ATTACHMENT 9.6	EISMIC WALKDOWN CHECKLIST FORM
Sheet 1 of 4	
	Status: Y⊠ N☐ U☐
Seismic Walkdown Checklist (SWC) <u>SWEL1- 025</u>	
Equipment ID No. <u>CV-0736A</u> Equip. Class <sup>1</sup> <u>7 - PNEUMATIC-</u>	
Equipment Description <u>E-50B FLOW CONTROL</u>	·
Location: Bldg. AUX Floor El. 570 Room, Area 005	
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 document	ord the results of judgments and
Anchorage	
1. Is the anchorage configuration verification required (i.e., is the item of the 50% of SWEL items requiring such verification)?	ne Y□ N⊠
Is the anchorage free of bent, broken, missing or loose hardware?	Y□ N□ U□ N/A⊠
In-Line Valve	
Is the anchorage free of corrosion that is more than mild surface oxidation?      In-Line Valve	Y□ N□ U□ N/A⊠
Is the anchorage free of visible cracks in the concrete near the anchors?      In-Line Valve	Y□ N□ U□ N/A⊠

<sup>&</sup>lt;sup>1</sup> Enter the equipment class name from EPRI 1025286, Appendix B: Classes of Equipment.

ATTACHMENT 9.6 SEISI	MIC WALKDOWN CHECKLIST FORM
Sheet 2 of 4	
Seismic Walkdown Checklist (SWC) SWEL1- 025	Status: Y⊠ N□ U□
Equipment ID No. <u>CV-0736A</u> Equip. Class <sup>1</sup> <u>7 - PNEUMATIC-OP</u>	EDATED VALVES
	LRATED VALVES
Equipment Description <u>E-50B FLOW CONTROL</u>	
<ol> <li>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.)</li> </ol>	Y□ N□ U□ N/A⊠
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? N/A In-Line Valve	Y⊠ N□ U□
Interaction Effects	
7. Are soft targets free from impact by nearby equipment or structures?	Y⊠ N□ U□ N/A□
Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	. Y⊠ N□ U□ N/A□
9. Do attached lines have adequate flexibility to avoid damage?	Y⊠ N□ U□ N/A□
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	Y⊠ N□ U□

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 3 of 4	971 3
	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) <u>SWEL1- 025</u>	
Equipment ID No. <u>CV-0736A</u> Equip. Class <sup>1</sup> <u>7 - PNEUMA</u>	ATIC-OPERATED VALVES
Equipment Description <u>E-50B FLOW CONTROL</u>	
Other Adverse Conditions	
11. Have you looked for and found no other seismic conditions that adversely affect the safety functions of the equipment?	could Y⊠ N□ U□
<u>Comments</u> (Additional pages may be added as necessary)	32-
Evaluated by: Alex Smerch Mer Long	Date: 10/09/2012
Par Ara	Jan. 10/0/2012
Paul Klein	10/09/2012

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 4 of 4	19-10-10-10-10-10-10-10-10-10-10-10-10-10-
	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) SWEL1- 025	
Equipment ID No. <u>CV-0736A</u> Equip. Class <sup>1</sup> <u>7 - I</u>	PNEUMATIC-OPERATED VALVES
Equipment Description E-50B FLOW CONTROL	
Photographs	
Note: CV-0736A	
11313	

ATTACHMENT 9.6 SEISM	IIC WALKDOWN CHECKLIST FORM
Sheet 1 of 4	
	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) <u>SWEL1- 026</u>	
Equipment ID No. <u>CV-0737A</u> Equip. Class <sup>1</sup> <u>7 - PNEUMATIC-OPL</u>	ERATED VALVES
Equipment Description E-50A FLOW CONTROL	
Location: Bldg. AUX Floor El. 570 Room, Area 005	
Manufacturer, Model, Etc. (optional but recommended)	
Instructions for Completing Checklist	
This checklist may be used to document the results of the Seismic Walkdown of SWEL. The space below each of the following questions may be used to record findings. Additional space is provided at the end of this checklist for documenting	the results of judgments and
Anchorage	
1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?	Y□ N⊠
Is the anchorage free of bent, broken, missing or loose hardware?      In-Line Valve	Y□ N□ U□ N/A⊠
Is the anchorage free of corrosion that is more than mild surface oxidation?      In-Line Valve	Y□ N□ U□ N/A⊠
4. Is the anchorage free of visible cracks in the concrete near the anchors?  In-Line Valve	Y□ N□ U□ N/A⊠

<sup>&</sup>lt;sup>1</sup> Enter the equipment class name from EPRI 1025286, Appendix B: Classes of Equipment.

	MIC WALKDOWN CHECKLIST FORM
Sheet 2 of 4 Seismic Walkdown Checklist (SWC)SWEL1- 026	Status: Y⊠ N□ U□
Equipment ID No. <u>CV-0737A</u> Equip. Class <sup>1</sup> <u>7 - PNEUMATIC-OP</u>	PERATED VALVES
Equipment Description E-50A FLOW CONTROL	
<ol> <li>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.)</li> </ol>	Y□ N□ U□ N/A⊠
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?  N/A In-Line Valve	Y⊠ N□ U□
Interaction Effects	
7. Are soft targets free from impact by nearby equipment or structures?	Y⊠ N□ U□ N/A□
Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	Y⊠ N□ U□ N/A□
Do attached lines have adequate flexibility to avoid damage?	Y⊠ N□ U□ N/A□
Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	Y⊠ N□ U□

