional space is provided at the end of this checklist for docum	ecord the results of judgments and
Anchorage	~
 Is the anchorage configuration verification required (i.e., is the item of the 50% of SWEL items requiring such verification)? 	one Y⊠ N□
The anchorage configuration verification is required.	
Is the anchorage free of bent, broken, missing or loose hardware? Anchorage is free of bent, broken, missing or loos hardware.	Y⊠ N□ U□ N/A□
Is the anchorage free of corrosion that is more than mild surface oxidation?	Y⊠ N□ U□ N/A□
Anchorage is free of corrosion that is more than mild surface oxidat	tion.
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Y⊠ N□ U□ N/A□
Anchorage is free of visible eracks in the congrete poor the anchor	•

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

ATTACHMENT 9.6 Seis	SMIC WALKDOWN CHECKLIST FOR
Sheet 2 of 4	
Seismic Walkdown Checklist (SWC)SWEL1-491	Status: Y⊠ N□ U□
Equipment ID No. <u>71MCC-262</u> Equip. Class <u>1 – Motor Control Ce</u> <u>Contractors</u>	nters and Wall Mounted
Equipment Description 600V Motor Control Center (BUS 12600)	
5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) The anchorage configuration is consistent with SEWS for 71MCC-262. The 1/8" fillets 2" Long 20" center were field verified in accordance with DWG. No. 1.43-88.	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? The soft targets are free from imact by nearby equipment and structures	Y⊠ N□ U□ N/A□
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Masonary block wall divides the East and West Electric bay. Modifications were made to enhance the walls as part of IE Bulliten 80-11. (Ref. Calculation No. C012, "HCLPF for block walls EB-272-1,2")	
 Do attached lines have adequate flexibility to avoid damage? The attached lines have adequate flexibility. 	Y⊠ N□ U□ N/A□
Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? The equipment is free of potentially adverse seismic interaction effects.	Y⊠ N□ U□

ATTACHMENT 9.6		S	EISMIC WALKDOWN CHECKLIST FOR
Sheet 3 of 4			
			Status: Y⊠ N⊟ U⊟
Seismic Walkdown Ch	iecklist (SWC) <u>SV</u>	VEL1-491	· — —
Equipment ID No. 71MC		ip. Class <u>1 – Motor Control</u> tractors	Centers and Wall Mounted
Equipment Description 6	00V Motor Control Cer	nter (BUS 12600)	
Other Adverse Condition	ns		
	or and found no other s e safety functions of th	seismic conditions that could be equipment?	Y⊠ N□ U□
		•	
			•
Comments (Additional pa	iges may be added as	necessary)	
·			
	•	`	
Evaluated by: <u>Donald Kol</u>	perg Danalel Vir	by	Date: <u>9/25/12</u>
	Py	M.	
Pouria Pou	irahahadi / /	•	0/25/12

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 4 of 4

Status: Y⊠ N□ U□

Seismic Walkdown Checklist (SWC) SWEL1-491

Equipment ID No. 71MCC-262

4400 000

Equip. Class_1 – Motor Control Centers and Wall Mounted

Contractors

Equipment Description 600V Motor Control Center (BUS 12600)

Photographs



Note: 71MCC-262



Note: Base Welds

ATTACHMENT 9.6 SE	ISMIC WALKDOWN CHECKLIST FORM
Sheet 1 of 4	,
	Status: Y∐ N∏ U⊠
Seismic Walkdown Checklist (SWC) <u>SWEL1-493</u>	
Equipment ID No. 71MCC-264 Equip. Class 1 1 - Motor Control Contractors	Centers and Wall Mounted
Equipment Description 600V Motor Control Center (BUS 126400)	
Location: Bldg. EB Floor El. 272 Room, Area Col. 25.5,	Line A1
Manufacturer, Model, Etc. (optional but recommended)	
Instructions for Completing Checklist	
This checklist may be used to document the results of the Seismic Walkdown SWEL. The space below each of the following questions may be used to recofindings. Additional space is provided at the end of this checklist for document	ord the results of judgments and
Anchorage	
1. Is the anchorage configuration verification required (i.e., is the item on	e Y⊠ N□
of the 50% of SWEL items requiring such verification)? The anchorage configuration verification is required.	
	•
2. Is the anchorage free of bent, broken, missing or loose hardware?	Y□ N□ U⊠ N/A□
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	Y□ N□ U⊠ N/A□
4. Is the anchorage free of visible cracks in the concrete near the	Y□ N□ U⊠ N/A□

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

	MIC WALKDOWN CHECKLIST FORM
Sheet 2 of 4	
	Status: Y☐ N☐ U⊠
Seismic Walkdown Checklist (SWC) <u>SWEL1-493</u>	
Equipment ID No. 71MCC-264 Equip. Class 1 – Motor Control Ce Contractors	enters and Wall Mounted
Equipment Description 600V Motor Control Center (BUS 126400)	
 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? The soft targets are free from imact by nearby equipment and structures	Y⊠ N□ U□ N/A□
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	
masonary block walls have been evaluated and enhanced according to DC# D1-96-011, Rev 0 as part IPEEE evaluations.	
 Do attached lines have adequate flexibility to avoid damage? The attached lines have adequate flexibility. 	Y⊠ N□ U□ N/A□
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	Y⊠ N□ U□
The equipment is free of potentially adverse seismic interaction effects.	

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 3 of 4	
	Status: Y□ N□ U⊠
Seismic Walkdown Checklist (SWC) <u>S SWEL1-493</u>	
Equipment ID No. 71MCC-264 Equip. Class 1 – Moto Contractors	or Control Centers and Wall Mounted
Equipment Description 600V Motor Control Center (BUS 126400))
Other Adverse Conditions	
11. Have you looked for and found no other seismic conditions adversely affect the safety functions of the equipment?	that could Y⊠ N□ U□
Comments (Additional pages may be added as necessary)	
Evaluated by: Harptreet Ghuman 48 9444	Date: <u>9/25/12</u>
Yaroslay Losey	9/25/12

ATTACHMENT 9.6 SEISMIC WALKDOWN CHECKLIST FORM Sheet 4 of 4 Status: Y N U U □ Seismic Walkdown Checklist (SWC) <u>SWEL1-493</u> Equipment ID No. 71MCC-264 Equip. Class 1 - Motor Control Centers and Wall Mounted Contractors Equipment Description 600V Motor Control Center (BUS 126400) **Photographs** Note: 71MCC-264 Note:

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 1 of 4	
	Status: Y⊠ N☐ U☐
Seismic Walkdown Checklist (SWC) <u>SWEL1-494</u>	
Equipment ID No. 71PT-71ACA2 Equip. Class ¹ 4 - Transformers	3
Equipment Description Emergency Distribution 15kVA Transformer 71MC	C-253-OD3
Location: Bldg. CS Floor El. 272 Room, Area Col. 11,	Line C
Manufacturer, Model, Etc. (optional but recommended)	
Instructions for Completing Checklist	,
This checklist may be used to document the results of the Seismic Walkdow SWEL. The space below each of the following questions may be used to re findings. Additional space is provided at the end of this checklist for documents.	cord the results of judgments and
Anchorage	
 Is the anchorage configuration verification required (i.e., is the item of the 50% of SWEL items requiring such verification)? 	one Y⊠ N□
2. Is the anchorage free of bent, broken, missing or loose hardware? Anchorage is 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□
Anchorage is free of corrosion that is more than mild surface oxidate	ion
	V57 NCT 11CT N/ACT
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Y⊠ N□ U□ N/A□
Anchorage is free of visible cracks in the concrete near the anchors	•

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

ATTACHMENT 9.6 SEIS	MIC WALKDOWN CHECKLIST FOR
Sheet 2 of 4	
Seismic Walkdown Checklist (SWC) <u>SWEL1-494</u>	Status: Y⊠ N□ U□
Equipment ID No. 71PT-71ACA2 Equip. Class 4 - Transformers	
Equipment Description <u>Emergency Distribution 15kVA Transformer 71MCC-25</u>	53-OD3
 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□
The anchorage configuration is consistent with SEWS for 71PT-71ACA2 (Rev. 0). The transformer is wall mounted with four $\frac{1}{2}$ " shells.	
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□
The soft targets are free from impact by nearby equipments and structures.	
Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? The overhead equipment and distribution systems are not likely to	Y⊠ N□ U□ N/A□
collapse onto the equipment.	
 Do attached lines have adequate flexibility to avoid damage? The attached lines have adequate flexibility. 	Y⊠ N□ U□ N/A□
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? The equipment is free of potentially adverse seismic interaction effects.	Y⊠ N□ U□

Attachment C

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ATTACHMENT 9.6 SEISMIC WALKDOWN CH		
Sheet 3 of 4		
	Status: Y⊠ N⊟ U⊟	
Seismic Walkdown Checklist (SWC) <u>SWEL1-494</u>		
Equipment ID No. <u>71PT-71ACA2</u> Equip. Class <u>4 - Transformers</u>		
Equipment Description <u>Emergency Distribution 15kVA Transformer 71MC</u>	C-253-OD3	
Other Adverse Conditions		
Have you looked for and found no other seismic conditions that countries adversely affect the safety functions of the equipment?	ld Y⊠ N□ U□	
Comments (Additional pages may be added as necessary)		
Evaluated by: <u>Donald Koberg</u> Small Why		
Evaluated by: <u>Donald Koberg</u>	Date: <u>9/25/12</u>	
min -M	•	
Pourio Pourobabadi	0/05/40	

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 4 of 4

Status: Y⊠ N□ U□

Seismic Walkdown Checklist (SWC) <u>SWEL1-494</u>

Equipment ID No. <u>71PT-71ACA2</u> Equip. Class <u>4 - Transformers</u>

Equipment Description <u>Emergency Distribution 15kVA Transformer 71MCC-253-OD3</u>

Photographs





Note: 71PT-71ACA2Transformer

Note: 71PT-71ACA2Transformer

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 1 of 5	
	Status: Y⊠ N⊟ U⊟
Seismic Walkdown Checklist (SWC) SWEL1- 495	
Equipment ID No. <u>71PT-71ACA4</u> Equip. Class <u>4-Transformers</u>	<u> </u>
Equipment Description Emergency Distribution 7.5 Kva Transformer	
Location: Bldg. <u>EG</u> Floor El. <u>272'</u> Room, Area <u>Co</u>	ol. 24 Line A
Manufacturer, Model, Etc. (optional but recommended)	
Instructions for Completing Checklist	,
This checklist may be used to document the results of the Seismic Walkd SWEL. The space below each of the following questions may be used to findings. Additional space is provided at the end of this checklist for document	record the results of judgments and
Anchorage	
1. Is the anchorage configuration verification required (i.e., is the iter of the 50% of SWEL items requiring such verification)?	m one Y□ N⊠
Is the anchorage free of bent, broken, missing or loose hardware The anchorage has all necessary 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□
There are no signs of any corrosion on the anchorage	
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Y⊠ N□ U□ N/A□
There are no cracks in the concrete near the anchorage	

ATTACHMENT 9.6 S	EISMIC WALKDOWN CHECKLIST FOR
Sheet 2 of 5	- 1
Seismic Walkdown Checklist (SWC) <u>SWEL1- 495</u>	Status: Y⊠ N□ U□
Equipment ID No. <u>71PT-71ACA4</u> Equip. Class <u>4-Transformers</u>	
Equipment Description Emergency Distribution 7.5 Kva Transformer	
 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⊠ ch
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? Only soft target is anchored cable	Y⊠ N□ U□ N/A□
8. Are overhead equipment, distribution systems, ceiling tiles and lightin and masonry block walls not likely to collapse onto the equipment? All conduit located overhead is all well supported.	ıg, Y⊠ N□ U□ N/A□
 Do attached lines have adequate flexibility to avoid damage? Only has attached conduit and armored cable. Both have adequate flexibility 	Y⊠ N□ U□ N/A□
	_
10. Based on the above seismic interaction evaluations, is equipment fre of potentially adverse seismic interaction effects?	e Y⊠ N□ U□

ATTACHMENT 9.6				SEIS	MIC WALKDOWN CHE	CKLIST FORM
Sheet 3 of 5						
Seismic Walkdown C	booklist (SMC	·\	105		Status: Y⊠ I	√ □ ∪□
•		-			•	
Equipment ID No. 71P			ss <u>4-Transfo</u>			
Equipment Description	Emergency Distr	ribution 7.5 Kv	/a Transforme	<u> </u>		
Other Adverse Condition	<u>ons</u>					
 Have you looked adversely affect the 				nat could	Y⊠ N□ U□	
	•					
•					٠.	*
Comments (Additional p	ages may be ad	ded as neces	sary)			
		·			**	
Evaluated by: <u>R. Casella</u>	Red C	asella			Date: <u>10-26-12</u>	
A.G. Porc	LC, D	and	_	. •	10-26-12	

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 4 of 5

Status: Y⊠ N□ U□

Seismic Walkdown Checklist (SWC) <u>SWEL1-495</u>

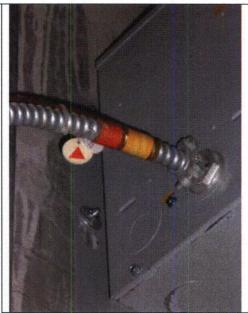
Equipment ID No. 71PT-71ACA4 Equip. Class 4-Transformers

Equipment Description Emergency Distribution 7.5 Kva Transformer

Photographs



Note: 71PT-71ACA4



Note: 71PT-71ACA4 anchorage

SEISMIC WALKDOWN CHECKLIST FORM

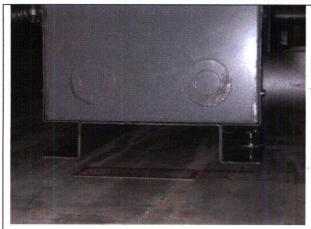
Sheet 5 of 5

Status: Y⊠ N□ U□

Seismic Walkdown Checklist (SWC) <u>SWEL1-495</u>

Equipment ID No. 71PT-71ACA4 Equip. Class 4-Transformers

Equipment Description Emergency Distribution 7.5 Kva Transformer





Note: 71PT-71ACA4 anchorage

Note: 71PT-71ACA4

ATTACHMENT 9.6 SEISI	MIC WALKDOWN CHECKLIST FORM
Sheet 1 of 4	WIC WALKDOWN CHECKLIST FORM
Seismic Walkdown Checklist (SWC) <u>SWEL1-498</u>	Status: Y⊠ N□ U□
Equipment ID No. <u>71PT-71ACUPS</u> Equip. Class¹ <u>04-Transformers</u>	
Equipment Description Uninterruptable Bus 37.5KVA Transformer 71MCC-252	<u>-OD2</u>
Location: Bldg. RB Floor El. 272' Room, Area RB South Ea	ast, Col. 14, Line A
Manufacturer, Model, Etc. (optional but recommended)	
Instructions for Completing Checklist	
This checklist may be used to document the results of the Seismic Walkdown of 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□
The item is one of the 50% of SWEL items requiring anchorage configuration verification.	
2. Is the anchorage free of bent, broken, missing or loose hardware?	Y⊠ N□ U□ N/A□
Only three anchors actually penetrate through the block wall and are fastened to the back side with a plate and an L2x2 structural angle. This is acceptable since the SEWS evaluation addressed this anchorage configuration and found that it was acceptable.	
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	Y⊠ N□ U□ N/A□
Anchorage is free of corrosion that is more than mild surface oxidation.	
Is the anchorage free of visible cracks in the concrete near the anchors?	Y⊠ N□ U□ N/A□
The transformer unit is anchored to a block wall. There are no visible cracks on the wall.	

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

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 2 of 4	
	Status: Y⊠ N⊟ U⊟
Seismic Walkdown Checklist (SWC) <u>SWEL1-498</u>	\$
Equipment ID No. <u>71PT-71ACUPS</u> Equip. Class <u>04-Transformer</u>	rs
Equipment Description <u>Uninterruptable Bus 37.5KVA Transformer 71MC</u>	CC-252-OD2
5. Is the anchorage configuration consistent with plant documentatio (Note: This question only applies if the item is one of the 50% for an anchorage configuration verification is required.) Four (4), 1/2" anchors attach the transformer to the wall. Only three of four anchors penetrate through the wall and are fastened on the of the wall by structural members and a steel plate. Only three and are utilized in the analysis. The 4, 1/2" anchors are configured in accordance with the SEWS document for equipment 71PT-71ACC	which ee out ee back chors
Rev. 0.6. Based on the above anchorage evaluations, is the anchorage free	
potentially adverse seismic conditions? Based on the above anchorage evaluations, the anchorage is free potentially adverse seismic conditions.	e of
Interaction Effects	
7. Are soft targets free from impact by nearby equipment or structure. There are no soft targets on the equipment.	es? Y□ N□ U□ N/A⊠
Are overhead equipment, distribution systems, ceiling tiles and lig and masonry block walls not likely to collapse onto the equipment	
The masonry block walls were evaluated in calculation C012, "HC for Block Walls EB-272-1,2" under project USI A-46/IPEEE Seism Evaluation Project, and were found to be acceptable. The overhelequipment, distribution systems, ceiling tiles and lighting not likely collapse onto the equipment.	nic ad
 Do attached lines have adequate flexibility to avoid damage? The lines attached to the SWEL item have adequate flexibility to a damage. 	Y⊠ N□ U□ N/A□ avoid
10. Based on the above seismic interaction evaluations, is equipment of potentially adverse seismic interaction effects?	t free Y⊠ N□ U□
Based on the above seismic interaction evaluations, the equipme free of potentially adverse seismic interaction effects.	nt is

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 3 of 4	
	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) <u>SWEL1-498</u>	
Equipment ID No. <u>71PT-71ACUPS</u> Equip. Class <u>04-Transform</u>	ners
Equipment Description Uninterruptable Bus 37.5KVA Transformer 71M	ACC-252-OD2
Other Adverse Conditions	
11. Have you looked for and found no other seismic conditions that adversely affect the safety functions of the equipment?	could Y⊠ N□ U□
No other seismic conditions that could adversely affect the safet functions of the equipment in the area were found.	у
·	
Comments (Additional pages may be added as necessary)	,
No additional comments.	
	•
	· · · · · · · · · · · · · · · · · · ·
Evaluated by: Harpreet Ghuman H8 21111	Date: 09/28/2012
Yaroslav Losev	09/28/2012

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 4 of 4

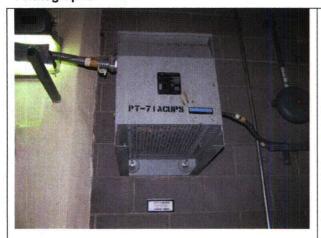
Status: Y⊠ N□ U□

Seismic Walkdown Checklist (SWC) SWEL1-498

Equipment ID No. 71PT-71ACUPS Equip. Class 04-Transformers

Equipment Description <u>Uninterruptable Bus 37.5KVA Transformer 71MCC-252-OD2</u>

Photographs





Note: Picture of equipment 71PT-71ACUPS.

Note: Picture of the anchorage attachment to the wall on the back side.

ATTACHMENT 9.6 SE	ISMIC WALKDOWN CHECKLIST FORM
Sheet 1 of 5	
	Status: Y⊠ N⊡ U⊡
Seismic Walkdown Checklist (SWC) <u>SWEL1- 501</u>	
Equipment ID No. 71SB-1 Equip. Class_15 - Battery Racks	<u> </u>
Equipment Description 125 Volt Station Battery A	· ,
Location: Bldg. BR Floor El. 272 Room, Area Col 12 Lir	ne E
Manufacturer, Model, Etc. (optional but recommended)	·
Instructions for Completing Checklist	
This checklist may be used to document the results of the Seismic Walkdown SWEL. The space below each of the following questions may be used to reco findings. Additional space is provided at the end of this checklist for document	ord the results of judgments and
Anchorage	
 Is the anchorage configuration verification required (i.e., is the item or of the 50% of SWEL items requiring such verification)? 	ne Y⊠ N□
Is the anchorage free of bent, broken, missing or loose hardware? The anchorage has all necessary hardware	Y⊠ N□ U□ N/A□
Is the anchorage free of corrosion that is more than mild surface oxidation?	Y⊠ N□ U□ N/A□
Minor paint chipping was found at specific locations. This is not a structural concern	
Is the anchorage free of visible cracks in the concrete near the anchors?	Y⊠ N□ U□ N/A□
The concrete is free of cracking in the areas near the anchorage	

ATTACHMENT 9.6 SEIS	MIC WALKDOWN CHECKLIST FORM
Sheet 2 of 5	,
	Status: Y⊠ N⊟ U⊟
Seismic Walkdown Checklist (SWC) <u>SWEL1- 501</u>	
Equipment ID No. 71SB-1 Equip. Class_15 - Battery Racks_	
Equipment Description 125 Volt Station Battery 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.) (Ref. 1.20-3, 1.20-8, associated SEWS document) 	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?Flexible conduit connections to station batteries have adequate	Y⊠ N□ U□ N/A□
flexibility.	
Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	Y⊠ N□ U□

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FOR
Sheet 3 of 5	
	Status: Y⊠ N⊟ U⊟
Seismic Walkdown Checklist (SWC) <u>SWEL1- 501</u>	
Equipment ID No. 71SB-1 Equip. Class_15 - Battery Ra	acks
Equipment Description 125 Volt Station Battery A	
Other Adverse Conditions	
11. Have you looked for and found no other seismic conditions that co adversely affect the safety functions of the equipment?	ould Y⊠ N□ U□
Comments (Additional pages may be added as necessary)	
	· · · · · · · · · · · · · · · · · · ·
	•
Evaluated by: Rick Casella	Date: <u>10/30/12</u>
Al Porch	10/30/12

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 4 of 5	
	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC)	yana ayana ahara ahara ayan ayan ayan ayan ayan ayan ayan a
Equipment ID No. 71SB-1	quip. Class_15 - Battery Racks
Equipment Description 125 Volt Station Batte	ery A

Photographs





Note: 71SB-1

Note: 71SB-1

			-	_
ATT	ACH	MEN	т9	6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 5 of 5

Status: Y⊠ N□ U□

Seismic Walkdown Checklist (SWC) SWEL1-501

Equipment ID No. 71SB-1 Equip. Class_15 - Battery Racks_

Equipment Description 125 Volt Station Battery A





Note: 71SB-1 anchorage

Note: 71SB-1 anchorage

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 1 of 4	
Seismic Walkdown Checklist (SWC) <u>SWEL1-502</u>	Status: Y⊠ N□ U□
Equipment ID No. 71SB-2 Equip. Class 15-Battery Re	acks
Equipment Description 125 Volt Station Battery B	
Location: Bldg. <u>BR</u> Floor El. <u>272'</u> Room, Area <u>BR3.</u>	Col.12, Line F
Manufacturer, Model, Etc. (optional but recommended)	
Instructions for Completing Checklist	
This checklist may be used to document the results of the Seismic Walk. SWEL. The space below each of the following questions may be used to findings. Additional space is provided at the end of this checklist for document	record the results of judgments and
Anchorage	
1. Is the anchorage configuration verification required (i.e., is the ite of the 50% of SWEL items requiring such verification)?	m one Y⊠ N□
The item is one of the 50% of SWEL items requiring anchorage configuration verification.	
 Is the anchorage free of bent, broken, missing or loose hardware The seventy two (72), 1/2" diameter expansion anchors are free bent, broken, missing or loose hardware. 	
Is the anchorage free of corrosion that is more than mild surface oxidation?	Y⊠ N□ U□ N/A□
Anchorage is free of corrosion that is more than mild surface oxid	dation.
Is the anchorage free of visible cracks in the concrete near the	Y⊠ N□ U□ N/A□
anchors?	
There are no visible cracks in the concrete near the anchors.	

