ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 1 of 4 Seismic Walkdown Checklist (SWC) SWEL1-137	Status: Y⊠ N□ U□
Equipment ID No. 10S-5A1 Equip. Class 100-Other	
Equipment Description RHRSW Pumps A and C Discharge Strainer Basks	e <u>t 1</u>
Location: Bldg. SP Floor El. 255' Room, Area Pump R	Room Train A, Col. 26,
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⊠
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? The one (1) anchor is free of bent, broken, missing or loose hardware.	Y⊠ N□ U□ N/A□ re.
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 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 FOR
Sheet 2 of 4	
	Status: Y⊠ N⊟ U⊟
Seismic Walkdown Checklist (SWC) <u>SWEL1-137</u>	
Equipment ID No. <u>10S-5A1</u> Equip. Class <u>00-Other</u>	
Equipment Description RHRSW Pumps A and C Discharge Strainer Basic	ket 1
5. Is the anchorage configuration consistent with plant documentation (Note: This question only applies if the item is one of the 50% for wan 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 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?	?
There is a masonry block wall near the equipment; however, the was evaluated under IPEEE effort to reinforce the block walls. (Ref Section 3.1.4.6, page 3-57 JAF-RPT-MISC-02211)	vall
 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?	free Y⊠ N□ U□
Based on the above seismic interaction evaluations, the equipmer free of potentially adverse seismic interaction effects.	nt is

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 3 of 4	
Seismic Walkdown Checklist (SWC) SWEL1-137	Status: Y⊠ N⊡ U⊡
Seisific Walkdown Checklist (SWC)	•
Equipment ID No. <u>10S-5A1</u> Equip. Class <u>00-Other</u>	
Equipment Description RHRSW Pumps A and C Discharge Strainer Bask	ket 1
Other Adverse Conditions	
11. Have you looked for and found no other seismic conditions that con 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 21111	Date: <u>09/21/2012</u>
Yaroslav Losev	

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 4 of 4	
	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) <u>SWEL1</u>	-137
Equipment ID No. <u>10S-5A1</u> Equip. Cla	ass_00-Other
Equipment Description RHRSW Pumps A and C Dis	charge Strainer Basket 1
Photographs	
Note: Picture of equipment 10S-5A1.	Note:

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 1 of 4	
Seismic Walkdown Checklist (SWC) <u>SWEL1-155</u>	Status: Y⊠ N□ U□
Equipment ID No. <u>11EV-14A</u> Equip. Class ¹ <u>00-Other</u>	1
Equipment Description SLC A Double SQUIB Activated Shear Explosive V	<u>′alve</u>
Location: Bldg. RB Floor El. 326' Room, Area RB NW	, Col. 6, Line R
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)? The second of the secon	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? Inline SWEL item, which does not contain anchorage.	Y□ N□ U□ N/A⊠
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	Y□ N□ U□ N/A⊠
Inline SWEL item, which does not contain anchorage.	
4. Is the anchorage free of visible cracks in the concrete near the anchors? Inline SWEL item, which does not contain anchorage.	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>SWEL1-155</u>	Status: Y⊠ N□ U□
Equipment ID No. <u>11EV-14A</u> Equip. Class <u>00-Other</u>	×.
Equipment Description SLC A Double SQUIB Activated Shear Explosive	Valve
5. Is the anchorage configuration consistent with plant documentation (Note: This question only applies if the item is one of the 50% for variance and anchorage configuration verification is required.)	
Inline SWEL item, which does not contain anchorage.	
6. Based on the above anchorage evaluations, is the anchorage free potentially adverse seismic conditions?	e of Y⊠ N□ U□
Inline SWEL item, which does not contain anchorage.	
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⊠
8. Are overhead equipment, distribution systems, ceiling tiles and lig 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 equipment	? phting,
 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?	· — —
Based on the above seismic interaction evaluations, the equipment free of potentially adverse seismic interaction effects.	nt is

HMENT 9.6 SEISMIC WALKDOWN CHECKLIS	
Sheet 3 of 4	. ,
	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) <u>SWEL1-155</u>	
Equipment ID No. <u>11EV-14A</u> Equip. Class <u>00-Other</u>	
Equipment Description SLC A Double SQUIB Activated Shear Explosive	Valve
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□
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 24	Date: 09/25/2012
Evaluated by: Harpreet Ghuman A 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	<u>09/25/2012</u>

ATTACHMENT 9.6	SEISMIC WA	LKDOV	VN CHI	ECKLIS	T FORM
Sheet 4 of 4					
	Sta	atus:	Υ⊠	N	U
Seismic Walkdown Checklist (SWC) <u>SWEL1-155</u>					
Equipment ID No. <u>11EV-14A</u> Equip. Class <u>00-Other</u>					
Equipment Description SLC A Double SQUIB Activated Shear Explosive	Valve				
Photographs					7/0-1/11/0-11/1
Note: Picture of equipment 11EV-14A. Note:	÷		***		

ATTACHMENT 9.6 SEISM	IIC WALKDOWN CHECKLIST FORM
Sheet 1 of 5	`
	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) <u>SWEL1-157</u>	
Equipment ID No. <u>11P-2A</u> Equip. Class¹ <u>05- Horizontal Pumps</u>	
Equipment Description Standby Liquid Control A Pump	•
Location: Bldg. <u>RB</u> Floor El. <u>326'</u> Room, Area <u>RB NW, Col.</u>	6, Line P
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	<u></u>
 Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? The item is one of the 50% of SWEL items requiring anchorage configuration verification. 	Y⊠ N□
2. Is the anchorage free of bent, broken, missing or loose hardware?	Y⊠ N□ U□ N/A□
The anchorage for the pump is free of bent, broken or loose hardware; however, this is not the governing component for possible anchorage failure. The six (6), 3/4" CIP bolts attaching the skid to the concrete footing is the governing anchorage for potential failure based on the SEWS evaluation and has been determined to be free of bent, broken, missing or loose hardware. There are two bolts utilized for guiding the motor into place onto the skid, these two bolts where never removed and have loose nuts. However, this is not an issue since these bolts are	
not utilized to provide anchorage capacity for the equipment. This is more of a housekeeping issue; it is recommended to remove the nuts to stay consistent with plant documentation. This is not an adverse seismic condition.	
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□

Concrete is free of visible cracks near any of 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	
	Status: Y⊠ N☐ U☐
Seismic Walkdown Checklist (SWC) <u>SWEL1-157</u>	
Equipment ID No. <u>11P-2A</u> Equip. Class <u>05- Horizontal Pu</u>	ımps
Equipment Description Standby Liquid Control A Pump	
 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.) 	
The configuration for the 3/4" CIP anchors are in accordance with th SEWS documentation.	e .
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	f 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⊠
There are no soft targets on the equipment.	
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□
The overhead equipment, distribution systems, ceiling tiles and light and masonry block walls are not likely to collapse onto the equipme	
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 amage.	oid
10. Based on the above seismic interaction evaluations, is equipment fr 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.	is

ATTACHMENT 9.6 SEISMIC WALKDOWN CHEC		
Sheet 3 of 5		
	Status: Y⊠ N⊟ U⊟	
Seismic Walkdown Checklist (SWC) <u>SWEL1-157</u>		
Equipment ID No. <u>11P-2A</u> Equip. Class <u>05- Horizontal P</u>	Pumps	
Equipment Description Standby Liquid Control A Pump		
Other Adverse Conditions		
11. Have you looked for and found no other seismic conditions that con 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.		
	r ·	
Comments (Additional pages may be added as necessary)		
No additional comments.	•	
Evaluated by: Harpreet Ghuman HO 2	Date: 09/25/2012	
Mor		
Yaroslav Losev	09/25/2012	

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 4 of 5	
Seismic Walkdown Checklist (SWC) SWEL1-157	Status: Y⊠ N□ U□
Equipment ID No. 11P-2A Equip. Class 05- Horizontal Pu	ımps

Photographs



Equipment Description Standby Liquid Control A Pump



Note: Picture of equipment 11P-2A.

Note: Picture showing one of the two loose nuts on the guidance bolts for mounting the motor to the skid.

ATTACHMENT 9.6	SEISMIC WALKDOW	VN CHECK	LIST FORM
Sheet 5 of 5			
Seismic Walkdown Checklist (SWC) SWEL1-157	Status:	Y⊠ N	_ u
Equipment ID No. <u>11P-2A</u> Equip. Class <u>05- Horizontal P</u>	umps		
Equipment Description Standby Liquid Control A Pump			
Note: Picture showing the loose nut on the other guidance bolt for mounting the motor to the skid. Note:	2		

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 1 of 4	
Seismic Walkdown Checklist (SWC) <u>SWEL1-161</u>	Status: Y⊠ N⊡ U⊡
Equipment ID No. 11TK-1 Equip. Class 21-Tanks and H	eat Exchangers
Equipment Description Standby Liquid Control Tank	
Location: Bldg. <u>RB</u> Floor El. <u>326'</u> Room, Area <u>RB NW</u>	/, Col. 6, Line P
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)? The item is one of the 50% of SWEL items requiring anchorage configuration verification. 	one Y⊠ N□.
 Is the anchorage free of bent, broken, missing or loose hardware? The twelve (12), 1" CIP bolts are free of bent, broken missing or look hardware. 	Y⊠ N□ U□ N/A□ ose
3. Is the anchorage free of corrosion that is more than mild surface oxidation? Anchorage is free of corrosion that is more than mild surface oxida	Y⊠ N□ U□ N/A□ tion.
Is the anchorage free of visible cracks in the concrete near the anchors? Occupants in the anchorage free of visible area to prove the anchors.	Y⊠ N□ U□ N/A□

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)SWEL1-161	Status: Y⊠ N□ U□
Equipment ID No. 11TK-1 Equip. Class 21-Tanks and Heat E	xchangers
Equipment Description Standby Liquid Control 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 configuration for the 1" CIP anchors is in accordance with the SEWS documentation.	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	
7. Are soft targets free from impact by nearby equipment or structures? The SLC temperature element sensor wire (Equipment 11TE-49) is located near an unanchored Unistrut support. The unanchored Unistrut support can slip from the base and potentially damage the sensor wire during a seismic event; however, this is not considered as a seismic adverse interaction. The unanchored Unistrut support will not damage the 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? 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? Based on the above seismic interaction evaluations, the equipment is	Y⊠ N□ U□
Based on the above seismic interaction evaluations, the equipment is free of potentially adverse seismic interaction effects.	

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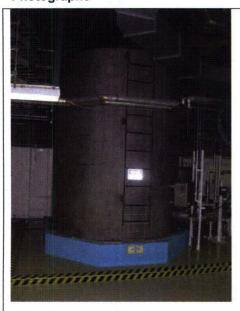
ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 3 of 4 Seismic Walkdown Checklist (SWC) <u>SWEL1-161</u>	Status: Y⊠ N⊟ U⊟
Equipment ID No. 11TK-1 Equip. Class 21-Tanks and I	Heat Exchangers
Equipment Description Standby Liquid Control Tank	·
Other Adverse Conditions	
11. Have you looked for and found no other seismic conditions that co adversely affect the safety functions of the equipment? No other seismic conditions that could adversely affect the safety	ould Y⊠ N□ U□
functions of the equipment in the area were found.	
Comments (Additional pages may be added as necessary)	
Due to uneven surface on the concrete footing there is a gap between concrete footing. Gaps on the ends of the anchor base plate are concrete footing at the anchor locations engineering judgment is not large enough to cause a significant management.	close to 0.5". Gaps between the s is less than a 1/4" which by
Evaluated by: Harpreet Ghuman HS 24	Date: <u>09/25/2012</u>
Evaluated by: Harpreet Ghuman (4) 2	09/25/2012

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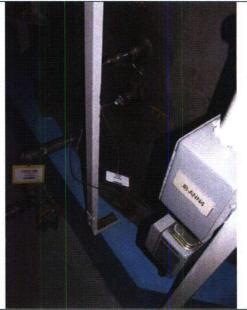
ATTACHMENT 9.6				SEISMIC WALKDOW	VN CHECKLIST FORM
Sheet 4 of 4					
Seismic Walkdo	wn Checklist (SWC)	SWEL1-161		Status:	Y⊠ N□ U□
Equipment ID No.	11TK-1	Equip. Class 21-	Tanks and Hea	at Exchangers	

Equipment Description Standby Liquid Control Tank

Photographs



Note: Picture of equipment 11TK-1.



Note: Picture showing the element sensor wire (equipment 11TE-49) near the unsupported Unistrut support.

ATTACHMENT 9.6 Si	EISMIC WALKDOWN CHECKLIST FORM
Sheet 1 of 5 Seismic Walkdown Checklist (SWC) <u>SWEL1-164</u>	Status: Y⊠ N□ U□
Equipment ID No. <u>13MOV-15</u> Equip. Class <u>motor-operated an</u>	d solenoid-operated valves
Equipment Description RCIC Steam Supply Inbd Isol Valve	
Location: Bldg. PC Floor El. 291 Room, Area Drywell, A	Azimuth 335°, Col4 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 SWEL. The space below each of the following questions may be used to receindings. 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 of of the 50% of SWEL items requiring such verification)?	ne Y□ N⊠
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.	

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ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 2 of 5	
	Status: Y⊠ N⊟ U⊟
Seismic Walkdown Checklist (SWC) <u>SWEL1-164</u>	
Equipment ID No. <u>13MOV-15</u> Equip. Class <u>motor-operated a</u>	nd solenoid-operated valves
Equipment Description RCIC steam supply inbd isol valve	
 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.) 	
6. Based on the above anchorage evaluations, is the anchorage free or potentially adverse seismic conditions? N/A	f Y⊠ N□ U□
Interaction Effects	
7. Are soft targets free from impact by nearby equipment or structures?	P 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 9.6		SEISMIC WALKDOWN CHECKLIST FORM
Sheet 3 of 5		
•		Status: Y⊠ N☐ U☐
Seismic Walkdown Checklist (SWC) <u>SWEL1-164</u>	
Equipment ID No. <u>13MOV-15</u>	Equip. Class_ <i>motor-operat</i>	ed and solenoid-operated valves
Equipment Description RCIC steam supp	oly inbd isol valve	
Other Adverse Conditions		1
Have you looked for and found no adversely affect the safety function		could Y⊠ N□ U□
		•
Comments (Additional pages may be ad	ded as necessary)	
1" conduit running 45° on RPV sid seismic interaction, nor will it fa		e. However, it will not result in any
	•	
Evaluated by: Rick Casella	Casella	Date: 9-28-12
	4 -	
	race	0.29.42

ATTACHMENT 9.	-
	n

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 4 of 5

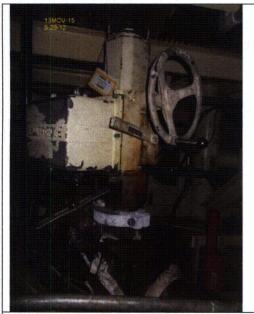
Status: Y⊠ N□ U□

Seismic Walkdown Checklist (SWC) SWEL1-164

Equipment ID No. <u>13MOV-15</u> Equip. Class <u>motor-operated and solenoid-operated valves</u>

Equipment Description RCIC steam supply inbd isol valve

Photographs



Note: 13MOV-15



Note: 13MOV-15

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 5 of 5

Status: Y⊠ N□ U□

Seismic Walkdown Checklist (SWC) SWEL1-164

Equipment ID No. <u>13MOV-15</u> Equip. Class <u>motor-operated and solenoid-operated valves</u>

Equipment Description RCIC steam supply inbd isol valve



Note: 13MOV-15



Note: 1" dia. conduit

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 1 of 4	·
	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) <u>SWEL1-165</u>	
Equipment ID No. 13MOV-16 Equip. Class 1 08-Motor Opera	ted Valves
Equipment Description RCIC Turbine Steam Supply Outbd Isolation Valve	2
Location: Bldg. <u>RB</u> Floor El. <u>272'</u> Room, Area <u>RB Sou</u>	th, 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 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.	
 Is the anchorage free of bent, broken, missing or loose hardware? Inline SWEL item, which does not contain anchorage. 	Y□ N□ U□ N/A⊠
Is the anchorage free of corrosion that is more than mild surface oxidation?	Y□ N□ U□ N/A⊠
Inline SWEL item, which does not contain anchorage.	
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Y□ N□ U□ N/A⊠
Inline SWEL item, which does not contain anchorage.	