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 3 of 4	Status: Y⊠ N⊡ U⊡
Seismic Walkdown Checklist (SWC) <u>SWEL1- 026</u>	
Equipment ID No. <u>CV-0737A</u> Equip. Class <sup>1</sup> <u>7</u> -	PNEUMATIC-OPERATED VALVES
Equipment Description <u>E-50A FLOW CONTROL</u>	
Other Adverse Conditions	
11. Have you looked for and found no other seismic condi- adversely affect the safety functions of the equipment?	
<u>Comments</u> (Additional pages may be added as necessary)	
Evaluated by: Alex Smerch	Date: <u>10/09/2012</u>
Evaluated by: Alex Smerch Mer Loin  Paul Klein	10/09/2012

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 4 of 4	
Seismic Walkdown Checklist (SWC) SWEL1- 026	Status: Y⊠ N□ U□
Equipment ID No. <u>CV-0737A</u> Equip. Class <sup>1</sup> _	7 - PNEUMATIC-OPERATED VALVES
Equipment Description E-50A FLOW CONTROL	
Photographs	
Note: CV-0737A	ote:

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 1 of 5	Status: Y☐ N⊠ U☐
Seismic Walkdown Checklist (SWC) <u>SWEL1- 027</u>	
Equipment ID No. <u>CV-0861</u> Equip. Class <sup>1</sup> <u>7, PNEUMATIC-</u>	OPERATED VALVES
Equipment Description CAC VHX-1 HI CAPACITY SW OUTLET	
Location: Bldg. CONT Floor El. 590 Room, Area 143	
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 documents.	cord the results of judgments and
<u>Anchorage</u>	
<ol> <li>Is the anchorage configuration verification required (i.e., is the item of the 50% of SWEL items requiring such verification)?</li> </ol>	one Y□ N⊠
2. Is the anchorage free of bent, broken, missing or loose hardware?	Y   N   U   N/A
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	Y_ N_ U_ N/A_
Is the anchorage free of visible cracks in the concrete near the anchors?	Y N U N/A

<sup>&</sup>lt;sup>1</sup> Enter the equipment class name from EPRI 1025286, Appendix B: Classes of Equipment.

ATTACHMENT 9.6 SEISH	MIC WALKDOWN CHECKLIST FORM
Sheet 2 of 5	
Seismic Walkdown Checklist (SWC)SWEL1- 027	Status: Y☐ N⊠ U☐
Equipment ID No. <u>CV-0861</u> Equip. Class <sup>1</sup> <u>7, PNEUMATIC-OPE</u>	ERATED VALVES
Equipment Description CAC VHX-1 HI CAPACITY SW OUTLET	
<ol> <li>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.)</li> </ol>	Y N U N/A
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	Y_ N_ U_
Interaction Effects  7. Are soft targets free from impact by nearby equipment or structures?	Y_ N_ U_ N/A_
Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	Y_ N_ U_ N/A_
9. Do attached lines have adequate flexibility to avoid damage?	Y_ N_ U_ N/A_
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	
Seismic Walkdown Checklist (SWC) SWEL1- 027	Status: Y☐ N⊠ U☐
Equipment ID No. <u>CV-0861</u> Equip. Class <sup>1</sup> <u>7, PNEUMATIC</u>	-OPERATED VALVES
Equipment Description <u>CAC VHX-1 HI CAPACITY SW OUTLET</u>	
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)	
Item is inaccessible and will be deferred	•
Evaluated by:	Date:

ATTACHMENT 9.6		S	EISMIC WALKDOWN CHECKLIST FORM
Sheet 4 of 5	, ,		
			Status: Y☐ N⊠ U☐
Seismic Walkdown Checklist (SWC)	_ SWEL1	027	
Equipment ID No. CV-0861	_ Equip. Cla	ss <sup>1</sup> _ <i>7, PNEUMATIC-</i>	OPERATED VALVES
Equipment Description CAC VHX-1 HI CA			
Photographs			
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Notes		Notes	
Note:		Note:	

ATTACHMENT 9.6		SEISMIC WALKDOWN CHECKLIST FORM
Sheet 5 of 5		
		Status: Y□ N⊠ U□
Seismic Walkdown Checklist (SW	C) <u>SWEL1- 027</u>	
Equipment ID No. CV-0861	Equip. Class <sup>1</sup> 7. PNI	EUMATIC-OPERATED VALVES
Equipment Description <u>CAC VHX-1 HI</u>		
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Note:	Note:	

ATTACHMENT 9.6 SEIS	SMIC WALKDOWN CHECKLIST FORM
Sheet 1 of 4	
	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) SWEL1- 028	
Equipment ID No. <u>CV-1359</u> Equip. Class <sup>1</sup> <u>7, PNEUMATIC-OP</u>	ERATED VALVES
Equipment Description NON-CRITICAL SW HEADER ISOLATION	
Location: Bldg. <u>TURB BLD</u> Floor El. <u>617</u> Room, Area <u>136</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 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 documential space.	the results of judgments and
Anchorage	
1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?	Y N N
Is the anchorage free of bent, broken, missing or loose hardware?  N/A The valve is mounted in-line.	Y N U N/A
Is the anchorage free of corrosion that is more than mild surface oxidation?      N/A The valve is mounted in-line.	Y N U U N/A
4. Is the anchorage free of visible cracks in the concrete near the anchors? N/A The valve is mounted in-line.	Y□ N□ U□ N/A⊠

<sup>&</sup>lt;sup>1</sup> Enter the equipment class name from EPRI 1025286, Appendix B: Classes of Equipment.