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

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORI
Sheet 2 of 4	
Seismic Walkdown Checklist (SWC) <u>SWEL1-502</u>	Status: Y⊠ N□ U□
Equipment ID No. 71SB-2 Equip. Class 15-Battery Raci	ks
Equipment Description 125 Volt Station Battery B	
5. Is the anchorage configuration consistent with plant documentation (Note: This question only applies if the item is one of the 50% for van anchorage configuration verification is required.) The frames of the racks are spaced at 27" on center. There are two racks mounted to each other (back to back) at the center location. racks on the sides are by themselves. The 72, 1/2" expansion and (18 for the side racks, and 36 for the center rack) are configured in accordance with the EC36608 and drawing 1.20-3.	vhich o The hors
6. Based on the above anchorage evaluations, is the anchorage free potentially adverse seismic conditions?	of Y⊠ N□ U□
Based on the above anchorage evaluations, the anchorage is free potentially adverse seismic conditions.	of
Interaction Effects	
7. Are soft targets free from impact by nearby equipment or structure There are no soft targets on the equipment.	es? Y⊠ N□ U□ N/A□
Are overhead equipment, distribution systems, ceiling tiles and light and masonry block walls not likely to collapse onto the equipment.	
The overhead equipment, distribution systems, ceiling tiles and lig and masonry block walls are not likely to collapse onto the equipm	
 Do attached lines have adequate flexibility to avoid damage? The lines attached to the SWEL item have adequate flexibility to a damage. 	Y⊠ N□ U□ N/A□ ovoid
10. Based on the above seismic interaction evaluations, is equipment of potentially adverse seismic interaction effects?	free Y⊠ N□ U□
Based on the above seismic interaction evaluations, the equipment free of potentially adverse seismic interaction effects.	nt is

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 3 of 4	
Seismic Walkdown Checklist (SWC)SWEL1-502	Status: Y⊠ N□ U□
, , ,	
Equipment ID No. 71SB-2 Equip. Class 15-Battery Rack	(S
Equipment Description 125 Volt Station Battery B	, ,
Other Adverse Conditions	
11. Have you looked for and found no other seismic conditions that cou adversely affect the safety functions of the equipment?	uld Y⊠ N□ U□
No other seismic conditions that could adversely affect the safety functions of the equipment in the area were found.	
	· .
<u>Comments</u> (Additional pages may be added as necessary)	, , , , , , , , , , , , , , , , , , ,
No additional comments.	
Evaluated by: Harpreet Ghuman #8 2/1/2	Date: <u>09/30/2012</u>
Yaroslav Losev	09/30/2012

ATTACHMENT 9.6	EISMIC WALKDOWN CHECKLIST FORM
Sheet 4 of 4	
Seismic Walkdown Checklist (SWC) SWEL1-502	Status: Y⊠ N□ U□
Equipment ID No. 71SB-2 Equip. Class 15-Battery Racks	
Equipment Description 125 Volt Station Battery B	
Photographs	
Note: Picture of equipment 71SB-2.	

ATTACHMENT 9.6 SEISMIC WALKDOWN CHECKLIST FORM Sheet 1 of 4 Status: YX N U Seismic Walkdown Checklist (SWC) <u>SWEL1-508</u> Equipment ID No. 72AHU-30A Equip. Class 10. Air Handlers Equipment Description Battery Room A Air Handling Unit Room, Area Col 12 line E Location: Bldg. BR Floor El. 282 Manufacturer, Model, Etc. (optional but recommended) **Instructions for Completing Checklist** This checklist may be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments. Anchorage 1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y⊠ N□ U□ N/A□ 2. Is the anchorage free of bent, broken, missing or loose hardware? Visible anchorage is 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? 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 cracks.

ATTACHMENT 9.6 SEIS	SMIC WALKDOWN CHECKLIST FOR
Sheet 2 of 4	
Seismic Walkdown Checklist (SWC) <u>SWEL1- 508</u>	Status: Y⊠ N☐ U☐
Equipment ID No. <u>72AHU-30A</u> Equip. Class <u>10. Air Handlers</u>	
Equipment Description Battery Room A Air Handling Unit	
 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?	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	Y⊠ N□ U□

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ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 3 of 4	
	Status: Y⊠ N⊟ U⊟
Seismic Walkdown Checklist (SWC) SWEL1- 508	
Equipment ID No. 72AHU-30A Equip. Class 10. Air Handlers	
Equipment Description Battery Room A Air Handling Unit	
Other Adverse Conditions	
Have you looked for and found no other seismic conditions that coul adversely affect the safety functions of the equipment?	d Y⊠ N□ U□
Comments (Additional pages may be added as necessary)	
Missing mounting screws on door of unit	
2 missing screws on west hinged door	
1 missing screw on east hinged door	•
All screws missing on bottom row of door panel	
The existing screws will keep the door secured. This condition will no seismic interaction.	ot create any credible adverse
Although only a portion of the anchorage was visible, the existing SE significant anchorage margin.	EWS for 72AHU-30A shows
Evaluated by: R. Casella Rich Casella	Date: <u>10-30-12</u>
A. Porch	10-30-12

		9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 4 of 4

Status: Y⊠ N□ U□

Seismic Walkdown Checklist (SWC) <u>SWEL1-508</u>

Equipment ID No. 72AHU-30A Equip. Class 10. Air Handlers

Equipment Description Battery Room A Air Handling Unit

Photographs





Note: 72AHU-30A

Note: 72AHU-30A

ATTACHMENT 9.6	EISMIC WALKDOWN CHECKLIST FORM
Sheet 1 of 5	
	Status: Y⊠ N⊟ U⊟
Seismic Walkdown Checklist (SWC) SWEL1- 516	
Equipment ID No. 72FN-31A Equip. Class Fans	
Equipment Description Battery Room A Recirc Fan	·
Location: Bldg. <u>BR</u> Floor El. <u>282</u> Room, Area <u>Col 12 lin</u>	ne E
Manufacturer, Model, Etc. (optional but recommended)	
Instructions for Completing Checklist	
This checklist may be used to document the results of the Seismic Walkdow SWEL. The space below each of the following questions may be used to rec findings. Additional space is provided at the end of this checklist for docume	ord the results of judgments and
Anchorage	
1. Is the anchorage configuration verification required (i.e., is the item of the 50% of SWEL items requiring such verification)?	ne Y⊠ N□
2. Is the anchorage free of bent, broken, missing or loose hardware?	Y⊠ N□ U□ N/A□
3/8" anchor bolts to floor (4 locations- 4 bolts per location) are slightly skewed. This condition was noted and accepted in the SEWS A-46	y .
evaluation.	
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	Y⊠ N□ U□ N/A□
The bolting shows signs of minor surface oxidation. This is not a structural concern	
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Y⊠ N□ U□ N/A□
The concrete nearby the anchorage has no cracking	•

ATTACHMENT 9.6 SEISI	MIC WALKDOWN CHECKLIST FOR
Sheet 2 of 5	
Seismic Walkdown Checklist (SWC) SWEL1- 516	Status: Y⊠ N U□
, , <u>, , , , , , , , , , , , , , , , , </u>	•
Equipment ID No. <u>72FN-31A</u> Equip. Class Fans	· · · · · · · · · · · · · · · · · · ·
Equipment Description Battery Room A Recirc Fan	
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□
The anchorage is consistent with A-46 SEWS for 72FN-31A.	
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	Y⊠ N□ U□
	•
Interaction Effects	
7. Are soft targets free from impact by nearby equipment or structures?	Y⊠ N□ U□ N/A□
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	Y⊠ N□ U□ N/A□
9. Do attached lines have adequate flexibility to avoid damage?	Y⊠ N□ U□ N/A□
Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	Y⊠ N□ U□

ATTACHMENT 9.6		SEISM	IC WALK	CDOWN CH	ECKLIS'	r Form
Sheet 3 of 5	,			_		
Seismic Walkdown Checklist (SWC)SWE	L1- 516		Stat	us: Y⊠	N	U
	Class_Fans					
Equipment Description Battery Room A Recirc Fa	<u> </u>					
Other Adverse Conditions						
 Have you looked for and found no other se adversely affect the safety functions of the 		at could	Y⊠ N	□∪□		
adversely affect the safety functions of the	equipment?			1		
		4		٠		
Comments (Additional pages may be added as no	ocessan/)					
Comments (Additional pages may be added as no	occasal y)					
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·	. •					
			.*			
Evaluated by: R Casella Rica Ca	lla		Date:	10-30-12		
A Porch	- cl			10-30-12		

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 4 of 5

Status: Y⊠ N□ U□

Seismic Walkdown Checklist (SWC) SWEL1- 516

Equipment ID No. 72FN-31A Equip. Class Fans

Equipment Description Battery Room A Recirc Fan

Photographs



Note: 72FN-31A anchorage

Note: 72FN-31A

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 5 of 5	
Seismic Walkdown Checklist (SWC) <u>SWEL1-516</u>	Status: Y⊠ N□ U□
Equipment ID No. 72FN-31A Equip. Class Fans	
Equipment Description Battery Room A Recirc Fan	<u> </u>
Note: 72FN-31A anchorage of fan assembly to vibration isolator and to floor	

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 1 of 5	
Seismic Walkdown Checklist (SWC) SWEL1- 518	Status: Y⊠ N□ U□
Equipment ID No. 72FN-46A Equip. Class_09 - Fans	<u> </u>
Equipment Description Battery Room A Exhaust Fan	
Location: Bldg. BR Floor El. 282 Room, Area 12, E	
Manufacturer, Model, Etc. (optional but recommended)	
Instructions for Completing Checklist	
This checklist may be used to document the results of the Seismic Walkdo SWEL. The space below each of the following questions may be used to r findings. Additional space is provided at the end of this checklist for documents.	ecord the results of judgments and
Anchorage	
 Is the anchorage configuration verification required (i.e., is the item of the 50% of SWEL items requiring such verification)? 	none Y⊠ N□
2. Is the anchorage free of bent, broken, missing or loose hardware? East Hat - SW & NE bolts slightly skewed but have contact with ha flange. SE & NE bolts have less than full thread encasement (<threads 3="" 8="" a="" be="" below="" blot="" bolts.="" concern.<="" each="" encasement).="" floor="" full="" ha="" inch.="" is="" issues="" judged="" not="" secure="" seismic="" size="" td="" these="" to="" with=""><td>t</td></threads>	t
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	Y⊠ N□ U□ N/A□
The bolting shows signs of minor surface oxidation. The oxidation a seismic concern	is not
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Y⊠ N□ U□ N/A□
No cracking was present	

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FOR
Sheet 2 of 5	Status: Y⊠ N⊟ U⊟
Seismic Walkdown Checklist (SWC) <u>SWEL1- 518</u>	
Equipment ID No. 72FN-46A Equip. Class_09 - Fans_	
Equipment Description Battery Room A Exhaust Fan	
5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for whi anchorage configuration verification is required.) ½ inch bolts at connection between fan/motor s/zid and vibration damper (1.79-474, SEWS document)	
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? Flex conduit has adequate flexibility.	ng, 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 from of potentially adverse seismic interaction effects?	ee Y⊠ N□ U□

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 3 of 5	
	Status: Y⊠ N☐ U☐
Seismic Walkdown Checklist (SWC) <u>SWEL1- 518</u>	
Equipment ID No. <u>72FN-46A</u> Equip. Class_09 - Fans	·
Equipment Description Battery Room A Exhaust Fan	
Other Adverse Conditions	
11. Have you looked for and found no other seismic conditions t adversely affect the safety functions of the equipment?	hat could Y⊠ N□ U□
Comments (Additional pages may be added as necessary)	
Evaluated by: Rick Casella	Date: <u>10/30/12</u>
X	
10, Dand	
Al Porch	10/30/12

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 4 of 5

Status: Y⊠ N□ U□

Seismic Walkdown Checklist (SWC) <u>SWEL1-518</u>

Equipment ID No. 72FN-46A Equip. Class_09 - Fans_

Equipment Description Battery Room A Exhaust Fan

Photographs



Note: 72FN-46A



Note: 72FN-46A anchorage

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 5 of 5

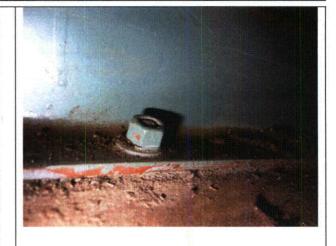
Status: Y⊠ N□ U□

Seismic Walkdown Checklist (SWC) SWEL1- 518

Equipment ID No. 72FN-46A Equip. Class_09 - Fans_

Equipment Description Battery Room A Exhaust Fan





Note: 72FN-46A showing vibration isolators

Note: 72FN-46A showing one anchor to floor installed at a slight skew

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 1 of 5	
	Status: Y⊠ N⊟ U⊟
Seismic Walkdown Checklist (SWC) <u>SWEL1-519</u>	
Equipment ID No. 72FN-46B Equip. Class¹ 09-Fans	
Equipment Description <u>Battery Room B Exhaust Fan</u>	
Location: Bldg. <u>BR</u> Floor El. <u>282'</u> Room, Area <u>BR4, Co</u>	l.12, Line F
Manufacturer, Model, Etc. (optional but recommended)	·
Instructions for Completing Checklist	. ,
This checklist may be used to document the results of the Seismic Walkdow SWEL. The space below each of the following questions may be used to refindings. Additional space is provided at the end of this checklist for docume	cord the results of judgments and
Anchorage	
 Is the anchorage configuration verification required (i.e., is the item of of the 50% of SWEL items requiring such verification)? 	one Y⊠ N□
The item is one of the 50% of SWEL items requiring anchorage configuration verification.	
2. Is the anchorage free of bent, broken, missing or loose hardware?	Y□ N⊠ U□ N/A□
One anchor is missing on the North East corner of the skid; however this is already documented in the SEWS evaluation and was found to be acceptable. One anchor is loose on the North West corner of the skid. The resolution to this deficiency is tracked through CR-JAF-201 06538	0
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	Y⊠ N□ U□ N/A□
Anchorage is free of corrosion that is more than mild surface oxidation	on.
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Y⊠ N□ U□ N/A□
There are no visible cracks in the concrete near the SWEL item.	·

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

ATTACHMENT 9.6 SEIS	MIC WALKDOWN CHECKLIST FOR
Sheet 2 of 5	Status: Y⊠ N ∪ ∪
Seismic Walkdown Checklist (SWC) <u>SWEL1-519</u>	
Equipment ID No. <u>72FN-46B</u> Equip. Class <u>09-Fans</u>	
Equipment Description Battery Room B Exhaust Fan	
 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□
The 8, 1/4" expansion anchors are configured in accordance with the SEWS document for 72FN-46A, which has the same configuration as 72FN-46B, except for one missing bolt, which was evaluate in SEWS to be OK).	
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	Y N U
Based on the above anchorage evaluations, the anchorage is not free of potentially adverse seismic conditions. See item 2.	
Interaction Effects	
7. Are soft targets free from impact by nearby equipment or structures?	Y⊠ N□ U□ N/A□
Soft targets are free from impact by nearby equipment.	
Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	Y⊠ N□ U□ N/A□
The overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls are not likely to collapse onto the equipment.	
 Do attached lines have adequate flexibility to avoid damage? The lines attached to the SWEL item 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□
Based on the above seismic interaction evaluations, the equipment is free of potentially adverse seismic interaction effects	

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 3 of 5	
Seismic Walkdown Checklist (SWC) <u>SWEL1-519</u>	Status: Y⊠ N□ U□
Equipment ID No. 72FN-46B Equip. Class 09-Fans	
Equipment Description Battery Room B Exhaust Fan	
Other Adverse Conditions	
11. Have you looked for and found no other seismic conditions that cou adversely affect the safety functions of the equipment?	uld Y⊠ N□ U□
No other seismic conditions that could adversely affect the safety functions of the equipment in the area were found.	
Comments (Additional pages may be added as necessary)	
No additional comments.	
Evaluated by: Harpreet Ghuman	Date: <u>09/30/2012</u>
Yaroslav Losev	09/30/2012

ATTACHMENT 9.6			SEISI	MIC WALKDOWN CHECKLIST FORM
Sheet 4 of 5			Y	
Seismic Walkdo	wn Checklist (S	WC) <u>SWEL1-519</u>	# # # # # # # # # # # # # # # # # # #	Status: Y⊠ N□ U□
Equipment ID No.	72FN-46B	Equip. Class 09-Fans	manninja manjaran	
Equipment Descrip	otion Battery Roon	n B Exhaust Fan		en en

Photographs



Note: Picture of equipment 72FN-46B.



Note: Picture showing the missing anchor on the skid for the SWEL item.

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 5 of 5	
Seismic Walkdown Checklist (SWC) SWEL1-519	Status: Y⊠ N□ U□
Equipment ID No. <u>72FN-46B</u> Equip. Class <u>09-Fa</u>	ans
Equipment Description Battery Room B Exhaust Fan	
Note: Plcture showing the loose anchor on the skid for the SWEL item.	:

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 1 of 4	,
Seismic Walkdown Checklist (SWC) <u>SWEL1-522</u>	Status: Y⊠ N⊡ U⊡
Equipment ID No. 72HV-7A Equip. Class 20-Instrument a	nd Control Panels
Equipment Description Admin Building Ventilation Control Panel	
Location: Bldg. BR Floor El. 272' Room, Area BR5, C	ol.11.5, Line C
Manufacturer, Model, Etc. (optional but recommended)	· · · · · · · · · · · · · · · · · · ·
Instructions for Completing Checklist	,
This checklist may be used to document the results of the Seismic Walkdor SWEL. The space below each of the following questions may be used to refindings. Additional space is provided at the end of this checklist for documents.	ecord the results of judgments and
Anchorage	
1. Is the anchorage configuration verification required (i.e., is the item of the 50% of SWEL items requiring such verification)?	one Y□ N⊠
The item is not one of the 50% of SWEL items requiring anchorage configuration verification.	
 Is the anchorage free of bent, broken, missing or loose hardware? The equipment is stitch welded in four (4) locations and the welds a intact and do not appear damaged. 	Y⊠ N□ U□ N/A□ are
Is the anchorage free of corrosion that is more than mild surface oxidation?	Y⊠ N□ U□ N/A□
Anchorage is free of corrosion that is more than mild surface oxidate	tion.
Is the anchorage free of visible cracks in the concrete near the anchors?	Y⊠ N□ U□ N/A□
There are no visible cracks in the concrete near the SWEL item.	

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

ATTACHMENT 9.6 SEIS	MIC WALKDOWN CHECKLIST FORM
Sheet 2 of 4	
	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) <u>SWEL1-522</u>	
Equipment ID No. 72HV-7A Equip. Class 20-Instrument and Co	ontrol Panels
Equipment Description Admin Building Ventilation Control Panel	<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⊠
Item is not one of the 50% for which an anchorage configuration verification is required.	•
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	Y⊠ N□ U□
Based on the above anchorage evaluations, the anchorage is free of potentially adverse seismic conditions.	· · · · · · · · · · · · · · · · · · ·
Interaction Effects	
7. Are soft targets free from impact by nearby equipment or structures? Soft targets are free from impact by nearby equipment.	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□
Safety latches for the overhead light fixtures should be installed. There is a masonry block wall near the equipment; however, the wall was evaluated under IPEEE effort to reinforce the block walls under JAF-RPT-MISC-02211, Section 3.1.4.1, page 3-44, Table 3.1.4.1.	
There is a 1" gap between cable tray 1TC077R and the SWEL item; however, based on engineering judgment this is a sufficient amount of space during a seismic event to where there will be no interaction between SWEL equipment and raceway.	-
9. Do attached lines have adequate flexibility to avoid damage?	Y⊠ N□ U□ N/A□
The lines attached to the SWEL item have adequate flexibility to avoid damage.	
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	Y⊠ N□ U□
Based on the above seismic interaction evaluations, the equipment is free of potentially adverse seismic interaction effects.	

ATTACHMENT 9.6			SEISI	VIC WALKDO	WN CHEC	KLIST F	ORM
Sheet 3 of 4		,				1	
				Status:	Y⊠ N	□ U[
Seismic Walkdown Che	ecklist (SWC) <u>SW</u>	/EL1-522					
Equipment ID No. <u>72HV-</u>	<u>7A</u> Equi	p. Class <u>20-<i>Instrum</i></u>	nent and Co	ntrol Panels			
Equipment Description Aa	lmin Building Ventilatio	on Control Panel					_
Other Adverse Condition	<u>s</u>						
·	safety functions of the	e equipment?		Y⊠ N□	U□		
	onditions that could ad ipment in the area we		afety				
,						•	
Comments (Additional page	ges may be added as	necessary)					
No additional comm	nents.						
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·		•	•				
	112 94						
Evaluated by: Harpreet Gh	uman MC AC			_ Date: <u>09</u> /	<u>/30/2012</u>		
	numan 18 H						
Yaroslav Los	Contract Con			<u>09</u> /	<u>/30/2012</u>		

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 4 of 4

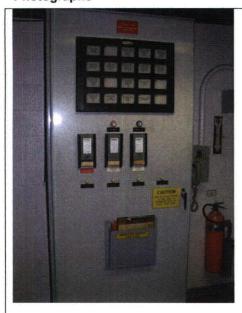
Status: Y⊠ N□ U□

Seismic Walkdown Checklist (SWC) <u>SWEL1-522</u>

Equipment ID No. 72HV-7A Equip. Class 20-Instrument and Control Panels

Equipment Description Admin Building Ventilation Control Panel

Photographs



Note: Picture of equipment 72HV-7A.