 $^{^{\}mbox{\tiny 1}}$ Enter the equipment class \underline{name} 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) __SWEL1-165 Equip. Class <u>08-Motor Operated Valves</u> Equipment ID No. 13MOV-16 Equipment Description RCIC Turbine Steam Supply Outbd Isolation Valve 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.) Inline SWEL item, which does not contain anchorage. Y⊠ N□ U□ 6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Inline SWEL item, which does not contain anchorage. Interaction Effects Y□ N□ U□ N/A⊠ 7. Are soft targets free from impact by nearby equipment or structures? There are no soft targets on the 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? The overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls are not likely to collapse onto the equipment. 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. Y⊠ N□ U□ 10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? 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	
Seismic Walkdown Checklist (SWC) <u>SWEL1-165</u>	Status: Y⊠ N□ U□
Equipment ID No. <u>13MOV-16</u> Equip. Class <u>08</u> -	Motor Operated Valves
Equipment Description RCIC Turbine Steam Supply Outbd i	solation Valve
Other Adverse Conditions	
11. Have you looked for and found no other seismic cond adversely affect the safety functions of the equipment No other seismic conditions that could adversely affect the seismic conditions that could be adversely affect the seismic conditions the seismic conditions that could be adversely affect the seismic conditions that could be adversely affect the seismic conditions that could be adversely affect the seismic conditions the seismic conditions are conditions as a seismic condition that could be adversely after the seismic conditions and conditions	?
functions of the equipment in the area were found.	
Comments (Additional pages may be added as necessary)	
No additional comments.	
	•
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410 -1	· · · · · · · · · · · · · · · · · · ·
Evaluated by: Harpreet Ghuman	Date: <u>09/26/2012</u>
Evaluated by: Harpreet Ghuman HO Homes	09/26/2012

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 4 of 4	
	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) <u>SWEL1-165</u>	
Equipment ID No. 13MOV-16 Equip. Class 08-Motor Operation	ted Valves
Equipment Description RCIC Turbine Steam Supply Outbd Isolation Valve	е
Photographs	
Note: Picture of equipment 13MOV-16. Note:	

ATTACHMENT 9.6 SEIS	MIC WALKDOWN CHECKLIST FORM
Sheet 1 of 5	
	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) <u>SWEL1-166</u>	
Equipment ID No. <u>13P-1</u> Equip. Class <u>5 – Horizontal Pumps</u>	·
Equipment Description RCIC Turbine Driven Pump	
Location: Bldg. RB Floor El. 227.6 Room, Area Col. 3, Line	Р
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	I the results of judgments and
Anchorage	
 Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? 	Y⊠ N□
2. Is the anchorage free of bent, broken, missing or loose hardware? 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 oxidation	
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	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 2 of 5	
	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) <u>SWEL1-166</u>	
Equipment ID No. <u>13P-1</u> Equip. Class <u>5 – Horizontal F</u>	Pumps
Equipment Description RCIC Turbine Driven Pump	
 Is the anchorage configuration consistent with plant documentation (Note: This question only applies if the item is one of the 50% for wan anchorage configuration verification is required.) 	
The anchorage configuration is consistent with the SEWS for 13P-DWG. No. 2.12-3 and Drawing Number 11825-FC-20D, Rev. 7. The pump sits on a concrete pad that is 3'-7" wide x 12' long x 1.5' high concrete pad. The pad is dowelled to into the floor slab with 26 #1 bars (5' long plus a 12" 90 deg. Hook at the top).	ne h
6. Based on the above anchorage evaluations, is the anchorage free potentially adverse seismic conditions?	of Y⊠ N□ U□
Interaction Effects	
 Are soft targets free from impact by nearby equipment or structure The soft targets are free from impact by nearby equipments or structures. 	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 equipments and distribution systems are not likely to	?
collapse onto the equipments.	
 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 of potentially adverse seismic interaction effects? The equipment is free f notentially adverse seismic interaction.	free Y⊠ N□ U□

ATTACHMENT 9.6 SEISMIC WALKDOWN CHECK		
Sheet 3 of 5 Seismic Walkdown Checklist (SWC) <u>SWEL1-166</u>	Status: Y⊠ N⊟ U⊟	
Equipment ID No. <u>13P-1</u> Equip. Class <u>5 – Horizontal P</u>	Pumps	
Equipment Description RCIC Turbine Driven Pump	•	
Other Adverse Conditions		
11. Have you looked for and found no other seismic conditions that con adversely affect the safety functions of the equipment?	uld Y⊠ N□ U□	
Comments (Additional pages may be added as necessary)	•	
	•	
Evaluated by: Donald Koberg Small Why	Date: <u>9/24/12</u>	
Pouria Pourghobadi	9/24/12	

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SEISMIC WALKDOWN CHECKLIST FORM

Sheet 4 of 5

Status: Y⊠ N□ U□

Seismic Walkdown Checklist (SWC) __SWEL1-166

Equipment ID No. 13P-1 Equip. Class 5 – Horizontal Pumps

Equipment Description RCIC Turbine Driven Pump

Photographs





Note: 13P-1 Pump Tag

ATTACHMENT 9.6		SEISMIC WALKDOWN CHECKLIST FOR
Sheet 5 of 5		
		Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC)	SWEL1-166	
Equipment ID No. <u>13P-1</u> E	quip. Class <u>5 – Horizon</u>	ntal Pumps
Equipment Description RCIC Turbine Driver	Pump	
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	44 A	
Note: 13P-1 Pump Anchorage.	Note:	

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 1 of 4	Status: Y⊠ N∏ U∏
Seismic Walkdown Checklist (SWC) <u>SWEL1-169</u>	
Equipment ID No. <u>14MOV-12A</u> Equip. Class¹ <u>8 – Motor-Opera</u>	ted Valves
Equipment Description Core Spray Loop A INBD Isolation Valve	
Location: Bldg. RB Floor El. 300 Room, Area Col. 4.5	<u> </u>
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⊠
 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.	
Is the anchorage free of visible cracks in the concrete near the anchors?	Y□ N□ U□ N/A⊠
The item is an inline valve.	

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

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ATTACHMENT 9.6 SEISI	MIC WALKDOWN CHECKLIST FOR
Sheet 2 of 4	Status: Y⊠ N⊟ U⊟
Seismic Walkdown Checklist (SWC) <u>SWEL1-169</u>	
Equipment ID No. <u>14MOV-12A</u> Equip. Class <u>8 – Motor-Operated V</u>	/alves
Equipment Description Core Spray Loop A INBD Isolation 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	
 Are soft targets free from impact by nearby equipment or structures? The soft targets are free from impact by nearby equipments 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□
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 free of potentially adverse seismic interaction effects?	Y⊠ N□ U□

The equipments is free of potentially adverse seismic interaction

effects.

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 3 of 4	The state of the s
Seismic Walkdown Checklist (SWC) SWEL1-169	Status: Y⊠ N□ U□
Equipment ID No. 14MOV-12A Equip. Class 8 - Motor-Operation	tod Valvas
	leu vaives
Equipment Description Core Spray Loop A INBD Isolation Valve	
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)	
•	
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of 10 Van	
Evaluated by: <u>Donald Koberg</u>	Date: <u>9/25/12</u>
Evaluated by: <u>Donald Koberg</u> Sandle Why	
Pouria Pourghobadi	9/25/12

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SEISMIC WALKDOWN CHECKLIST FORM

Sheet 4 of 4

Status: Y⊠ N□ U□

Seismic Walkdown Checklist (SWC) <u>SWEL1-169</u>

Equipment ID No. <u>14MOV-12A</u> Equip. Class <u>8 – Motor-Operated Valves</u>

Equipment Description Core Spray Loop A INBD Isolation Valve

Photographs





Note: <u>14MOV-12A</u>

Note: <u>14MOV-12A</u>

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 1 of 5	
Seismic Walkdown Checklist (SWC) <u>SWEL1- 171</u>	Status: Y⊠ N□ U□
Equipment ID No. 14P-1A Equip. Class 1 6-Vertical pump	
Equipment Description Core Spray Pump A	
Location: Bldg. RB Floor El. 226 Room, Area Col 4	
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□
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 end of bolts and on base plate and botton pump. Not an adverse seismic condition.	n of
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Y⊠ N□ U□ N/A□
No crackes detected.	

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 5	
	Status: Y⊠ N⊟ U⊟
Seismic Walkdown Checklist (SWC) SWEL1- 171	
Equipment ID No. <u>14P-1A</u> Equip. Class <u>6-Vertical pump</u>	
Equipment Description Core Spray Pump A	
 Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) 	Y⊠ N□ U□ N/A□
The anchorage configuration is consistent with DWG. No. 2.14-6.	
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	Y⊠ N□ U□
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□
	•
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	Y⊠ N□ U□ N/A□
	·
Do attached lines have adequate flexibility to avoid damage?	Y⊠ N□ U□ N/A□
2" attached flexible conduits and hose have adequate flexibility. Other attached lines are well supported to the pump and no deferential movement.	
10. Based on the above seismic interaction evaluations, is equipment free	Y⊠ N□ U□

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 3 of 5	
	Status: Y⊠ N⊟ U⊟
Seismic Walkdown Checklist (SWC) SWEL1- 171	
Equipment ID No. <u>14P-1A</u> Equip. Class <u>6-Vertical pum</u>	p ·
Equipment Description Core Spray Pump A	<u> </u>
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)	
	•
Evaluated by: R. Casella	Date: <u>11/01/2012</u>
Robert S. Kester	11/01/2012

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Sheet 4 of 5

Status: Y⊠ N□ U□

Seismic Walkdown Checklist (SWC) SWEL1- 171

Equipment ID No. <u>14P-1A</u> Equip. Class <u>6-Vertical pump</u>

Equipment Description Core Spray Pump A

Photographs



Note: <u>14P-1A</u>



Note: <u>14P-1A</u>

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Sheet 5 of 5

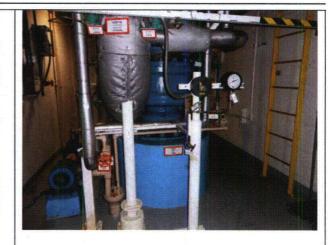
Status: Y⊠ N□ U□

Seismic Walkdown Checklist (SWC) SWEL1- 171

Equipment ID No. <u>14P-1A</u> Equip. Class <u>6-Vertical pump</u>

Equipment Description Core Spray Pump A





Note: <u>14P-1A</u>

Note: <u>14P-1A</u>

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ATTACHMENT 9.6	EISMIC WALKDOWN CHECKLIST FOR
Sheet 1 of 5	
	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) <u>SWEL1- 172</u>	
Equipment ID No. <u>16-1RTD-131A</u> Equip. Class¹ <u>19 Temperature S</u>	Sensor
Equipment Description Torus Bulk Temp Monitor	
Location: Bldg. <u>SU</u> Floor El. <u>227</u> Room, Area <u>Col 4 Lin</u>	ne P
Manufacturer, Model, Etc. (optional but recommended)	
Instructions for Completing Chaptelist	

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

oxidation?

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

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.

Y⊠ N□ U□ N/A□

 $Y \boxtimes N \square U \square$

ATTACHMENT 9.6 SE	SMIC WALKDOWN CHECKLIST FORM
Sheet 2 of 5	
Seismic Walkdown Checklist (SWC)SWEL1- 172	Status: Y⊠ N☐ U☐
Equipment ID No. <u>16-1RTD-131A</u> Equip. Class <u>19 Temperature Se</u>	nsor
Equipment Description Torus Bulk Temp Monitor	
 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	
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?	i, Y⊠ N□ U□ N/A□

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

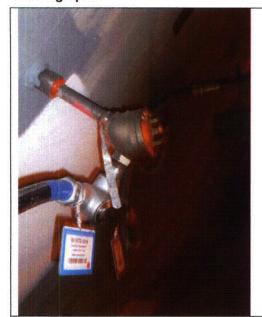
of potentially adverse seismic interaction effects?

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

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 3 of 5	
	Status: Y⊠ N⊟ U⊟
Seismic Walkdown Checklist (SWC) SWEL1- 172	
Equipment ID No. <u>16-1RTD-131A</u> Equip. Class <u>19 Temperature</u>	e Sensor
Equipment Description Torus Bulk Temp Monitor	
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)	
$D \cap O$	
Evaluated by: R. Casella	Date: <u>11/01/2012</u>
R. S. Kester	11/01/2012

ATTACHMENT 9.6			SE	ISMIC WALKDOWN CHECKLIST FOR
Sheet 4 of 5				
				Status: Y⊠ N□ U□
Seismic Walkdo	wn Checklist (SWC) <u>SWEL1- 17</u>	72	
Equipment ID No.	16-1RTD-131A	_ Equip. Class_	19 Temperature Se	ensor
Equipment Descrip	tion <i>Torus Bulk Temp</i>	Monitor	ACCESSOR 1.1. C.	

Photographs



Note: <u>16-1RTD-131A</u>



Note: <u>16-1RTD-131A</u>

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Sheet 5 of 5

Status: Y⊠ N□ U□

Seismic Walkdown Checklist (SWC) SWEL1- 172

Equipment ID No. <u>16-1RTD-131A</u> Equip. Class <u>19 Temperature Sensor</u>

Equipment Description Torus Bulk Temp Monitor





Note: 16-1RTD-131A

Note: <u>16-1RTD-131A</u>

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ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 1 of 4 Seismic Walkdown Checklist (SWC)SWEL1-209	Status: Y⊠ N□ U□
Equipment ID No. 23AOV-53 Equip. Class ¹ 7 – Pneumatic-C	Operated Valves
Equipment Description <u>HPCI Turbine Steam Supply Drain Trap T-3 Bypas</u>	ss Valve
Location: Bldg. <u>RB</u> Floor El. <u>227.6</u> Room, Area <u>Col 1 Li</u>	ine Y
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 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)? This SWEL item is an inline valve. 	one Y□ N⊠
Is the anchorage free of bent, broken, missing or loose hardware? This SWEL item is an inline valve.	Y□ N□ U□ N/A፟፟፟፟፟
Is the anchorage free of corrosion that is more than mild surface oxidation?	Y□ N□ U□ N/A⊠
This SWEL item is an inline valve.	
Is the anchorage free of visible cracks in the concrete near the anchors?	Y□ N□ U□ N/A⊠
This CMEL item is an inline value	

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

ATTACHMENT 9.6 SEISI	MIC WA	LKDO\	WN CHE	CKLIS	FORM
Sheet 2 of 4 Seismic Walkdown Checklist (SWC) <u>SWEL1-209</u>	St	atus:	Y⊠́	N	U <u></u>
Equipment ID No. 23AOV-53 Equip. Class_7 – Pneumatic-Operation	ted Val	ves			
Equipment Description HPCI Turbine Steam Supply Drain Trap T-3 Bypass Va					
 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.) 		N_	U <u></u> I	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? 1.5 in. conduit running close to the air pipe(at about 2" distance). Temporary scaffolding is erected at the area above the valve in support of the outage. The scaffolding appears to be well supported and is controlled in accordance with EN-MA-133.	Y⊠	N	U <u> </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 installations have adequate support.	Y⊠	N <u></u>	U <u></u>	N/A□	
 Do attached lines have adequate flexibility to avoid damage? Attached lines have adequate flexibility. 	Y⊠	N□	U <u> </u>	N/A	
			•		
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	Υ⊠	N□	U_		

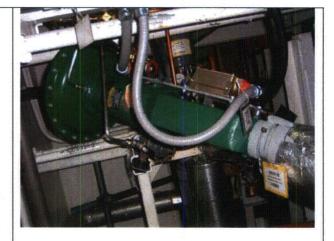
ATTACHMENT 9.6 SEISMIC WALKDOWN CHECKL	
Sheet 3 of 4	
	Status: Y⊠ N⊟ U⊟
Seismic Walkdown Checklist (SWC) <u>SWEL1-209</u>	
Equipment ID No. <u>23AOV-53</u> Equip. Class <u>7 – Pneumatic-</u>	Operated Valves
Equipment Description HPCI Turbine Steam Supply Drain Trap T-3 Bypa	ass Valve
Other Adverse Conditions	
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) Valve is mounted in a cantilever position off the pipe. The design properties configuration.	package EC-11595 approves this
Evaluated by: <u>Donald Koberg</u> Soneld Why	Date: <u>9/21/12</u>
Pouria Pourghobadi	Date: 9/21/12

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 4 of 4	
	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) <u>SWEL1-20</u>	
Equipment ID No. 23AOV-53 Equip. Class	7 – Pneumatic-Operated Valves

Equipment Description HPCI Turbine Steam Supply Drain Trap T-3 Bypass Valve

Photographs





Note: <u>23AOV-53</u>

Note: <u>23AOV-53</u>

Rev. 0 Page 123 of 573 **ATTACHMENT 9.6** SEISMIC WALKDOWN CHECKLIST FORM

Sheet 1 of 4	·
	Status: Y⊠ N□ U⊡
Seismic Walkdown Checklist (SWC) <u>SWEL1-210</u>	
Equipment ID No. 23E-2 Equip. Class 21 – Tanks and Heat	Exchangers
Equipment Description HPCI Lube Oil Cooler	
Location: Bldg. <u>RB</u> Floor El. <u>227.6</u> Room, Area <u>Column 1 Lir</u>	ne T
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?	Y⊠ N□ U□ N/A□
The anchorage is intact and free of any bent,broken 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 any corrosion	
	,
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Y□ N□ U□ N/A⊠
The tank is not installed onto concrete.	