ATTACHMENT 9.6 SEIS	MIC WALKDOWN CHECKLIST FORM
Sheet 2 of 4	
Seismic Walkdown Checklist (SWC) <u>SWEL1- 028</u>	Status: Y⊠ N□ U□
Equipment ID No. <u>CV-1359</u> Equip. Class <sup>1</sup> <u>7, PNEUMATIC-OPI</u>	ERATED VALVES
Equipment Description NON-CRITICAL SW HEADER ISOLATION	·
<ol> <li>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.)</li> </ol>	Y□ N□ U□ N/A⊠
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? N/A The valve is mounted in-line.	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?  An over head light was noted and not considered a potentially adverse seismic condition.	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 FORM
Sheet 3 of 4		
Seismic Walkdown Checklist (SWC)	SWEL1- 028	Status: Y⊠ N□ U□
Equipment ID No. <u>CV-1359</u>	Equip. Class <sup>1</sup> 7, PNEUMATIC	OPERATED VALVES
Equipment Description NON-CRITICAL S	SW HEADER ISOLATION	
Other Adverse Conditions		
<ol> <li>Have you looked for and found no adversely affect the safety function</li> </ol>		d Y⊠ N□ U□
Comments (Additional pages may be add	ed as necessary)	
Evaluated by: Alex Smerch		Date: <u>10-12-12</u>
Paul Klein Poul & &	lain	10-12-12
<u>r du r donr</u>		10-12-12

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. <u>CV-1359</u> Equip. Class	<sup>1</sup> 7, PNEUMATIC-OPERATED VALVES
Equipment Description NON-CRITICAL SW HEADER I	SOLATION
Photographs	*
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	= =
Note: CV-1359	Note:

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 1 of 4	
	Status: Y⊠ N⊡ U⊡
Seismic Walkdown Checklist (SWC) <u>SWEL1- 029</u>	
Equipment ID No. MO-3189 Equip. Class 8 - MOTOR-OPERATED VALVES	-OPERATED AND SOLENOID-
Equipment Description <u>LPSI PUMP P-67B SUCTION FROM SIRWT</u>	
Location: Bldg. <u>AUX</u> Floor El. <u>570</u> Room, Area <u>005</u>	
Manufacturer, Model, Etc. (optional but recommended)	<u> </u>
Instructions for Completing Checklist	
This checklist may be used to document the results of the Seismic Wall SWEL. The space below each of the following questions may be used findings. Additional space is provided at the end of this checklist for doc	to record the results of judgments and
<u>Anchorage</u>	
<ol> <li>Is the anchorage configuration verification required (i.e., is the it of the 50% of SWEL items requiring such verification)?</li> </ol>	em one Y□ N⊠
	J
Is the anchorage free of bent, broken, missing or loose hardwar In-Line Valve.	e? Y□ N□ U□ N/A⊠
Is the anchorage free of corrosion that is more than mild surface oxidation?      In-Line Valve	Y□ N□ U□ N/A⊠
Is the anchorage free of visible cracks in the concrete near the anchors?      In-Line Valve	Y□ N□ U□ N/A⊠

<sup>&</sup>lt;sup>1</sup> Enter the equipment class name from EPRI 1025286, Appendix B: Classes of Equipment.

ATTACHMENT 9.6 SEIS	MIC WALKDOWN CHECKLIST FORM
Sheet 2 of 4	C4-4 V N N N N N N
Seismic Walkdown Checklist (SWC)SWEL1029	Status: Y⊠ N⊡ U⊡
Equipment ID No. <u>MO-3189</u> Equip. Class <sup>1</sup> <u>8 - MOTOR-OPERA</u> <u>OPERATED VALVES</u>	TED AND SOLENOID-
Equipment Description LPSI PUMP P-67B SUCTION FROM SIRWT	
<ol> <li>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.)</li> </ol>	Y NUUN/A
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? N/A In-Line Valve	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?  An overhead light was examined and the suspension system was not visible from the floor. There were no signs that it was inadequately suspended and it was judged not to be a concern.	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 FORM
Sheet 3 of 4			
			Status: Y⊠ N□ U□
Seismic Walkdo	wn Checklist (S)	NC) <u>SWEL1- 029</u>	
Equipment ID No.	MO-3189	Equip. Class <sup>1</sup> <u>8 - MOTOR-OP</u> OPERATED VALVES	ERATED AND SOLENOID-
Equipment Descrip	otion <u>LPSI PUMP F</u>	P-67B SUCTION FROM SIRWT	
Other Adverse Co	onditions		
		no other seismic conditions that coulctions of the equipment?	ld Y⊠ N□ U□
Comments (Additi	onal pages may be	added as necessary)	
Evaluated by: <u>Alex</u>	Smerch Mix	Lein Lein	Date: <u>10/09/2012</u>
		Llein	
<u>Paul</u>	Klein 0		10/09/2012

ATTACHMENT 9.6		SEISMIC WALKDOWN CHECKLIST FORM
Sheet 4 of 4		
Seismic Walkdown Checklist (SWC)	SWEL1- 029	Status: Y⊠ N□ U□
Equipment ID No. MO-3189	Equip. Class <sup>1</sup> <u>8 - MOTOR-COPERATED VALVES</u>	PERATED AND SOLENOID-
Equipment Description <u>LPSI PUMP P-67B</u>	SUCTION FROM SIRWT	
Photographs		
Note: MO-3189	Note:	

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 1 of 4	
	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) <u>SWEL1- 030</u>	
Equipment ID No. <u>SV-1359</u> Equip. Class <sup>1</sup> <u>8 - MOTOR OP</u>	ERATED AND SOLENOID VALVES
Equipment Description NONCRITICAL SERVICE WATER SHUTOFF	
Location: Bldg. <u>TURB</u> Floor El. <u>590</u> Room, Area <u>136</u>	
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 documents.	ecord the results of judgments and
Anchorage	
<ol> <li>Is the anchorage configuration verification required (i.e., is the item of the 50% of SWEL items requiring such verification)?</li> </ol>	one Y□ N⊠
Is the anchorage free of bent, broken, missing or loose hardware?	Y⊠ N□ U□ N/A□
The equipment is mounted to the top of CV-1359.	
Is the anchorage free of corrosion that is more than mild surface oxidation?  The anchorage is painted. No corrosion noted.	Y⊠ N□ U□ N/A□
4. Is the anchorage free of visible cracks in the concrete near the anchors?  The equipment is anchored to in-line valve.	Y□ N□ U□ N/A⊠