Note: Picture showing the 1" gap between the cable tray 1TC077R and the SWEL item.

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 1 of 5 Seismic Walkdown Checklist (SWC) SWEL1- 555	Status: Y⊠ N⊟ U⊟
Equipment ID No. 92FN-1A Equip. Class 9 - Fans	
Equipment Description Emergency Diesel Generator A Vent Supply Fan	
Location: Bldg. <u>EG</u> Floor El. <u>272'</u> Room, Area	Col. 24 Line A1
Manufacturer, Model, Etc. (optional but recommended)	
Instructions for Completing Checklist	
This checklist may be used to document the results of the Seismic Walkd SWEL. The space below each of the following questions may be used to findings. Additional space is provided at the end of this checklist for document	record the results of judgments and
Anchorage	
 Is the anchorage configuration verification required (i.e., is the iter of the 50% of SWEL items requiring such verification)? 	m one Y⊡∖N⊠
 Is the anchorage free of bent, broken, missing or loose hardware? Ability to discern condition of anchorage was difficult based on disto anchorage from our location. Based on what we could see, anchorage was free of bent, broken or missing hardware. 	
3. Is the anchorage free of corrosion that is more than mild surface oxidation? No corrosion was evident, based on limited view from floor.	Y⊠ N□ U□ N/A□
Is the anchorage free of visible cracks in the concrete near the anchors? The component is connected to steel. There is no concrete.	Y□ N□ U□ N/A⊠

ATTACHMENT 9.6 SEIS	MIC WALKDOWN CHECKLIST FORM
Sheet 2 of 5	
Seismic Walkdown Checklist (SWC) <u>SWEL1- 555</u>	Status: Y⊠ N□ U□
Equipment ID No. 92FN-1A Equip. Class 9 - Fans	
Equipment Description Emergency Diesel Generator A Vent Supply Fan	\
 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? There are no soft targets on this equipment.	Y□ N□ U□ N/A⊠
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	Y⊠ N□ U□ N/A□
Do attached lines have adequate flexibility to avoid damage?No attached lines	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□

ATTACHMENT 9.6 SE	ISMIC WALKDOWN CHECKLIST FORM
Sheet 3 of 5	
	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) <u>SWEL1- 555</u>	
Equipment ID No. 92FN-1A Equip. Class 9 - Fans	
Equipment Description Emergency Diesel Generator A Vent Supply Fan	
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)	
	en de la companya de La companya de la co
	$\mathbf{v} = \mathbf{v}$
Evaluated by: A.G. Porch / R. Casella / Rich Casella	Date: 10/26/12
R. Casella / Rich Casella	10/26/12

A			00
ATTA	\sim \sim \sim	ENT	u n

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 4 of 5

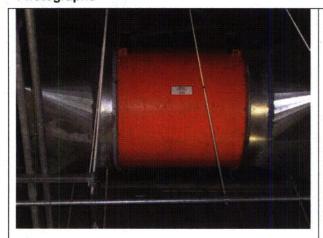
Status: Y⊠ N□ U□

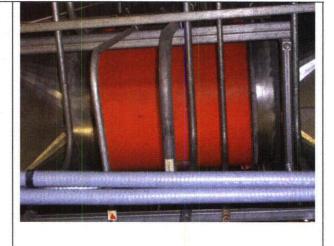
Seismic Walkdown Checklist (SWC) <u>SWEL1-555</u>

Equipment ID No. 92FN-1A Equip. Class 9 - Fans

Equipment Description Emergency Diesel Generator A Vent Supply Fan

Photographs





Note: 92FN-1A

Note: 92FN-1A

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ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

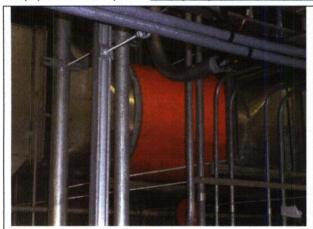
Sheet 5 of 5

Status: Y⊠ N□ U□

Seismic Walkdown Checklist (SWC) SWEL1-555

Equipment ID No. 92FN-1A Equip. Class 9 - Fans

Equipment Description Emergency Diesel Generator A Vent Supply Fan



Note: 92FN-1A



Note: 92FN-1A

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 1 of 4	
	Status: Y⊠ N⊟ U⊟
Seismic Walkdown Checklist (SWC) SWEL1- 577	
Equipment ID No. <u>92RTD-101A</u> Equip. Class <u>19 - Temperatur</u>	re Sensor
Equipment Description Emergency Diesel Generator Room A South Side	Resist Temperature Detector
Location: Bldg. <u>EG</u> Floor El. <u>300</u> Room, Area <u>Co</u>	I. 23 Line A2, AZ
Manufacturer, Model, Etc. (optional but recommended)	
Instructions for Completing Checklist	
This checklist may be used to document the results of the Seismic Walkdo SWEL. The space below each of the following questions may be used to refindings. Additional space is provided at the end of this checklist for document	ecord the results of judgments and
Anchorage	
 Is the anchorage configuration verification required (i.e., is the item of the 50% of SWEL items requiring such verification)? 	one Y□ N⊠
2. Is the anchorage free of bent, broken, missing or loose hardware?	Y⊠ N□ U□ N/A□
Ability to discern condition of anchorage was difficult based on dist to anchorage from our location. Based on what we could see to the ceiling mounted component, it appeared to be secured to the flangthe roof steel.	e
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	Y⊠ N□ U□ N/A□
Ability to discern condition of anchorage was difficult based on dist to anchorage from our location. Based on what we could see to the ceiling mounted component, it appeared to be secured to the flang the roof steel.	e
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Y□ N□ U□ N/A⊠
There is no concrete. The component is mounted to steel beam fla	nao

Attachment C

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	ISMIC WALKDOWN CHECKLIST FORM
Sheet 2 of 4	
Sciencia Walledown Chapklist (SWC) SWELL F77	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) <u>SWEL1-577</u>	
Equipment ID No. <u>92RTD-101A</u> Equip. Class <u>19 - Temperature S</u>	ensor
Equipment Description Emergency Diesel Generator Room A South Side Re	sist Temperature Detector
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.)	n .
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? N/A	Y⊠ N□ U⊡
N/A	. (
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?	j, Y□ N□ U□ N/A⊠ .
Attached to overhead roof steel beam, there are no visible objects to fall on the SWEL item.	
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□

Attachment C

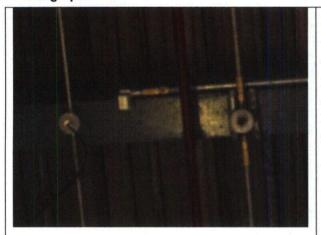
Engineering Report No. JAF-RPT-12-00015 Rev. 0 Page 384 of 573

ATTACHMENT 9.6	SEIS	SMIC WALKDOWN CHECKLIST FORM	
Sheet 3 of 4			
		Status: Y⊠ N[U[
Seismic Walkdown Checklist (SWC) <u>SWEL1- 577</u>	<u> </u>		
Equipment ID No. 92RTD-101A Equip. Class 19 -	Temperature Se	nsor	
Equipment Description Emergency Diesel Generator Room A	South Side Res	ist Temperature Detect	tor
Other Adverse Conditions			
11. Have you looked for and found no other seismic conditi adversely affect the safety functions of the equipment?	ons that could	Y⊠ N□ U□	
		<i>;</i>	
		•	
Comments (Additional pages may be added as necessary)			
(see photo)			
	`		
· · · · · · · · · · · · · · · · · · ·			
Evaluated by: A.G. Porch / A.C. Dande		Date: <u>10/26/12</u>	······
R. Casella / Rich Casella			•
R. Casella / Kick Casella.		10/26/12	,

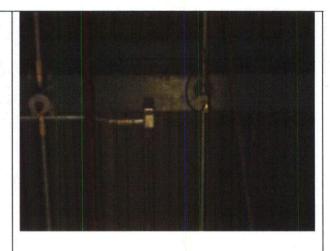
ATTACHMENT 9.6			SEISMIC WALKDOWN CHECKLIST FORM
Sheet 4 of 4			
			Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) SWEL1- 577			
Equipment ID No.	92RTD-101A	_ Equip. Class_19 - Temp	perature Sensor

Equipment Description <u>Emergency Diesel Generator Room A South Side Resist Temperature Detector</u>

Photographs



Note: 92RTD-101A



Note: 92RTD-101A

ATTACHMENT 9.6 SEI	SMIC WALKDOWN CHECKLIST FORM
Sheet 1 of 4	
	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) <u>SWEL1-578</u>	
Equipment ID No. 92RTD-101B Equip. Class 19 - Temperature S	Sensors
Equipment Description EDG B Room South Side Resistance Temperature De	etector
Location: Bldg. <u>EG</u> Floor El. <u>272</u> Room, Area <u>C: 27, L: A.</u>	2
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 recorfindings. Additional space is provided at the end of this checklist for documential space.	d 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)? 	e Y□ N⊠
2. Is the anchorage free of bent, broken, missing or loose hardware?	Y⊠ N□ U□ N/A□
The unit is at high elevation. No close visual inspection is possible. Based on review of drawings, and weight of the equipment, the anchorage was determined to be adequate	
Is the anchorage free of corrosion that is more than mild surface oxidation?	Y⊠ N□ U□ N/A□
The unit is at high elevation. No close visual inspection is possible	
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Y⊠ N□ U□ N/A□
The unit is at high elevation. No close visual inspection is possible	

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

Y⊠ N□ U□

ATTACHMENT 9.6 SEISMIC WALKDOWN CHECKLIST FORM Sheet 2 of 4 Status: Y⊠ N□ U□ Seismic Walkdown Checklist (SWC) <u>SWEL1-578</u> Equipment ID No. 92RTD-101B Equip. Class 19 - Temperature Sensors Equipment Description EDG B Room South Side Resistance Temperature Detector Y□ N□ U□ N/A⊠ 5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) $Y \boxtimes N \square U \square$ 6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? The anchorage is free of any potentially adverse seismic condition. Interaction Effects 7. Are soft targets free from impact by nearby equipment or structures? Y⊠ N□ U□ N/A□ The soft targets are free from impact by nearby equipment and 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? Unit is mounted on a masonry block wall. The block walls have been evaluated and enhanced in accordance with DC# D1-96-011, Rev0 as part of IPEEE evaluations. Y⊠ N□ U□ N/A□ 9. Do attached lines have adequate flexibility to avoid damage? Attached lines have adequate flexibility.

10. Based on the above seismic interaction evaluations, is equipment free

The equipment is free of potentially adverse seismic interaction effects.

of potentially adverse seismic interaction effects?

ATTACHMENT 9.6		SEISMIC WALKDOWN CHECKLIST FORM	
Sheet 3 of 4			
		Status: Y⊠ N⊟ U⊟	
Seismic Walkdown Checklis	st (SWC) <u>SWEL1-578</u>	— — — — — — — — — — — — — — — — —	
Equipment ID No. <u>92RTD-1018</u>	B Equip. Class <u>19 – Tempe</u>	erature Sensors	
Equipment Description EDG B I	Room South Side Resistance Temper	rature Detector	
Other Adverse Conditions		•	
	found no other seismic conditions tha y functions of the equipment?	ıt could Y⊠ N□ U□	
<u>Comments (</u> Additional pages m	ay be added as necessary)		
	ſ		
		. .	
Evaluated by: <u>Pouria Pourghob</u> a	adi Profile.	Date: <u>9/21/12</u>	
Donald Koberg	Yoursell Worky	9/21/12	

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 4 of 4	
	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) SWEL1-578	
Equipment ID No. 92RTD-101B Equip. Class 19 - Temperatu	ure Sensors
Equipment Description EDG B Room South Side Resistance Temperature	re Detector
Photographs	
Note: 92RTD-101B Temperature sensor installed on concrete block. Note:	
*	8.1

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 1 of 5	
Seismic Walkdown Checklist (SWC) SWEL1- 581	Status: Y⊠ N□ U□
Equipment ID No. 93AC-A1 Equip. Class 12-Air Compres	
Equipment Description <u>Emergency Diesel Generator A Air Start Compres</u>	ssor A1
Location: Bldg. <u>FG</u> Floor El. <u>272'</u> Room, Area <u>C</u>	ol. 24 Line A2
Manufacturer, Model, Etc. (optional but recommended)	
Instructions for Completing Checklist	
This checklist may be used to document the results of the Seismic Walkdo SWEL. The space below each of the following questions may be used to r findings. Additional space is provided at the end of this checklist for documents.	ecord the results of judgments and
Anchorage	
 Is the anchorage configuration verification required (i.e., is the item of the 50% of SWEL items requiring such verification)? 	none Y⊠ N□
2. Is the anchorage free of bent, broken, missing or loose hardware?	Y⊠ N□ U□ N/A□
Anchorage contains all necessary hardware	
	•
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	Y⊠ N□ U□ N/A□
The anchorage has a small amount of paint chipping that is not a structural concern	
Is the anchorage free of visible cracks in the concrete near the anchors?	Y⊠ N□ U□ N/A□
There are no cracks in the concrete around the anchorage	

ATTACHMENT 9.6 SE	EISMIC WALKDOWN CHECKLIST FORM
Sheet 2 of 5	
Seismic Walkdown Checklist (SWC) SWEL1- 581	Status: Y⊠ N□ U□
· · · · · · · · · · · · · · · · · · ·	
Equipment ID No. 93AC-A1 Equip. Class 12-Air Compressor	<u>'S</u>
Equipment Description <u>Emergency Diesel Generator A Air Start Compresso</u>	r A1
Is the anchorage configuration consistent with plant documentation?(Note: This question only applies if the item is one of the 50% for which	Y⊠ N□ U□ N/A□ h
an anchorage configuration verification is required.) (Ref. 1.12-2, associated SEWS document)	
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□
Soft targets = 1/4" tubing (cu) see photo; Cable trays, conduit and 2" diameter air piping well supported (Note tubing in tube track - secure SAT). No soft target issues - SAT.	-
8. Are overhead equipment, distribution systems, ceiling tiles and lightin and masonry block walls not likely to collapse onto the equipment?	g, Y⊠ N□ U□ N/A□
Lighting, masonry wall, cable trays - all SAT.	
Do attached lines have adequate flexibility to avoid damage?	Y⊠ N□ U□ N/A□
Flex conduit and air hose (air start system ref 93RV-101A) - all SAT	
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	e Y⊠ N□ U□

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 3 of 5	
Seismic Walkdown Checklist (SWC) SWEL1- 581	Status: Y⊠ N□ U□
Seisific Walkdown Checklist (SWC)	•
Equipment ID No. <u>93AC-A1</u> Equip. Class <u>12-Air</u>	Compressors
Equipment Description Emergency Diesel Generator A Air Start	Compressor A1
Other Adverse Conditions	,
11. Have you looked for and found no other seismic condition adversely affect the safety functions of the equipment? All SAT.	is that could Y⊠ N□ U□
•	
Comments (Additional pages may be added as necessary)	
Some cracks running E-W along masonry wall near conci shrinkage/settlement cracks). Not considered adverse	
DAO 00	
Evaluated by: R. Casella / Kick Casella.	Date: 10/26/12
Evaluated by: R. Casella / Rich Casella. A.G. Porch / C. Danch	
A.G. Porch /	10/26/12

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 4 of 5

Status: Y⊠ N□ U□

Seismic Walkdown Checklist (SWC) SWEL1-581

Equipment ID No. 93AC-A1 Equip. Class 12-Air Compressors

Equipment Description Emergency Diesel Generator A Air Start Compressor A1

Photographs



Note: 93AC-A1



Note: 93AC-A1 including anchorage on east

end

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ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 5 of 5

Status: Y⊠ N□ U□

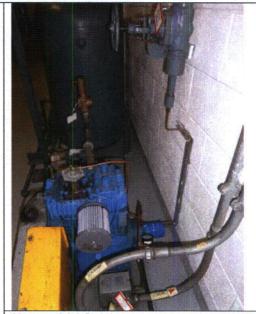
Seismic Walkdown Checklist (SWC) SWEL1-581

Equipment ID No. 93AC-A1 Equip. Class 12-Air Compressors

Equipment Description Emergency Diesel Generator A Air Start Compressor A1



Note: 93AC-A1anchorage



Note: 93AC-A1

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 1 of 5	
	Status: Y⊠ N⊟ U⊟
Seismic Walkdown Checklist (SWC) <u>SWEL1-582</u>	
Equipment ID No. 93AR-A1 Equip. Class 21	
Equipment Description Emergency Diesel Generator A Air Start Receiver	A1
Location: Bldg. <u>EG</u> Floor El. <u>272'</u> Room, Area <u>24.</u>	A2
Manufacturer, Model, Etc. (optional but recommended)	
Instructions for Completing Checklist	
This checklist may be used to document the results of the Seismic Walkdo SWEL. The space below each of the following questions may be used to refindings. Additional space is provided at the end of this checklist for document	ecord the results of judgments and
Anchorage	
 Is the anchorage configuration verification required (i.e., is the item of the 50% of SWEL items requiring such verification)? 	one Y⊠ N□
Is the anchorage free of bent, broken, missing or loose hardware? Anchorage contains all necessary hardware	Y⊠ N□ U□ N/A□
Is the anchorage free of corrosion that is more than mild surface oxidation?	Y⊠ N□ U□ N/A□
Mild surface oxidation and paint chipping was observed - no structuconcerns	ıral
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Y□ N⊠ U□ N/A□
Settlement crack in slab along masonry block wall approximately 4' South of wall. Not an issue based on load on anchor - OK.	
Hairline crack (very light) - SAT.	
Welds - leg to base plate and tank - SAT	

ATTACHMENT 9.6 SEISM	MIC WALKDOWN CHECKLIST FORM
Sheet 2 of 5	
Seismic Walkdown Checklist (SWC) <u>SWEL1- 582</u>	Status: Y⊠ N□ U□
Equipment ID No. 93AR-A1 Equip. Class 21	
Equipment Description <u>Emergency Diesel Generator A Air Start Receiver A1</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.) (Ref. 1.12-43, associated SEWS document) 	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□
93EDG-701A (3/4" drain valve - air receiver drain valve) only soft target - free from seismic effects (ppg above is well supported) - SAT	·.
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	Y⊠ N□ U□

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10/26/12

SEISMIC WALKDOWN CHECKLIST FORM **ATTACHMENT 9.6** Sheet 3 of 5 Status: Y⊠ N□ U□ Seismic Walkdown Checklist (SWC) SWEL1-582 Equipment ID No. 93AR-A1 _ 'Equip. Class<u>_21</u> Equipment Description Emergency Diesel Generator A Air Start Receiver A1 **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) Other air tanks are typical of 93AR-A1 Evaluated by: R. Casella / Rich Casella.

A.G. Porch / Dand Date: 10/26/122

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 4 of 5

Status: Y⊠ N□ U□

Seismic Walkdown Checklist (SWC) <u>SWEL1-582</u>

Equipment ID No. 93AR-A1 Equip. Class 21

Equipment Description Emergency Diesel Generator A Air Start Receiver A1

Photographs



Note: 93AR-A1



Note: 93AR-A1including support legs (note -3rd support leg in rear cannot be seen in this photo)

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ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 5 of 5

Status: Y⊠ N□ U□

Seismic Walkdown Checklist (SWC) SWEL1-582

Equipment ID No. 93AR-A1 Equip. Class 21

Equipment Description Emergency Diesel Generator A Air Start Receiver A1



Note: 93AR-A1 anchorage to floor



Note: 93AR-A1 anchorage to floor at 2 of the

3 legs

ATTACHMENT 9.6	EISMIC WALKDOWN CHECKLIST FOR
Sheet 1 of 4	
	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) <u>SWEL1-594</u>	
Equipment ID No. 93AR-B2 Equip. Class¹ 18-Instrument Ra	cks
Equipment Description EDG B Air Start Receiver B2	
Location: Bldg. <u>EG</u> Floor El. <u>272'</u> Room, Area <u>EG Roor</u>	n B, Col. 26.5
Manufacturer, Model, Etc. (optional but recommended)	<u> </u>
Instructions for Completing Checklist	
This checklist may be used to document the results of the Seismic Walkdow SWEL. The space below each of the following questions may be used to rec findings. Additional space is provided at the end of this checklist for docume	ord the results of judgments and
Anchorage	
 Is the anchorage configuration verification required (i.e., is the item of of the 50% of SWEL items requiring such verification)? 	ne Y⊠ N□
The item is one of the 50% of SWEL items requiring anchorage configuration verification.	
 Is the anchorage free of bent, broken, missing or loose hardware? The three (3), 3/8" expansion anchors are free of bent, broken, missi 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□
Anchorage is free of corrosion that is more than mild surface oxidation	on.
Is the anchorage free of visible cracks in the concrete near the anchors?	Y⊠ N□ U□ N/A□
There are concrete hairline cracks within the vicinity of the anchors be they do not pass through the center of any of the anchors. Therefore	,

the anchor strength due to these cracks and is deemed acceptable.

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

ATTACHMENT 9.6 SEISMIC WALKDOWN CHECKL	
Sheet 2 of 4	
Seismic Walkdown Checklist (SWC) <u>SWEL1-594</u>	Status: Y⊠ N□ U□
Equipment ID No. 93AR-B2 Equip. Class 18-Instrument Racks	
Equipment Description <u>EDG B Air Start Receiver B2</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.) The configuration of the three (3), 3/8" expansion anchors are consistent with the SEWS documentation for equipment 93AR-A1 (same as 93AR-B2).	Y⊠ N□ U□ N/A□
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	Y⊠ N□ U□
Based on the above anchorage evaluations, the anchorage is free of potentially adverse seismic conditions.	
Interaction Effects	
 Are soft targets free from impact by nearby equipment or structures? The soft targets are 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? The overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls are not likely to collapse onto the equipment.	Y⊠ N□ U□ N/A□
 Do attached lines have adequate flexibility to avoid damage? The lines attached to the SWEL item 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□
Based on the above seismic interaction evaluations, the equipment is free of potentially adverse seismic interaction effects.	