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

ATTACHMENT 9.6 SEIS	MIC WAL	KDOWN C	HECKLIST FOR
Sheet 2 of 4 Seismic Walkdown Checklist (SWC) <u>SWEL1-210</u>	Sta	itus: Y⊠] N□ U□
Equipment ID No. 23E-2 Equip. Class 21 – Tanks and Heat	Exchan	gers	
Equipment Description HPCI 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□ 1	N U	N/A⊠
Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	1 🖾Y	N U	
		•	
Interaction Effects			
7. Are soft targets free from impact by nearby equipment or structures? The soft targets are free of any impact by nearby equipments	Y⊠ 1	N UU	N/A
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Unistrut are supporting conduit with an unsupported span which exceeds the allow un supported span and can have potential threat. The resolution to this potentially adverse seismic condition is tracked through CR-JAF-2012-07990	1 □Y	N⊠ U□	N/A
9. Do attached lines have adequate flexibility to avoid damage?	Y⊠ I	N U	N/A
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? An adverse seismic interaction effect may be present. Refer to Q. 8.	Y□ I	N⊠ U□	•

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 3 of 4	
	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) SWEL1-210	
Equipment ID No. 23E-2 Equip. Class 21 – Tanks and	Heat Exchangers
Equipment Description HPCI Lube Oil Cooler	
Other Adverse Conditions	
11. Have you looked for and found no other seismic conditions that con adversely affect the safety functions of the equipment?	uld Y⊠ N□ U□
Comments (Additional pages may be added as necessary)	
	·.
Evaluated by: <u>Donald Koberg</u> Sandle Why	Date: 9/21/12
Pouria Pourghobadi	9/21/12

Rev. 0

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ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 4 of 4

Status: Y⊠ N□ U□

Seismic Walkdown Checklist (SWC) <u>SWEL1-210</u>

Equipment ID No. 23E-2 Equip. Class 21 – Tanks and Heat Exchangers

Equipment Description HPCI Lube Oil Cooler

Photographs



Note: HPCI Lube Oil Cooler



Note: Two P1001 conduits with unsupported span of ~21 ft, supported several conduits, junction box and smoke detector.

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 1 of 4	
Seismic Walkdown Checklist (SWC) <u>SWEL1-213</u>	Status: Y⊠ N□ U□
Equipment ID No. 23HOV-1 Equip. Class¹ 07-Pnuematic O	perated Valves
Equipment Description HPCI Turbine Steam Supply Stop Valve	····
Location: Bldg. RB Floor El. 227.6 Room, Area Col1 Lin	ne T
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⊠
 Is the anchorage free of bent, broken, missing or loose hardware? The items 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.	
Is the anchorage free of visible cracks in the concrete near the anchors?	Y□ N□ U□ N/A⊠
The item is an inline valve.	

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>SWEL1-213</u>	Status: Y⊠ N□ U□
Equipment ID No. 23HOV-1 Equip. Class 07- Fluid Operated Vi	alves
Equipment Description HPCI Turbine Steam Supply Stop 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? There are no soft targets on this item.	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? Potentially inadequately P1001 unistruts with unsupported span of ~21	Y□ N⊠ U□ N/A□ -
feet above the valve. The resolution to this potentially adverse seismic condition is tracked through CR-JAF-2012-07990	
Do attached lines have adequate flexibility to avoid damage? The attached lines have adequate flexibility.	Y⊠ N□ U□ N/A□
anadica inico nara adoquato noniomiy.	
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	Y□ N⊠ U□
An adverse seismic interaction effect may be present. Refer to O. 8.	•

Attachment C

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ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM	
Sheet 3 of 4		
	Status: Y⊠ N⊟ U⊟	
Seismic Walkdown Checklist (SWC) <u>SWEL1-213</u>		
Equipment ID No. 23HOV-1 Equip. Class 07-Pnuema	tic Operated Valves	
Equipment Description HPCI Turbine Steam Supply Stop Valve		
Other Adverse Conditions		
11. Have you looked for and found no other seismic conditions tha adversely affect the safety functions of the equipment?	at could Y⊠ N□ U□	
Comments (Additional pages may be added as necessary)		
The adequacy of unistruts supporting the conduits should be e	evaluated.	
	-	
•		
Evaluated by: Donald Koberg Danald Why	Date: <u>9/21/12</u>	
Pouria Pourghobadi	9/21/12	

Sheet 4 of 4

Status: Y⊠ N□ U□

Seismic Walkdown Checklist (SWC) SWEL1-213

Equipment ID No. 23HOV-1 Equip. Class 07-Pnuematic Operated Valves

Equipment Description HPCI Turbine Steam Supply Stop Valve

Photographs





Note: <u>23HOV-1</u>

Note: <u>23HOV-1</u>

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 1 of 4	
	Status: Y⊠ N⊟ U⊟
Seismic Walkdown Checklist (SWC) <u>SWEL1-217</u>	. — . —
Equipment ID No. 23LT-202A Equip. Class 1 18 - Instrument	Racks
Equipment Description Suppression Pool HPCI Logic Level Transmitter	·.
Location: Bldg. RB Floor El. 227 Room, Area Col. 4.5	i, Line A
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 docum	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□
	•
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□
Anchorage is free of visible cracks in the concrete near the anchors	5.

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

Engineering Report No. JAF-RPT-12-00015 Rev. 0 Page 132 of 573

ATTACHMENT 9.6 Se	EISMIC WALKDOWN CHECKLIST FORM
Sheet 2 of 4	
Seismic Walkdown Checklist (SWC) <u>SWEL1-217</u>	Status: Y⊠ N□ U□
Equipment ID No. 23LT-202A Equip. Class_18 - Instrument Ra	acks
Equipment Description Suppression Pool HPCI Logic Level Transmitter	
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 23LT-202A (Rev. 0, and DWG. No. 7.31-193. The transmitter is anchored to an r/c wall with four ½" expansion anchors.	
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 lightin 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 fre of potentially adverse seismic interaction effects?	e Y⊠ N□ U□

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 3 of 4	
	Status: Y⊠ N⊟ U⊟
Seismic Walkdown Checklist (SWC) <u>SWEL1</u>	-217
Equipment ID No. 23LT-202A Equip. Cla	ass_18 – Instrument Racks
Equipment Description Suppression Pool HPCI Logic	Level Transmitter
Other Adverse Conditions	
Have you looked for and found no other seism adversely affect the safety functions of the equal to the safety functions of the equal to the safety functions.	
Comments (Additional pages may be added as neces	ssary)
,	
2/ 1/ 2//	
Evaluated by: Donald Koberg Small Why	Date: 9/24/12
Rugh	
Pouria Pourghohadi	9/24/12

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 4 of 4 Seismic Walkdown Checklist (SWC)SWEL1-217	Status: Y⊠ N⊡ U⊡
Equipment ID No. 23LT-202A Equip. Class 18 – Instrument	Racks
Equipment Description Suppression Pool HPCI Logic Level Transmitter	
Photographs	
Note: 23LT-202A Mounted in center of the picture Note:	

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 1 of 4	
	Status: Y⊠ N⊟ U⊟
Seismic Walkdown Checklist (SWC) <u>SWEL1-219</u>	
Equipment ID No. 23MOV-14 Equip. Class 1 08 - Motor-Op	perated Valves
Equipment Description HPCI Turbine Steam Inlet Isolation Valve	
Location: Bldg. <u>RB</u> Floor El. <u>227.6</u> Room, Area <u>Col 1</u>	Line T
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 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.	•

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

The state of the s	MIC WALKDOWN CHECKLIST FORM
Sheet 2 of 4	
Seismic Walkdown Checklist (SWC) SWEL1-219	Status: Y⊠ N□ U□
Equipment ID No. 23MOV-14 Equip. Class 08 – Motor-Operated	Valves
Equipment Description HPCI Turbine Steam Inlet Isolation 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	
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? Overhead equipments and distribution systems, ceilings and tiles, etc are well supported.	Y⊠ N□ U□ N/A□
 Do attached lines have adequate flexibility to avoid damage? 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□

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 3 of 4	
	Status: Y⊠ N⊟ U⊟
Seismic Walkdown Checklist (SWC) <u>SWEL1-219</u>	
Equipment ID No. 23MOV-14 Equip. Class 08 – Motor-Op	erated Valves
Equipment Description HPCI Turbine Steam Inlet Isolation Valve	· · · · · · · · · · · · · · · · · · ·
Other Adverse Conditions	
Have you looked for and found no other seismic conditions that conditions adversely affect the safety functions of the equipment?	ould Y⊠ N□ U□
	·
Comments (Additional pages may be added as necessary)	
Evaluated by: Donald Koberg Donald Why	Date: <u>9/21/12</u>
Pouria Pourghobadi	9/21/12

ATTACHMENT 9.6	SEISMI	C WALKDOWN CHECKLIST FO
Sheet 4 of 4		
		Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) <u>SWEL1-219</u>		
Equipment ID No. 23MOV-14 Equip. Class 08 – Motor-Ope	erated V	'alves
Equipment Description HPCI Turbine Steam Inlet Isolation Valve		
Photographs		
Note: <u>23MOV-14</u> Note:		

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 1 of 5	· · · · · · · · · · · · · · · · · · ·
Seismic Walkdown Checklist (SWC) SWEL 1-232	Status: Y⊠ N□ U□
Equipment ID No. 23P-150 Equip. Class¹ 05 ~ Horizontal	Pump
Equipment Description HPCI Turbine Auxiliary Lube Oil Pump	
Location: Bldg. <u>RB</u> Floor El. <u>227.6</u> Room, Area <u>Col1 Li</u>	ne 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 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 anchorage is intact and free of any broken, bent or missing 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 rust.	
Is the anchorage free of visible cracks in the concrete near the anchors?	Y⊠ N□ U□ N/A□
No cracks are visible in the concrete	

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

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 2 of 5	
Seismic Walkdown Checklist (SWC) SWEL 1-232	Status: Y⊠ N□ U□
Equipment ID No. <u>23P-150</u> Equip. Class <u>05 – Horizontal</u>	l Pump
Equipment Description HPCI Turbine Auxiliary Lube Oil Pump	
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.) The pump is supported with 4-1/2" CIP bolts to 23TU-2 skid. The anchorage configuration is consistent with SEWS for 23P-150 Revand DWG. No. 2.03-2 and DWG. NO. 2.03-2.	which
6. Based on the above anchorage evaluations, is the anchorage free potentially adverse seismic conditions?	e of Y⊠ N□ U□
Interaction Effects	
7. Are soft targets free from impact by nearby equipment or structure	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 Two overhead P1001 unistruts supporting conduits, junction box a smoke detectors have unsupported span which exceeds the sugg span. The resolution to this potentially adverse seismic condition in tracked through CR-JAF-2012-07990. 	? and pested
 Do attached lines have adequate flexibility to avoid damage? Attached lines do have adequate flexibility. 	Y⊠ N□ U□ N/A□
10. Based on the above seismic interaction evaluations, is equipment of potentially adverse seismic interaction effects?	t free Y□ N⊠ U□
A potentially adverse seismic interaction effect may be present. R	Refer

ATTACHMENT 9.6		S	EISMIC WALKDOWN CHECKLIST FOR
Sheet 3 of 5			•
		,	Status: Y⊠ N□ U□
Seismic Walkdown Check	list (SWC) <u>SWEL</u>	1-232	
Equipment ID No. 23P-150	Equip. C	lass <u>05 – Horizontal Pu</u>	ımp
Equipment Description HPCI	Turbine Auxiliary Lube	Oil Pump	
Other Adverse Conditions			
Have you looked for an adversely affect the safe			Y⊠ N□ U□
<u> </u>			
Comments (Additional pages	may be added as nec	essary)	
\		•	,
•			
	·		
			•
			•
Evaluated by: <u>Donald Koberg</u>	N 10 VL		
Evaluated by: Donald Koberg	Daniel My	·	Date: <u>9/21/12</u>
Pouria Pourahol	hadi Territo		0/21/12

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 4 of 5

Status: Y⊠ N□ U□

Seismic Walkdown Checklist (SWC) SWEL 1-232

Equipment ID No. 23P-150 Equip. Class 05 – Horizontal Pump

Equipment Description HPCI Turbine Auxiliary Lube Oil Pump

Photographs





Note: 23P-150 pump and the motor

Note: Anchorage bolts for 23P-150

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 5 of 5	
	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) SWEL 1-232	
Equipment ID No. 23P-150 Equip. Class 05 – Hor	izontal Pump
Equipment Description HPCI Turbine Auxiliary Lube Oil Pump	
Note: Two P1001 unistruts supporting overhead conduits, junction box and smoke detector.	

ATTACHMENT 9.6	EISMIC WALKDOWN CHECKLIST FORM
Sheet 1 of 4	
	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) <u>SWEL1-234</u>	
Equipment ID No. 23P-1M Equip. Class 1 05 – Horizontal P	umps
Equipment Description HPCI Main Pump	
Location: Bldg. RB Floor El. 227.6 Room, Area Col 1Line	9 <i>T</i>
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□
Is the anchorage free of bent, broken, missing or loose hardware?The anchorage is intact and free of any bent.	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 anchors?	Y⊠ N□ U□ N/A□
There are minor surface hairline cracks visible near 3 of the anchora bolts. These cracks are not identified as deficiency to the seismic adequacy of the anchorage.	ge

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

ATTACHMENT 9.6 SEISMIC WALKDOWN CHECKLIS		
Sheet 2 of 4		
	Status: Y⊠ N⊟ U⊟	
Seismic Walkdown Checklist (SWC) <u>SWEL1-234</u>		
Equipment ID No. 23P-1M Equip. Class 05 – Horizontal Pum	ps	
Equipment Description HPCI Main Pump		
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 was as indicated in DWG. No. FC-20D	Y⊠ N□ U□ N/A□	
Based on the above anchorage evaluations, is the anchorage free of	Y⊠ N□ U□	
potentially adverse seismic conditions?		
Interaction Effects		
7. Are soft targets free from impact by nearby equipment or structures?	Y□ N⊠ U□ N/A□	
Two P1001unistrusts supporting the overhead conduits, junction box and smoke detector have an unsupported span which exceeds the suggested span. The resolution to this potentially adverse seismic condition is tracked through CR-JAF-2012-07990.	TO NO SO WAD	
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	Y NU UNA	
Two P1001unistrusts supporting the overhead conduits, junction box and smoke detector have an unsupported span which exceeds the suggested span. The resolution to this potentially adverse seismic		
condition is tracked through CR-JAF-2012-07990.		
9. 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 o potentially adverse seismic interaction effects?	f Y□ N⊠ U□	
A potentially adverse seismic condition may be present. Refer to Q.7		

ATTACHMENT 9.6	S	SEISMIC WALKDOWN CHE	CKLIST FORM
Sheet 3 of 4			
Octobrito Walledown Charlette (OWC) - OWE	. 4 024	Status: Y⊠	N U
Seismic Walkdown Checklist (SWC) <u>SWE</u>	<u>L1-234</u>		·
Equipment ID No. 23P-1M Equip.	Class <u>05 – Horizontal Pt</u>	umps	
Equipment Description <u>HPCI Main Pump</u>		··········	
Other Adverse Conditions			
11. Have you looked for and found no other seis adversely affect the safety functions of the e		d Y⊠N□U□	
		.*	
Comments (Additional pages may be added as need	cessary)		
N. Committee of the Com			
26.00			
Evaluated by: Donald Koberg Sandal Why	<u> </u>	Date: <u>9/21/12</u>	
Pouria Pourahobadi Pry	U.	0/21/12	

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 4 of 4

Status: Y⊠ N□ U□

Seismic Walkdown Checklist (SWC) <u>SWEL1-234</u>

Equipment ID No. 23P-1M Equip. Class 05 – Horizontal Pumps

Equipment Description HPCI Main Pump

Photographs





Note: 23P-1M Pump

Note: Minor cracks on the concrete pedestal. They were determined not to pose any threat to seismic adequacy of the structure.

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 1 of 5	
	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) <u>SWEL1-243</u>	
Equipment ID No. 23TK-1 Equip. Class 21 – Tank and	Heat Exchangers
Equipment Description HPCI Lube Oil Sump	
Location: Bldg. RB Floor El. 227.6 Room, Area Column	n 1 Line 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 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? 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 anchors?	Y⊠ N□ U□ N/A□

The anchorage is free of visible cracks in the concrete.

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

ATTACHMENT 9.6 SEISI	NIC WA	LKDO	WN C	IECKLIS	T FOR
Sheet 2 of 5					
Seismic Walkdown Checklist (SWC) <u>SWEL1-243</u>	St	atus:	Υ⊠	N□	U
Equipment ID No. 23TK-1 Equip. Class 21 – Tank and Heat E	xchan	gers			_
Equipment Description HPCI Lube Oil Sump				,	
 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.) 	Υ□	N	U	N/A⊠	
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	Υ⊠	N□	U		•
				. ""	
Interaction Effects			,		
 Are soft targets free from impact by nearby equipment or structures? The soft targets are free impact by nearby equipment or structures. 	Y⊠	N	U□	N/A	r.
Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	Υ□	N⊠	U	N/A	
Potentially inadequately P1001 unistruts with unsupported span of ~21 feet above the valve. The resolution to this potentially adverse seismic condition is tracked through LB-01.					
 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?	Υ□	N⊠	U[]		
A potentially adverse seismic interaction effect may exist. Refer to Q. 8.					