<sup>&</sup>lt;sup>1</sup> Enter the equipment class name from EPR1<sub>4</sub>1025286, 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- 030</u> Equipment ID No. <u>SV-1359</u> Equip. Class <sup>1</sup> <u>8 - MOTOR OPERA</u>	TED AND SOLENOID VALVES
Equipment Description NONCRITICAL SERVICE WATER SHUTOFF	
<ol> <li>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.)</li> </ol>	Y NU UNA
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?  The insulated overhead line is supported by a structural brace.	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 FORM
Sheet 3 of 4	
Seismic Walkdown Checklist (SWC) SWEL1- 030	Status: Y⊠ N□ U□
Equipment ID No. <u>SV-1359</u> Equip. Class <sup>1</sup> <u>8 - MOTOR</u>	OPERATED AND SOLENOID VALVES
Equipment Description NONCRITICAL SERVICE WATER SHUTOFF	
Other Adverse Conditions	
11. Have you looked for and found no other seismic conditions that adversely affect the safety functions of the equipment?	could Y⊠ N□ U□
<u>Comments</u> (Additional pages may be added as necessary)	
Evaluated by: Alex Smerch	Date: <u>10-12-12</u>
Paul Klein Forl & Llin	10-12-12

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 4 of 4	
Seismic Walkdown Checklist (SWC) SWEL1- 030	Status: Y⊠ N□ U□
Equipment ID No. <u>SV-1359</u> Equip. Class <sup>1</sup> <u>8 - M</u>	OTOR OPERATED AND SOLENOID VALVES
Equipment Description NONCRITICAL SERVICE WATER SHU	ITOFF
Photographs	
Note: SV-1359  Note:	

ATTACHMENT 9.6 SEIST	MIC WALKDOWN CHECKLIST FORM
Sheet 1 of 4	
Seismic Walkdown Checklist (SWC) SWEL1- 031	Status: Y⊠ N□ U□
Equipment ID No. <u>SV-1470</u> Equip. Class <sup>1</sup> <u>8 - MOTOR-OPERATOR OPERATED VALVES</u>	TED AND SOLENOID
Equipment Description EDG 1-1 FUEL OIL RESVR INLET FROM DAY TANK	
Location: Bldg. <u>AUX</u> Floor El. <u>590</u> Room, Area <u>116</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 SWEL. The space below each of the following questions may be used to record findings. Additional space is provided at the end of this checklist for documenting	the results of judgments and
Anchorage	
1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?	Y□ N⊠
Is the anchorage free of bent, broken, missing or loose hardware?     In-line Valve	Y□ N□ U□ N/A⊠
Is the anchorage free of corrosion that is more than mild surface oxidation?      In-line Valve	Y□ N□ U□ N/A⊠
4. Is the anchorage free of visible cracks in the concrete near the anchors?  In-line Valve	Y□ N□ U□ N/A⊠

<sup>&</sup>lt;sup>1</sup> Enter the equipment class name from EPRI 1025286, Appendix B: Classes of Equipment.

ATTACHMENT 9.6 SEIS	MIC WALKDOWN CHECKLIST FORM
Sheet 2 of 4	
Seismic Walkdown Checklist (SWC) <u>SWEL1- 031</u>	Status: Y⊠ N□ U□
Equipment ID No. <u>SV-1470</u> Equip. Class <sup>1</sup> <u>8 - MOTOR-OPERA</u> <u>OPERATED VALVES</u>	TED AND SOLENOID
Equipment Description <u>EDG 1-1 FUEL OIL RESVR INLET FROM DAY TANK</u>	
<ol> <li>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.)</li> </ol>	Y□ N□ U□ N/A⊠
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? In-Line Valve	Y⊠ N□ U□
Interaction Effects	
7. Are soft targets free from impact by nearby equipment or structures?	Y⊠ N□ U□ N/A□
Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	Y⊠ N□ U□ N/A□
9. Do attached lines have adequate flexibility to avoid damage?	Y⊠ N□ U□ N/A□
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	Y⊠ N□ U□

ATTACHMENT 9.6	SE	ISMIC WAL	KDOWN CH	ECKLIST FORM
Sheet 3 of 4			·	
		Sta	tus: YX	$N \square U \square$
Seismic Walkdown Checklist (SWC)	SWEL1- 031			
Equipment ID No. SV-1470	Equip. Class <sup>1</sup> <u>8 - MOTOR-OPER</u> <u>OPERATED VALVES</u>	ATED AN	D SOLEN	<u> </u>
Equipment Description EDG 1-1 FUEL OI	L RESVR INLET FROM DAY TANK	<		
Other Adverse Conditions				
<ol> <li>Have you looked for and found no of adversely affect the safety functions</li> </ol>		1 🛚 Y	N□ U□	
Comments (Additional pages may be adde	ed as necessary)			
Evaluated by: Alex Smerch	-2-	Date:	10/03/201	12
Parl & X	lein			
Paul Klein		<del></del>	<u>10/03/201</u>	12

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 4 of 4	Status: Y⊠ N⊟ U⊟
Seismic Walkdown Checklist (SWC) <u>SWEL1-</u>	031
Equipment ID No. SV-1470 Equip. Class OPERATEL	s <sup>1</sup> _8 - <u>MOTOR-OPERATED AND SOLENOID</u> D VALVES
Equipment Description EDG 1-1 FUEL OIL RESVR IN	LET FROM DAY TANK
Photographs	
Note: SV 1470	Noto
Note: SV-1470	Note:

ATTACHMENT 9.6 SEISM	IIC WALKDOWN CHECKLIST FORM
Sheet 1 of 5	
Seismic Walkdown Checklist (SWC)SWEL1032	Status: Y⊠ N□ U□
Equipment ID No. <u>SV-1471</u> Equip. Class <sup>1</sup> 8 - <u>MOTOR-OPERAT</u>	ED AND SOLENOID-
OPERATED VALVES	
Equipment Description EDG 1-2 FUEL OIL RESVR INLET FROM DAY TANK	
Location: Bldg. <u>AUX</u> Floor El. <u>590</u> Room, Area <u>116B</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 SWEL. The space below each of the following questions may be used to record findings. Additional space is provided at the end of this checklist for documenting	the results of judgments and
Anchorage	
1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?	Y□ N⊠
Is the anchorage free of bent, broken, missing or loose hardware?     In-line Valve	Y□ N□ U□ N/A⊠
Is the anchorage free of corrosion that is more than mild surface oxidation?      In-line Valve	Y⊠ N□ U□ N/A⊠
Is the anchorage free of visible cracks in the concrete near the anchors?      In-line Valve	Y□ N□ U□ N/A⊠

<sup>&</sup>lt;sup>1</sup> Enter the equipment class name from EPRI 1025286, Appendix B: Classes of Equipment.

ATTACHMENT 9.6	SEISI	MIC WALKDOWN CHECKLIST FORM
Sheet 2 of 5	CWEL4 020	Status: Y⊠ N⊡ U⊡
Seismic Walkdown Checklist (SWC)	SWEL1- 032	
Equipment ID No. SV-1471	Equip. Class <sup>1</sup> <u>8 - MOTOR-OPERA</u> OPERATED VALVES	TED AND SOLENOID-
Equipment Description EDG 1-2 FUEL OIL	RESVR INLET FROM DAY TANK	
<ol> <li>Is the anchorage configuration cons (Note: This question only applies if t an anchorage configuration verificat</li> </ol>	he item is one of the 50% for which	Y□ N□ U□ N/A⊠ ,
Based on the above anchorage evaluation potentially adverse seismic condition In-line Valve		Y⊠ N□ U□
7. Are soft targets free from impact by	nearby equipment or structures?	Y⊠ N U U N/A □
Are overhead equipment, distributio and masonry block walls not likely to Air supply duct above is well support	collapse onto the equipment?	Y⊠ N□ U□ N/A□
9. Do attached lines have adequate fle	exibility to avoid damage?	Y⊠ N□ U□ N/A□
Based on the above seismic interaction of potentially adverse seismic interaction.		Y⊠ N□ U□

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 3 of 5	
	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) SWEL1- 032	
Equipment ID No. SV-1471 Equip. Class 1 8 - MOTO OPERATED VALVES	OR-OPERATED AND SOLENOID-
Equipment Description <u>EDG 1-2 FUEL OIL RESVR INLET FROM L</u>	DAY TANK
Other Adverse Conditions	
11. Have you looked for and found no other seismic conditions the adversely affect the safety functions of the equipment?	nat could Y⊠ N□ U□
Comments (Additional pages may be added as necessary)	
Evaluated by: Alex Smerch Mue	Date: <u>10-15-12</u>
Paul Klein Forl & Llin	10-15-12

**ATTACHMENT 9.6** 

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 4 of 5

Status: Y⊠ N□ U□

Seismic Walkdown Checklist (SWC) SWEL1- 032

Equipment ID No. SV-1471 Equip. Class 8 - MOTOR-OPERATED AND SOLENOID-OPERATED VALVES

Equipment Description EDG 1-2 FUEL OIL RESVR INLET FROM DAY TANK

## **Photographs**



Note: SV-1471



Note: Close up of mounting.

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 5 of 5 Seismic Walkdown Checklist (SWC) <u>SWEL1- 032</u>	Status: Y⊠ N□ U□
Equipment ID No. <u>SV-1471</u> Equip. Class <sup>1</sup> <u>8 - OPERATED VAL</u>	MOTOR-OPERATED AND SOLENOID- VES
Equipment Description EDG 1-2 FUEL OIL RESVR INLET FI	ROM DAY TANK
A supplemental and the supplem	
Note: 01/4/74	
Note: SV-1471 general configuration.	e:

ATTACHMENT 9.6 SEIS	SMIC WALKDOWN CHECKLIST FORM
Sheet 1 of 4	
	Status: Y⊠ N☐ U☐
Seismic Walkdown Checklist (SWC) <u>SWEL1- 033</u>	
Equipment ID No. <u>V-24A</u> Equip. Class <sup>1</sup> 9 - FANS	
Equipment Description <u>5-6A DIESEL GENERATOR ROOM VENT FAN</u>	
Location: Bldg. <u>AUX</u> Floor El. <u>590</u> Room, Area <u>116</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 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 space is provided at the end of this checklist for the end of the space is provided at the end of the space is provided at the end of the space is provided at the end of	d the results of judgments and
Anchorage	
<ol> <li>Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?</li> </ol>	Y□ N⊠
Is the anchorage free of bent, broken, missing or loose hardware?  Fan is welded to plate channel framing embedded in concrete ceiling slab.	Y⊠ N□ U□ N/A□
<ol> <li>Is the anchorage free of corrosion that is more than mild surface oxidation?         There was no corrosion visible.     </li> </ol>	Y⊠ N□ U□ N/A□
4. Is the anchorage free of visible cracks in the concrete near the anchors?  The concrete ceiling supports the equipment.	Y⊠ N□ U□ N/A□

<sup>&</sup>lt;sup>1</sup> Enter the equipment class name from EPRI 1025286, Appendix B: Classes of Equipment.