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 3 of 4	
	Status: Y⊠ N⊟ U⊟
Seismic Walkdown Checklist (SWC) SWEL1-594	-
Equipment ID No. 93AR-B2 Equip. Class 18-Instrument	Racks
Equipment Description EDG B Air Start Receiver B2	
Other Adverse Conditions	
11. Have you looked for and found no other seismic conditions that c adversely affect the safety functions of the equipment?	
No other seismic conditions that could adversely affect the safety functions of the equipment in the area were found.	
Comments (Additional pages may be added as necessary)	· · · · · · · · · · · · · · · · · · ·
No additional comments.	
110 01,	
Evaluated by: Harpreet Ghuman 140 ZHVVV	Date: 09/21/2012
Miore	
Yaroslav Losev	09/21/2012

SEISMIC WALKDOWN CHECKLIST FOR
Status: Y⊠ N⊡ U⊡
1-594
ass 21-Tanks and Heat Exchangers
Note:
as

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 1 of 5 Seismic Walkdown Checklist (SWC) SWEL1- 624	Status: Y☐ N☐ U⊠
Equipment ID No. 93ECP-A Equip. Class_20 - Instrument a	nd Control Panels
Equipment Description EDG A Engine Control Panel	·
Location: Bldg. EG Floor El. 272 Room, Area 24, G1	
Manufacturer, Model, Etc. (optional but recommended)	
Instructions for Completing Checklist	
This checklist may be used to document the results of the Seismic Walkdow SWEL. The space below each of the following questions may be used to re findings. Additional space is provided at the end of this checklist for document	cord the results of judgments and
Anchorage	
 Is the anchorage configuration verification required (i.e., is the item of the 50% of SWEL items requiring such verification)? 	one Y⊠ 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 oxidation?	Y□ N□ U⊠ N/A□
Is the anchorage free of visible cracks in the concrete near the anchors?	Y□ N□ U⊠ N/A□

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 2 of 5	
Seismic Walkdown Checklist (SWC) <u>SWEL1- 624</u>	Status: Y☐ N☐ U⊠
Equipment ID No. 93ECP-A Equip. Class_20 - Instrument ar	nd Control Panels
Equipment Description EDG A Engine Control Panel	
5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for whi an anchorage configuration verification is required.)	Y□ N□ U⊠ N/A□ ich
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? N/A	f 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?	ng, 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 from of potentially adverse seismic interaction effects?	ee Y⊠ N□ U□

ATTACHMENT 9.6	Sei	SMIC WALKDOWN CHECKLIST FORM
Sheet 3 of 5		
Seismic Walkdown Checklist (SWC)	SWEL1- 624	Status: Y☐ N☐ U⊠
Equipment ID No. 93ECP-A	Equip. Class_20 - Instrument and	Control Panels
Equipment Description <u>EDG A Engine Co</u>	ntrol Panel	
Other Adverse Conditions		
Have you looked for and found no calculate adversely affect the safety functions		Y⊠ N□ U□
Comments (Additional pages may be adde	ed as necessary)	
Conduit (rigid) is supported by unist feet of flex conduit at inter with to support will be dissipated by flex	op of panel. Therefore any seismic	
· ·		
Evaluated by: <u>Rick Casella</u>	Casella	Date: <u>10/29/12</u>
LO, C)d_	10/00/10
Al Porch		<u>10/29/12</u>

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 4 of 5

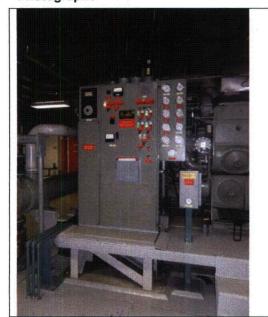
Status: Y□ N□ U⊠

Seismic Walkdown Checklist (SWC) SWEL1-624

Equipment ID No. 93ECP-A Equip. Class_20 - Instrument and Control Panels___

Equipment Description EDG A Engine Control Panel

Photographs



Note: 93ECP-A



Note: 93ECP-A with flex conduit rising off top of panel

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SEISMIC WALKDOWN CHECKLIST FORM

Sheet 5 of 5

Status: Y □ N □ U ⊠

Seismic Walkdown Checklist (SWC) SWEL1-624

Equipment ID No. 93ECP-A Equip. Class_20 - Instrument and Control Panels_

Equipment Description EDG A Engine Control Panel



Note: Soft targets (hoses) off back of 93ECP-A



Note: Conduits supported above 93ECP-A

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 1 of 4	
Seismic Walkdown Checklist (SWC) <u>SWEL1-625</u>	Status: Y⊠ N□ U□
Equipment ID No. 93ECP-B Equip. Class 20-Instrument a	nd Control Panels
Equipment Description EDG B Engine Control Panel	
Location: Bldg. <u>EG</u> Floor El. <u>272'</u> Room, Area <u>EG Roo</u>	om B, Col. 26, Line A3
Manufacturer, Model, Etc. (optional but recommended)	
Instructions for Completing Checklist	
This checklist may be used to document the results of the Seismic Walkdor SWEL. The space below each of the following questions may be used to refindings. Additional space is provided at the end of this checklist for documents.	cord the results of judgments and
Anchorage	
1. Is the anchorage configuration verification required (i.e., is the item of the 50% of SWEL items requiring such verification)?	one Y⊠ N□
The item is one of the 50% of SWEL items requiring anchorage configuration verification.	
 Is the anchorage free of bent, broken, missing or loose hardware? The four (4) 3/4" expansion anchors are free of bent, broken, missing loose hardware. 	Y⊠ N□ U□ N/A□ ng or
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	Y⊠ N□ U□ N/A□
Anchorage is free of corrosion that is more than mild surface oxidat	ion.
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Y⊠ N□ U□ N/A□
The anchors are free of visible cracks in the concrete.	

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

ATTACHMENT 9.6 SEISM	MIC WALKDOWN CHECKLIST FORM
Sheet 2 of 4	
Seismic Walkdown Checklist (SWC) <u>SWEL1-625</u>	Status: Y⊠ N□ U□
Equipment ID No. 93ECP-B Equip. Class 20-Instrument and Co	ntrol Panels
Equipment Description EDG 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□
The configuration of the four (4), 3/4" expansion anchors is consistent with the SEWS documentation for equipment 93ECP-A (same as 93ECP-B).	
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	Y⊠ N□ U□
Based on the above anchorage evaluations, the anchorage is free of potentially adverse seismic conditions.	
Interaction Effects	
 Are soft targets free from impact by nearby equipment or structures? The soft targets are 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? The overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls are not likely to collapse onto the equipment.	Y⊠ N□ U□ N/A□
 Do attached lines have adequate flexibility to avoid damage? The lines attached to the SWEL item 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□
Based on the above seismic interaction evaluations, the equipment is free of potentially adverse seismic interaction effects.	

ATTACHMENT 9.6	EISMIC WALKDOWN CHECKLIST FORM
Sheet 3 of 4	
Colombia Malladarum Charlatich (CMC) CMF1 4 COF	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) <u>SWEL1-625</u>	
Equipment ID No. <u>93ECP-B</u> Equip. Class <u>20-Instrument and</u>	Control Panels
Equipment Description EDG B Engine Control Panel	
Other Adverse Conditions	
11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment?	I Y□ N⊠ U□
Top of the Control Panel is unsupported. The SWES evaluation determined that the panel is acceptable without these anchors; however the same evaluation does not include the load transferred from the overhead conduits attached to the panel. These conduits drapproximately 10 ft vertically into the panel without any lateral support	
to minimize the interaction load to the panel. Based on engineering judgment, during a seismic event a significant lateral load from the conduits will contribute to the moment arm transferred to the base	
anchors which potentially could result in failure of the anchors and overturn the panel. The resolution to this deficiency is tracked throug LB-01.	h
Comments (Additional pages may be added as necessary)	
No additional comments.	
	•
Evaluated by: Harpreet Ghuman 18 21.	Date: <u>09/21/2012</u>
Yaroslav Losey	09/21/2012

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 4 of 4

Status: Y⊠ N□ U□

Seismic Walkdown Checklist (SWC) <u>SWEL1-625</u>

Equipment ID No. 93ECP-B Equip. Class 20-Instrument and Control Panels

Equipment Description EDG B Engine Control Panel

Photographs



Note: Picture of equipment 93ECP-B. Note: the conduits attached at the top of the panel are the ones that extend approximately 10' vertically.



Note: Picture showing that the control panel is not attached/supported at the top.

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 1 of 5	
	Status: Y☐ N☐ U⊠
Seismic Walkdown Checklist (SWC) <u>SWEL1- 628</u>	
Equipment ID No. 93ECSP-A Equip. Class 20 - Instrument a	and Control Panels
Equipment Description EDG A Engine Control Sub-Panel	
Location: Bldg. <u>EG</u> Floor El. <u>272</u> Room, Area <u>24, A4</u>	
Manufacturer, Model, Etc. (optional but recommended)	
Instructions for Completing Checklist	
This checklist may be used to document the results of the Seismic Walkdo SWEL. The space below each of the following questions may be used to refindings. Additional space is provided at the end of this checklist for document	ecord the results of judgments and
Anchorage	
 Is the anchorage configuration verification required (i.e., is the item of the 50% of SWEL items requiring such verification)? 	one 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□ N□ U⊠ N/A□

ATTACHMENT 9.6	EISMIC WALKDOWN CHECKLIST FOR
Sheet 2 of 5	
Seismic Walkdown Checklist (SWC)SWEL1- 628	Status: Y□ N□ U⊠
, <u>, , , , , , , , , , , , , , , , , , </u>	
Equipment ID No. <u>93ECSP-A</u> Equip. Class <u>20 - Instrument an</u>	d Control Panels
Equipment Description EDG A Engine Control Sub-Panel	· · · · · · · · · · · · · · · · · · ·
 Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for whi an anchorage configuration verification is required.) 	Y□ N□ U□ N/A⊠ ch
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?	ng, 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?	ee Y⊠ N□ U□

ATTACHMENT 9.6	SEISA	IIC WALKDO	wn Ch	ECKLIS	T FORM
Sheet 3 of 5					
		Status:	Υ□	N	U⊠
Seismic Walkdown Checklist (SWC) <u>SWEL1- 628</u>		•			
Equipment ID No. 93ECSP-A Equip. Class 20 - Instrument	and C	ontrol Pane	ls		
Equipment Description EDG A Engine Control Sub-Panel		· .			
Other Adverse Conditions					
Have you looked for and found no other seismic conditions that co adversely affect the safety functions of the equipment?	ould	Y⊠ N□	U		
Comments (Additional pages may be added as necessary)		······································			
Need support detail	•	•			
			ı	•	
			,		•
					· ,
Evaluated by: Rick Casella	,	Date: 10	/20/12		–
Al Porch			/29/12		

ATTACHMENT 9	9.6
Shoot 4 of 5	

SEISMIC WALKDOWN CHECKLIST FORM

Status: Y□ N□ U⊠

Seismic Walkdown Checklist (SWC) SWEL1- 628

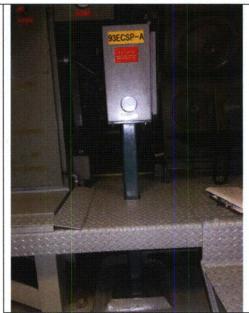
Equipment ID No. 93ECSP-A Equip. Class 20 - Instrument and Control Panels

Equipment Description EDG A Engine Control Sub-Panel

Photographs



Note: 93ECSP-A



Note: 93ECSP-A including anchorage

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 5 of 5

Status: Y N U U □

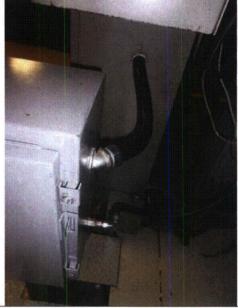
Seismic Walkdown Checklist (SWC) __SWEL1- 628

Equipment ID No. 93ECSP-A Equip. Class 20 - Instrument and Control Panels

Equipment Description EDG A Engine Control Sub-Panel



Note: 93ECSP-A anchorage



Note: Electrical connections to 93ECSP-A

ATTACHMENT 9.6 SEIS	SMIC WALKDOWN CHECKLIST FORM
Sheet 1 of 4	
	Status: Y⊠ N⊟ U⊠
Seismic Walkdown Checklist (SWC) SWEL1-629	
Equipment ID No. 93ECSP-B Equip. Class 20 – Instrument and	Control Panels
Equipment Description EDG-B Engine Control Sub Panel	
Location: Bldg. EG Floor El. 272 Room, Area C: 26, L: A3	3
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.	d 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□
 Is the anchorage free of bent, broken, missing or loose hardware? The four (4) 3/8" Hilti anchors are free of bent, broken, missing or loose hardware. 	Y□ N□ U☒ N/A□
Panels need to be removed and anchorage of internal components needs to be checked.	•
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	Y⊠ N□ U□ N/A□
The anchorage is free of corrosion that is more than mild surface oxidation.	
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Y⊠ N□ U□ N/A□
The anchorage is free of visible cracks in the concrete near the anchors.	•

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

ATTACHMENT 9.6 SEISMIC WALKDOWN CHECKLIST FORM Sheet 2 of 4 Status: Y⊠ N⊟ U⊟ Seismic Walkdown Checklist (SWC) <u>SWEL1-629</u> Equip. Class 20 - Instrument and Control Panels Equipment ID No. 93ECSP-B Equipment Description EDG-B Engine Control Sub Panel Y⊠ N□ U□ N/A□ 5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) The configuration of the four (4), 3/8" Hilti Anchors is consistent with SEWS for 93 ECSP-A Rev 0, which is identical to ECSP-B. Y□ N□ U⊠ 6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Panels need to be removed and anchorage of internal components needs to be checked. **Interaction Effects** Y⊠ N□ U□ N/A□ 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□ 10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?

ATTACHMENT 9.6		SEISMIC W	ALKDOWN CH	ECKLIST FORM
Sheet 3 of 4				
·		S	tatus: Y⊠	NU UU
Seismic Walkdown Checklist (SWC)	SWEL1-629			
Equipment ID No. 93ECSP-B	Equip. Class 20 – Instru	ument and Contro	l Panels	·
Equipment Description <u>EDG-B Engine Co</u>			,	<u>.</u> .
		·		
Other Adverse Conditions				
Have you looked for and found no calculated adversely affect the safety functions		nat could Y⊠	N U	
1	•			
		•		
<u> </u>				
Comments (Additional pages may be added	ed as necessary)			
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		•		
	·	• • •		. ·
Evaluated by: <u>Harpreet Ghuman</u>	M~-	Dot	0/21/12	
Evaluated by. <u>Harpreet Gridman 1.7 G</u>		Dal	e: <u>9/21/12</u>	
and the second s	cosee			
Yaroslav Losev			9/21/12	

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 4 of 4	
Seismic Walkdown Checklist (SWC)SWEL1-629	Status: Y⊠ N□ U□
Equipment ID No. 93ECSP-B Equip. Class 20 – Instrument	t and Control Panels
Equipment Description EDG-B Engine Control Sub Panel	
Photographs	
Note: 93ECSP-B Engine Control Sub Panel Note:	

ATTACHMENT 9.6 SEIS	MIC WALKDOWN CHECKLIST FORM
Sheet 1 of 5	· · · · · · · · · · · · · · · · · · ·
	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) <u>SWEL1- 634</u>	
Equipment ID No. 93EDG-C Equip. Class Engine Generators	
Equipment Description Emergency Diesel Generator C	· · · · · · · · · · · · · · · · · · ·
Location: Bldg. <u>EG</u> Floor El. <u>272'</u> Room, Area <u>Col. 2</u> -	4 line A4, AZ
Manufacturer, Model, Etc. (optional but recommended)	<u> </u>
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□
Is the anchorage free of bent, broken, missing or loose hardware? Anchorage contains all necessary hardware	Y⊠ N□ U□ N/A□
Is the anchorage free of corrosion that is more than mild surface oxidation? The anchorage is free of any corrosion	Y⊠ N□ U□ N/A□
	•
Is the anchorage free of visible cracks in the concrete near the anchors?	Y□ N⊠ U□ N/A□
Hairline cracks in grout at various bolt locations (previously addressed at 93EDG-D and documented in CR-JAF-2012-06090)	

ATTACHMENT 9.6	MIC WALKDOWN CHECKLIST FORM		
Sheet 2 of 5 Seismic Walkdown Checklist (SWC) <u>SWEL1-634</u>	Status: Y⊠ N⊟ U⊟		
Equipment ID No. 93EDG-C Equip. Class Engine Generator	rs		
Equipment Description Emergency Diesel Generator C			
 Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for wh an anchorage configuration verification is required.) (Ref. 1.12-95, associated SEWS document) 			
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	f Y⊠ N□ U□		
	<u>.</u>		
Interaction Effects			
 Are soft targets free from impact by nearby equipment or structures? Numerous soft targets on EDG. No credible seismic impacts 	? Y⊠ N□ U□ N/A□		
	,		
8. Are overhead equipment, distribution systems, ceiling tiles and lighti and masonry block walls not likely to collapse onto the equipment?	ng, 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 from of potentially adverse seismic interaction effects?	ee Y⊠ N□ U□		

Attachment C

Engineering Report No. JAF-RPT-12-00015 Rev. 0 Page 424 of 573

ATTACHMENT 9.6 SEIS	MIC WALKDOWN CHECKLIST FORM
Sheet 3 of 5	
	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) <u>SWEL1- 634</u>	
Equipment ID No. 93EDG-C Equip. Class Engine Generators	
Equipment Description Emergency Diesel Generator C	
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: R. Casella / Rich Casella	Date: 10/26/12
Evaluated by: R. Casella / Rich Casella. A.G. Porch / Daniel	10/26/12

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SEISMIC WALKDOWN CHECKLIST FORM

Sheet 4 of 5

Status: Y⊠ N□ U□

Seismic Walkdown Checklist (SWC) SWEL1- 634

Equipment ID No. 93EDG-C Equip. Class Engine Generators

Equipment Description Emergency Diesel Generator C

Photographs





Note: 93EDG-C

Note: 93EDG-C

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 5 of 5	
	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) SWEL1- 634	
Equipment ID No. 93EDG-C Equip. Class Engine General	ators
Equipment Description Emergency Diesel Generator C	
Note: 93EDG-C Note:	

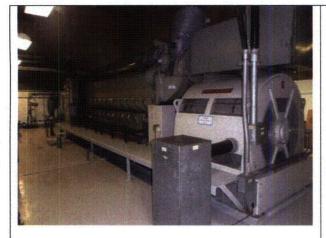
ATTACHMENT 9.6 SEISM	IC WALKDOWN CHECKLIST FORM		
Sheet 1 of 5			
Seismic Walkdown Checklist (SWC) SWEL1-635	Status: Y⊠ N□ U□		
Equipment ID No. 93EDG-D Equip. Class Engine Generator			
Equipment Description Emergency Diesel Generator D			
Location: Bldg. <u>EG</u> Floor El. <u>272</u> Room, Area <u>Col. 26.5</u>			
Manufacturer, Model, Etc. (optional but recommended) <u>EMD Engine Portec G</u>	en		
Instructions for Completing Checklist	,		
This checklist may be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.			
Anchorage			
1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?	Y⊠ N□		
2. Is the anchorage free of bent, broken, missing or loose hardware? The anchorage is 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□		
Mild surface corrosion on the bolts. No impact on seismic adequacy.			
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Y⊠ N□ U□ N/A□		
Anchors on north side of unit - Hairline crack in grout adjacent to the 3 rd anchor from the Northeast corner. Crack continues on concrete at base of unit. Hairline crack 4" S of 5 th anchor from northeast. Both the 7 th and 8 th bolts have hair line cracks at the bolts in the grout.			
Anchors on south side of unit – Additional hair line cracks similar to north side.			
The above condition is addressed in CR-JAF-2012-06345. As discussed in the response to CA #1, the existing condition is acceptable with no adverse seismic effects.			

SEISMIC WALKDOWN CHECKLIST FORM **ATTACHMENT 9.6** Sheet 2 of 5 Status: Y⊠ N□ U□ Seismic Walkdown Checklist (SWC) <u>SWEL1-635</u> Equipment ID No. 93EDG-D Equip. Class Engine Generator Equipment Description Emergency Diesel Generator D Y⊠ N□ U□ N/A□ 5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) $Y \boxtimes N \square U \square$ 6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? **Interaction Effects** Y⊠ N□ U□ N/A□ 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? 10. Based on the above seismic interaction evaluations, is equipment free $Y \boxtimes N \square U \square$ of potentially adverse seismic interaction effects?