ATTACHMENT 9.6			SEISM	MIC WALKDOWN CHE	CKLIST FORM
Sheet 3 of 5			<u> </u>	1	
				Status: Y⊠ l	N U
Seismic Walkdown Che	cklist (SWC)	SWEL1-243	•		
Equipment ID No. 23TK-	<u>1</u> Ec	quip. Class <u> 21 – Ta</u>	nk and Heat E	xchangers	,
Equipment Description <u>HF</u>	PCI Lube Oil Sump	•			
Other Adverse Conditions	<u> </u>				
Have you looked for adversely affect the Review conduit unis	r and found no othe safety functions of	the equipment?	s that could	Y⊠ N□ U□	
Comments (Additional pag	es may be added a	as necessary)			
	,	•,			
	-				
,					
		• .	•		
÷	•	•			
· 	<u> </u>			·	
Evaluated by: <u>Donald Kobe</u>	erg Donald is	Why		Date: <u>9/23/12</u>	
		11.		. — —	
Pouria Pour	ghobadi 7	y		9/23/12	

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 4 of 5

Status: Y⊠ N□ U□

Seismic Walkdown Checklist (SWC) SWEL1-243

Equipment ID No. 23TK-1 Equip. Class 21 – Tank and Heat Exchangers

Equipment Description HPCI Lube Oil Sump

Photographs



Note: 23TK-1 HPCI Lube Oil Sump



Note: P1001 unistruts supporting the overhead conduits, can have a potential seismic interaction effect.

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 5 of 5	
	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) SWEL1-243	stementa superport
Equipment ID No. 23TK-1 Equip. Class 21 – Tank and	Heat Exchangers
Equipment Description HPCI Lube Oil Sump	
Note: Over head P1001 unistruts supporting conduits and junction box.	F
	-

ATTACHMENT 9.6	ISMIC WALKDOWN CHECKLIST FORM
Sheet 1 of 5	
Seismic Walkdown Checklist (SWC) <u>SWEL1-314</u>	Status: Y⊠ N□ U□
Equipment ID No. <u>27SOV-131A</u> Equip. Class <u>Solenoid Operated</u>	Valves
Equipment Description CAD TRAIN A NITROGEN MAKE-UP ISOL VALVES	SOLENOID VALVE EQ
Location: Bldg. <u>SU</u> Floor El. <u>260</u> Room, Area <u>Col. 2 Line</u>	e T
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	,
 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 item is a valve Equalizer. No anchorage.	Y□ N□ U□ N/A⊠
Is the anchorage free of corrosion that is more than mild surface oxidation?	Y□ N□ U□ N/A⊠
The item is a valve Equalizer. No anchorage.	
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Y□ N□ U□ N/A⊠
The item is a valve Equalizer. No anchorage.	,

ATTACHMENT 9.6 SEI	SMIC WALKDOWN CHECKLIST FOR
Sheet 2 of 5	
Seismic Walkdown Checklist (SWC) <u>SWEL1-314</u>	Status: Y⊠ N□ U□
Equipment ID No. 27SOV-131A Equip. Class Solenoid Operated	Valves
Equipment Description CAD TRAIN A NITROGEN MAKE-UP ISOL VALVE S	SOLENOID VALVE EQ
 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
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?	i, 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 5	
	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) <u>SWEL1-314</u>	
Equipment ID No. <u>27SOV-131A</u> Equip. Class <u>Solenoid Operation</u>	ated Valves
Equipment Description CAD TRAIN A NITROGEN MAKE-UP ISOL VAL	VE SOLENOID VALVE EQ
Other Adverse Conditions	
Have you looked for and found no other seismic conditions that conditions adversely affect the safety functions of the equipment?	ould Y⊠ N□ U□
Comments (Additional pages may be added as necessary)	
	•
	,
$D \cap O \cap O$	
Evaluated by: Rick Casella	Date: <u>10-8-12</u>
10, Dand	

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 4 of 5

Status: Y⊠ N□ U□

Seismic Walkdown Checklist (SWC) <u>SWEL1-314</u>

Equipment ID No. 27SOV-131A Equip. Class Solenoid Operated Valves

Equipment Description CAD TRAIN A NITROGEN MAKE-UP ISOL VALVE SOLENOID VALVE EQ

Photographs





Note: 27SOV-131A

Note: 27SOV-131A

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 5 of 5	
Seismic Walkdown Checklist (SWC) <u>SWEL1-314</u>	Status: Y⊠ N□ U□
	-
Equipment ID No. <u>27SOV-131A</u> Equip. Class <u>Sol</u>	
Equipment Description CAD TRAIN A NITROGEN MAKE-UI	P ISOL VALVE SOLENOID VALVE EQ
\$ 3	
Note: 27SOV-131A	te:

ATTACHMENT 9.6 SEISMIC WALKDOWN CHECKLIST FOR
Sheet 1 of 4
Status: Y N U U Seismic Walkdown Checklist (SWC) SWEL1-319
Equipment ID No. 27SOV-145 Equip. Class¹ 08-Solenoid Operated Valves
Equipment Description DW Instr Nitrogen Backup Supply Isolation Valve
Location: Bldg. RB Floor El. 296' Room, Area RB 296', Col. 3, Line RT
Manufacturer, Model, Etc. (optional but recommended)
Instructions for Completing Checklist
This checklist may be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.
Anchorage
 Is the anchorage configuration verification required (i.e., is the item one Y□ N□ of the 50% of SWEL items requiring such verification)? 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□ Inline SWEL item, which does not contain anchorage.
3. Is the anchorage free of corrosion that is more than mild surface y □ N □ U □ N/A □ oxidation? Inline SWEL item, which does not contain anchorage.
4. Is the anchorage free of visible cracks in the concrete near the anchors? Inline SWEL item, which does not contain anchorage. 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>SWEL1-319</u> Equip. Class <u>08-Solenoid Operated Valves</u> Equipment ID No. 27SOV-145 Equipment Description DW Instr Nitrogen Backup Supply Isolation Valve 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.) Inline SWEL item, which does not contain anchorage. Y⊠ N□ U□ 6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Inline SWEL item, which does not contain anchorage. **Interaction Effects** Y□ N□ U□ N/A⊠ 7. Are soft targets free from impact by nearby equipment or structures? There are no soft targets on the equipment. 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? 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□ 9. Do attached lines have adequate flexibility to avoid damage? The lines attached to the SWEL item have adequate flexibility to avoid damage. $Y \boxtimes N \square U \square$ 10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? 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		
Seismic Walkdown Checklist (SWC) <u>SWEL1-319</u>	Status: Y⊠ N□ U□
Equipment ID No. 27SOV-145	Equip. Class <u>08-Solenoid Ope</u>	erated Valves
Equipment Description <u>DW Instr Ni</u>	itrogen Backup Supply Isolation Valve	
adversely affect the safety fu	that could adversely affect the safety	ıld Y⊠ N□ U□
		· · · · · · · · · · · · · · · · · · ·
Comments (Additional pages may I	be added as necessary)	
No additional comments.		
Evaluated by: <u>Harpreet Ghuman</u>	8 Him.	Date: <u>09/26/2012</u>
I al Uslav LUSEV		<u>09/26/2012</u>

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 4 of 4	
	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) <u>SWEL1-</u>	
Equipment ID No. 27SOV-145 Equip. Class	ss_08-Solenoid Operated Valves
Equipment Description DW Instr Nitrogen Backup Sup	ply Isolation Valve
Photographs	
Note: Picture of equipment 27SOV-145.	Note:

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 1 of 4	
Seismic Walkdown Checklist (SWC) <u>SWEL1-333</u>	Status: Y⊠ N□ U□
Equipment ID No. 27TK-7A Equip. Class: 21 – Tanks and	d Heat Exchangers
Equipment Description CAD A Liquid Nitrogen Tank	
Location: Bldg. <u>CB</u> Floor El. <u>271.8</u> Room, Area <u>Col. 0</u>	.5, Line RP
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 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? 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 oxid	ation.
Is the anchorage free of visible cracks in the concrete near the anchors?	Y⊠ N□ U□ N/A□
Minor Hairline cracks in the concrete under both tank saddles, wh not pass through the center line of the bolts.	ich do

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

ATTACHMENT 9.6	EISMIC WALKDOWN CHECKLIST FORM
Sheet 2 of 4	
	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) <u>SWEL1-333</u>	•
Equipment ID No. 27TK-7A Equip. Class 21 – Tanks and H	eat Exchangers
Equipment Description CAD A Liquid Nitrogen Tank	
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.) The anchorage configuration is consistent the SEWS for 27TK-7A (R	
0), DWG. No. 6.29-25 and DWG. No. 6.29-26 The outer tank is welded to a pair of steel saddles; each saddle is anchored to a concr pier with two 1 3/8" CIP bolts.	ete
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 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□
The overhead equipment 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 free of potentially adverse seismic interaction effects?	ee Y⊠ N□ U□
The equipment is free of potentially adverse seismic interaction effection	cts.

⁽ Attachment C

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ATTACHMENT 9.6	SE	ISMIC WALKDOWN CHECKLIST FORM
Sheet 3 of 4		
•		Status: Y⊠ N⊟ U⊟
Seismic Walkdown Checklist (SWC)	SWEL1-333	
Equipment ID No. 27TK-7A	Equip. Class <u>21 – Tanks and He</u>	at Exchangers
Equipment Description CAD A Liquid Nitr	ogen Tank	
Other Adverse Conditions		
Have you looked for and found no adversely affect the safety function		Y⊠ N□ U□
· ·		
Comments (Additional pages may be add	ed as necessary)	
Both nitrogen tanks are missing eq appropriate tags are on control	uipment tags. The issue was discu panels associated with the tanks. N	ssed with operations and No further action required.
•	ì .	
Evaluated by: <u>Donald Koberg</u> Sandle	Who I	
Evaluated by: Donald Koberg		Date: <u>9/26/12</u>
Vorcelay Lossy	cosee	0/26/42

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 4 of 4	
	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) <u>SWEL1-3</u>	
Equipment ID No. 27TK-7A Equip. Class	s_21 – Tanks and Heat Exchangers
Equipment Description CAD A Liquid Nitrogen Tank	
Photographs	
Note: Nitrogen Tank 27TK-7A	Note:
	*3

ATTACHMENT 9.6	EISMIC WALKDOWN CHECKLIST FORM
Sheet 1 of 4	
Caiania Malladana Obaaldia (CMO) - CMELA 225	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) <u>SWEL1-335</u>	
Equipment ID No. 29AC-1A Equip. Class 21-Tanks and He	at Exchangers
Equipment Description <u>MST D Outbd. MSIV Air Accumulator</u>	<u></u>
Location: Bldg. <u>ST</u> Floor El. <u>272'</u> Room, Area <u>ST 252'</u> ,	Col. 6.5, Line T
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)? The item is not one of the 50% of SWEL items requiring anchorage configuration verification. 	ne Y□ N⊠
 Is the anchorage free of bent, broken, missing or loose hardware? The four (4), 1/2" expansion anchors are free of bent, broken, missing or loose hardware. 	Y⊠ N□ U□ N/A□ g
Is the anchorage free of corrosion that is more than mild surface oxidation? Anchorage is 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	л.
Is the anchorage free of visible cracks in the concrete near the anchors?	Y⊠ N□ U□ N/A□
It is unverifiable whether the concrete wall has cracks in it near the anchorage since it is covered by insulation. However, based on not insulated portion of the same wall in close proximity of this compone there are no cracks detected. Therefore, it is judged that no major cracks exist at the anchorage location of the component and that the concrete is acceptable near the anchors.	

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 4	
Seismic Walkdown Checklist (SWC) <u>SWEL1-335</u>	Status: Y⊠ N☐ U☐
Equipment ID No. 29AC-1A Equip. Class 21-Tanks and Heat E.	xchangers
Equipment Description MST D Outbd. MSIV Air Accumulator	·
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□ 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 the 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? 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) <u>SWEL1-335</u>	
Equipment ID No. 29AC-1A Equip. Class 21-Tanks and H	eat Exchangers
Equipment Description MST D Outbd. MSIV Air Accumulator	
Other Adverse Conditions	
11. Have you looked for and found no other seismic conditions that coundiversely affect the safety functions of the equipment?	ıld Y⊠ N□ U□
There is a 1" copper line attached to the SWEL item that is less that 1/8" of clearance between a handrail and a P1000 UNISTRUT. However, this could be considered beneficial, since at the points for which the copper line may come into contact with the handrails during seismic event, the handrails will provide support in one direction where will restrict the deflection of the copper line and reduce stress on	r ing a
supports on the same line.	
Comments (Additional pages may be added as necessary)	
No additional comments.	
	,
<u> </u>	<u></u>
Evaluated by: Harpreet Ghuman H8 24	Date: <u>10/01/2012</u>
Yaroslav Losev	10/01/2012

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 4 of 4

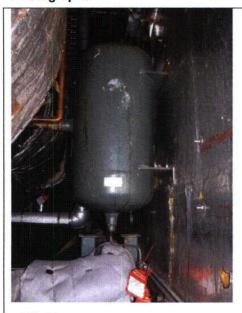
Status: Y⊠ N□ U□

Seismic Walkdown Checklist (SWC) <u>SWEL1-335</u>

Equipment ID No. 29AC-1A Equip. Class 21-Tanks and Heat Exchangers

Equipment Description MST D Outbd. MSIV Air Accumulator

Photographs



Note: Picture of equipment 29AC-1A.



Note: Picture of the copper line bearing close to the handrails.

Y□ N□ U□ N/A⊠

SEISMIC WALKDOWN CHECKLIST FORM ATTACHMENT 9.6 Sheet 1 of 5 Status: Y⊠ N□ U□ Seismic Walkdown Checklist (SWC) __SWEL1-336 Equipment ID No. 29AC-1B Equip. Class Tanks and heat exchangers Equipment Description MST "A" Inbd N2/ Air accumulator Room, Area Drywell, North Side Col. 5.5 Floor El. <u>269</u> Location: Bldg. PC 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? Welded anchorage Discontinuous weld on liner side, lower plate. Not an adverse seismic condition. Discontinuous weld on RPV side, upper plate. Not an adverse seismic condition. Y⊠ N□ U□ N/A□ 3. Is the anchorage free of corrosion that is more than mild surface oxidation? Anchorage is free of corrosion.

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

SWEL item is welded to a steel column, no visible concrete cracking

anchors?

near anchorage.

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 2 of 5	,
Seismic Walkdown Checklist (SWC) <u>SWEL1-336</u>	Status: Y⊠ N□ U□
Equipment ID No. 29AC-1B Equip. Class Tanks and heat	exchangers
Equipment Description MST "A" Inbd N2/ Air accumulator	
 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.) Refer to SEWS 29AC-1B and 29AC-1A. 	
 Based on the above anchorage evaluations, is the anchorage free optentially adverse seismic conditions? There is sufficient weld available to ensure no adverse seismic conditions exist. 	of Y⊠ N□ U□
Interaction Effects)
7. Are soft targets free from impact by nearby equipment or structures	s? Y□ N□ U□ N/A⊠
8. Are overhead equipment, distribution systems, ceiling tiles and ligh and masonry block walls not likely to collapse onto the equipment?	
Do attached lines have adequate flexibility to avoid damage?	Y⊠ N□ U□ N/A□
10. Based on the above seismic interaction evaluations, is equipment to	free Y⊠ N⊟ U⊟

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 3 of 5	
	Status: Y⊠ N⊟ U⊟
Seismic Walkdown Checklist (SWC) <u>SWEL1-336</u>	
Equipment ID No. 29AC-1B Equip. Class Tanks and heat	exchangers
Equipment Description MST "A" Inbd N2/ Air accumulator	
Other Adverse Conditions	
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)	•
No additional comments.	
Rich Casella	
Evaluated by: Rick Casella	Date: <u>9-28-12</u>
Alan Porch	9-28-12

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 4 of 5

Status: Y⊠ N□ U□

Seismic Walkdown Checklist (SWC) <u>SWEL1-336</u>

Equipment ID No. 29AC-1B Equip. Class Tanks and heat exchangers

Equipment Description MST "A" Inbd N2/ Air accumulator

Photographs





Note: 29AC-1B (The date provided on the bottom right cornet is not correct the date that the picture was taken. Malfunction with camera setting)

Note: 29AC-1B view of welded anchorage (The date provided on the bottom right cornet is not correct the date that the picture was taken. Malfunction with camera setting)

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ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 5 of 5	
	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) <u>SWEL1-336</u>	_
Equipment ID No. 29AC-1B Equip. Class Tanks	and heat exchangers
Equipment Description MST "A" Inbd N2/ Air accumulator	
Note: 29AC-1B showing discontinuous weld pattern (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	ISMIC WALKDOWN CHECKLIST FORM
Sheet 1 of 5	TALKBOWN ONLONGOT I ONLY
Seismic Walkdown Checklist (SWC) <u>SWEL1-343</u>	Status: Y⊠ N□ U□
Equipment ID No. 29AOV-80A Equip. Class Pneumatic-operate	d valves
Equipment Description MST A Inbd Main Steam Isol Valve	
Location: Bldg. PC Floor El. 269 Room, Area Drywell, N	lorth Side Col 5.5
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	. /
1. Is the anchorage configuration verification required (i.e., is the item on of the 50% of SWEL items requiring such verification)?	e Y□ N⊠
 Is the anchorage free of bent, broken, missing or loose hardware? The item is an inline valve. 	Y□ N□ U□ N/A⊠
Is the anchorage free of corrosion that is more than mild surface oxidation? The item is an inline valve.	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 item is an inline valve.	