ATTACHMENT 9.6 SEIS	MIC WALKDOWN CHECKLIST FORM
Sheet 2 of 4	
Seismic Walkdown Checklist (SWC) SWEL1- 033	Status: Y⊠ N□ U□
Equipment ID No. <u>V-24A</u> Equip. Class <sup>1</sup> 9 - FANS	
Equipment Description 5-6A DIESEL GENERATOR ROOM VENT FAN	
<ol> <li>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.)</li> </ol>	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? Hanging just under ceiling slab.	Y□ N□ U□ N/A⊠
9. Do attached lines have adequate flexibility to avoid damage?	Y⊠ N□ U□ N/A□
Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	Y⊠ N□ U□

ATTACHMENT 9.6	SEISM	IIC WALKDOWN CHECKLIST FORM
Sheet 3 of 4		
Seismic Walkdown Checklist (SWC)	SWEL1- 033	Status: Y⊠ N□ U□
Equipment ID No. <u>V-24A</u> Eq	uip. Class <sup>1</sup> 9 - FANS	
Equipment Description 5-6A DIESEL GENER	ATOR ROOM VENT FAN	
Other Adverse Conditions		
<ol> <li>Have you looked for and found no othe adversely affect the safety functions of</li> </ol>		Y⊠ N□ U□
Comments (Additional pages may be added a	s necessary)	
Evaluated by: Alex Smerch	-	Date: 10/03/2012
Evaluated by: Alex Smerch Her Land	1.	40/02/0040
Paul Klein		10/03/2012

ATTACHMENT 9.6		SEISMIC WALKDOWN CHECKLIST FORM
Sheet 4 of 4		
Seismic Walkdown Checklist	(SWC) SWEL1- 033	Status: Y⊠ N□ U□
Equipment ID No. <u>V-24A</u>	Equip. Class <sup>1</sup> 9 - FAN	S
Equipment Description <u>5-6A DIES</u>	EL GENERATOR ROOM VENT	FAN
Photographs		
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Note: V-24A	Note:	
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ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 1 of 4	
	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) <u>SWEL1- 034</u>	
Equipment ID No. <u>V-24C</u> Equip. Class <sup>1</sup> <u>9 - FANS</u>	
Equipment Description <u>K-6B DIESEL GENERATOR ROOM VENT FAN</u>	
Location: Bldg. <u>AUX</u> Floor El. <u>590</u> Room, Area <u>116B</u>	
Manufacturer, Model, Etc. (optional but recommended)	
Instructions for Completing Checklist	
This checklist may be used to document the results of the Seismic Walkdo SWEL. The space below each of the following questions may be used to r findings. Additional space is provided at the end of this checklist for documents.	record the results of judgments and
<u>Anchorage</u>	
<ol> <li>Is the anchorage configuration verification required (i.e., is the item of the 50% of SWEL items requiring such verification)?</li> </ol>	none Y□ N⊠
2. Is the anchorage free of bent, broken, missing or loose hardware?  The fan is connected to the west side of the duct going through the above with 3 short bent plates each welded to the fan inlet and the duct.	e floor
<ol> <li>Is the anchorage free of corrosion that is more than mild surface oxidation?</li> <li>Mild surface corrosion was observed. The duct thru the floor above the bent plates appear to be unpainted.</li> </ol>	Y⊠ N□ U□ N/A□
4. Is the anchorage free of visible cracks in the concrete near the anchors? The fan appears to be supported from the duct. No support from the concrete was observed.	Y□ N□ U□ N/A፟⊠ ne

<sup>&</sup>lt;sup>1</sup> Enter the equipment class name from EPRI 1025286, Appendix B: Classes of Equipment.

ATTACHMENT 9.6 SEIS	MIC WALKDOWN CHECKLIST FORM
Sheet 2 of 4	
Seismic Walkdown Checklist (SWC) <u>SWEL1- 034</u>	Status: Y⊠ N□ U□
Equipment ID No. <u>V-24C</u> Equip. Class <sup>1</sup> 9 - FANS	
Equipment Description K-6B DIESEL GENERATOR ROOM VENT FAN	
<ol> <li>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.)</li> </ol>	Y□ N□ U□ N/A⊠
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	Y⊠ N□ U□
Interaction Effects  7. Are soft targets free from impact by nearby equipment or structures?	Y⊠ N□ U□ N/A□
Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	Y⊠ N□ U□ N/A□
9. Do attached lines have adequate flexibility to avoid damage?  Duct downstream of the fan is flexible.	Y⊠ N□ U□ N/A□
Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	Y⊠ N□ U□

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 3 of 4	Status: Y⊠ N⊡ U⊡
Seismic Walkdown Checklist (SWC) SWEL1- 034	900
Equipment ID No. <u>V-24C</u> Equip. Class <sup>1</sup> <u>9 - FANS</u>	
Equipment Description K-6B DIESEL GENERATOR ROOM VENT FAM	l .
Other Adverse Conditions	
11. Have you looked for and found no other seismic conditions that of adversely affect the safety functions of the equipment?	ould Y⊠ N□ U□
<u>Comments</u> (Additional pages may be added as necessary)	
Evaluated by: Alex Smerch Her Long	Date: 10-15-12
P0190:	
Paul Klein	10-15-12

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 4 of 4	
Seismic Walkdown Checklist (SWC) SWEL1- 034	Status: Y⊠ N□ U□
Equipment ID No. <u>V-24C</u> Equip. Class <sup>1</sup> <u>9 - FANS</u>	
Equipment Description K-6B DIESEL GENERATOR ROOM VENT	FAN
Photographs	40 40
	10 (10 mg) (10
	2. I i i i i i i i i i i i i i i i i i i
Note: Fan V-24C Note:	

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 1 of 4	
·	Status: Y☐ N⊠ U☐
Seismic Walkdown Checklist (SWC) <u>SWEL1- 035</u>	
Equipment ID No. <u>V-3A</u> Equip. Class <sup>1</sup> <u>9, FANS</u>	
Equipment Description CONTAINMENT COOLER RECIRCULATION FA	N.
Location: Bldg. <u>CONT</u> Floor El. <u>590</u> Room, Area <u>143</u>	
Manufacturer, Model, Etc. (optional but recommended)	<del></del>
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	record the results of judgments and
<u>Anchorage</u>	
1. 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
Is the anchorage free of corrosion that is more than mild surface oxidation?	Y_ N_ U_ N/A_
Is the anchorage free of visible cracks in the concrete near the anchors?	Y

<sup>&</sup>lt;sup>1</sup> Enter the equipment class name from EPRI 1025286, Appendix B: Classes of Equipment.