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 3 of 5	
Seismic Walkdown Checklist (SWC) <u>SWEL1-635</u>	Status: Y⊠ N⊟ U⊟
Equipment ID No. 93EDG-D Equip. Class Engine Generate	or
Equipment Description <u>Emergency Diesel Generator D</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? Support for 2" air line has 2 bolts on each side that are either flush the nuts or less than full thread engagement. This condition was addressed in CR-JAF-2012-06345. There is no adverse seismic in resulting from this condition.	with
Comments (Additional pages may be added as necessary)	
Hair line crack from support of south air start line. Vertical side less addressed in CR-JAF-2012-06345. This does not constitute an	
	•
Evaluated by: Rick Casella	Date: <u>9-27-12</u>
Alan Porch	9-27-12

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 4 of 5	
Seismic Walkdown Checklist (SWC) <u>SWEL1-635</u>	Status: Y⊠ N□ U□
Equipment ID No. 93EDG-D Equip. Class Er	gine Generator

Photographs



Equipment Description Emergency Diesel Generator D



Note: 93EDG-D

Note: 93EDG-D

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 5 of 5

Status: Y⊠ N□ U□

Seismic Walkdown Checklist (SWC) <u>SWEL1-635</u>

Equipment ID No. 93EDG-D Equip. Class Engine Generator

Equipment Description Emergency Diesel Generator D





Note: 93EDG-D crack in grout in proximity of anchor bolt

Note: 93EDG Anchor Bolt (8 on each side of Unit)

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FOR
Sheet 1 of 5	CIONIO VALKDOVII OTILORGIOTI ORI
Seismic Walkdown Checklist (SWC)SWEL1-636	Status: Y☐ N☐ U⊠
Equipment ID No. 93EGP-A Equip. Class 20 - Instrument ar	nd Control Panels
Equipment Description EDG A Generator Control Panel	
Location: Bldg. EG Floor El. 272 Room, Area 24, A1	
Manufacturer, Model, Etc. (optional but recommended)	
Instructions for Completing Checklist	
This checklist may be used to document the results of the Seismic Walkdow SWEL. The space below each of the following questions may be used to rec findings. Additional space is provided at the end of this checklist for docume	cord the results of judgments and
Anchorage	
 Is the anchorage configuration verification required (i.e., is the item of of the 50% of SWEL items requiring such verification)? 	one Y□ N⊠
	V
2. Is the anchorage free of bent, broken, missing or loose hardware?	Y□ N□ U図 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?	Y□ N□ U⊠ N/A□

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Page	433	of	573

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 2 of 5	
Seismic Walkdown Checklist (SWC) <u>SWEL1-636</u>	Status: Y☐ N☐ U⊠
Equipment ID No. 93EGP-A Equip. Class 20 - Instrument ar	nd Control Panels
Equipment Description <u>EDG A Generator Control Panel</u>	ia conduit andic
	Y□ N□ U□ N/A☒
Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for whi an anchorage configuration verification is required.)	
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?	ng, 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 from of potentially adverse seismic interaction effects?	ee Y⊠ N□ U□
SUGAT	
Enstr. Grange 1 48" 126"	
42"	
See Comments	•

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM		
Sheet 3 of 5			
	Status: Y☐ N☐ U⊠		
Seismic Walkdown Checklist (SWC) <u>SWEL1-636</u>	÷		
Equipment ID No. 93EGP-A Equip. Class 20 - Instrument a	and Control Panels		
Equipment Description EDG A Generator Control Panel	· · · · · · · · · · · · · · · · · · ·		
Other Adverse Conditions			
11. Have you looked for and found no other seismic conditions that cou adversely affect the safety functions of the equipment?	ld Y⊠ N□ U□		
Comments (Additional pages may be added as necessary)			
Question 10: In a seismic event, if light fixture was decoupled from 1 of its 2 supporting chains, out-of- plane swinging motion (i.e. toward 93EGO-A) would be limited and will not contact the panel. No adverse seismic interaction.			
Evaluated by: Rick Casella	Date: <u>10/29/12</u>		
Al Porch	<u>10/29/12</u>		

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIS	ST FORM
Sheet 4 of 5		
	Status: Y□ N□	υ⊠
Seismic Walkdown Checklist (SWC)		OZ
Equipment ID No. 93EGP-A Ed	quip. Class 20 - Instrument and Control Panels	

Photographs



Equipment Description <u>EDG A Generator Control Panel</u>

Note: 93EGP-A



Note: Side view of 93EGP-A

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 5 of 5	
	Status: Y☐ N☐ U⊠
Seismic Walkdown Checklist (SWC) <u>SWEL1-636</u>	
Equipment ID No. 93EGP-A Equip. Class 2	0 - Instrument and Control Panels
Equipment Description EDG A Generator Control Panel	
Note: Conduit off top of 93EGP-A N	ote:

ATTACHMENT 9.6 SEISM	IIC WALKDOWN CHECKLIST FORM
Sheet 1 of 5	
	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC)SWEL1-637	
Equipment ID No. 93EGP-B Equip. Class 20 – Instrumentation	and Control Panels
Equipment Description Emergency Diesel Generator B Control Panel	
Location: Bldg. <u>EG.</u> Floor El. <u>272</u> Room, Area <u>Col. 26, Line</u>	A1
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□
 Is the anchorage free of bent, broken, missing or loose hardware? External anchorage is free of bent, broken, missing or loose hardware. Panels need to be removed and anchorage of internal components needs to be checked. 	Y□ N□ U⊠ N/A□
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	Y⊠ N□ U□ N/A□
Anchorage is free of corrosion that is more than mild surface oxidation.	1
4. Is the anchorage free of visible cracks in the concrete near the anchors? Anchorage is free of visible cracks in the concrete near the anchorage.	Y⊠ N□ U□ N/A□

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

ATTACHMENT 9.6 SEISI	MIC WALKDOWN CHECKLIST FORM
Sheet 2 of 5	
Seismic Walkdown Checklist (SWC) <u>SWEL1-637</u>	Status: Y⊠ N□ U□
Equipment ID No. 93EGP-B Equip. Class 20 – Instrumentation	and Control Panels
Equipment Description Emergency Diesel Generator B Control Panel	
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□
The anchorage configuration is consistent with the SEWS for 93EGP-B (Rev. 0). The front welding consists of six 1" x 1/8" fillets, the back welding consists of six 1" seam welds plus one 2" corner weld.	
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□
Cable from tray 1TC456B is overhanging the tray. Will not damage the cabinet in a seismic event	
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□

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ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FOR	
Sheet 3 of 5		
·		Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC)	SWEL1-637	
Equipment ID No. 93EGP-B	Equip. Class 20 - Instrument	ation and Control Panels
Equipment Description <u>Emergency Diesel</u>	Generator B Control Panel	
Other Adverse Conditions		
Have you looked for and found no o adversely affect the safety functions		uld Y⊠ N□ U□
Comments (Additional pages may be adde	ed as necessary)	
•		
		•
r		v.
Evaluated by: <u>Donald Koberg</u> Small	Why .	Date: <u>9/27/12</u>
Pouria Pourghohadi	M.	0/27/12

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 4 of 5

Status: Y⊠ N□ U□

Seismic Walkdown Checklist (SWC) SWEL1-637

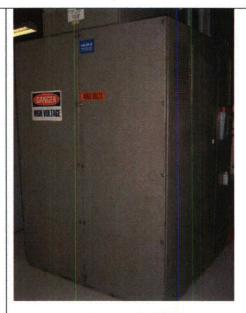
Equipment ID No. 93EGP-B Equip. Class 20 – Instrumentation and Control Panels

Equipment Description Emergency Diesel Generator B Control Panel

Photographs



Note: 93EGP-B Panel



Note: 93EGP-B Panel

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 5 of 5	
	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) <u>SWEL1-6</u>	
Equipment ID No. <u>93EGP-B</u> Equip. Clas	s 20 – Instrumentation and Control Panels
Equipment Description <u>Emergency Diesel Generator B</u>	Control Panel
	18
Note: 93EGP-B Panel base welds.	Note:

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 1 of 5	
	Status: Y□ N□ U⊠
Seismic Walkdown Checklist (SWC) SWEL1- 640	<u> </u>
Equipment ID No. 93FPAC Equip. Class Instrumentation	and Control Panels
Equipment Description Emergency Diesel Generator A and C Forced Pa	aralleling Panel
Location: Bldg. <u>EG</u> Floor El. <u>272'</u> Room, Area	24.5, A
Manufacturer, Model, Etc. (optional but recommended)	
Instructions for Completing Checklist	
This checklist may be used to document the results of the Seismic Walkd SWEL. The space below each of the following questions may be used to findings. Additional space is provided at the end of this checklist for document	record the results of judgments and
Anchorage	
 Is the anchorage configuration verification required (i.e., is the iter of the 50% of SWEL items requiring such verification)? 	m one Y⊠ N□
2. Is the anchorage free of bent, broken, missing or loose hardware?	? Y□ N□ U⊠ N/A□
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	Y□ N□ U⊠ N/A□
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Y□ N□ U⊠ N/A□

The state of the s	EISMIC WALKDOWN CHECKLIST FORM
Sheet 2 of 5	
Seismic Walkdown Checklist (SWC)SWEL1- 640	Status: Y☐ N☐ U⊠
Equipment ID No. 93FPAC Equip. Class Instrumentation ar	nd Control Panels
Equipment Description Emergency Diesel Generator A and C Forced Parallel	leling 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□ ch
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? N/A	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?	ng, 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 fre of potentially adverse seismic interaction effects?	ee Y⊠ N□ U□

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 3 of 5	
	Status: Y☐ N☐ U⊠
Seismic Walkdown Checklist (SWC) SWEL1- 640	
Equipment ID No. 93FPAC Equip. Class Instrumentation	n and Control Panels
Equipment Description Emergency Diesel Generator A and C Forced Pa	aralleling Panel
Other Adverse Conditions	
11. Have you looked for and found no other seismic conditions that co adversely affect the safety functions of the equipment?	ould Y⊠ N□ U□
Comments (Additional pages may be added as necessary)	
Conduits 1CK402RC and 1CC421RE off the top of 93FPAC 1st s exceeds 3' spacing given in IS-E-05. Not a seismic concern log Elevation 272.	
Lievation 272.	
Evaluated by: R. Casella / Rul Casella	Date: 10/26/12
Evaluated by: R. Casella / Rel Casella A.G. Porch /	10/26/12

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 4 of 5

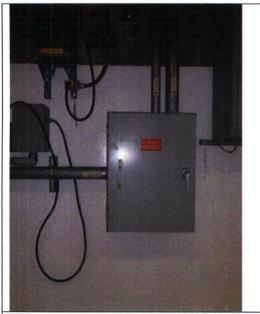
Status: Y□ N□ U⊠

Seismic Walkdown Checklist (SWC) SWEL1- 640

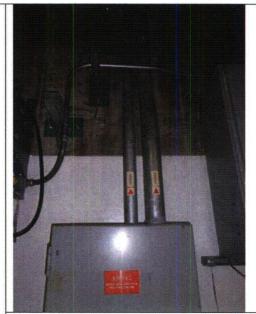
Equipment ID No. 93FPAC Equip. Class Instrumentation and Control Panels

Equipment Description Emergency Diesel Generator A and C Forced Paralleling Panel

Photographs



Note: 93FPAC



Note: 93FPAC

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SEISMIC WALKDOWN CHECKLIST FORM

Sheet 5 of 5

Status: Y N U U ⊠

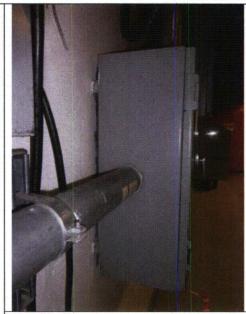
Seismic Walkdown Checklist (SWC) SWEL1- 640

Equipment ID No. 93FPAC Equip. Class Instrumentation and Control Panels

Equipment Description Emergency Diesel Generator A and C Forced Paralleling Panel



Note: 93FPAC



Note: 93FPAC

ATTACHMENT 9.6	EISMIC WALKDOWN CHECKLIST FORM
Sheet 1 of 4	
Seismic Walkdown Checklist (SWC) SWEL1- 642	Status: Y⊠ N⊟ U⊟
Equipment ID No. 93LI-102A Equip. Class_18 - Instrument Re	acks
Equipment Description EDG A Fuel Oil Day Tank A Level Indicator	
Location: Bldg. BR Floor El. 282 Room, Area 12, E	
Manufacturer, Model, Etc. (optional but recommended)	
Instructions for Completing Checklist	
This checklist may be used to document the results of the Seismic Walkdow SWEL. The space below each of the following questions may be used to rec findings. Additional space is provided at the end of this checklist for docume	ord the results of judgments and
Anchorage	
 Is the anchorage configuration verification required (i.e., is the item of of the 50% of SWEL items requiring such verification)? 	ne Y□ N⊠
2. Is the anchorage free of bent, broken, missing or loose hardware? The anchorage is 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□
The anchorage is free of corrosion.	
Is the anchorage free of visible cracks in the concrete near the anchors?	Y□ N□ U□ N/A⊠
No concrete.	

ATTACHMENT 9.6 SEI	SMIC WALKDOWN CHECKLIST FORM
Sheet 2 of 4	
Seismic Walkdown Checklist (SWC) <u>SWEL1- 642</u>	Status: Y⊠ N□ U□
Equipment ID No. 93LI-102A Equip. Class_18 - Instrument Rac	ks
Equipment Description EDG A Fuel Oil Day Tank A Level Indicator	
 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⊠
	<u> </u>
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	Y⊠ N□ U□

	SMIC WALKDOWN CH	ECKLIST FORM
Sheet 3 of 4 Seismic Walkdown Checklist (SWC) SWEL1- 642	Status: Y⊠	N□ U□
Equipment ID No. 93LI-102A Equip. Class_18 - Instrument Rac	ks	
Equipment Description EDG A Fuel Oil Day Tank A Level Indicator		
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)		
Attached to South side SWEL item 93ECP-A (see photo)		
		,
Evaluated by: Rick Casella	Date: <u>10/29/12</u>	
LC, Dand	· · · · · · · · ·	
Al Dariel	40/00/40	

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 4 of 4	
Saiamia Walkdawa Chaaklist (SWC) SWELL 642	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) <u>SWEL1- 642</u>	
Equipment ID No. 93LI-102A Equip. Class_18 - Instrument R	Packs
Equipment Description EDG A Fuel Oil Day Tank A Level Indicator	
Photographs	
93-LI-102A Tip a ving pin from mar	
Note: 93LI-102A (located on 93ECP-A) Note:	

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 1 of 4	
	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) <u>SWEL1-643</u>	, , , , , , , , , , , , , , , , , , ,
Equipment ID No. 93LI-102B Equip. Class ¹ 18-Instrument R	Packs
Equipment Description EDG B Fuel Oil Day Tank B Level Indicator	
Location: Bldg. <u>EG</u> Floor El. <u>272'</u> Room, Area <u>EG Roo</u>	om B, Col. 26, Line A4
Manufacturer, Model, Etc. (optional but recommended)	
Instructions for Completing Checklist	
This checklist may be used to document the results of the Seismic Walkdor SWEL. The space below each of the following questions may be used to refindings. Additional space is provided at the end of this checklist for document	ecord the results of judgments and
Anchorage	
 Is the anchorage configuration verification required (i.e., is the item of the 50% of SWEL items requiring such verification)? 	one Y□ N⊠
The evaluated item in this SWC is not part of the 50% of the SWEL items requiring anchorage configuration verification.	
2. Is the anchorage free of bent, broken, missing or loose hardware?	Y⊠ N□ U□ N/A□
The four (4) self-tapping screws are free of bent, broken, missing of loose hardware.	r
Is the anchorage free of corrosion that is more than mild surface oxidation?	Y⊠ N□ U□ N/A□
Anchorage is free of corrosion that is more than mild surface oxidat	tion.
Is the anchorage free of visible cracks in the concrete near the anchors?	Y□ N□ U□ N/A⊠

Gage/Instrument is attached to a steel panel.

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

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 2 of 4	
Seismic Walkdown Checklist (SWC) <u>SWEL1-643</u>	Status: Y⊠ N☐ U☐
·	
Equipment ID No. 93LI-102B Equip. Class 18-Instrument Re	acks
Equipment Description <u>EDG B Fuel Oil Day Tank B Level Indicator</u>	
5. Is the anchorage configuration consistent with plant documentation (Note: This question only applies if the item is one of the 50% for whan anchorage configuration verification is required.) Item is not one of the 50% for which an anchorage configuration	
verification is required.	
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	of Y⊠N□U□
Based on the above anchorage evaluations, the anchorage is free of potentially adverse seismic conditions.	of
Interaction Effects	
7. Are soft targets free from impact by nearby equipment or structures	? Y⊠ N□ U□ N/A□
The soft targets are free from impact by nearby equipment or structures.	
Are overhead equipment, distribution systems, ceiling tiles and light	ting, Y⊠ N⊡ U⊡ N/A⊡
and masonry block walls not likely to collapse onto the equipment? The overhead equipment, distribution systems, ceiling tiles and ligh	
and masonry block walls are not likely to collapse onto the equipme	ent.
9. Do attached lines have adequate flexibility to avoid damage?	Y⊠ N□ U□ N/A□
The lines attached to the SWEL item have adequate flexibility to av damage.	'OId
10. Based on the above seismic interaction evaluations, is equipment f of potentially adverse seismic interaction effects?	ree Y⊠ N□ U□
Based on the above seismic interaction evaluations, the equipment free of potentially adverse seismic interaction effects.	t is

TTACHMENT 9.6 SEISMIC WALKDOWN CHECK	
Sheet 3 of 4	
	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) <u>SWEL1-643</u>	· · · · · · · · · · · · · · · · · · ·
Equipment ID No. 93LI-102B Equip. Class 18-Instrument F	Racks
Equipment Description EDG B Fuel Oil Day Tank B Level Indicator	
Other Adverse Conditions	
11. Have you looked for and found no other seismic conditions that co adversely affect the safety functions of the equipment?	uld Y⊠ N□ U□
No other seismic conditions that could adversely affect the safety functions of the equipment in the area were found.	
	·
Comments (Additional pages may be added as necessary)	
No additional comments.	
Evaluated by: Harpreet Ghuman H8 H	Date: 09/21/2012
Yaroslav Lose V	

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FOR
Sheet 4 of 4	Status: Y⊠ N⊡ U⊡
Seismic Walkdown Checklist (SWC) <u>SWEL1-643</u>	
Equipment ID No. 93LI-102B Equip. Class 18-Instrume	ent Racks
Equipment Description EDG B Fuel Oil Day Tank B Level Indicator	
Photographs	A STATE OF THE STA
ENGINE CONTROL	

ATTACHMENT 9.6 SEISMIC WALKDOWN CHECKLIST FORM Sheet 1 of 5 Status: Y⊠ N□ U□ Seismic Walkdown Checklist (SWC) SWEL1-646 Equipment ID No. 93LOE-1A _ Equip. Class_21 - Tanks and Heat Exchangers_ Equipment Description EDG A Lube Oil Cooler Location: Bldg. EG Floor El. 272 Room, Area 24 A4 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 $Y \cap N \boxtimes$ of the 50% of SWEL items requiring such verification)? Y⊠ N□ U□ N/A□ 2. Is the anchorage free of bent, broken, missing or loose hardware? The anchorage is 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? The 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 concrete.

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FOR
Sheet 2 of 5	
Seismic Walkdown Checklist (SWC) SWEL1- 646	Status: Y⊠ N□ U□
Equipment ID No. <u>93LOE-1A</u> Equip. Class_21 - Tanks and I	Heat Exchangers
Equipment Description EDG A Lube Oil Cooler	
 Is the anchorage configuration consistent with plant documentation (Note: This question only applies if the item is one of the 50% for w an anchorage configuration verification is required.) 	
6. Based on the above anchorage evaluations, is the anchorage free potentially adverse seismic conditions?	of Y⊠ N□ U□
Interaction Effects	
7. Are soft targets free from impact by nearby equipment or structures (See Photo)	s? Y⊠ N□ U□ N/A□
Are overhead equipment, distribution systems, ceiling tiles and ligh 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 of notentially adverse seismic interaction effects?	free Y⊠ N□ U□

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 3 of 5	
	Status: Y⊠ N⊟ U⊟
Seismic Walkdown Checklist (SWC) <u>SWEL1- 646</u>	* .
Equipment ID No. 93LOE-1A Equip. Class_21 - Tanks and H	leat Exchangers
Equipment Description EDG A Lube Oil Cooler	
Other Adverse Conditions	
11. Have you looked for and found no other seismic conditions that coul adversely affect the safety functions of the equipment?	ld Y⊠ N□ U□
Comments (Additional pages may be added as necessary)	
	· . · . · . · . · . · . · . · . · . · .
Evaluated by: Rick Casella Casella	Date: <u>10/29/12</u>
Al Porch	10/29/12

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 4 of 5

Status: Y⊠ N□ U□

Seismic Walkdown Checklist (SWC) SWEL1- 646

Equipment ID No. 93LOE-1A Equip. Class_21 - Tanks and Heat Exchangers_

Equipment Description EDG A Lube Oil Cooler

Photographs



Note: 93LOE-1A (large rectangular component in center of picture)



Note: 93LOE-1A (long rectangular component at top)

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 5 of 5	
	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) SWEL1- 646	
Equipment ID No. 93LOE-1A Equip. Class_21 - Ta	nks and Heat Exchangers
Equipment Description EDG A Lube Oil Cooler	
Note: 93LOE-1A (it is the rectangular shaped component mounted on angle)	

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ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 1 of 5	
	Status: Y⊠ N⊟ U⊟
Seismic Walkdown Checklist (SWC) <u>SWEL1-647</u>	
Equipment ID No. 93LOE-1B Equip. Class ¹ 21 – Tanks and	Heat Exchangers
Equipment Description EDG B Lube Oil Cooler	· · · · · · · · · · · · · · · · · · ·
Location: Bldg. EG Floor El. 272 Room, Area C: 26, L	.: A3
Manufacturer, Model, Etc. (optional but recommended)	
Instructions for Completing Checklist	
This checklist may be used to document the results of the Seismic Walkdor SWEL. The space below each of the following questions may be used to refindings. Additional space is provided at the end of this checklist for docum	ecord the results of judgments and
Anchorage	
 Is the anchorage configuration verification required (i.e., is the item of the 50% of SWEL items requiring such verification)? 	one Y□ N⊠
2. Is the anchorage free of bent, broken, missing or loose hardware? The anchorage is 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□
The anchorage is free of corrosion.	
4. Is the anchorage free of visible cracks in the concrete near the	Y□ N□ U□ N/A⊠

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

	ISMIC WALKDOWN CHECKLIST FORM
Sheet 2 of 5	
Seismic Walkdown Checklist (SWC)SWEL1-647	Status: Y⊠ N□ U□
Equipment ID No. 93LOE-1B Equip. Class 21 – Tanks and Hea	at Exchangers
Equipment Description EDG B Lube Oil Cooler	
 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⊠ h
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	Y⊠ N□ U□
Interaction Effects	
 Are soft targets free from impact by nearby equipment or structures? Soft targets in this SWEL item are gauges. They are free from any impact by nearby equipment. 	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?	g, Y⊠ N□ U□ N/A□
The north wall of the room, is a masonary block wall but it has been enhanced according to DC# D1-96-011, Rev 0 as part IPEEE evaluations.	
 Do attached lines have adequate flexibility to avoid damage? The attached line have adequate flexibility. 	Y⊠ N□ U□ N/A□
Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	Y⊠ N□ U□
The equinment is free of any adverse seismic interaction	·

ATTACHMENT 9.6 SE	ISMIC WALKDOWN CHECKLIST FORM
Sheet 3 of 5	
	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) SWEL1-647	
Equipment ID No. 93LOE-1B Equip. Class 21 – Tanks and Hea	at Exchangers
Equipment Description EDG B Lube Oil Cooler	
Other Adverse Conditions	
11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment?	Y⊠ N□ U□
Comments (Additional pages may be added as necessary)	
Rynyll.	
Evaluated by: Pouria Pourghobadi	Date: <u>9/21/12</u>
Honald Why	2004440

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 4 of 5

Status: Y⊠ N□ U□

Seismic Walkdown Checklist (SWC) <u>SWEL1-647</u>

Equipment ID No. 93LOE-1B Equip. Class 21 – Tanks and Heat Exchangers

Equipment Description EDG B Lube Oil Cooler

Photographs





Note: 93LOE-1B EDG B Lube Oil Cooler

Note: 93LOE-1B EDG B Lube Oil Cooler

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ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 5 of 5 Seismic Walkdown Checklist (SWC)SWEL1-647	Status: Y⊠ N□ U□
Equipment ID No. 93LOE-1B Equip. Class 21 – Tanks a	and Heat Exchangers
Equipment Description EDG B Lube Oil Cooler	
Note: 93LOE-1B EDG B Lube Oil Cooler Note:	

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 1 of 5	SEISMIC WALKDOWN CHECKLIST FORM
Seismic Walkdown Checklist (SWC)SWEL1- 658	Status: Y⊠ N□ U□
Equipment ID No. 93P1-C1 Equip. Class Horizontal Pump	os
Equipment Description Emergency Diesel Generator C Fuel Oil Transfer	Pump C1
Location: Bldg. <u>EG</u> Floor El. <u>272'</u> Room, Area <u>24</u>	.5, A4
Manufacturer, Model, Etc. (optional but recommended)	
Instructions for Completing Checklist	
This checklist may be used to document the results of the Seismic Walkdo SWEL. The space below each of the following questions may be used to r findings. Additional space is provided at the end of this checklist for document	ecord the results of judgments and
Anchorage	
 Is the anchorage configuration verification required (i.e., is the item of the 50% of SWEL items requiring such verification)? 	one Y⊠ N□
Is the anchorage free of bent, broken, missing or loose hardware? The anchorage contains all necessary 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□
The anchorage has mild oxidation on its surface. There is no struc concern	tural
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Y⊠ N□ U□ N/A□
There are no cracks in the concrete near the anchors	

Y⊠ N□ U□ N/A□

 $Y \boxtimes N \square U \square$

SEISMIC WALKDOWN CHECKLIST FORM **ATTACHMENT 9.6** Sheet 2 of 5 Status: Y⊠ N□ U□ Seismic Walkdown Checklist (SWC) SWEL1-658 Equip. Class Horizontal Pumps Equipment ID No. 93P1-C1 Equipment Description Emergency Diesel Generator C Fuel Oil Transfer Pump C1 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.) (Ref. 1.12-99, associated SEWS document) Y⊠ N□ U□ 6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? **Interaction Effects** 7. Are soft targets free from impact by nearby equipment or structures? Y⊠ N□ U□ N/A□ 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?