ATTACHMENT 9.6 SEISI	MIC WALKDOWN CHECKLIST FORM
Sheet 2 of 5	
Seismic Walkdown Checklist (SWC) <u>SWEL1-343</u>	Status: Y⊠ N□ U□
Equipment ID No. 29AOV-80A Equip. Class_Pneumatic-operated v	valves
Equipment Description MST A Inbd Main Steam Isol Valve	
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⊠
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? 1 ½" conduit is flexible. There is approximately a 1-1/2" clearance with 3/8" SS tubing to SOV on actuator	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? Yes. In a seismic event, the flexible 1-1/2" conduit noted in Item 7 will not result in adverse seismic interaction with the 3/8" tubing to the SOV.	Y⊠ N□ U□

ATTACHMENT 9.6 SEISMIC WALKDOWN CHECK	
Sheet 3 of 5 Seismic Walkdown Checklist (SWC) SWEL1-343	Status: Y⊠ N☐ U☐
Equipment ID No. 29AOV-80A Equip. Class Pneumatic-ope	rated valves
Equipment Description MST A Inbd Main Steam Isol Valve	
Other Adverse Conditions 11. Have you looked for and found no other seismic conditions that conditions adversely affect the safety functions of the equipment?	ould Y⊠ N□ U□
Comments (Additional pages may be added as necessary) No additional comments.	
Evaluated by: Rick Casella Rick Casella Alan Porch	Date: <u>9-28-12</u> 9-28-12

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ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 4 of 5

Status: Y⊠ N□ U□

Seismic Walkdown Checklist (SWC) SWEL1-343

Equipment ID No. 29AOV-80A Equip. Class Pneumatic-operated valves

Equipment Description MST A Inbd Main Steam Isol Valve

Photographs



Note: 29AOV-80A Actuator



Note: 29AOV-80A

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 5 of 5

Status: Y⊠ N□ U□

Seismic Walkdown Checklist (SWC) <u>SWEL1-343</u>

Equipment ID No. 29AOV-80A Equip. Class Pneumatic-operated valves

Equipment Description MST A Inbd Main Steam Isol Valve





Note: 29AOV-80A

Note: Conduit with 1 1/2" clearance from 3/8"

tubing

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 1 of 4	,
	Status: Y⊠ N⊟ U⊟
Seismic Walkdown Checklist (SWC) <u>SWEL1-347</u>	
Equipment ID No. 29AOV-86A Equip. Class 1 07-Fluid Operate	ed Valves
Equipment Description MST A Outbd Main Steam Isol Valve	
Location: Bldg. <u>ST</u> Floor El. <u>252'</u> Room, Area <u>ST 252</u>	', Col. 5.5, Line T
Manufacturer, Model, Etc. (optional but recommended)	
Instructions for Completing Checklist	
This checklist may be used to document the results of the Seismic Walkdorn 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⊠
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? Inline SWEL item, which does not contain anchorage.	Y□ N□ U□ N/A⊠
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	Y□ N□ U□ N/A⊠
Inline SWEL item, which does not contain anchorage.	
Is the anchorage free of visible cracks in the concrete near the anchors?	Y□ N□ U□ N/A⊠

Inline SWEL item, which does not contain anchorage.

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	
Sciencia Malledaum Chaeleliat (SMC) - SMEL 4-247	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) <u>SWEL1-347</u>	
Equipment ID No. 29AOV-86A Equip. Class 07-Fluid Operate	ed Valves
Equipment Description MST A Outbd Main Steam Isol Valv	
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.) Inline SWEL item, which does not contain anchorage.	
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	of Y⊠ N□ U□
Inline SWEL item, which does not contain anchorage.	
	•
Interaction Effects	
7. Are soft targets free from impact by nearby equipment or structures There are no soft targets on the equipment.	? 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.	iting,
 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□ roid
Based on the above seismic interaction evaluations, is equipment for of potentially adverse seismic interaction effects?	ree Y⊠ N□ U□
Based on the above seismic interaction evaluations, the equipment	t is

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ATTACHMENT 9.6		SEIS	MIC WALKDOWN	CHECKLIST FOR
Sheet 3 of 4		•		
Seismic Walkdown Checklis	t (SWC) <u>SWEL1-3</u>	47	Status: Y	⊠ N□ U□
Equipment ID No. 29AOV-86A	Equip. Class	07-Fluid Operated Va	lves	·
Equipment Description MST A C	Outbd Main Steam Isol \	/alv	·	
Other Adverse Conditions	٠.			
11. Have you looked for and f adversely affect the safety No other seismic condition functions of the equipmen	y functions of the equiprossely	ment? affect the safety	Y⊠ N□ U[
			٠.	<u> </u>
Comments (Additional pages ma	ay be added as necessa	ary)		
No additional comments.	•	·		
		*		`
		,		
Evaluated by: <u>Harpreet Ghuman</u>	H8 Hmm		_ Date: <u>10/01</u>	<u>/2012</u>
Yaroslav Losev	Those		10/01.	/2012

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 4 of 4	
Seismic Walkdown Checklist (SWC) <u>SWEL1-347</u>	Status: Y⊠ N□ U□
Equipment ID No. 29AOV-86A Equip. Class 07-Fluid Opera	ated Valves
Equipment Description MST A Outbd Main Steam Isol Valv	
Photographs	
Note: Picture of equipment 29AOV-86A. Note:	

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 1 of 4	
	Status: Y⊠ N⊟ U⊟
Seismic Walkdown Checklist (SWC) <u>SWEL1-360</u>	
Equipment ID No. 46MOV-101A Equip. Class¹ 8 – Motor-Oper	rated Valves
Equipment Description Emergency Service Water Loop A Supply Header	Isolation Valve
Location: Bldg. SP Floor El. 255 Room, Area C: 26.5	5, L: 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⊠
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	

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

ATTACHMENT 9.6 SEISM	IIC WALKDOWN CHECKLIST FORM
Sheet 2 of 4	
Seismic Walkdown Checklist (SWC) <u>SWEL1-360</u>	Status: Y⊠ N□ U□
Equipment ID No. 46MOV-101A Equip. Class 8 – Motor-Operated V	alves
Equipment Description Emergency Service Water Loop A Supply Header Isolat	ion 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? The item is an in-line valve.	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 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 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)SWEL1-360	Status: Y⊠ N⊟ U⊟
Equipment ID No. 46MOV-101A Equip. Class 8 – Motor-Opera	ated Valves
Equipment Description Emergency Service Water Loop A Supply Header	r Isolation Valve
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□
<u>Comments</u> (Additional pages may be added as necessary)	
Evaluated by: Harpreet Ghuman H8 24	Date: <u>9/21/12</u>
Yaroslav Losev	9/21/12

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 4 of 4	
	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) <u>SWEL1</u>	
Equipment ID No. 46MOV-101A Equip. Cla	ass 8 – Motor-Operated Valves
Equipment Description Emergency Service Water Lo	op A Supply Header Isolation Valve
Photographs	
Note: 46MOV-101A	Note:

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 1 of 4	
	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) <u>SWEL1-364</u>	
Equipment ID No. 46P-2A Equip. Class 06-Vertical Pum	p
Equipment Description Emergency Service Water Pump A	
Location: Bldg. <u>SP</u> Floor El. <u>255'</u> Room, Area <u>Pump F</u>	Room Train A, Col. 26, Row B
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□
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) 1" CIP headed bolts are free of bent, broken, missing or loose hardware. 	Y⊠ N□ U□ N/A□ 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□

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	EISMIC WALKDOWN CHECKLIST FORM
Sheet 2 of 4	
Seismic Walkdown Checklist (SWC)SWEL1-364	Status: Y⊠ N□ U□
Equipment ID No. 46P-2A Equip. Class 06-Vertical Pump	
Equipment Description Emergency Service Water Pump A	
 Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) 	Y⊠ N□ U□ N/A□ ch
The anchorage configuration for the 1" CIP headed bolts is consisten with the SEWS documentation for equipment 10P-1A (which is nearly identical to equipment 46P-2A), Rev 0, and Vensor DWG.71452-D	
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? There are no soft targets on the equipment.	Y□ N□ Ü□ 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□
A 3" diameter conduit supported by the tray is found to be improperly secured in Service Water Pump Room A. Portion of the conduit is secured by a single plastic zip tie on the side of a rod hanger which provides support for the 1TH604R Tray. Based on engineering	,
judgment, the overhead conduit will not damage the equipment durin seismic event. The resolution to this deficiency is tracked through CF JAF-2012-06191	
 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	is

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ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 3 of 4	
	Status: Y⊠ N⊟ U⊟
Seismic Walkdown Checklist (SWC) <u>SWEL1-364</u>	
Equipment ID No. 46P-2A Equip. Class 06-Vertical Pum	φ
Equipment Description Emergency Service Water Pump A	
Other Adverse Conditions	
11. Have you looked for and found no other seismic conditions that con 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.	
•	
	version of the second second
Evaluated by: Harpreet Ghuman #8 ##	Date: <u>09/21/2012</u>
Evaluated by: Harpreet Ghuman NO AVV	
Yaroslav Losev	09/21/2012

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ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 4 of 4

Status: Y⊠ N□ U□

Seismic Walkdown Checklist (SWC) SWEL1-364

Equipment ID No. 46P-2A Equip. Class 06-Vertical Pump

Equipment Description Emergency Service Water Pump A

Photographs



Note: Picture of equipment 46P-2A.



Note: Picture of the conduit spanning over the top of equipment 46P-2A.

ATTACHMENT 9.6 SEIS	MIC WALKDOWN CHECKLIST FORM
Sheet 1 of 4	
Seismic Walkdown Checklist (SWC) <u>SWEL1-366</u>	Status: Y⊠ N□ U□
Equipment ID No. 46STR-5A1 Equip. Class 00-Other	
Equipment Description Emergency Service Water Pump A Discharge South Ba	asket Strainer
Location: Bldg. <u>SP</u> Floor El. <u>255'</u> Room, Area <u>Pump Room</u>	Train A, Col. 26, Row 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 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 is provided at the end of this checklist for documenting the space is provided at the end of this checklist for documenting the space is provided at the end of this checklist for documenting the space is provided at the end of this checklist for documenting the space is provided at the end of this checklist for documenting the space is provided at the end of this checklist for documenting the space is provided at the end of this checklist for documenting the space is provided at the end of this checklist for documenting the space is provided at the end of this checklist for documenting the space is provided at the end of this checklist for documenting the space is provided at the end of this checklist for documenting the space is provided at the end of this checklist for documenting the space is provided at the end of this checklist for documenting the space is provided at the end of this checklist for documenting the space is provided at the end of this checklist for documenting the space is provided at the end of this checklist for the space is provided at the end of this checklist for the space is provided at the end of this checklist for the space is provided at the end of the end of the space is provided at the end of th	I the results of judgments and
Anchorage	
 Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? 	Y□ N⊠
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 one (1) anchor bolt 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 oxidation.	
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 anchors.

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

ATTACHMENT 9.6 SEI	SMIC WALKDOWN CHECKLIST FOR
Sheet 2 of 4	
Seismic Walkdown Checklist (SWC) <u>SWEL1-366</u>	Status: Y⊠ N□ U□
Equipment ID No. 46STR-5A1 Equip. Class 00-Other	
Equipment Description Emergency Service Water Pump A Discharge South I	Basket Strainer
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	Y□ N□ U□ N/A⊠
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? There are no soft targets on the 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□
There is a masonry block wall near the equipment; however, the wall was evaluated under IPEEE effort to reinforce the block walls. (Ref Section 3.1.4.6, page 3-57 JAF-RPT-MISC-02211)	
 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.	

TACHMENT 9.6 SEISMIC WALKDOWN CHECKLIST	
Sheet 3 of 4	
	Status: Y⊠ N⊟ U⊟
Seismic Walkdown Checklist (SWC) SWEL1-366	·
Equipment ID No. 46STR-5A1 Equip. Class 00-Other	<u> </u>
Equipment Description Emergency Service Water Pump A Discharge	ne South Basket Strainer
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□
No other seismic conditions that could adversely affect the sa functions of the equipment in the area were found.	fety
\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	
Comments (Additional pages may be added as necessary)	
No additional comments.	
,	
212 911	
Evaluated by: Harpreet Ghuman 140 4000	Date: <u>09/21/2012</u>
More	
Yaroslav I osev	09/21/2012

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 4 of 4	
Seismic Walkdown Checklist (SWC) <u>SWEL1-366</u>	Status: Y⊠ N□ U□
Equipment ID No. 46STR-5A1 Equip. Class 00-Other	
Equipment Description Emergency Service Water Pump A Discharge	South Basket Strainer
Photographs	
Note: Picture of equipment 46STR-5A1. Note:	

ATTACHMENT 9.6	Seisi	MIC WALKDOWN CHECKLIST FORM
Sheet 1 of 4 Seismic Walkdown Checklist (SWC)	SWEL1-367	Status: Y⊠ N⊡ U⊡
Equipment ID No. 46STR-5A2	Equip. Class¹_00-Other	
Equipment Description Emergency Service	e Water Pump A Discharge North Ba	sket Strainer
Location: Bldg. SP Floor El. 25	5' Room, Area <u>Pump Room</u>	Train A, Col. 26, Row B
Manufacturer, Model, Etc. (optional but reco	ommended)	
Instructions for Completing Checklist		
This checklist may be used to document the SWEL. The space below each of the follow findings. Additional space is provided at the	ing questions may be used to record	the results of judgments and
Anchorage		
 Is the anchorage configuration verifi of the 50% of SWEL items requiring The item is not one of the 50% of S 	such verification)?	Y□ N⊠
configuration verification.		
 Is the anchorage free of bent, broke The one (1) anchor bolt is free of be hardware. 	•	Y⊠ N□ U□ N/A□
3. Is the anchorage free of corrosion the oxidation?	nat is more than mild surface	Y⊠ N□ U□ N/A□
Anchorage is free of corrosion that	is more than mild surface oxidation.	
Is the anchorage free of visible crace anchors?		Y⊠ N□ U□ N/A□
There are no visible cracks in the co	oncrete 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>SWEL1-367</u>	Status: Y⊠ N□ U□
Equipment ID No. 46STR-5A2 Equip. Class 00-Other	
Equipment Description <u>Emergency Service Water Pump A Discharge Nort</u>	h Basket Strainer
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 or potentially adverse seismic conditions?	f Y⊠ N□ U□
Based on the above anchorage evaluations, the anchorage is free of potentially adverse seismic conditions.	f
Interaction Effects	
7. Are soft targets free from impact by nearby equipment or structures' There are no soft targets on the equipment.	? 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? There is a masonry block wall near the equipment; however, the wawas evaluated under IPEEE effort to reinforce the block walls. (Ref Section 3.1.4.6, page 3-57 JAF-RPT-MISC-02211)	
 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□ oid
10. Based on the above seismic interaction evaluations, is equipment fr of potentially adverse seismic interaction effects? Based on the above seismic interaction evaluations, the equipment free of potentially adverse seismic interaction effects.	