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 2 of 4	
Seismic Walkdown Checklist (SWC) SWEL1- 035	Status: Y☐ N⊠ U☐
Equipment ID No. <u>V-3A</u> Equip. Class <sup>1</sup> 9, FANS	
Equipment Description CONTAINMENT COOLER RECIRCULATION FA	AN
<ol> <li>Is the anchorage configuration consistent with plant documentation (Note: This question only applies if the item is one of the 50% for van anchorage configuration verification is required.)</li> </ol>	n? Y□ N□ U□ N/A□ which
6. Based on the above anchorage evaluations, is the anchorage free potentially adverse seismic conditions?	of Y NUU
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 light and masonry block walls not likely to collapse onto the equipment?	
9. Do attached lines have adequate flexibility to avoid damage?	Y N U N/A
10. Based on the above seismic interaction evaluations, is equipment of potentially adverse seismic interaction effects?	free Y N U

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 3 of 4	
	Status: Y□ N⊠ U□
Seismic Walkdown Checklist (SWC) <u>SWEL1- 035</u>	
Equipment ID No. <u>V-3A</u> Equip. Class <sup>1</sup> <u>9, FANS</u>	
Equipment Description CONTAINMENT COOLER RECIRCULATION FA	NN
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
	<del></del>
<u>Comments</u> (Additional pages may be added as necessary)	
Item is inaccessible and is deferred.	
Evaluated by:	Date:

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 4 of 4	
	Status: Y☐ N⊠ U☐
Seismic Walkdown Checklist (SWC) _ SWE	<u>L1- 035</u>
Equipment ID No. V-3A Equip.	Class <sup>1</sup> 9. FANS
Equipment Description <u>CONTAINMENT COOLER</u>	
	TRECINGUEATION FAIN
Photographs	
Note:	Note:

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 1 of 4	
	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) <u>SWEL1- 036</u>	
Equipment ID No. <u>V-95</u> Equip. Class <sup>1</sup> 9, FANS	
Equipment Description CONTROL ROOM VENTILATION MAIN SUPPLY	'FAN
Location: Bldg. AUX Floor El. 629.17 Room, Area 300	
Manufacturer, Model, Etc. (optional but recommended)	
Instructions for Completing Checklist	
This checklist may be used to document the results of the Seismic Walkdor SWEL. The space below each of the following questions may be used to refindings. Additional space is provided at the end of this checklist for documents.	ecord the results of judgments and
<u>Anchorage</u>	
<ol> <li>Is the anchorage configuration verification required (i.e., is the item of the 50% of SWEL items requiring such verification)?</li> </ol>	one Y⊠ N□
2. Is the anchorage free of bent, broken, missing or loose hardware?  Equipment anchorage consists of 8 bolts to the flanges of beams the comprise a platform.	Y⊠ N□ U□ N/A□ nat
Is the anchorage free of corrosion that is more than mild surface oxidation?      Minor oxidation noted on the bolts.	Y⊠ N□ U□ N/A□
Is the anchorage free of visible cracks in the concrete near the anchors?      Equipment is mounted on a steel platform.	Y□ N□ U□ N/A⊠

<sup>&</sup>lt;sup>1</sup> Enter the equipment class name from EPRI 1025286, 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- 036</u>	
Equipment ID No. <u>V-95</u> Equip. Class <sup>1</sup> <u>9, FANS</u>	
Equipment Description CONTROL ROOM VENTILATION MAIN SUPPLY FAN	
<ol> <li>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.)</li> <li>The equipment anchorage configuration is consistent with drawings M-90, Sh. 10, Rev. I and C-456, Rev. 11.</li> </ol>	Y⊠ N□ U□ N/A□
Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	Y⊠ N□ U□
Interaction Effects	
<ol> <li>Are soft targets free from impact by nearby equipment or structures?         Item is not a soft target.     </li> </ol>	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 fixtures supported by chains and attached with S hooks noted adjacent to equipment. The light fixtures and bulbs are judged not to be a credible or significant interaction.	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 FORM
Sheet 3 of 4	
Seismic Walkdown Checklist (SWC)SWEL1036	Status: Y⊠ N⊡ U⊡
Equipment ID No. V-95 Equip. Class <sup>1</sup> 9, FANS	
Equipment Description <u>CONTROL ROOM VENTILATION MAIN SUPPLY</u>	'FAN
Other Adverse Conditions	
11. Have you looked for and found no other seismic conditions that cound adversely affect the safety functions of the equipment?	ıld Y⊠ N□ U□
	•
Comments (Additional pages may be added as necessary)	
The bolts along the northeast and east sides of the equipment were underside of the platform.	e visually inspected from the
	·
Evaluated by: Kevin Bessell Line Bull	Date: <u>10/3/2012</u>
Evaluated by: Kevin Bessell L. B. B. B. Tim Crocker	10/3/2012

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 4 of 4	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) SWEL1- 036	
Equipment ID No. <u>V-95</u> Equip. Class 1 <u>9, FANS</u>	
Equipment Description CONTROL ROOM VENTILATION MAIN SU	JPPLY FAN
Photographs	
Note: Equipment.  Note:	