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

of potentially adverse seismic interaction effects?

10. Based on the above seismic interaction evaluations, is equipment free

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 3 of 5	
Seismic Walkdown Checklist (SWC)SWEL1- 658	Status: Y⊠ N☐ U☐
Equipment ID No. 93P1-C1 Equip. Class Horizontal Pum	
Equipment Description <u>Emergency Diesel Generator C Fuel Oil Transfer</u>	Pump C1
Other Adverse Conditions	
11. Have you looked for and found no other seismic conditions that co- adversely affect the safety functions of the equipment?	uld Y⊠ N□ U□
Comments (Additional pages may be added as necessary)	
Evaluated by: R. Casella / Rich Casella	Date: 10/26/12
Evaluated by: R. Casella / Rich Casella.	10/26/12

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SEISMIC WALKDOWN CHECKLIST FORM

Sheet 4 of 5

Status: Y⊠ N□ U□

Seismic Walkdown Checklist (SWC) SWEL1-658

Equipment ID No. 93P1-C1 Equip. Class Horizontal Pumps

Equipment Description Emergency Diesel Generator C Fuel Oil Transfer Pump C1

Photographs





Note: 93P1-C1

Note: 93P1-C1

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 5 of 5

Status: Y⊠ N□ U□

Seismic Walkdown Checklist (SWC) SWEL1-658

Equipment ID No. 93P1-C1 Equip. Class Horizontal Pumps

Equipment Description Emergency Diesel Generator C Fuel Oil Transfer Pump C1



Note: 93P1-C1 anchorage



Note: 93P1-C1 general area

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 1 of 4	
	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) <u>SWEL1-660</u>	•
Equipment ID No. 93P1-D1 Equip. Class <u>05-Horizontal F</u>	Pump
Equipment Description EDG D Fuel Oil Transfer Pump D1	
Location: Bldg. <u>EG</u> Floor El. <u>272'</u> Room, Area <u>EG Ro</u>	om D, Col. 26.5, Line A4
Manufacturer, Model, Etc. (optional but recommended)	
Instructions for Completing Checklist	,
This checklist may be used to document the results of the Seismic Walkdo SWEL. The space below each of the following questions may be used to refindings. Additional space is provided at the end of this checklist for document	ecord the results of judgments and
Anchorage	
 Is the anchorage configuration verification required (i.e., is the item of the 50% of SWEL items requiring such verification)? 	one Y⊠ N□
The item is one of the 50% of SWEL items requiring anchorage configuration verification.	
2. Is the anchorage free of bent, broken, missing or loose hardware?	Y⊠ N□ U□ N/A□
The anchorage is free of bent, broken, missing or loose hardware.	
	·
Is the anchorage free of corrosion that is more than mild surface oxidation?	Y⊠ N□ U□ N/A□
Anchorage is free of corrosion that is more than mild surface oxida	tion.
	· · · · · · · · · · · · · · · · · · ·
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Y⊠ N□ U□ N/A□
The anchorage is free of visible cracks in the concrete near the	

anchors.

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

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 2 of 4	
Seismic Walkdown Checklist (SWC) <u>SWEL1-660</u>	Status: Y⊠ N□ U□
Equipment ID No. 93P1-D1 Equip. Class 05-Horizontal Pu	ımp
Equipment Description EDG D Fuel Oil Transfer Pump D1	
5. Is the anchorage configuration consistent with plant documentation (Note: This question only applies if the item is one of the 50% for whan anchorage configuration verification is required.) The configuration of the six (6), 1/2" Phillips studs is consistent with SEWS documentation for equipment 93P1-A1 (same as 93P1-D1),	hich • the
Rev. 0 and drawing 1.12-99, Rev. 4.6. Based on the above anchorage evaluations, is the anchorage free operatially adverse seismic conditions?	
Based on the above anchorage evaluations, the anchorage is free of potentially adverse seismic conditions.	of
Interaction Effects	
7. Are soft targets free from impact by nearby equipment or structures There are no soft targets on the equipment.	s? Y□ N□ U□ N/A⊠
8. Are overhead equipment, distribution systems, ceiling tiles and light and masonry block walls not likely to collapse onto the equipment? The overhead equipment, distribution systems, ceiling tiles and light and masonry block walls are not likely to collapse onto the equipment.	nting,
 Do attached lines have adequate flexibility to avoid damage? The lines attached to the SWEL item have adequate flexibility to av damage. 	Y⊠ N□ U□ N/A□ void
10. Based on the above seismic interaction evaluations, is equipment f of potentially adverse seismic interaction effects?	ree Y⊠ N□ U□
Based on the above seismic interaction evaluations, the equipment free of potentially adverse seismic interaction effects.	t is

ATTACHMENT 9.6 SEISMIC WALKDOWN CHE		
Sheet 3 of 4		
Seismic Walkdown Checklist (SWC) <u>SWEL1-660</u>	Status: Y⊠ N☐ U☐ ∖	
Equipment ID No. 93P1-D1 Equip. Class 05-Horizontal F	Pump	
Equipment Description EDG D Fuel Oil Transfer Pump D1		
Other Adverse Conditions 11. Have you looked for and found no other seismic conditions that co	ould Y⊠ N□ U□	
adversely affect the safety functions of the equipment? No other seismic conditions that could adversely affect the safety functions of the equipment in the area were found.		
Comments (Additional pages may be added as necessary)	<u> </u>	
No additional comments.		
Evaluated by: Harpreet Ghuman	Date: 09/21/2012	
Yaroslav Losev	<u>09/21/2012</u>	

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 4 of 4	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) <u>SWEL1-660</u>	
Equipment ID No. 93P1-D1 Equip. Class 05-Horizontal Pu	тр
Equipment Description EDG D Fuel Oil Transfer Pump D1	
Photographs	
Note: Picture of equipment 93P1-D1. Note:	

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 1 of 5	
· · · · · · · · · · · · · · · · · · ·	Status: Y⊠ N☐ U☐
Seismic Walkdown Checklist (SWC) <u>SWEL1- 662</u>	
Equipment ID No. 93P-2A Equip. Class 06 - Vertical Pun	mps
Equipment Description EDG A Circulating Lube Oil Pump	
Location: Bldg. EG Floor El. 272 Room, Area 24 A4	,
Manufacturer, Model, Etc. (optional but recommended)	·
Instructions for Completing Checklist	
This checklist may be used to document the results of the Seismic Walkdo SWEL. The space below each of the following questions may be used to r findings. Additional space is provided at the end of this checklist for document	ecord the results of judgments and
Anchorage	
 Is the anchorage configuration verification required (i.e., is the item of the 50% of SWEL items requiring such verification)? 	n one Y□ N⊠
 Is the anchorage free of bent, broken, missing or loose hardware? 93P-2A (SWEL 1-662) is not anchored. It is connected to its motowhich is bolted, but the pump is in-line with no anchorage of its ow 	r ,
Is the anchorage free of corrosion that is more than mild surface oxidation?	Y□ N□ U□ N/A⊠
93P-2A (SWEL 1-662) is not anchored. It is connected to its moto which is bolted, but the pump is in-line with no anchorage of its ow	
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Y□ N□ U□ N/A⊠
No concrete	

ATTACHMENT 9.6 SEIS	MIC WALKDOWN CHECKLIST FOR
Sheet 2 of 5	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) SWEL1- 662	Status. FA NO O
Equipment ID No. 93P-2A Equip. Class_06 - Vertical Pumps_	
Equipment Description EDG A Circulating Lube Oil 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⊠
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	Y⊠ N□ U□
93P-2A (SWEL 1-662) is not anchored. It is connected to its motor which is bolted, but the pump is in-line with no anchorage of its own.	
Interaction Effects	
7. Are soft targets free from impact by nearby equipment or structures? Flex conduit off motor.	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	Y⊠ N□ U□

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST			LIST FORM
Sheet 3 of 5		100		
	OU/51 4 .000	Status	s: Y⊠ N[U
Seismic Walkdown Checklist (SWC) _	SWEL1- 662			• •
Equipment ID No. 93P-2A E	Equip. Class_ <i>06 - Vertical Pu</i>	mps	<u> </u>	<u> </u>
Equipment Description <u>EDG A Circulating L</u>	ube Oil Pump			
Other Adverse Conditions	·		•	
Have you looked for and found no oth adversely affect the safety functions of the safety functions. Output Description of the safety functions		ould Y⊠ N⊟	U 🗌	
· · · · · · · · · · · · · · · · · · ·				
<u>Comments</u> (Additional pages may be added	l as necessary)			
See Photos	•			
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				•
				
Evaluated by: Rick Casella	Casella.	Date: <u>1</u>	0/29/12	·
Al Porch	~d_		0/29/12	

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 4 of 5

Status: Y⊠ N□ U□

Seismic Walkdown Checklist (SWC) SWEL1-662

Equipment ID No. 93P-2A Equip. Class_06 - Vertical Pumps___

Equipment Description EDG A Circulating Lube Oil Pump

Photographs





Note: 93P-2A

Note: 93P-2A

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 5 of 5	
	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) SWEL1- 662	
Equipment ID No. 93P-2A Equip. Class_06 - Vertical	Pumps
Equipment Description EDG A Circulating Lube Oil Pump	
THE RESERVE OF THE PARTY OF THE	
THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER, THE OW	
(°Y)	

93P-2A	
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Neder 02D 04	
Note: 93P-2A Note:	=
	<u>.</u> 1

ATTACHMENT 9.6 SEISM	IIC WALKDOWN CHECKLIST FORM
Sheet 1 of 4	
	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) <u>SWEL1-663</u>	
Equipment ID No. 93P-2B Equip. Class¹ 5 – Horizontal Pump	
Equipment Description <u>Emergency Diesel Generator B Circulating Lube Oil Pur</u>	mp
Location: Bldg. EG Floor El. 272 Room, Area C: 26, L: A3	
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? The anchorage is 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□
The anchorage is free of corrosion.	
Is the anchorage free of visible cracks in the concrete near the anchors? No concrete	Y□ N□ U□ N/A⊠

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

ATTACHMENT 9.6 SEISM	IC WALKDOWN CHECKLIST FORM
Sheet 2 of 4	
	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) <u>SWEL1-663</u>	
Equipment ID No. 93P-2B Equip. Class 5 – Horizontal Pump	
Equipment Description Emergency Diesel Generator B Circulating Lube Oil Pun	пр
 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	
 Are soft targets free from impact by nearby equipment or structures? The soft targets are free from impact by nearby equipment and structures. 	Y⊠ N□ U□ N/A□
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? The overhead equipment and distribution systems are not likely to collapse onto the equipment.	Y⊠ N□ U□ N/A□
 Do attached lines have adequate flexibility to avoid damage? The attached lines have adequate flexibility. 	Y⊠ N□ U□ N/A□
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? The equipment is free of potentially adverse seismic interaction effects.	Y⊠ N□ U□

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 3 of 4	
	Status: Y⊠ N⊡ U⊡/
Seismic Walkdown Checklist (SWC) <u> </u>	
Equipment ID No. 93P-2B Eq	quip. Class_5 – Horizontal Pump
Equipment Description Emergency Diesel Ge	enerator B Circulatina Lube Oil Pump
Other Adverse Conditions	
 Have you looked for and found no othe adversely affect the safety functions of 	
<u>Comments</u> (Additional pages may be added a	as necessary)
Evaluated by: <u>Donald Koberg</u> Sando	Why Date: 9/21/12
Pouria Pourghobadi	9/21/12

ATTACHMENT 9.6 SEISMIC	WALKDO	WN CHECKLIS	T FORM
Sheet 4 of 4			
	Status:	$Y \boxtimes N \square$	U
Seismic Walkdown Checklist (SWC) <u>SWEL1-663</u>			
Equipment ID No. 93P-2B Equip. Class 5 – Horizontal Pump			
Equipment Description Emergency Diesel Generator B Circulating Lube Oil Pump			
Photographs			
Note: 93P-2B Pump Note:		шестанда нап 400 пачалед	

 $Y \square \ \ N \square \ \ U \square \ \ N/A \boxtimes$

ATTACHMENT 9.6	EISMIC WALKDOWN CHECKLIST FOR
Sheet 1 of 5	
	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) SWEL1- 670	
Equipment ID No. 93P-4A Equip. Class 05 - Horizontal Pu	mps
Equipment Description EDG A Fuel Oil Pump	
Location: Bldg. EG Floor El. 272 Room, Area 24, A4	
Manufacturer, Model, Etc. (optional but recommended)	
Instructions for Completing Checklist	
This checklist may be used to document the results of the Seismic Walkdow SWEL. The space below each of the following questions may be used to rec findings. Additional space is provided at the end of this checklist for docume	ord the results of judgments and
Anchorage	•
 Is the anchorage configuration verification required (i.e., is the item o of the 50% of SWEL items requiring such verification)? 	ne Y□ N⊠
Dwg not available under 93P-3A (Not used for anchorage)	
Is the anchorage free of bent, broken, missing or loose hardware? Anchorage was free of bent, broken, missing and 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□
No corrosion was evident	
	*

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

There is no concrete

ATTACHMENT 9.6 SEI	ISMIC WALKDOWN CHECKLIST FORI
Sheet 2 of 5	
	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) <u>SWEL1- 670</u>	
Equipment ID No. 93P-4A Equip. Class 05 - Horizontal Pum	ps
Equipment Description EDG A Fuel Oil 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⊠ 1
	V
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Anchorage is free of potentially adverse seismic conditions.	Y⊠ N□ U□
Anchorage is free or potentially adverse seismic conditions.	
Interaction Effects	
7. Are soft targets free from impact by nearby equipment or structures?	Y⊠ N□ U□ N/A□
Protected by superstructure above pump.	
8. Are overhead equipment, distribution systems, ceiling tiles and lighting and masonry block walls not likely to collapse onto the equipment?	i, Y⊠ N□ U□ N/A□
(See #7 above)	
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□

SEISMIC WALKDOWN CHECKLIST FORM **ATTACHMENT 9.6** Sheet 3 of 5 Status: Y⊠ N□ U□ Seismic Walkdown Checklist (SWC) SWEL1- 670 Equipment ID No. 93P-4A Equip. Class <u>05 - Horizontal Pumps</u> Equipment Description EDG A Fuel Oil Pump **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) (Photos) Evaluated by: Rick Casella

L Q, Danch Date: 10/29/12 10/29/12

ATTACHMENT 9.6	Seisn	MIC WALKDOWN CHECKLIST FOR
Sheet 4 of 5		
		Status: Y⊠ N□ U□
Seismic Walkdown Checklist (S)	WC)SWEL1- 670	
Equipment ID No. 93P-4A	Equip. Class <u>05 - Horizontal Pumps</u>	3
Equipment Description EDG A Fuel C	Dil Pump	

Photographs





Note: 93P-4A

Note: 93P-4A

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FO	RM
Sheet 5 of 5		
Calauria Walladauur Chaaldiat (CMC) CMCI 4 C70	Status: Y⊠ N□ U□]
Seismic Walkdown Checklist (SWC) SWEL1- 670		
Equipment ID No. 93P-4A Equip. Class 05 - Horizontal	Pumps	
Equipment Description EDG A Fuel Oil Pump		_
93P-4A		
Note: 93P-4A (could not get any closer picture of anchorage)		

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 1 of 4	
	Status: Y⊠ N⊟ U⊟
Seismic Walkdown Checklist (SWC) <u>SWEL1-671</u>	
Equipment ID No. 93P-4B Equip. Class 5 – Horizontal Po	umps
Equipment Description <u>EDG B Fuel Oil Pump</u>	
Location: Bldg. EG Floor El. 272 Room, Area C: 26.5	i, L: A4
Manufacturer, Model, Etc. (optional but recommended)	
Instructions for Completing Checklist	
This checklist may be used to document the results of the Seismic Walkdor SWEL. The space below each of the following questions may be used to refindings. Additional space is provided at the end of this checklist for documents.	ecord the results of judgments and
Anchorage	
 Is the anchorage configuration verification required (i.e., is the item of the 50% of SWEL items requiring such verification)? 	one Y□ N⊠
2. Is the anchorage free of bent, broken, missing or loose hardware?	Y⊠ N□ U□ N/A□
The anchorage is free of bent, broken, missing or loose hardware.	•
Is the anchorage free of corrosion that is more than mild surface oxidation?	Y⊠ N□ U□ N/A□
The anchorage is free of corrosion.	$\mathbf{v} = \mathbf{v} \cdot \mathbf{v} \cdot \mathbf{v} \cdot \mathbf{v}$
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Y□ N□ U□ N/A⊠
No concrete. The equipment is mounted on the generator skid.	

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

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 2 of 4	
Seismic Walkdown Checklist (SWC) SWEL1-671	Status: Y⊠ N□ U□
Equipment ID No. 93P-4B Equip. Class_2 5 - Horizontal F	Pumps
Equipment Description EDG B Fuel Oil Pump	
5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for what an anchorage configuration verification is required.)	
6. Based on the above anchorage evaluations, is the anchorage free o potentially adverse seismic conditions?	f 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 lighti and masonry block walls not likely to collapse onto the equipment?	ing, 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 fr of potentially adverse seismic interaction effects?	ee Y⊠ N□ U□

² Enter the equipment class <u>name</u> from Appendix B: Classes of Equipment.

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 3 of 4	, .
	Status: Y⊠ N⊡ U⊡
Seismic Walkdown Checklist (SWC) <u>SWEL1-671</u>	
Equipment ID No. 93P-4B Equip. Class_3 5 - Horizontal	Pumps
Equipment Description EDG B Fuel Oil Pump	
Other Adverse Conditions	
11. Have you looked for and found no other seismic conditions that co- adversely affect the safety functions of the equipment?	uld Y⊠ N□ U□
Comments (Additional pages may be added as necessary)	
Pump missing equipment tag. The issue was brought to site perso	nnel attention immediately.
Evaluated by: Pouria Pourghobadi	Date: <u>9/21/12</u>
Evaluated by: Pouria Pourghobadi Donald Koberg Donald Koberg	<u>9/21/12</u>

³ Enter the equipment class <u>name</u> from Appendix B: Classes of Equipment.

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 4 of 4 Seismic Walkdown Checklist (SWC)SWEL1-671	Status: Y⊠ N□ U□
Equipment ID No. 93P-4B Equip. Class_4 5 – Horizontal	Pumps
Equipment Description EDG B Fuel Oil Pump	
Photographs	
Note: EDG B Fuel Oil Pump Note:	
	± ±

⁴ Enter the equipment class <u>name</u> from Appendix B: Classes of Equipment.

SEISMIC WALKDOWN CHECKLIST FORM ATTACHMENT 9.6 Sheet 1 of 5 Status: Y⊠ N□ U□ Seismic Walkdown Checklist (SWC) _ SWEL1- 674 Equipment ID No. 93TK-1A _____ Equip. Class_21 - Tanks and Heat Exchangers__ Equipment Description EDG A Jacket Water Expansion Tank Location: Bldg. EG Floor El. 272 Room, Area 24, A4 Manufacturer, Model, Etc. (optional but recommended) Instructions for Completing Checklist This checklist may be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments. Anchorage 1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y⊠ N□ U□ N/A□ 2. Is the anchorage free of bent, broken, missing or loose hardware? The anchorage is 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 evident. 4. Is the anchorage free of visible cracks in the concrete near the Y□ N□ .U□ N/A⊠ anchors?

There is no concrete.