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 3 of 4	
Seismic Walkdown Checklist (SWC) <u>SWEL1-367</u>	Status: Y⊠ N□ U□
Equipment ID No. 46STR-5A2 Equip. Class 00-Other	
	rth Backet Strainer
Equipment Description <u>Emergency Service Water Pump A Discharge No.</u>	TIII DASKEI SII AIII EI
Other Adverse Conditions	
11. Have you looked for and found no other seismic conditions that con 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 18 211	Date: <u>09/21/2012</u>
Yaroslav Losev	09/21/2012

ATTACHMENT 9.6		SEISMIC WALKDOWN CHECKLIST FOR
Sheet 4 of 4 Seismic Walkdown Checklist (SWC)	SWEL1-367	Status: Y⊠ N⊡ U⊡
Equipment ID No. 46STR-5A2		
Equipment Description <u>Emergency Service</u>		North Basket Strainer
Photographs		
Note: Picture of equipment 46STR-5A	Note:	

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 1 of 4	
	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) <u>SWEL1-371</u>	
Equipment ID No. 66TCV-107E Equip. Class ¹ 7 - Pnuematic	-Operated Valves
Equipment Description West Crescent Area UC-22E SWS Inlet Tempera	ture Control Valve
Location: Bldg. RB Floor El. 242 Room, Area Col 3	
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 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⊠
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?	YL NL UL N/A

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>SWEL1-371</u>	
Equipment ID No. 66TCV-107E Equip. Class 7 – Pnuematic-Opera	ated Valves
Equipment Description West Crescent Area UC-22E SWS Inlet Temperature	Control 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?	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	SEISMIC WALKDOWN CHECKLIST FOR
Sheet 3 of 4 Seismic Walkdown Checklist (SWC) SWEL1-371	Status: Y⊠ N⊡ U⊡
` · · · · · · · · · · · · · · · · · · ·	
Equipment ID No. 66TCV-107E Equip. Class 7 – Pnuematic-	Operated Valves
Equipment Description West Crescent Area UC-22E SWS Inlet Tempera	ture Control Valve
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: Donald Koberg Sanalal Why	Date: <u>9/24/12</u>
Pouria Pourahobadi	9/24/12

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 4 of 4

Status: Y⊠ N□ U□

Seismic Walkdown Checklist (SWC) <u>SWEL1-371</u>

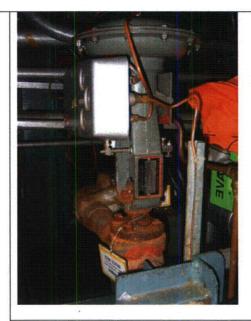
Equipment ID No. 66TCV-107E Equip. Class 7 – Pnuematic-Operated Valves

Equipment Description West Crescent Area UC-22E SWS Inlet Temperature Control Valve

Photographs



Note: <u>66TCV-107E</u>



Note: <u>66TCV-107E</u>

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 1 of 4	·
Seismic Walkdown Checklist (SWC)SWEL1-372	Status: Y⊠ N□ U□
Equipment ID No. 66UC-22A Equip. Class 10 – Air Handlei	rs
Equipment Description West Crescent Area Unit Cooler 22A	
Location: Bldg. RB Floor El. 242 Room, Area Col 1, L	ine R
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□
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? Slight visible corrosion. 	Y⊠ N□ U□ N/A□
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Y□ N□ U□ N/A⊠

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

ATTACHMENT 9.6	ISMIC WALKDOWN CHECKLIST FORM
Sheet 2 of 4	
	Status: Y⊠ N⊡ U⊡
Seismic Walkdown Checklist (SWC) <u>SWEL1-372</u>	
Equipment ID No. 66UC-22A Equip. Class 10 – Air Handlers	
Equipment Description West Crescent Area Unit Cooler 22A	
 Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for whic an anchorage configuration verification is required.) 	Y⊠ N□ U□ N/A□ h
The anchorage configuration is consistent with DWG. No. 10.00-113.	
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□
Scaffolding in the area is determined to be adequate however it has reached the 90 day review period. Not an adverse seismic condition. Site personnel were notified and the scaffolding is to be evaluated for	
long term erection in accordance with EN-MA-133.	
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□

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 3 of 4	
	Status: Y⊠ N⊟ U⊟
Seismic Walkdown Checklist (SWC) <u>SWEL1-372</u>	
Equipment ID No. 66UC-22A Equip. Class 10 – Air Ha	indlers
Equipment Description West Crescent Area Unit Cooler 22A	·
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: Donald Koberg Danald Why	Date: <u>9/24/12</u>
Pouria Pourghobadi	9/24/12

ATTACHMENT 9.6		SEISMIC WALKDOWN CHECKLIST FORM
Sheet 4 of 4		
		Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SW	C) <u>SWEL1-372</u>	
Equipment ID No. 66UC-22A	Equip. Class 10 – Air Handlers	
Equipment Description West Crescent	Area Unit Cooler 22A	

Photographs





Note: 66UC-22A

Note: 66UC-22A

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 1 of 5	
	Status: Y⊠ N⊡ U⊡
Seismic Walkdown Checklist (SWC) <u>SWEL1-373</u>	
Equipment ID No. 66UC-22B Equip. Class 10 – Air Handle	ers
Equipment Description East Crescent Area Unit Cooler 22B	
Location: Bldg. RB Floor El. 242 Room, Area Col 4 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 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.	
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□
Mild surface corrosion around the anchorage, but not an adverse seismic condition.	
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Y□ N□ U□ N/A⊠
The cooler is mounted on I beam supports	• "

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) <u>SWEL1-373</u>	Status: Y⊠ N□ U□
Equipment ID No. 66UC-22B Equip. Class 10 – Air Handle	rs
Equipment Description East Crescent Area Unit Cooler 22B	
5. Is the anchorage configuration consistent with plant documentation (Note: This question only applies if the item is one of the 50% for wan anchorage configuration verification is required.) The anchorage configuration is consistent with SEWS for 66UNC-22Which is identical 66UNC-22A and DGW. No. 10.00-113.	vhich
6. Based on the above anchorage evaluations, is the anchorage free potentially adverse seismic conditions?	of Y⊠ N□ U□
Interaction Effects	—···
 Are soft targets free from impact by nearby equipment or structure The soft targets are free from impact by nearby equipment or structures. 	es? 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.	? hting,
9. Do attached lines have adequate flexibility to avoid damage? The attached lines have adequate flexibility to avoid. ,	Y⊠ N□ U□ N/A□
Based on the above seismic interaction evaluations, is equipment of potentially adverse seismic interaction effects? The equipment is free of potentially adverse seismic interaction effects.	

ATTACHMENT 9.6				SEISMIC WAL	KDOWN CH	ECKLIST FORM
Sheet 3 of 5						
<u> </u>				Sta	atus: Y⊠	$N \square U \square$
Seismic Walkdov	vn Checklist (SWC) <u>SWEL1-</u>	·373		-	
Equipment ID No.	66UC-22B	Equip. Cla	ss <u>10 – Air Handl</u>	ers		
Equipment Descripti	on <i>East Cresce</i>	ent Area Unit Cool	er 22B			· · ·
Other Adverse Cor	nditions		,			
		nd no other seismi		ould Y⊠	N U	
Comments (Additio	nal pages may l	be added as neces	sary)		٠.	
	,			· .		•
	• •		-			
	٠.					
v		· · · · · · · · · · · · · · · · · · ·		• • • • • • • • • • • • • • • • • • •		
Evaluated by: <u>Dona</u>	ld Koberg	nald Why		Date:	9/23/12	
		Rugh	1.			
Pouri	a Pourghobadi	11 1	,		9/23/12	

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 4 of 5	
	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) SWEL1-373	
Equipment ID No. 66UC-22B Equip. Class 10 – Air	Handlers
Equipment Description East Crescent Area Unit Cooler 22B	

Photographs



Note: mild surface corrosion on connection.



Note: 66UNC-22B

ATTACHMENT 9.6 SEISMIC WALKDOWN CHECKLIST FORM Sheet 5 of 5 Status: Y⊠ N□ U□ Seismic Walkdown Checklist (SWC) <u>SWEL1-373</u> Equipment ID No. 66UC-22B Equip. Class 10 – Air Handlers Equipment Description East Crescent Area Unit Cooler 22B Note: Note: 66UNC-22B connection to I-beam flange.

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 1 of 4	
Seismic Walkdown Checklist (SWC) <u>SWEL1-406</u>	Status: Y⊠ N□ U□
Equipment ID No. 70FN-4A Equip. Class 9 – Fans	
Equipment Description Control Room Ventilation Exhaust Fan A	
Location: Bldg. AD Floor El. 300 Room, Area Col. 9.5	5, Line V
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	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□
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 oxidat	ion.
Is the anchorage free of visible cracks in the concrete near the anchors?	Y⊠ N□ U□ N/A□
The fan is mounted on a skid that is welded to the building steel. No	n

cracks are visible on the walls which the beams are bolted to.

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) SWEL1-406	
Equipment ID No. <u>70FN-4A</u> Equip. Class <u>9 – Fans</u>	
Equipment Description Control Room Ventilation Exhaust Fan A	
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 the SEWS for 70FN-(Rev. 0) and drawing SFSK-41. The fan is supported from a substawelded steel frame which is welded to building steel.	ich 4A
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	of 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 equipment and structures.	
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 equipment and distribution systems are not likely to collapse onto the equipment.	
9. 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 from of potentially adverse seismic interaction effects?	ree Y⊠ N□ U□
The aguinment is free of notantially adverse exigmic interaction offer	of .

Sheet 3 of 4	
	Status: Y⊠ N⊟ U⊟
Seismic Walkdown Checklist (SWC) <u>SWEL1-406</u>	
Equipment ID No. <u>70FN-4A</u> Equip. Class <u>9 - Fans</u>	· · · · · · · · · · · · · · · · · · ·
Equipment Description Control Room Ventilation Exhaust Fan A	
Other Adverse Conditions	
11. Have you looked for and found no other seismic conditions that conditions adversely affect the safety functions of the equipment?	ould Y⊠ N□ U□
Comments (Additional pages may be added as necessary)	
Comments (Additional pages may be added as necessary)	
N 10 211 -	
Evaluated by: <u>Donald Koberg</u> Sandal July	Date: <u>9/24/12</u>
- 11	· · · · · · · · · · · · · · · · · · ·
Pouria Pourghobadi	9/24/12

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 4 of 4	
	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) SWEL1-406	
Equipment ID No. <u>70FN-4A</u> Equip. Class <u>9 - Fans</u>	
Equipment Description Control Room Ventilation Exhaust Fan A	

Photographs





Note: Fan 70FN-4A

Note: Fan 70FN-4A

Attachment C

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ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 1 of 5	
	Status: Y⊠ N⊡ U⊡
Seismic Walkdown Checklist (SWC)SWEL1-426	
Equipment ID No. 70RWC-2A(CND) Equip. Class ¹ 11 - Chillers	
Equipment Description Control Room Chiller A Condenser	· · · · · · · · · · · · · · · · · · ·
Location: Bldg. <u>AD</u> Floor El. <u>300</u> Room, Area <u>Col. 10.</u>	5 Line S
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□
	-
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 oxidat	ion.
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	SMIC WALKDOWN CHECKLIST FORM
Sheet 2 of 5	
Seismic Walkdown Checklist (SWC) <u>SWEL1-426</u>	Status: Y⊠ N□ U□
Equipment ID No. 70RWC-2A(CND) Equip. Class 11 - Chillers	
Equipment Description Control Room Chiller A Condenser	
 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 and base plate is consistent with DWG. No SK-051351-C-023 SH 1 (Calculation JAF-CALC-09-00004) and DWG. No. FC-32C. Refer to "Comments" section of this document for details.	
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 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□
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	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 3 of 5	
	Status: Y⊠ N⊟ U⊟
Seismic Walkdown Checklist (SWC) SWEL1-426	
Equipment ID No. 70RWC-2A(CND) Equip. Class 11 - Chillers	
Equipment Description Control Room Chiller A Condenser	
Other Adverse Conditions	
11. Have you looked for and found no other seismic conditions that c adversely affect the safety functions of the equipment?	ould Y⊠ N□ U□
Comments (Additional pages may be added as necessary)	
At the front support of the condenser, Four 5/8" DIA HKB-3 X 10' 1" THK base plate and the ¾" THK mounting plates. The 5/8' top of the mounting plates, making this connection rigid.	
At the back support, a sole plate ¾" X 2' X 6' A36, is installed on Eight 5/8" DIA. HKB-3 X 10" Long anchors are used to install vendor is welded on top of the sole plate.	
0/10 2/1 -	
Evaluated by: Donald Koberg Small Why	Date: <u>9/25/12</u>
Din Mill	
Pourio Pourahohodi	0/25/42

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 4 of 5

Status: Y⊠ N□ U□

Seismic Walkdown Checklist (SWC) SWEL1-426

Equipment ID No. 70RWC-2A(CND) Equip. Class 11 - Chillers

Equipment Description Control Room Chiller A Condenser

Photographs



Note: 70RWC-2A(CND) Condenser



Note: 70RWC-2A (CND) Chiller and

Condenser.

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 5 of 5	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) SWEL1-426	
Equipment ID No. <u>70RWC-2A(CND)</u> Equip. Class <u>11 - Chillers</u>	
Equipment Description Control Room Chiller A Condenser	
Note: front base plate of 70RWC-2A (CND) Chiller Condenser.	
	!

ATTACHMENT 9.6 SEI	SMIC WALKDOWN CHECKLIST FORM
Sheet 1 of 5	
	Status: Y☐ N☐ U⊠
Seismic Walkdown Checklist (SWC) SWEL1- 430	
Equipment ID No. 71-10502 Equip. Class Medium Voltage, Me	etal-clad Switchgear
Equipment Description 4160V Switchgear Distribution (Bus 10500)	
Location: Bldg. EG Floor El. 272 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 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)? 	y□ N⊠
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□
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Y□ N⊠ U□ N/A□
From north end of panel on side, hairline cracks (< 1/16" wide) at 2", 6' 14", 18.5", 22.5". Cracks are likely a second pour (concrete or grout) in cavity that was excavated for embedded anchorage.	

ATTACHMENT 9.6	EISMIC WALKDOWN CHECKLIST FORM
Sheet 2 of 5	
	Status: Y☐ N☐ U⊠
Seismic Walkdown Checklist (SWC) <u>SWEL1- 430</u>	
Equipment ID No. 71-10502 Equip. Class Medium Voltage, I	Metal-clad Switchgear
Equipment Description 4160V Switchgear Distribution (Bus 10500)	
 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?	Y□ N□ U⊠
N/A	
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□
See area walkby for discussion of lighting. Adverse seismic affect is credible.	not
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 SEISMIC WALKDOWN CHECKLIS			
Sheet 3 of 5			
	Status: Y∐ N∐ U⊠		
Seismic Walkdown Checklist (SWC) SWEL1- 430	•		
Equipment ID No. 71-10502 Equip. Class Medium Voltage,	Metal-clad Switchgear		
Equipment Description 4160V Switchgear Distribution (Bus 10500)			
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)	,		
1	,		
Evaluated by: R Casella Rich Casella	Date: <u>10-31-12</u>		
A Porch	10-31-12		

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 4 of 5

Status: Y □ N □ U ⊠

Seismic Walkdown Checklist (SWC) SWEL1- 430

Equipment ID No. 71-10502 Equip. Class Medium Voltage, Metal-clad Switchgear

Equipment Description 4160V Switchgear Distribution (Bus 10500)

Photographs



Note: 71-10502



Note: Conduit, duct, and cable trays above

71-10502

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SEISMIC WALKDOWN CHECKLIST FORM

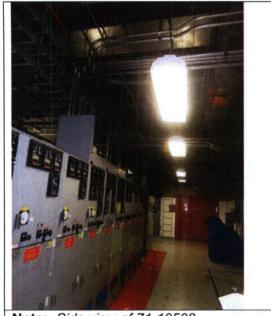
Sheet 5 of 5

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1- 430

Equipment ID No. 71-10502 Equip. Class Medium Voltage, Metal-clad Switchgear

Equipment Description 4160V Switchgear Distribution (Bus 10500)



Note: Side view of 71-10502



Note: Cracks in grout at rear of 71-10502

ATTACHMENT 9.6 SEISI	MIC WALKDOWN CHECKLIST FORM
Sheet 1 of 5	
	Status: Y□ N□ U⊠
Seismic Walkdown Checklist (SWC) <u>SWEL1- 433</u>	
Equipment ID No. 71-10560 Equip. Class Medium Voltage, Meta	al-clad Switchgear
Equipment Description 4160V Switchgear Distribution (Bus 10500)	
Location: Bldg. <u>EG</u> Floor El. <u>272</u> Room, Area <u>Col 26 line A</u>	11
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?	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□
Rear side has hairline cracks at 2", 9", 13.5". 20", and 26" from north end. All cracks are less than 1/16" wide. The largest crack is at 20". The cracks are likely through a second pour in a cavity that was excavated for embedded anchorage.	