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORI
Sheet 2 of 5	,
Seismic Walkdown Checklist (SWC) <u>SWEL1- 674</u>	Status: Y⊠ N□ U□
Equipment ID No. 93TK-1A Equip. Class_21 - Tanks and I	Heat Exchangers
Equipment Description	
 Is the anchorage configuration consistent with plant documentation (Note: This question only applies if the item is one of the 50% for w an anchorage configuration verification is required.) 	
Based on the above anchorage evaluations, is the anchorage free potentially adverse seismic conditions?	of Y⊠ N□ U□
N/A	
Interaction Effects	4
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 ligh 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 of potentially adverse seismic interaction effects?	free Y⊠ N□ U□

ATTACHMENT 9.6		SEISMIC WALKDOWN CHECKLIST FORM
Sheet 3 of 5		
Seismic Walkdown Checklist (SWC))SWEL1- 674	Status: Y⊠ N□ U□
Equipment ID No. 93TK-1A	Equip. Class_21 - Tanks	and Heat Exchangers
Equipment Description		
Other Adverse Conditions		
Have you looked for and found no adversely affect the safety function		at could Y⊠ N□ U□
		,
Comments (Additional pages may be add	ded as necessary)	
Tank well supported; no interaction	n effects noted. Mounted or	n diesel skid / frame.
	St. 1	
	·	
Evaluated by: <u>Rick Casella</u>	Casella.	Date: <u>10/29/12</u>
LC, C) and _	
Al Porch	•	10/29/12

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SEISMIC WALKDOWN CHECKLIST FORM

Sheet 4 of 5

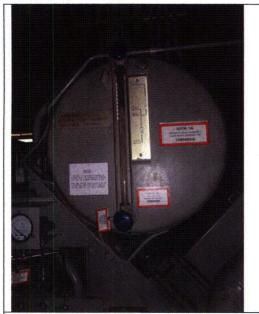
Status: Y⊠ N□ U□

Seismic Walkdown Checklist (SWC) SWEL1-674

Equipment ID No. 93TK-1A Equip. Class_21 - Tanks and Heat Exchangers___

Equipment Description

Photographs



Note: 93TK-1A



Note: 93TK-1A shown on EDG A unit

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FOR
Sheet 5 of 5 Seismic Walkdown Checklist (SWC) SWEL1- 674	Status: Y⊠ N□ U□
Equipment ID No. 93TK-1A Equip. Class_21 - 7	anks and Heat Exchangers
Equipment Description	
Note: 93TK-1A underside Note	-

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 1 of 4	
	Status: Y⊠ N⊟ U⊟
Seismic Walkdown Checklist (SWC) <u>SWEL1-675</u>	
Equipment ID No. 93TK-1B Equip. Class ¹ 21 – Tanks and	Heat Exchangers
Equipment Description Emergency Diesel Generator B Jacket Water Expa	nsion Tank
Location: Bldg. <u>EG</u> Floor El. <u>272</u> Room, Area <u>Col. 26</u> ,	Line A4
Manufacturer, Model, Etc. (optional but recommended)	· .
Instructions for Completing Checklist	
This checklist may be used to document the results of the Seismic Walkdow SWEL. The space below each of the following questions may be used to refindings. Additional space is provided at the end of this checklist for document	cord the results of judgments and
Anchorage	
1. Is the anchorage configuration verification required (i.e., is the item of the 50% of SWEL items requiring such verification)?	one Y□ N⊠
2. Is the anchorage free of bent, broken, missing or loose hardware? The anchorage is 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□
The anchorage is free of corrosion that is more than mild surface oxidation.	
4. 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.

ATTACHMENT 9.6 SE	ISMIC WALKDOWN CHECKLIST FOR
Sheet 2 of 4	
Seismic Walkdown Checklist (SWC) <u>SWEL1-675</u>	Status: Y⊠ N⊟ U⊟
Equipment ID No. 93TK-1B Equip. Class 2 21 – Tanks and F	leat Exchangers
Equipment Description Emergency Diesel Generator B Jacket Water Expans	sion 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⊠ h
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?	g, 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?	e Y⊠ N□ U□

² Enter the equipment class <u>name</u> from Appendix B: Classes of Equipment.

ATTACHMENT 9.6		SEIS	MIC WALKDOWN CH	ECKLIST FORM
Sheet 3 of 4				
		•	Status: Y⊠	N U
Seismic Walkdown Che	ecklist (SWC) <u>SWEL1-675</u>			
Equipment ID No. 93TK-1	<u>1B</u> Equip. Class_3_2	1 – Tanks and He	eat Exchangers	
Equipment Description En	nergency Diesel Generator B Jack	et Water Expansion	on Tank	
Other Adverse Conditions				
Other Adverse Conditions	_		·	
	r and found no other seismic condit safety functions of the equipment?		Y⊠ N□ U□	
	1			
	•			
<u>Comments</u> (Additional pag	ges may be added as necessary)			
•				*
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	o M			
Evaluated by: Pouria Pour	ghobadi		Date: 9/21/12	
= andica by, r barray barr	ara Donald Why	-	54.0. <u>0/2.//12</u>	·
	Honald Why		,	
Donald Koha	ara to		0/21/12	

 $^{^{3}}$ Enter the equipment class $\stackrel{\cdot}{\text{name}}$ from Appendix B: Classes of Equipment.

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and the last last last			_			

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 4 of 4

Status: Y⊠ N□ U□

Seismic Walkdown Checklist (SWC) <u>SWEL1-675</u>

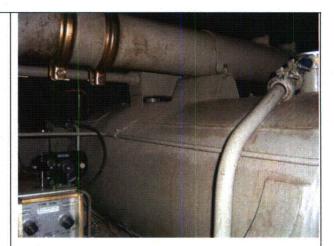
Equipment ID No. 93TK-1B Equip. Class_4 21 – Tanks and Heat Exchangers

Equipment Description Emergency Diesel Generator B Jacket Water Expansion Tank

Photographs



Note: 93TK-1B Front view



Note: 93TK-1B Side view

⁴ Enter the equipment class <u>name</u> from Appendix B: Classes of Equipment.

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FOR
Sheet 1 of 5	THE THE TENT OF TH
Seismic Walkdown Checklist (SWC)SWEL1- 682	Status: Y⊠ N□ U□
Equipment ID No. 93TK-7A Equip. Class 21 - Tanks and	Heat Exchangers
Equipment Description EDG A Fuel Oil Day Tank	
Location: Bldg. <u>EG</u> Floor El. <u>272</u> Room, Area <u>24,A4</u>	
Manufacturer, Model, Etc. (optional but recommended)	
Instructions for Completing Checklist	
This checklist may be used to document the results of the Seismic Walkdo SWEL. The space below each of the following questions may be used to refindings. Additional space is provided at the end of this checklist for document	ecord the results of judgments and
Anchorage	
 Is the anchorage configuration verification required (i.e., is the item of the 50% of SWEL items requiring such verification)? 	one Y⊠ N□
2. Is the anchorage free of bent, broken, missing or loose hardware? Anchorage contains all necessary hardware	Y⊠ N□ U□ N/A□
Is the anchorage free of corrosion that is more than mild surface oxidation?	Y⊠ N□ U□ N/A□
Anchorage contains no corrosion	
4. Is the anchorage free of visible cracks in the concrete near the anchors? Hairline cracks (@ x) at anchors primarily at top of concrete pede (refer to 93TK-7B and CR-JAF-2012-06090)	Y□ N⊠ U□ N/A□ stal
	>

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 2 of 5	
Seismic Walkdown Checklist (SWC) <u>SWEL1- 682</u>	Status: Y⊠ N□ U□
Equipment ID No. 93TK-7A Equip. Class 21 - Tanks and H	leat Exchangers
Equipment Description EDG A Fuel Oil Day Tank	
 Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for whan anchorage configuration verification is required.) (Ref. 1.12-128, associated SEWS document) 	
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	f 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 light and masonry block walls not likely to collapse onto the equipment?	ing, 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 from potentially adverse seismic interaction effects?	ree Y⊠ N□ U□

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 3 of 5	
Seismic Walkdown Checklist (SW	Status: Y⊠ N□ U□ SWEL1- 682
Equipment ID No. 93TK-7A	Equip. Class 21 - Tanks and Heat Exchangers
Equipment Description EDG A Fuel Oil	l Day Tank
Other Adverse Conditions	
Have you looked for and found n adversely affect the safety function	no other seismic conditions that could Y⊠ N⊡ U⊡ ions of the equipment?
Comments (Additional pages may be a	idded as necessary)
None	
-	
Evaluated by: <u>Rick Casella</u>	Date: 10/29/12
Al Porch	Davel

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 4 of 5

Status: Y⊠ N□ U□

Seismic Walkdown Checklist (SWC) SWEL1- 682

Equipment ID No. 93TK-7A Equip. Class 21 - Tanks and Heat Exchangers

Equipment Description EDG A Fuel Oil Day Tank

Photographs





Note: 93TK-7A

Note: 93TK-7A

Status: Y N U Seismic Walkdown Checklist (SWC) SWEL1-682 Equipment ID No. 93TK-7A Equipment Description EDG A Fuel Oil Day Tank Note: 93TK-7A anchor bolt (note hairline crack in concrete right of bolt centerline)	ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Seismic Walkdown Checklist (SWC) SWEL1- 682 Equipment ID No. 93TK-7A Equip. Class 21 - Tanks and Heat Exchangers Equipment Description EDG A Fuel Oil Day Tank Note: 93TK-7A anchor bolt (note hairline Note:	Sheet 5 of 5	
Seismic Walkdown Checklist (SWC) SWEL1- 682 Equipment ID No. 93TK-7A Equip. Class 21 - Tanks and Heat Exchangers Equipment Description EDG A Fuel Oil Day Tank Note: 93TK-7A anchor bolt (note hairline Note:		Status: Y⊠ N□ U□
Requipment Description EDG A Fuel Oil Day Tank Note: 93TK-7A anchor bolt (note hairline Note:	Seismic Walkdown Checklist (SWC) SWEL1- 682	
Note: 93TK-7A anchor bolt (note hairline Note:	Equipment ID No. 93TK-7A Equip. Class 21 - Tanks	and Heat Exchangers
	Equipment Description EDG A Fuel Oil Day Tank	
		###***********************************

ATTACH	IMENT 9.6	ISMIC WALKDOWN CHECKLIST FOR
Sheet '	1 of 4	
		Status: Y⊠ N⊡ U⊡
Seism	nic Walkdown Checklist (SWC) <u>SWEL1-683</u>	
Equipm	neńt ID No. <u>93TK-7B</u> Equip. Class¹ <u>21-Tanks & Heat B</u>	Exchangers
Equipm	nent Description Emergency Diesel Generator B Fuel Oil Day Tank	
Locatio	on: Bldg. <u>EG</u> Floor El. <u>272</u> Room, Area <u>EDG B Ro</u>	oom, Column 26.5 Line A4
	acturer, Model, Etc. (optional but recommended) <u>T312 Trinity Equip</u>	
Instruc	ctions for Completing Checklist	
SWEL.	necklist may be used to document the results of the Seismic Walkdown. The space below each of the following questions may be used to reco s. Additional space is provided at the end of this checklist for documen	ord the results of judgments and
Ancho	orage	
1.	Is the anchorage configuration verification required (i.e., is the item on of the 50% of SWEL items requiring such verification)?	ne Y⊠ N□
	The anchorage configuration was verified and found to be acceptable. This item is part of the 50% of SWEL items.	
2.	Is the anchorage free of bent, broken, missing or loose hardware?	Y⊠ N□ U□ N/A□
	The anchorage is free of bent, broken, missing or loose hardware.	
3.	Is the anchorage free of corrosion that is more than mild surface oxidation?	Y⊠ N□ U□ N/A□
	The anchorage is free of corrosion that is more than mild surface oxidation.	
4.	Is the anchorage free of visible cracks in the concrete near the anchors?	Y N U NA
	Multiple visible hairline cracks on the foundation, from bottom of floor elevation through the center line of 7/8" bolts/anchors on both saddles On the North saddle West end there is noticeable damage to the concrete foundation due to interaction of the concrete wall and the Fu Day Tank Drain Line. The resolution to this deficiency is tracked by C.	rel

JAF-2012-06090.

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

ATTACHMENT 9.6 SEIS	MIC WALKDOWN CHECKLIST FORM
Sheet 2 of 4	
Seismic Walkdown Checklist (SWC) <u>SWEL1-683</u>	Status: Y⊠ N□ U□
Equipment ID No. 93TK-7B Equip. Class 21-Tanks & Heat Exc	changers
Equipment Description Emergency Diesel Generator B Fuel Oil Day Tank	
5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) The anchorage configuration is consistent with DWG. No. 1.12-128 and SEWS for 93TK-7A, which has the same configuration as 93TK-7B.	Y⊠ N□ U□ N/A□
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	Y□ N⊠ U□
Cracks in concrete pedestal at the anchorage and damage by the fuel day tank drain line jeopardizes the safety of the tank's support. The resolution to this deficiency is tracked by CR-JAF-2012-06090.	
Interaction Effects	
7. Are soft targets free from impact by nearby equipment or structures? The equipment is free of soft targets.	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□

Seismic Walkdown Checklist (SWC) SWEL1-683 Equipment ID No. 93TK-7B Equip. Class 21-Tanks & Heat E Equipment Description Emergency Diesel Generator B Fuel Oil Day Tank Other Adverse Conditions 11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment?	
Equipment ID No. 93TK-7B Equip. Class 21-Tanks & Heat Equipment Description Emergency Diesel Generator B Fuel Oil Day Tank Other Adverse Conditions 11. Have you looked for and found no other seismic conditions that could	
Equipment Description Emergency Diesel Generator B Fuel Oil Day Tank Other Adverse Conditions 11. Have you looked for and found no other seismic conditions that could	
Other Adverse Conditions 11. Have you looked for and found no other seismic conditions that could	y⊠ N□ U□
Have you looked for and found no other seismic conditions that could	J Y⊠ N□ U□
	Y⊠ N□ U□
ullet	
	·
Comments (Additional pages may be added as necessary)	
Evaluated by: Pouria Pourghobadi	Data: 01/21/2012
Evaluated by Found Fourgriobaur	Date: 01/21/2012
Honeld Voly	

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 4 of 4

Status: Y⊠ N□ U□

Seismic Walkdown Checklist (SWC) SWEL1-683

Equipment ID No. 93TK-7B Equip. Class 21-Tanks & Heat Exchangers

Equipment Description Emergency Diesel Generator B Fuel Oil Day Tank

Photographs



Note: Diesel Fuel Day Tan 93TK-7B



Note: Damage to north concrete pedestal by the Diesel Fuel Day Tank Drain Line (Valve 93EDG-711B)

ATTACHMENT 9.6 SEIS	MIC WALKDOWN CHECKLIST FORM
Sheet 1 of 5	•
	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) <u>SWEL1- 686</u>	<u> </u>
Equipment ID No. 93WE-1C Equip. Class 21 - Tanks and Heat	Exchangers
Equipment Description Emergency Diesel Generator C Jacket Water Heat Exc	changer
Location: Bldg. <u>EG</u> Floor El. <u>272</u> Room, Area <u>Col. 25</u>	5 line A4,AZ
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 space of t	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□
Is the anchorage free of bent, broken, missing or loose hardware? The anchorage has all necessary hardware	Y⊠ N□ U□ N/A□
Is the anchorage free of corrosion that is more than mild surface oxidation?	Y⊠ N□ U□ N/A□
The anchorage shows no signs of any type of corrosion	
Is the anchorage free of visible cracks in the concrete near the anchors?	Y□ N□ U□ N/A⊠.
There are no cracks in the concrete near the anchors	

ATTACHMENT 9.6 SEI	SMIC WALKDOWN CHECKLIST FORM
Sheet 2 of 5	
	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) <u>SWEL1- 686</u>	
Equipment ID No. 93WE-1C Equip. Class 21 - Tanks and Heat	t Exchangers
Equipment Description Emergency Diesel Generator C Jacket Water Heat Ex	rchanger
 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.) (Ref. 1.12-35, 1.12-101, associated SEWS document) 	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? 46EXJ-9C, 10C are epoxy soft targets. No credible seismic interactions	
	•
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□

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			SMIC WALKDOWN CHECKLIST FORM	
Sheet 3 of 5	1			
			Status:	Y⊠ N□ U□
Seismic Walkdown Check	. •			
Equipment ID No. 93WE-1C	Equip. Class 21 - Tanks	and Heat	Exchangers	
Equipment Description Emerc	gency Diesel Generator C Jacket Water	Heat Exc	changer	
Other Adverse Conditions				
	d found no other seismic conditions that ety functions of the equipment?	t could	Y⊠ N□ U	J□
•				
Comments (Additional pages	may be added as necessary)			
		•	•	
•				
			•	
			•	
	·			
:	C. Dande			,
Evaluated by: <u>R. Casella / _ ^</u>	ick Casella		Date: <u>10/2</u>	6/12
	A N 1			
A.G. Porch /	(1) france		10/2	6/12

Page 513 of 573

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 4 of 5

Status: Y⊠ N□ U□

Seismic Walkdown Checklist (SWC) <u>SWEL1-686</u>

Equipment ID No. 93WE-1C Equip. Class 21 - Tanks and Heat Exchangers

Equipment Description Emergency Diesel Generator C Jacket Water Heat Exchanger

Photographs



Note: 93WE-1C (looking East)



Note: 93WE-1C

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 5 of 5

Status: Y⊠ N□ U□

Seismic Walkdown Checklist (SWC) SWEL1-686

Equipment ID No. 93WE-1C Equip. Class 21 - Tanks and Heat Exchangers

Equipment Description Emergency Diesel Generator C Jacket Water Heat Exchanger







Note: 93WE-1C Anchorage - Sliding Foot

ATTACHMENT 9.6 SE	ISMIC WALKDOWN CHECKLIST FOR
Sheet 1 of 4	
Seismic Walkdown Checklist (SWC)SWEL1-687	Status: Y⊠ N□ U□
Equipment ID No. 93WE-ID Equip. Class 21 – Heat Exchange	gers
Equipment Description Emergency Diesel Generator D Jacket Water Heat E	xchanger
Location: Bldg. <u>EG</u> Floor El. <u>272</u> Room, Area <u>EG Room</u>	D C: 27, L: A4
Manufacturer, Model, Etc. (optional but recommended)	
Instructions for Completing Checklist	
This checklist may be used to document the results of the Seismic Walkdown SWEL. The space below each of the following questions may be used to recofindings. Additional space is provided at the end of this checklist for documen	rd the results of judgments and
Anchorage	
 Is the anchorage configuration verification required (i.e., is the item on of the 50% of SWEL items requiring such verification)? 	e Y□ N⊠
2. Is the anchorage free of bent, broken, missing or loose hardware? The four (4) bolts are 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□
The anchorage is free of any corrosion.	•
4. 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.

SEISMIC WALKDOWN CHECKLIST FORM **ATTACHMENT 9.6** Sheet 2 of 4 Status: Y⊠ N□ U□ Seismic Walkdown Checklist (SWC) <u>SWEL1-687</u> Equip. Class 21 - Heat Exchangers Equipment ID No. 93WE-ID Equipment Description Emergency Diesel Generator D Jacket Water Heat Exchanger Y□ N□ U□ N/A⊠ 5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) Item is not one of the 50% for which an anchorage configuration verification is required. $Y \boxtimes N \square U \square$ 6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Based on the above anchorage evaluations, the anchorage is free of potentially adverse seismic conditions. **Interaction Effects** 7. Are soft targets free from impact by nearby equipment or structures? Y□ N□ U□ N/A⊠ This component does not have soft targets. 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? Masonry block wall divides the Delta and Bravo train in EDG. Modifications were made to enhance the walls as part of IE Bulletin 80-11. (Ref. Calculation No. JAF-CALC-EDG-02153 Rev 0) and IPEEE evaluations D1-96-011 Rev 0. Y⊠ N□ U□ N/A□ 9. Do attached lines have adequate flexibility to avoid damage? The attached lines have adequate flexibility. 10. Based on the above seismic interaction evaluations, is equipment free $Y \boxtimes N \square U \square$

of potentially adverse seismic interaction effects?

The equipment is free of potentially adverse seismic interaction effects.

ATTACHMENT 9.6		SEISMIC WALKDOWN CHECKLIST FORM
Sheet 3 of 4		
_ · · · · · · · · · · · · · · · · · · ·		Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SV	VC) <u>SWEL1-687</u>	
Equipment ID No. 93WE-ID	Equip. Class_21 – Heat Ex	changers
Equipment Description <u>Emergency D</u>	iesel Generator D Jacket Water F	leat Exchanger
Other Adverse Conditions	••	
Have you looked for and found adversely affect the safety fund		could Y⊠ N□ U□
,		
Comments (Additional pages may be	added as necessary)	
	adda do Nobossa.y/	
	•	
	s si	
Evaluated by: Pouria Pourghobadi	chilo	Date: 09/21/2012
^/	10 244 -	
Donald Koberg	le long	09/21/2012

ATTACHMENT O.C.	Service Way (Consult Consult on Form
ATTACHMENT 9.6 Sheet 4 of 4	SEISMIC WALKDOWN CHECKLIST FORM
Seismic Walkdown Checklist (SWC) <u>SWEL1-687</u>	Status: Y⊠ N□ U□
Equipment ID No. 93WE-ID Equip. Class 21 – Heat Exch	nangers
Equipment Description Emergency Diesel Generator D Jacket Water He	at Exchanger
Photographs Note: 93WE-ID	
Note: 93WE-ID Note:	

ATTACHMENT 9.6 SEISMIC WALKDOWN CHE		
Sheet 1 of 4		
Seismic Walkdown Checklist (SWC) SWEL1-690	Status: Y⊠ N□ U□	
Equipment ID No. IR-25-01 Equip. Class 18 - Instrument	Racks	
Equipment Description Core Spray System Channel A Rack	·	
Location: Bldg. RB Floor El. 242.8 Room, Area Col. 4,	Line A	
Manufacturer, Model, Etc. (optional but recommended)		
Instructions for Completing Checklist		
This checklist may be used to document the results of the Seismic Walkdo SWEL. The space below each of the following questions may be used to refindings. Additional space is provided at the end of this checklist for documents.	ecord the results of judgments and	
Anchorage		
 Is the anchorage configuration verification required (i.e., is the item of the 50% of SWEL items requiring such verification)? 	one Y⊠ N□	
2. Is the anchorage free of bent, broken, missing or loose hardware? Anchorage is 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□	
Anchorage is free of corrosion that is more than mild surface oxida	tion.	
Is the anchorage free of visible cracks in the concrete near the anchors?	Y□ N□ U□ N/A⊠	
The component is not anchored in concrete.	•	

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

ATTACHMENT 9.6 SEISMIC WALKDOWN CHEC		
Sheet 2 of 4		
	Status: Y⊠ N□ U□	
Seismic Walkdown Checklist (SWC) <u>SWEL1-690</u>		
Equipment ID No. <u>IR-25-01</u> Equip. Class <u>18 – Instrument Re</u>	acks	
Equipment Description Core Spray System Channel A Rack		
5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) The rack is bolted to steel plates which are welded to an I-beam. The		
spacing between the anchors is 15 inches. They are not 18 inches as shown 7.70-81D due to interference with an I-beam.		
The resolution to this deficiency it tracked through CR-2012-JAF-08186.		
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	Y□ N⊠ U□	
	<u> </u>	
Interaction Effects		
 Are soft targets free from impact by nearby equipment or structures? The soft targets are free from impact by nearby equipment and 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?	ng, Y⊠ N□ U□ N/A□	
The overhead equipments and distribution systems are not likely to collapse onto the equipment.		
 Do attached lines have adequate flexibility to avoid damage? The attached lines have adequate flexibility. 	Y⊠ N□ U□ N/A□	
10. Based on the above seismic interaction evaluations, is equipment fre of potentially adverse seismic interaction effects?	e Y⊠ N□ U□	
The equipment is free of potentially adverse seismic interaction effect	<i>t</i>	

ATTACHMENT 9.6 SEISMIC WALKDOWN CHECKLIST F	
Sheet 3 of 4	
	Status: Y⊠ N⊡ U⊡
Seismic Walkdown Checklist (SWC) <u>SWEL1-690</u>	
Equipment ID No. <u>IR-25-01</u> Equip. Class <u>18 – Instrument F</u>	Racks
Equipment Description Core Spray System Channel A Rack	· .
Other Adverse Conditions	
Have you looked for and found no other seismic conditions that coul adversely affect the safety functions of the equipment?	d Y⊠ N□ U□
Comments (Additional pages may be added as necessary)	
, , , , , , , , , , , , , , , , , , ,	
Evaluated by: Donald Koberg Danale Why	Date: <u>9/25/12</u>
Davis Baurahahadi Tynyll	0/05/40

ATTACHMENT 9.6		S	EISMIC WALKDOWN CHECKLIST FORM
Sheet 4 of 4			
			Status: Y⊠ N□ U□
Seismic Walkdo	wn Checklist (SWC)	SWEL1-690	
Equipment ID No.	IR-25-01	Equip. Class 18 - Instrument Ra	cks

Photographs



Equipment Description Core Spray System Channel A Rack





Note: Rack Anchorage

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 1 of 4 Seismic Walkdown Checklist (SWC) SWEL1-696	Status: Y⊠ N⊟ U⊟
Equipment ID No. <u>IR-25-62</u> Equip. Class <u>18 – Instrument</u>	Racks
Equipment Description RHR Channel B Instrument Rack	
Location: Bldg. RB Floor El. 242 Room, Area Col 3 L	ine D
Manufacturer, Model, Etc. (optional but recommended)	
Instructions for Completing Checklist	
This checklist may be used to document the results of the Seismic Walkdo SWEL. The space below each of the following questions may be used to refindings. Additional space is provided at the end of this checklist for documents.	ecord the results of judgments and
Anchorage	
 Is the anchorage configuration verification required (i.e., is the item of the 50% of SWEL items requiring such verification)? Anchorage configuration verification is required. 	one Y⊠ N□
2. Is the anchorage free of bent, broken, missing or loose hardware? The anchorage is 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? The anchorage is 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? The anchorage is not embedded in concrete.	Y□ N□ U□ N/A⊠

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

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FOR
Sheet 2 of 4	
	Status: Y⊠ N☐ U☐
Seismic Walkdown Checklist (SWC) SWEL1-696	· .
Equipment ID No. <u>IR-25-62</u> Equip. Class <u>18 – Instrument F</u>	Racks
Equipment Description RHR Channel B Instrument Rack	
5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for whan anchorage configuration verification is required.)	
The anchorage configuration is consistent with SEWS for IR-25-62, DWG. No. 7.70-81	
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	of Y⊠ N□ U□
Interaction Effects	
 Are soft targets free from impact by nearby equipment or structures The soft targets are free from impact by nearby equipments and structures. 	? Y⊠ N□ U□ N/A□
Are overhead equipment, distribution systems, ceiling tiles and light and masonry block walls not likely to collapse onto the equipment?	ing, Y⊠ N□ U□ N/A□
The overhead equipments, distribution systems, ceiling tiles and lighting and masonry walls.	
 Do attached lines have adequate flexibility to avoid damage? The attached lines have adequate flexibility. 	Y⊠ N□ U□ N/A□
10. Based on the above seismic interaction evaluations, is equipment for of potentially adverse seismic interaction effects?	
The equipment is free of potentially adverse seismic interaction effe	ects.

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1-696

Equipment ID No. IR-25-62 Equip. Class 18 – Instrument Racks

Equipment Description RHR Channel B Instrument Rack

Other Adverse Conditions

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

Comments (Additional pages may be added as necessary)

Evaluated by: <u>Donald Koberg</u>

Date: <u>9/23/12</u>

Pouria Pourghobadi

Poursi Pourghobadi

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORI
Sheet 4 of 4 Seismic Walkdown Checklist (SWC)SWEL1-696	Status: Y⊠ N□ U□
Equipment ID No. <u>IR-25-62</u> Equip. Class <u>18 – Instrume</u>	nt Racks
Equipment Description RHR Channel B Instrument Rack	
Photographs	ale da sur secondo e facaliza i seculia y seconda por reculir e facabo escolar e socialmente e e e e e e e e e
Note: IR-25-62 Instrument rack Note:	

ATTACHMENT 9.6 SEI	SMIC WALKDOWN CHECKLIST FORM
Sheet 1 of 4	
	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) <u>SWEL2-001</u>	
Equipment ID No. <u>19TK-8A</u> Equip. Class <u>Tanks and heat excl</u>	hangers
Equipment Description Fuel pool cooling skimmer surge tank A	
Location: Bldg. <u>RB</u> Floor El. <u>344</u> Room, Area <u>Col 4 Line</u>	D
Manufacturer, Model, Etc. (optional but recommended)	
Instructions for Completing Checklist	
This checklist may be used to document the results of the Seismic Walkdown SWEL. The space below each of the following questions may be used to recorfindings. Additional space is provided at the end of this checklist for document	d 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)? 	e Y□ N⊠
 Is the anchorage free of bent, broken, missing or loose hardware? The anchorage is 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□
No corrosion.	
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Y⊠ N□ U□ N/A□
The anchorage is free of cracks.	

ATTACHMENT 9.6 SEISMIC WALKDOWN CHECKLIST FORM Sheet 2 of 4 Status: Y⊠ N□ U□ Seismic Walkdown Checklist (SWC) <u>SWEL2-001</u> Equipment ID No. 19TK-8A Equip. Class Tanks and heat exchangers Equipment Description Fuel pool cooling skimmer surge tank A 5. Is the anchorage configuration consistent with plant documentation? Y□ N□ U□ N/A⊠ (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) $Y \boxtimes N \square U \square$ 6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? **Interaction Effects** 7. Are soft targets free from impact by nearby equipment or structures? Y⊠ N□ U□ N/A□ No soft targets on tank 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? 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 $Y \boxtimes N \square U \square$ of potentially adverse seismic interaction effects? The tank is structurally robust. It is supported at El. 369'. Any minimal lateral tank movement will not impact any SSCs

ATTACHMENT 9.6		SEISMIC WALKDOWN CHECKLIST FORM
Sheet 3 of 4		
		Status: Y⊠ N□ U□
Seismic Walkdown Checklist (S	SWC) <u>SWEL2-001</u>	
Equipment ID No. 19TK-8A	Equip. Class Tanks and	heat exchangers
Equipment Description Fuel pool co	ooling skimmer surge tank A	
Other Adverse Conditions	,	
Have you looked for and four adversely affect the safety full.		at could Y⊠ N⊡ U⊡
Comments (Additional pages may b	pe added as necessary)	
* * * * * * * * * * * * * * * * * * *		
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	· ·	
Evaluated by: <u>Rick Casella</u>	d Casella	Date: <u>9-28-12</u>
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Alan Parah	''	0.29.42

ATTACHMENT 9.6			SEISMIC WALKDOWN CHECKLIST FORM
Sheet 4 of 4			
			Status: Y⊠ N□ U□
Seismic Walkdo	wn Checklist (S	SWC) <u>SWEL2-001</u>	
Equipment ID No.	<u>19TK-8A</u>	Equip. Class_Tanks and hea	at exchangers
Equipment Descrip	tion <i>Fuel pool co</i>	oling skimmer surge tank A	

Photographs



Note: 19TK-8A with anchorage at ceiling.



19TK-8A at base

ATTACHMENT 9.6 SEISMIC WALK	DOWN CHECKLIST FORM
Sheet 1 of 4	
	us: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC)SWEL2-003	•
Equipment ID No. <u>19LS-65</u> Equip. Class <u>20. Instrumentation and Control</u>	ol Panels
Equipment Description Skimmer surge tank A high level switch	
Location: Bldg. RB Floor El. 344 Room, Area Col 4 Line D	
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 SWEL. The space below each of the following questions may be used to record the resu findings. Additional space is provided at the end of this checklist for documenting other contents.	Its of judgments and
Anchorage	, , , , , , , , , , , , , , , , , , ,
 Is the anchorage configuration verification required (i.e., is the item one Y Note Note Note Note Note Note Note Note	
2. Is the anchorage free of bent, broken, missing or loose hardware? Y□ N	I□ U□ N/A⊠
SWEL item is not independently supported; it is attached to a pipe stand running vertically which is supported at the top and bottom.	
3. Is the anchorage free of corrosion that is more than mild surface Y□ N oxidation?	I□ U□ N/A⊠
SWEL item is not independently supported; it is attached to a pipe stand running vertically which is supported at the top and bottom.	
4. Is the anchorage free of visible cracks in the concrete near the anchors?	N□ U□ N/A⊠
SWEL item is not independently supported; it is attached to a pipe stand running vertically which is supported at the top and bottom.	

ATTACHMENT 9.6 SEISM	IIC WALKDOWN CHECKLIST FOR
Sheet 2 of 4	
Seismic Walkdown Checklist (SWC) SWEL2-003	Status: Y⊠ N□ U□
Equipment ID No. 19LS-65 Equip. Class 20. Instrumentation ar	nd Control Panels
Equipment Description Skimmer surge tank A high 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⊠
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? N/A	Y⊠ N□ U□
Interaction Effects	
7. Are soft targets free from impact by nearby equipment or structures? Flexible conduit is a soft target near item. There are no credible seismic interactions.	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? Fluorescent light in the room is located several feet from SWEL item.	Y□ N□ U□ N/A⊠
No interaction likely.	
9. Do attached lines have adequate flexibility to avoid damage? Conduit attached to the wall and has a flexible connection at the swell item. SWEL item is not independently supported, it is attached to a pipe stand running vertically which is supported at the top and bottom.	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□

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 3 of 4	,
	Status: Y⊠ N⊟ U⊟
Seismic Walkdown Checklist (SWC) <u>SWEL2-</u>	003
Equipment ID No. <u>19LS-65</u> Equip. Class	ss_20. Instrumentation and Control Panels
Equipment Description Skimmer surge tank A high lev	el switch
Other Adverse Conditions	
 Have you looked for and found no other seismic adversely affect the safety functions of the equip 	
Comments (Additional pages may be added as necess	sary)
No additional comments.	
• •	
	ÃÃ
Evaluated by: Rick Casella	Date: 9-28-12
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Alan Darah	0.20.40

SEISMIC WALKDOWN CHECKLIST FORM
SEISMIC WALKDOWN CHECKLIST FORM
Status: Y⊠ N□ U□
ation and Control Panels
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ATTACHMENT 9.6 SEISI	MIC WALKDOWN CHECKLIST FORM
Sheet 1 of 4	
	Status: Y⊠ N⊟ U⊟
Seismic Walkdown Checklist (SWC) SWEL2-004	
Equipment ID No. 19LS-67 Equip. Class 20. Instrumentation as	nd Control Panels
Equipment Description Skimmer surge tank A low-low level switch	
Location: Bldg. RB Floor El. 347 Room, Area Col 4 Line D	
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 N
Is the anchorage free of bent, broken, missing or loose hardware? The item is not supported independently.	Y□ N□ U□ N/A⊠
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	Y□ N□ U□ N/A⊠
The item is not supported independently.	
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Y□ N□ U□ N/A⊠
The item is not supported independently. No concrete.	*

ATTACHMENT 9.6 SEISM	NIC WALKDOWN CHECKLIST FORM
Sheet 2 of 4	
Seismic Walkdown Checklist (SWC) <u>SWEL2-004</u>	Status: Y⊠ N□ U□
Equipment ID No. <u>19LS-67</u> Equip. Class <u>20. Instrumentation an</u>	d Control Panels
Equipment Description Skimmer surge tank A low-low 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⊠
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? N/A	Y⊠ N□ U□
Interaction Effects	
7. Are soft targets free from impact by nearby equipment or structures? Flexible conduit is a soft target near item. There are no credible seismic interactions.	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	Y⊠ N□ U□

9-28-12

SEISMIC WALKDOWN CHECKLIST FORM **ATTACHMENT 9.6** Sheet 3 of 4 Status: Y⊠ N□ U□ Seismic Walkdown Checklist (SWC) SWEL2-004 Equip. Class 20. Instrumentation and Control Panels Equipment ID No. 19LS-67 Equipment Description Skimmer surge tank A low-low level switch **Other Adverse Conditions** 11. Have you looked for and found no other seismic conditions that could $Y \boxtimes N \square U \square$ adversely affect the safety functions of the equipment? **Comments** (Additional pages may be added as necessary) Rich Casella.

A.C., Dand Evaluated by: Rick Casella Date: 9-28-12

Alan Porch

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 4 of 4	
	Status: Y⊠ N⊡ U⊡
Seismic Walkdown Checklist (SWC) <u>SWEL2</u>	2-004
Equipment ID No. 19LS-67 Equip. Cl	ass_20. Instrumentation and Control Panels
Equipment Description Skimmer surge tank A low-lo	w level switch
Photographs	
Note: 19LS-67	Note:

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 1 of 4	
	Status: Y⊠ N⊟ U⊟
Seismic Walkdown Checklist (SWC) <u>SWEL2-005</u>	
Equipment ID No. 19FPC-33 Equip. Class 07-Pneumatic-	operated valves
Equipment Description Skimmer surge tanks A & B to cndsr hotwell isol	valve inlet isol
Location: Bldg. RB Floor El. 326.9 Room, Area Col 3	line R
Manufacturer, Model, Etc. (optional but recommended)	
Instructions for Completing Checklist	· · · · · · · · · · · · · · · · · · ·
This checklist may be used to document the results of the Seismic Walkd SWEL. The space below each of the following questions may be used to findings. Additional space is provided at the end of this checklist for document	record the results of judgments and
Anchorage	
 Is the anchorage configuration verification required (i.e., is the iter of the 50% of SWEL items requiring such verification)? 	m one Y□ N⊠
2. Is the anchorage free of bent, broken, missing or loose hardware? The item is an inline valve	P Y□ N□ U□ N/A⊠
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	Y□ N□ U□ N/A⊠
The item is an inline valve	
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Y□ N□ U□ N/A⊠
The item is an inline valve	

	MIC WALKDOWN CHECKLIST FORM
Sheet 2 of 4 Seismic Walkdown Checklist (SWC) <u>SWEL2-005</u>	Status: Y⊠ N⊡ U⊡
Equipment ID No. <u>19FPC-33</u> Equip. Class <u>07-Pneumatic-operate</u>	ed valves
Equipment Description Skimmer surge tanks A & B to cndsr hotwell isol valve in	nlet isol
 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? N/A	Y⊠ N□ U□
Interaction Effects	
7. Are soft targets free from impact by nearby equipment or structures? No soft targets	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□
Piping and overhead conduit well supported.	
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□

ATTACHMENT 9.6	SEISMIC W	ALKDOWN CH	ECKLIST FORM
Sheet 3 of 4	S	status: Y⊠	N
Seismic Walkdown Checklist (SWC) <u>SWEL2-005</u>		,	
Equipment ID No. <u>19FPC-33</u> Equip. Class <u>07-Pneum</u>	atic-operated val	ves	
Equipment Description Skimmer surge tanks A & B to cndsr hotwell	isol valve inlet is	ol	·
Other Adverse Conditions		,	
11. Have you looked for and found no other seismic conditions th adversely affect the safety functions of the equipment?	at could Y⊠	N□ U□	,
		·	
Comments (Additional pages may be added as necessary)			
No additional comments.			
			•
			·
Evaluated by: Rick Casella	Dat	te: <u>9-28-12</u>	
10. Dand			
Alan Porch		9-28-12	

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 4 of 4

Status: Y⊠ N□ U□

Seismic Walkdown Checklist (SWC) SWEL2-005

Equipment ID No. 19FPC-33 Equip. Class 07- Pneumatic-operated valves

Equipment Description Skimmer surge tanks A & B to cndsr hotwell isol valve inlet isol

Photographs





Note: 19FPC-33 valve shown on left side of photo. (The date provided on the bottom right cornet is not correct the date that the picture was taken. Malfunction with camera setting)

Note: 19FPC-33 (The date provided on the bottom right cornet is not correct the date that the picture was taken. Malfunction with camera setting)

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 1 of 4	
	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) <u>SWEL2-006</u>	
Equipment ID No. <u>19AOV-09</u> Equip. Class <u>7. pneumatic-ope</u>	erated valves
Equipment Description Skimmer surge tanks A & B to cndsr hotwell isol v	alve
Location: Bldg. RB Floor El. 326.9 Room, Area Col 3 li	ne R
Manufacturer, Model, Etc. (optional but recommended)	
Instructions for Completing Checklist	
This checklist may be used to document the results of the Seismic Walkdo SWEL. The space below each of the following questions may be used to refindings. Additional space is provided at the end of this checklist for documents.	ecord the results of judgments and
Anchorage	
 Is the anchorage configuration verification required (i.e., is the item of the 50% of SWEL items requiring such verification)? 	one Y□ N⊠
2. Is the anchorage free of bent, broken, missing or loose hardware? The item is an inline valve	Y□ N□ U□ N/A⊠
rne item is an inline valve	
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	Y□ N□ U□ N/A⊠
The item is an inline valve	•
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Y□ N□ U□ N/A⊠
The item is an inline valve	

ATTACHMENT 9.6 SEIST	MIC WALKDOWN CHECKLIST FOR
Sheet 2 of 4	Status: Y⊠ N⊟ U⊟
Seismic Walkdown Checklist (SWC) <u>SWEL2-006</u>	
Equipment ID No. <u>19AOV-09</u> Equip. Class <u>7. pneumatic-operate</u>	d valves
Equipment Description Skimmer surge tanks A & B to cndsr hotwell isol valve	
 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? N/A	Y⊠ N□ U□
Interaction Effects	
7. Are soft targets free from impact by nearby equipment or structures? Piping and conduit above the item is well supported.	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□

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 3 of 4	
Salamia Malledown Chaoldiat (SMC) SMEL 2 006	Status: Y⊠ N⊟ U⊟
Seismic Walkdown Checklist (SWC) <u>SWEL2-006</u>	-
Equipment ID No. <u>19AOV-09</u> Equip. Class <u>7. pne</u>	umatic-operated valves
Equipment Description Skimmer surge tanks A & B to endsr ho	well isol valve
Other Adverse Conditions	
11. Have you looked for and found no other seismic condition adversely affect the safety functions of the equipment?	ns that could Y⊠ N□ U□
	1
Comments (Additional pages may be added as necessary)	
No additional comments.	
· · · · · · · · · · · · · · · · · · ·	
Evaluated by: Rick Casella	Date: <u>9-28-12</u>
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Alan Porch	9-28-12

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 4 of 4	
Seismic Walkdown Checklist (SWC) <u>SWEL2-006</u>	Status: Y⊠ N□ U□
Equipment ID No. <u>19AOV-09</u> Equip. Class <u>7. pne</u>	umatic-operated valves
Equipment Description Skimmer surge tanks A & B to cndsr ho	twell isol valve
Photographs	
01/01/2007	
Note: 19AOV-09 valve shown in center of picture. (The date provided on the bottom right	
cornet is not correct the date that the picture	
was taken. Malfunction with camera setting)	

ATTACHMENT 9,6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 1 of 4	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) <u>SWEL2-007</u>	
Equipment ID No. <u>19FPC-01</u> Equip. Class <u>7. Pneumatic-op</u>	perated valves
Equipment Description Skimmer surge tanks A & B drain valve	
Location: Bldg. RB Floor El. 326 Room, Area Col 3 I	ine T
Manufacturer, Model, Etc. (optional but recommended)	
Instructions for Completing Checklist	
This checklist may be used to document the results of the Seismic Walkdo SWEL. The space below each of the following questions may be used to r findings. Additional space is provided at the end of this checklist for document	ecord the results of judgments and
Anchorage	
 Is the anchorage configuration verification required (i.e., is the item of the 50% of SWEL items requiring such verification)? 	n one Y N N
2. Is the anchorage free of bent, broken, missing or loose hardware? The item is an inline valve.	Y□ N□ U□ N/A⊠
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	Y□ N□ U□ N/A⊠
The item is an inline valve.	
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Y□ N□ U□ N/A⊠
The item is an inline valve.	•

ACHMENT 9.6 SEISMIC WALKDOWN CHECKLIST F		
Sheet 2 of 4		
	Status: Y⊠ N⊟ U⊟	
Seismic Walkdown Checklist (SWC) <u>SWEL2-007</u>		
Equipment ID No. <u>19FPC-01</u> Equip. Class <u>7. Pneumatic-operated valves</u>		
Equipment Description Skimmer surge tanks A & B drain valve		
 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? None overhead. Fluorescent light directly south will not damage hand wheel if it fails.	Y⊠ N□ U□ N/A□	
Do attached lines have adequate flexibility to avoid damage? No line attached.	Y□ N□ U□ N/A⊠	
Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	Y⊠ N□ U□	

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 3 of 4	
	Status: Y⊠ N⊟ U⊟
Seismic Walkdown Checklist (SWC) <u>SWEL2-007</u>	
Equipment ID No. <u>19FPC-01</u> Equip. Class <u>7. Pneum</u>	natic-operated valves
Equipment Description Skimmer surge tanks A & B drain valve	
Other Adverse Conditions	
11. Have you looked for and found no other seismic conditions adversely affect the safety functions of the equipment?	that could Y⊠ N□ U□
Comments (Additional pages may be added as necessary)	
No additional comments.	
Evaluated by: Rick Casella	Date: <u>9-28-12</u>
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ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 4 of 4

Status: Y⊠ N□ U□

Seismic Walkdown Checklist (SWC) SWEL2-007

Equipment ID No. <u>19FPC-01</u> Equip. Class <u>7. Pneumatic-operated valves</u>

Equipment Description Skimmer surge tanks A & B drain valve

Photographs





Note: 19FPC-01 (The date provided on the bottom right cornet is not correct the date that the picture was taken. Malfunction with camera setting)

Note: 19FPC-01(The date provided on the bottom right cornet is not correct the date that the picture was taken. Malfunction with camera setting)