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 2 of 5	
Seismic Walkdown Checklist (SWC) <u>SWEL1- 433</u>	Status: Y☐ N☐ U⊠
Equipment ID No. 71-10560 Equip. Class Medium Voltage,	Metal-clad Switchgear
Equipment Description 4160V Switchgear Distribution (Bus 10500)	
 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□
8. Are overhead equipment, distribution systems, ceiling tiles and light and masonry block walls not likely to collapse onto the equipment? Fluorescent light at rear of unit could potentially come unhooked at end. However, to impact 71-10560, significant out-of-plane pendulumotion would have to occur. This is not a credible scenario. Therefore adverse seismic interaction effect.	one m
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	ree Y⊠ N□ U□

ATTACHMENT 9.6			SEISMIC WALKDOWN CHECKLIST FORM
Sheet 3 of 5			
			Status: Y□ N□ U⊠
Seismic Walkdown Cl	necklist (SWC) <u>SWEL</u>	<u>1- 433 </u>	
Equipment ID No. 71-10	0560 Equip. C	lass <u>Medium Voltage</u>	e, Metal-clad Switchgear
Equipment Description 4	1160V Switchgear Distribution	on (Bus 10500)	
Other Adverse Conditio			
Other Adverse Conditio			
	or and found no other seisr se safety functions of the eq		uld Y⊠ N∐ U∐
,		, - r	•
·			
Comments (Additional pa	ages may be added as nec	essary)	` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` `
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•	•		
		00	
Evaluated by: R Casella	Rich Cas	ella	Date: 10-31-12
Evaluated by. It Casella	P23		Date. 10-51-12
•	A A A	<i>D</i>	
	ロロート	~~~	40.04.40

ATT			

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 4 of 5

Status: Y □ N □ U ⊠

Seismic Walkdown Checklist (SWC) SWEL1- 433

Equipment ID No. 71-10560 Equip. Class Medium Voltage, Metal-clad Switchgear

Equipment Description 4160V Switchgear Distribution (Bus 10500)

Photographs



Note: 71-10560



Note: Conduits, ducts, and cable trays above 71-10560

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 5 of 5	SEISMIC WALKDOWN CHECKLIST FORM
Seismic Walkdown Checklist (SWC) SWEL1- 433	Status: Y☐ N☐ U⊠
Equipment ID No. <u>71-10560</u> Equip. Class <u>Medium Volta</u>	ge, Metal-clad Switchgear
Equipment Description 4160V Switchgear Distribution (Bus 10500)	
3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	
Note: Crack in grouting at rear of 71-10560 Note:	

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 1 of 5	
Seismic Walkdown Checklist (SWC)SWEL1- 434	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC)SWELT- 434	
Equipment ID No. 71-10602 Equip. Class Medium Voltage	, Metal-clad Switchgear
Equipment Description 4160V Switchgear Distribution (Bus 10600)	
Location: Bldg. <u>EG</u> Floor El. <u>272</u> Room, Area <u>Col 26</u>	line A1
Manufacturer, Model, Etc. (optional but recommended)	·
Instructions for Completing Checklist	
This checklist may be used to document the results of the Seismic Walkdors 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□
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□
No corrosion evident.	
Is the anchorage free of visible cracks in the concrete near the	Y⊠ N□ U□ N/A□
anchors?	
No cracks are visible.	•

Y⊠ N□ U□

ATTAC	HMENT 9.6 SEISN	MIC WALKDOWN CHECKLIST FORM
Sheet	2 of 5	· ·
		Status: Y⊠ N□ U□
Seisn	nic Walkdown Checklist (SWC) <u>SWEL1- 434</u>	
Equip	ment ID No. <u>71-10602</u> Equip. Class <u>Medium Voltage, Meta</u>	al-clad Switchgear
Equip	ment Description 4160V Switchgear Distribution (Bus 10600)	·····
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 SEWS for 71-10602, and vendor DWG. No. 0673D0516.	
6.	Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	Y⊠ N□ U□
Intera	ction Effects	
7.	Are soft targets free from impact by nearby equipment or structures? The equipment is free from impact by nearby 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? Fluorescent light at rear of unit could potentially come unhooked at one	Y⊠ N□ U□ N/A□
	end allowing it to swing into the panel near its top (Out of plane motion). Based on a low g level and low mass of a aluminum light frame, impact loading would not cause adverse seismic condition at the panel. Also to impact 71-10602, significant out-of-plane pendulum motion would have to occur. This is not a credible scenario. Therefore, No credible seismic	
	interaction.	
	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?

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FOR
Sheet 3 of 5	
	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) <u>SWEL1- 434</u>	
Equipment ID No. 71-10602 Equip. Class Medium Voltage	, Metal-clad Switchgear
Equipment Description 4160V Switchgear Distribution (Bus 10600)	
Other Adverse Conditions	•
11. Have you looked for and found no other seismic conditions that cou	ıld Y⊠ N□ U□
adversely affect the safety functions of the equipment?	
Comments (Additional pages may be added as necessary)	
Comments (Additional pages may be added as necessary)	
	·
	<u> </u>
The state of the s	•
Evaluated by: Pouria Pourghobadi	Date: <u>09-27-12</u>
Donald Kolberg Danald Why	
Danald Kalbara Ganald Koly	09-27-12

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 4 of 5

Status: Y⊠ N□ U□

Seismic Walkdown Checklist (SWC) SWEL1- 434

Equipment ID No. 71-10602 Equip. Class Medium Voltage, Metal-clad Switchgear

Equipment Description 4160V Switchgear Distribution (Bus 10600)

Photographs



Note: 71-10602 anchorage configuration.



Note: 71-10602 plug welds

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 5 of 5

Status: Y⊠ N□ U□

Seismic Walkdown Checklist (SWC) SWEL1- 434

Equipment ID No. 71-10602 Equip. Class Medium Voltage, Metal-clad Switchgear

Equipment Description 4160V Switchgear Distribution (Bus 10600)



Note: 71-10602



Note: 71-10602

TTACHMENT 9.6	,	SEISMIC WALK	DOWN CHECKLIST FORM
			-
•			Fage 237 01 5

Sheet 1 of 4	
Seismic Walkdown Checklist (SWC) SWEL1- 436	Status: Y⊠ N☐ U☐
Equipment ID No. 71-10614 Equip. Class Medium Voltage, Met	al-clad Switchgear
Equipment Description 4160V Switchgear Distribution (Bus 10600)	
Location: Bldg. <u>EG</u> Floor El. <u>272</u> Room, Area <u>Col 26 line A</u>	41
Manufacturer, Model, Etc. (optional but recommended)	
Instructions for Completing Checklist	
This checklist may be used to document the results of the Seismic Walkdown o SWEL. The space below each of the following questions may be used to record findings. Additional space is provided at the end of this checklist for documenting the space is provided at the end of this checklist for documenting the space is provided at the end of this checklist for documenting the space is provided at the end of this checklist for documenting the space is provided at the end of this checklist for documenting the space is provided at the end of this checklist for documenting the space is provided at the end of this checklist for documenting the space is provided at the end of this checklist for documenting the space is provided at the end of this checklist for documenting the space is provided at the end of this checklist for documenting the space is provided at the end of this checklist for documenting the space is provided at the end of this checklist for documenting the space is provided at the end of this checklist for documenting the space is provided at the end of this checklist for documenting the space is provided at the end of this checklist for documenting the space is provided at the end of this checklist for documenting the space is provided the space is	I the results of judgments and
Anchorage	
 Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? 	Y⊠ N□
2. Is the anchorage free of bent, broken, missing or loose hardware? 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 evident.	
Is the anchorage free of visible cracks in the concrete near the anchors?	Y⊠ N□ U□ N/A□
No cracks are visible.	

ATTACHMENT 9.6 SE	ISMIC WALKDOWN CHECKLIST FOR
Sheet 2 of 4	
Seismic Walkdown Checklist (SWC)SWEL1- 436	Status: Y⊠ N□ U□
Equipment ID No. 71-10614 Equip. Class Medium Voltage, M	etal-clad Switchgear
Equipment Description 4160V Switchgear Distribution (Bus 10600)	
 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 71-10614 and vendor DWG. No.0673D0517. 	
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⊠ Ņ□ 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 at rear of unit could potentially come unhooked at one end allowing it to swing into the panel near its top (out of plane motion). Based on a low g level and low mass of a aluminum light frame, impact loading would not cause adverse seismic condition at the panel. Also to impact 71-10614, significant out-of-plane pendulum motion would have to occur. This is not a credible scenario. 9. Do attached lines have adequate flexibility to avoid damage? 	e
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	
Seismic Walkdown Checklist (SWC) <u>SWEL1- 436</u>	Status: Y⊠ N□ U□
Equipment ID No. 71-10614 Equip. Class Medium	Voltage, Metal-clad Switchgear
Equipment Description 4160V Switchgear Distribution (Bus 10600)
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: Pouria Pourghobadi	Date: <u>09-27-12</u>
Danald Kalhara Danald Why	00 27 12

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 4 of 4

Status: Y⊠ N□ U□

Seismic Walkdown Checklist (SWC) SWEL1- 436

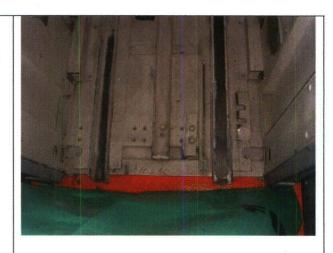
Equipment ID No. 71-10614 Equip. Class Medium Voltage, Metal-clad Switchgear

Equipment Description 4160V Switchgear Distribution (Bus 10600)

Photographs



Note: 71-10614 anchorage configuration.



Note: 71-10614 plug welds

ATTACHMENT 9.6 S	EISMIC WALKDOWN CHECKLIST FOR
Sheet 1 of 4	
Seismic Walkdown Checklist (SWC)SWEL1- 437	Status: Y⊠ N□ U□
Equipment ID No. 71-10660 Equip. Class Medium Voltage, N	Metal-clad Switchgear
Equipment Description 4160V Switchgear Distribution (Bus 10600)	
Location: Bldg. <u>EG</u> Floor El. <u>272</u> Room, Area <u>Col 26 lir</u>	ne 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	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□
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 evident.	
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Y⊠ N□ U□ N/A□
No cracks are visible.	

ATTACHMENT 9.6 SEISMIC WALKDOWN CHECKLIST FORM Sheet 2 of 4 Status: Y⊠ N⊟ U⊟ Seismic Walkdown Checklist (SWC) <u>SWEL1-437</u> Equipment ID No. 71-10660 Equip. Class Medium Voltage, Metal-clad Switchgear Equipment Description 4160V Switchgear Distribution (Bus 10600) 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 anchorage configuration is consistent with SEWS for 71-10660 and vendor DGW. No. 0673D0518 6. Based on the above anchorage evaluations, is the anchorage free of $Y \boxtimes N \square U \square$ potentially adverse seismic conditions? **Interaction Effects** Y⊠ N□ U□ N/A□ 7. Are soft targets free from impact by nearby equipment or structures? 8. Are overhead equipment, distribution systems, ceiling tiles and lighting, Y⊠ N□ U□ N/A□ and masonry block walls not likely to collapse onto the equipment? Fluorescent light at rear of unit could potentially come unhooked at one end allowing it to swing into the panel near its top (out of plane motion). Based on a low g level and low mass of a aluminum light frame, impact loading would not cause adverse seismic condition at the panel. Also to impact 71-10660, significant out-of-plane pendulum motion would have to occur. This is not a credible scenario. 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 $Y \boxtimes N \sqcap U \sqcap$ 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>SWEL1- 437</u>	,
Equipment ID No. 71-10660 Equip. Class Medium Voltage	ge, Metal-clad Switchgear
Equipment Description 4160V Switchgear Distribution (Bus 10600)	
Other Adverse Conditions	
Have you looked for and found no other seismic conditions that c adversely affect the safety functions of the equipment?	ould Y⊠ N□ U□
Comments (Additional pages may be added as necessary)	,)
	,
The Maria	
Evaluated by: Pouria Pourghobadi	Date: <u>09-27-12</u>
Donald Kolberg Somelal Why	
Donald Kolberg Small Killy	09-27-12

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 4 of 4

Status: Y⊠ N□ U□

Seismic Walkdown Checklist (SWC) SWEL1- 437

Equipment ID No. 71-10660 Equip. Class Medium Voltage, Metal-clad Switchgear

Equipment Description 4160V Switchgear Distribution (Bus 10600)

Photographs



Note: 71-10660



Note: 71-10660 plug welds

SEISMIC WALKDOWN CHECKLIST FORM **ATTACHMENT 9.6** Sheet 1 of 5 Status: Y N U U □ Seismic Walkdown Checklist (SWC) <u>SWEL1- 438</u> Equip. Class 2 Low Voltage Switch gear and Breaker Panel Equipment ID No. <u>71-11502</u> Equipment Description 600V Switchgear Distribution (Bus 11500) BKR 02 Room, Area Col 2 Line R Location: Bldg. RB Floor El. <u>300</u> Manufacturer, Model, Etc. (optional but recommended) Instructions for Completing Checklist This checklist may be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments. Anchorage 1. Is the anchorage configuration verification required (i.e., is the item one Y N of the 50% of SWEL items requiring such verification)? 2. Is the anchorage free of bent, broken, missing or loose hardware? Y□ N□ U☒ N/A□ Y□ N□ U⊠ N/A□ 3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y□ N□ U図 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- 438	Status: Y☐ N☐ U⊠
Equipment ID No. 71-11502 Equip. Class 2 Low Voltage Sv	vitch gear and Breaker Panel
Equipment Description 600V Switchgear Distribution (Bus 11500) BKR 02)
 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.) 	
Based on the above anchorage evaluations, is the anchorage free o potentially adverse seismic conditions?	f Y□ N□ U⊠
· . /	
Interaction Effects	
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 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?	ree Y⊠ N□ U□

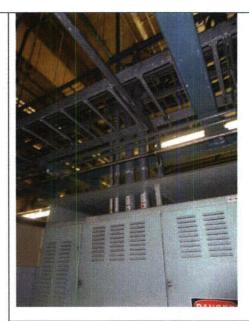
ATTACHMENT 9.6	SE	SMIC WALKDOWN CHECKLIST FORM
Sheet 3 of 5 Seismic Walkdown	Checklist (SWC) <u>SWEL1- 438</u>	Status: Y☐ N☐ U⊠
Equipment ID No. 71	-11502 Equip. Class 2 Low Voltage Swit	ch gear and Breaker Panel
Equipment Description	600V Switchgear Distribution (Bus 11500) BKR 02	
	tions d for and found no other seismic conditions that could the safety functions of the equipment?	Y⊠ N□ U□
	·	
Comments (Additional	pages may be added as necessary)	$(x_{i},x_{i}) = (1-\delta_{i})_{i}$
	·	
Evaluated by: <u>A. Porca</u>		Date: <u>10/31/2012</u> 10/31/2012

ATTACHMENT 9.6	SEISMIC WALKDOWN CHEC	KLIST FORM
Sheet 4 of 5		
	Status: Y N	ı n
Seismic Walkdown Checklist	A Company of the Comp	. 00
Equipment ID No. 71-11502	Equip. Class 2 Low Voltage Switch gear and Breaker P	anel
Equipment Description 600V Swi	tchgear Distribution (Bus 11500) BKR 02	

Photographs



Note: 71-11502



Note: 71-11502

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 5 of 5

Status: Y N U U ⊠

Seismic Walkdown Checklist (SWC) SWEL1- 438

Equipment ID No. 71-11502 Equip. Class 2 Low Voltage Switch gear and Breaker Panel

Equipment Description 600V Switchgear Distribution (Bus 11500) BKR 02



Note: 71-11502



Note: Hairline crack near 71-11502

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM			
Sheet 1 of 5				
Seismic Walkdown Checklist (SWC) SWEL1- 439	Status: Y□ N□ U⊠			
Equipment ID No. 71-11602 Equip. Class 2 Low Voltage Switch gear and Breaker Panel				
Equipment Description 600V Switchgear Distribution (Bus 11600) BKR 02				
Location: Bldg. <u>RB</u> Floor El. <u>300</u> Room, Area <u>Col 6 Li</u>	ne R			
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⊠			
2. Is the anchorage free of bent, broken, missing or loose hardware?	Y□ N□ U⊠ N/A□			
Is the anchorage free of corrosion that is more than mild surface	Y□ N□ U⊠ N/A□			
oxidation?				
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Y NU UN N/A			

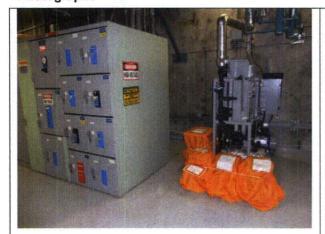
¹ Enter the equipment class <u>name</u> from Appendix B: Classes of Equipment.

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 2 of 5	,
Seismic Walkdown Checklist (SWC)SWEL1- 439	Status: Y☐ N☐ U⊠
Equipment ID No. 71-11602 Equip. Class 2 Low Voltage Sw	vitch gear and Breaker Panel
Equipment Description 600V Switchgear Distribution (Bus 11600) BKR 02	
 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 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□
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	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 3 of 5	
	Status: Y∐ N∐ U⊠
Seismic Walkdown Checklist (SWC) <u>SWEL1- 439</u>	
Equipment ID No. 71-11602 Equip. Class 2 Low Voltage	Switch gear and Breaker Panel
Equipment Description 600V Switchgear Distribution (Bus 11600) BKR (02
Other Adverse Conditions	
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)	
Communication cable above and north of unit is lightweight and we	ell supported.
	•
	•
10, Dand	
Evaluated by: <u>A. G. Porch</u>	Date: <u>10/31/2012</u>
C. Sawatska	10/04/0040
C. Sawatzke	<u>10/31/2012</u>

ATTACHMENT 9.6		SEISMIC WALKDOWN CHECKLIST FORM
Sheet 4 of 5		
Seismic Walkdown Checklist (SV	NC) SWELL 430	Status: Y□ N□ U⊠
Seisific Walkdown Checklist (SW	VC)	
Equipment ID No. 71-11602	Equip. Class 2 Low Voltage	e Switch gear and Breaker Panel
Equipment Description 600V Switchg	ear Distribution (Bus 11600) BKF	R 02

Photographs



Note: 71-11602



Note: 71-11602

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 5 of 5	
	Status: Y□ N□ U⊠
Seismic Walkdown Checklist (SWC) SWEL1- 439	
Equipment ID No. 71-11602 Equip. Class 2 Low Voltage	e Switch gear and Breaker Panel
Equipment Description 600V Switchgear Distribution (Bus 11600) BKR	02
Note: 71-11602	

ATTACHMENT 9.6 SEISMIC	WALKDOWN CHECKLIST FORM
Sheet 1 of 5 Seismic Walkdown Checklist (SWC) SWEL1-444	Status: Y⊠ N□ U□
· · · · · · · · · · · · · · · · · · ·	
Equipment ID No. 71ACB4 Equip. Class 1 14 – Distribution Panels	
Equipment Description EDG Building Emergency Power Distribution Panel	
Location: Bldg. <u>EG</u> Floor El. <u>272</u> Room, Area <u>Col. 26, Line A</u>	
Manufacturer, Model, Etc. (optional but recommended)	
Instructions for Completing Checklist	
This checklist may be used to document the results of the Seismic Walkdown of an SWEL. The space below each of the following questions may be used to record the findings. Additional space is provided at the end of this checklist for documenting o	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)?	∕⊠ N□
Is the anchorage free of bent, broken, missing or loose hardware? Anchorage is free of bent, broken, missing or loose hardware.	′⊠ N□ U□ N/A□
Is the anchorage free of corrosion that is more than mild surface oxidation? Anchorage is free of corrosion that is more than mild surface oxidation.	∕⊠ N□ U□ N/A□
4. Is the anchorage free of visible cracks in the concrete near the anchors? Anchorage is free of visible cracks in the concrete near the anchors.	∕⊠ N□ U□ N/A□

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 5	Status: Y⊠ N⊟ U⊟
Seismic Walkdown Checklist (SWC) <u>SWEL1-444</u>	
Equipment ID No. 71ACB4 Equip. Class 14 – Distribution Pan	els
Equipment Description <u>EDG Building Emergency Power Distribution Panel</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 anchorage configuration is consistent with SEWS for 71ACB4 (Rev. 0). The Distribution panel is 14" wide x 33" high x 5" deep and is bolted by 4 ½"bolts to a pair of unistruts.	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 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? The overhead equipments and distribution systems are not likely to collapse onto the equipments.	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?	Y⊠ N□ U□

Attachment C

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ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 3 of 5	
	Status: Y⊠ N⊟ U⊟
Seismic Walkdown Checklist (SWC) SWEL1-444	
Equipment ID No. 71ACB4 Equip. Class 14 – Dist	ribution Panels
Equipment Description <u>EDG Building Emergency Power Distribution</u>	on Panel
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) Tool cart with no locked wheels or any chain is present nea credible seismic condition considering the height of the considering the personnel were notified immediately.	
	•
Evaluated by: <u>Donald Koberg</u> Sanala Why	Date: <u>9/27/12</u>
Pouria Pourghobadi	0/27/42
rouna rouighobaul	9/27/12

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 4 of 5

Status: Y⊠ N□ U□

Seismic Walkdown Checklist (SWC) SWEL1-444

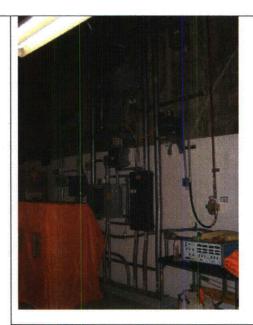
Equipment ID No. 71ACB4 Equip. Class 14 – Distribution Panels

Equipment Description EDG Building Emergency Power Distribution Panel

Photographs



Note: 71ACB4 Distribution Panel



Note: Room View.

ATTACHMENT 9.6	SEISMIC WALKDOWN	CHECKLIST FORM
Sheet 5 of 5		
	Status: Y	\boxtimes N \square U \square
Seismic Walkdown Checklist (SWC)SWEL1-444		
Equipment ID No. 71ACB4 Equip. Class 14 – Distribution	n Panels	
Equipment Description <u>EDG Building Emergency Power Distribution Panel</u>	el	
Note: Cart with unlocked wheels and no other attachments. 71ACB4 is in the background. Note:		

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 1 of 4	Alfaire de la Company de l La Company de la Company d
	Status: Y⊠ N⊟ U⊟
Seismic Walkdown Checklist (SWC) <u>SWEL1-445</u>	— — .—
Equipment ID No. 71ACUPS Equip. Class 14 - Distribution	n Panels
Equipment Description Relay Room Uninterruptable Bus Distribution Pan	el
Location: Bldg. RR Floor El. 284.8 Room, Area Col. 11	, 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□
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 oxida	ntion.
Is the anchorage free of visible cracks in the concrete near the anchors?	Y□ N□ U□ N/A⊠
The component is mounted on unistruts which are welded to the st	teel

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

ATTACHMENT 9.6 SEISI	MIC WA	LKDO	WN CH	IECKLIST	FORM
Sheet 2 of 4					
Seismic Walkdown Checklist (SWC) <u>SWEL1-445</u>	Sta	atus:	Y⊠	N U	J
Equipment ID No. 71ACUPS Equip. Class 14 – Distribution Pane	els				
Equipment Description Relay Room Uninterruptable Bus Distribution 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.)	Υ⊠	N	U	N/A	
The anchorage configuration is consistent with the SEWS for 71ACUPS (Rev. 0). The panel is bolted to a pair of Unistruts which are welded to building steel.					
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 or 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? The overhead equipment and distribution system 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⊠	NΠ	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 effect.	Υ⊠	N	U		

SEISMIC WALKDOWN CHECKLIST FORM **ATTACHMENT 9.6** Sheet 3 of 4 Status: Y⊠ N□ U□ Seismic Walkdown Checklist (SWC) SWEL1-445 Equipment ID No. 71ACUPS _ Equip. Class <u>14 – Distribution Panels</u> Equipment Description Relay Room Uninterruptable Bus Distribution Panel **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) Evaluated by: <u>Donald Koberg</u> Sandle Why Date: 9/24/12 9/24/12

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 4 of 4	
	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) <u>SWEL1-445</u>	
Equipment ID No. 71ACUPS Equip. Class 14 – Distr	ibution Panels
Equipment Description Relay Room Uninterruptable Bus Distribution	on Panel
Photographs	
Note: 71ACUPS Panel Note:	

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 1 of 4	
	Status: Y☐ N☐ U⊠
Seismic Walkdown Checklist (SWC) <u>SWEL1-446</u>	
Equipment ID No. 71BAT-3A Equip. Class 1 16-Battery Char	gers and Inverters.
Equipment Description <u>LPCI Inverter Battery</u>	•
Location: Bldg. RB Floor El. 344.6' Room, Area LPCI B.	attery Room, Col.5.5, Line R
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 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 1/2" expansion anchors are free of bent, broken, missing or look hardware. 	Y□ N□ U⊠ N/A□ ose
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 oxidate	tion.
Is the anchorage free of visible cracks in the concrete near the	Y⊠ N□ U□ N/A□
anchors? There are hair line cracks in the concrete which are insignificant to	the

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	
Seismic Walkdown Checklist (SWC) <u>SWEL1-446</u>	Status: Y□ N□ U⊠
Equipment ID No. 71BAT-3A Equip. Class 16-Battery Charge	gers and Inverters.
Equipment Description LPCI Inverter Battery	·
5. 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.) The 1/2" expansion anchors are configured in accordance with the	hich
SEWS document for equipment 71BAT-3A, Rev. 0.6. Based on the above anchorage evaluations, is the anchorage free potentially adverse seismic conditions?	of Y□ N□ U⊠
Inverters 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	
8. Are overhead equipment, distribution systems, ceiling tiles and ligh 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,
9. Do attached lines have adequate flexibility to avoid damage? The lines attached to the SWEL item have adequate flexibility to avoid the substitution of the substi	Y⊠ N□ U□ N/A□ roid
damage.	
10. Based on the above seismic interaction evaluations, is equipment to of potentially adverse seismic interaction effects?	ree Y⊠ N□ U□
Based on the above seismic interaction evaluations, the equipment	t is

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 3 of 4	
	Status: Y□ N□ U⊠
Seismic Walkdown Checklist (SWC) <u>SWEL1-446</u>	
Equipment ID No. 71BAT-3A Equip. Class 16-Battery Char	rgers and Inverters.
Equipment Description LPCI Inverter Battery	
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)	
There is no equipment tag on any of the walls in the room or on the equipment tag to identify the battery racks was brought to site persuere notified and the matter was discussed with Operations and it are located on control panels out site of the room. No further action	sonnel's attention. Site personnel was indicated that appropriate tags
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	72
	Status: Y☐ N☐ U⊠
Seismic Walkdown Checklist (SWC) <u>SWEL1-446</u>	
Equipment ID No. 71BAT-3A Equip. Class 16-Battery Charg	gers and Inverters.
Equipment Description LPCI Inverter Battery	
Photographs	
Note: Picture of equipment 71BAT-3A. Note:	

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 1 of 5	
	Status: Y☐ N☐ U⊠
Seismic Walkdown Checklist (SWC) <u>SWEL1- 448</u>	
Equipment ID No. 71BC-1A Equip. Class_16 - Battery Ch	argers and Inverters
Equipment Description <u>125VDC Station Battery Charger</u>	
Location: Bldg. BR Floor El. 272 Room, Area 12.5 E	
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? The external bolting of cabinet contains all necessary hardware	P Y□ N□ U⊠ N/A□
The panels need to be opened and anchorage of internal compon needs to be checked.	ents
Is the anchorage free of corrosion that is more than mild surface oxidation?	Y⊠ N□ U□ N/A□
The bolting shows signs of oxidation. However, the oxidation is m and not a structural concern	ild
Is the anchorage free of visible cracks in the concrete near the anchors?	Y⊠ N□ U□ N/A□
Cracking in grout around bolts. However, based on review of SE\ the bolts are connected to a steel plate which cannot be visually	<i>N</i> s
verified. Conclusion – Grout cracking has no impact on seismic capacity of anchorage.	

ATTACHMENT 9.6 SEI	SMIC WALKDOWN CHECKLIST FORM
Sheet 2 of 5	
Seismic Walkdown Checklist (SWC) <u>SWEL1- 448</u>	Status: Y☐ N☐ U⊠
Equipment ID No. 71BC-1A Equip. Class_16 - Battery Charget	rs and Inverters
Equipment Description 125VDC Station Battery Charger	
 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.) (associated SEWS sheet) 	Y⊠ N□ U□ N/A□
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	Y□ N□ U⊠
The panels need to be opened and anchorage of internal components needs to be checked.	
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□

Sheet 3 of 5 Seismic Walkdown Checklist (SWC) SWEL1- 448	Status: Y∐ N∏ U⊠
Seismic Walkdown Checklist (SWC) SWEL1- 448	Status: Y☐ N☐ U⊠
()	
Equipment ID No. 71BC-1A Equip. Class_16 - Battery Char	rgers and Inverters
Equipment Description 125VDC Station Battery Charger	
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□
Comments (Additional pages may be added as necessary)	
The panels for this item need to be opened and internal anchorage checked.	of the components need to be
Evaluated by: Rick Casella	Date: <u>10/30/12</u>
La, Dand	

Sheet 4 of 5

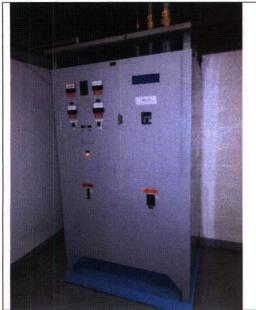
Status: Y□ N□ U⊠

Seismic Walkdown Checklist (SWC) SWEL1- 448

Equipment ID No. 71BC-1A Equip. Class_16 - Battery Chargers and Inverters_

Equipment Description 125VDC Station Battery Charger

Photographs



Note: 71BC-1A



Note: 71BC-1A anchorage

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 5 of 5	
	Status: Y☐ N☐ U⊠
Seismic Walkdown Checklist (SWC) <u>SWEL1-448</u>	
Equipment ID No. 71BC-1A Equip. Class_1	6 - Battery Chargers and Inverters
Equipment Description 125VDC Station Battery Charger	
Note: 71BC-1A anchorage showing grout cracking	ote:

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 1 of 5	
	Status: Y☐ N☐ U⊠
Seismic Walkdown Checklist (SWC) SWEL1- 450	
Equipment ID No. 71BCB-2A Equip. Class_14 - Distrubution Switches	Panels and Auomatic Transfer
Equipment Description Battery A Control Board	/
Location: Bldg. BR Floor El. 272 Room, Area 13 C	
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? The anchorage contains all necessary 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□
Mild surface oxidation and mild paint chipping was observed - no structural concern	
Is the anchorage free of visible cracks in the concrete near the anchors?	Y⊠ N□ U□ N/A□
No consiste the comparts approaches anchorage evictor	

A	Service Wassesser Company of Forms
	SMIC WALKDOWN CHECKLIST FORM
Sheet 2 of 5	Status: Y□ N□ U⊠
Seismic Walkdown Checklist (SWC) SWEL1- 450	
Equipment ID No. 71BCB-2A Equip. Class_14 - Distrubution Pail Switches	
Equipment Description Battery A Control Board	··
 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. DSK-71U, associated SEWS sheet) 	Y⊠ N□ U□ N/A□
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.	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?	i, 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 5	
	Status: Y☐ N☐ U⊠
Seismic Walkdown Checklist (SWC) <u>SWEL1- 450</u>	
Equipment ID No. 71BCB-2A Equip. Class_14 - Distrubit Switches_	ution Panels and Auomatic Transfer
Equipment Description Battery A Control Board	
Other Adverse Conditions	
11. Have you looked for and found no other seismic conditions that adversely affect the safety functions of the equipment?	t could Y⊠ N□ U□
Comments (Additional pages may be added as necessary)	
	•
Evaluated by: Rick Casella	Date: <u>10/30/12</u>
LC, Dand	
Al Porch	10/20/12

ATTACHMEN	

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 4 of 5

Status: Y N U U ⊠

Seismic Walkdown Checklist (SWC) SWEL1- 450

_ Equip. Class_14 - Distrubution Panels and Auomatic Transfer

Switches

Equipment Description Battery A Control Board

Equipment ID No. 71BCB-2A

Photographs



Note: 71BCB-2A



Note: 71BCB-2A (note support added at top of unit based on SEWS A-46 evaluation)

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SEISMIC WALKDOWN CHECKLIST FORM

Sheet 5 of 5

Status: Y N U U ⊠

Seismic Walkdown Checklist (SWC) <u>SWEL1- 450</u>

Equipment ID No. 71BCB-2A

__ Equip. Class_14 - Distrubution Panels and Auomatic Transfer Switches_

Equipment Description Battery A Control Board





Note: 71BCB-2A anchorage (note panel bolted to channel)

Note: 71BCB-2A (note intermittent fillet welds connecting channel to steel)

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 1 of 5	
	Status: Y⊠ N⊟ U⊡
Seismic Walkdown Checklist (SWC)SWEL1-452	
Equipment ID No. 71BMCC-1 Equip. Class 1 1- Motor Contr	rol Center
Equipment Description Reactor building West Crescent Motor Control Co	enter
Location: Bldg. RB Floor El. 242' Room, Area Col/L	ine 1R
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? No bent, broken, loose or missing hardware.	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□
Mild surface rust on painted anchorage brackets	
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Y□ N□ U□ N/A⊠
No concrete in area	. ,

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

ATTACHMENT 9.6 SE	EISMIC WALKDOWN CHECKLIST FORM
Sheet 2 of 5 Seismic Walkdown Checklist (SWC) <u>SWEL1-452</u>	Status: Y⊠ N⊡ U⊡
Equipment ID No. 71BMCC-1 Equip. Class 1- Motor Control C	enter
Equipment Description Reactor building West Crescent Motor Control Center	er
 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 matches the descriptions on SEWS for 71BMCC-1 	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? The equipment is free of soft targets. The only external devices to the panel doors are robust switches.	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?	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	e Y⊠ N□ U□

11/01/2012

ATTACHMENT 9.6 SEISMIC WALKDOWN CHECKLIST FORM Sheet 3 of 5 Status: Y⊠ N□ U□ Seismic Walkdown Checklist (SWC) <u>SWEL1-452</u> Equipment ID No. <u>71BMCC-1</u> Equip. Class 1- Motor Control Center Equipment Description Reactor building West Crescent Motor Control Center **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) Portable HEPA unit adequately secured to rigid handrails. No credible seismic interaction. Rich Casella Rick Casella Evaluated by: _ Date: 11/01/2012

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SEISMIC WALKDOWN CHECKLIST FORM

Sheet 4 of 5

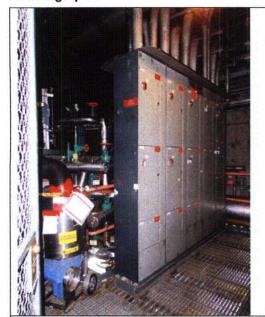
Status: Y⊠ N□ U□

Seismic Walkdown Checklist (SWC) SWEL1-452

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

Equipment Description Reactor building West Crescent Motor Control Center

Photographs



Note: 71BMCC-1 Front View



Note: 71BMCC-1 Anchorage

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST F	ORM
Sheet 5 of 5		
Seismic Walkdown Checklist (SWC)SWEL1-452	Status: Y⊠ N⊡ U[L
Equipment ID No. 71BMCC-1 Equip. Class 1- Motor Con	ntrol Center	
Equipment Description Reactor building West Crescent Motor Control	l Center	
Note: 71BMCC-1 From Above. Note:		