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 1 of 4	
Seismic Walkdown Checklist (SWC) SWEL1- 037	Status: Y⊠ N□ U□
Equipment ID No. V-96 Equip. Class <sup>1</sup> 9, FANS	
Equipment Description CONTROL ROOM VENTILATION MAIN SUPPLY	FAN
Location: Bldg. <u>AUX</u> Floor El. <u>629.17</u> Room, Area <u>300A</u>	770
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⊠
<ol> <li>Is the anchorage free of bent, broken, missing or loose hardware?         Equipment anchorage consists of 8 bolts to the flanges of beams the comprise a platform.     </li> </ol>	Y⊠ N⊡ U⊡ N/A⊡ aat
Is the anchorage free of corrosion that is more than mild surface oxidation?      Minor oxidation noted on the north and south bolt at the west end or unit.	Y⊠ N□ U□ N/A□
Is the anchorage free of visible cracks in the concrete near the anchors?      Equipment is mounted on a steel platform.	Y□ N□ U□ N/A⊠

<sup>&</sup>lt;sup>1</sup> Enter the equipment class name from EPRI 1025286, Appendix B: Classes of Equipment.

ATTACHMENT 9.6 SEISM	IIC WALKDOWN CHECKLIST FORM
Sheet 2 of 4  Seismic Walkdown Checklist (SWC) SWEL1- 037	Status: Y⊠ N□ U□
Equipment ID No. <u>V-96</u> Equip. Class <sup>1</sup> 9, FANS	
Equipment Description CONTROL ROOM VENTILATION MAIN SUPPLY FAN	
<ol> <li>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.)</li> </ol>	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	
<ol> <li>Are soft targets free from impact by nearby equipment or structures?         Item is not a soft target.     </li> </ol>	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 fixtures supported by chains and attached with S hooks noted adjacent to equipment. The light fixtures and bulbs are judged not to be a credible or significant interaction.	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 FORM
Sheet 3 of 4	
Colonia Walladawa Obsaldiat (CWO) CWELL 007	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) SWEL1- 037	
Equipment ID No. <u>V-96</u> Equip. Class <sup>1</sup> <u>9, FANS</u>	
Equipment Description CONTROL ROOM VENTILATION MAIN SUPPL	YFAN
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)	
The bolt on the north side of the unit, west end, was visually inspesince this bolt was inaccessible from the topside of the platform. unit were visually inspected by climbing an a-frame ladder which room.	The bolts along the west side of the
Evaluated by: Kevin Bessell L. B.	Date: 10/16/2012
Evaluated by: Kevin Bessell L. Bull  John Kao  John Kao	10/16/2012

Sheet 4 of 4

Seismic Walkdown Checklist Form

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1- 037

Equipment ID No. V-96

Equip. Class 9, FANS

Equipment Description CONTROL ROOM VENTILATION MAIN SUPPLY FAN

## **Photographs**



**Note:** Equipment view on top of steel platform looking west.



Note: View of anchorage beneath platform looking

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 1 of 5	
·	Status: Y☐ N⊠ U☐
Seismic Walkdown Checklist (SWC) <u>SWEL1- 040</u>	
Equipment ID No. <u>VHX-1</u> Equip. Class <sup>1</sup> <u>10, AIR HANDL</u>	ERS
Equipment Description CONTAINMENT AIR COOLER	
Location: Bldg. CONT Floor El. 590 Room, Area 143	
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
<u>Anchorage</u>	
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?	Y N U N/A
Is the anchorage free of corrosion that is more than mild surface oxidation?	Y□ N□ U□ N/A□
Is the anchorage free of visible cracks in the concrete near the anchors?	Y N U N/A

<sup>&</sup>lt;sup>1</sup> Enter the equipment class name from EPRI 1025286, Appendix B: Classes of Equipment.

ATTACHMENT 9.6 SE	ISMIC WALKDOWN CHECKLIST FORM
Sheet 2 of 5	Status: Y☐ N⊠ U☐
Seismic Walkdown Checklist (SWC) SWEL1- 040  Equipment ID No. VHX-1 Equip. Class 10, AIR HANDLER	ne.
Equipment Description <u>CONTAINMENT AIR COOLER</u>	
Is the anchorage configuration consistent with plant documentation?  (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)	Y N U N/A
Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	Y N U
Interaction Effects  7. Are soft targets free from impact by nearby equipment or structures?	Y_ N_ U_ N/A_
Are overhead equipment, distribution systems, ceiling tiles and lighting and masonry block walls not likely to collapse onto the equipment?	i, 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 FORM
Sheet 3 of 5	
	Status: Y☐ N⊠ U☐
Seismic Walkdown Checklist (SWC) <u>SWEL1- 040</u>	
Equipment ID No. <u>VHX-1</u> Equip. Class <sup>1</sup> <u>10, AIR HANDL</u>	ERS
Equipment Description CONTAINMENT AIR COOLER	
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)	
Item is inaccessible and will be deferred.	
,	
Evaluated by:	Date:

ATTACHMENT 9.6		SEISMIC WALKDOWN CHECKLIST FORM
Sheet 4 of 5		
		Status: Y☐ N⊠ U☐
Seismic Walkdown Checklist (SWC)	SWEL1- 040	
Equipment ID No. VHX-1	Equip. Class <sup>1</sup> _ <i>10, AIR HAI</i>	NDLERS
Equipment Description CONTAINMENT A	NR COOLER	
Photographs		
,		
N-4	No.	
Note:	Note:	

ATTACHMENT 9.6		SEISI	MIC WALKDOWN CHECKLIST FORM
Sheet 5 of 5			
			Status: Y□ N⊠ U□
Seismic Walkdown Checklist (SWC) _	SWEL1-	040	
Equipment ID No. VHX-1	Equip. Class	s <sup>1</sup> 10, AIR HANDLERS	
Equipment Description CONTAINMENT AIR	R COOLER		
r			
Note:		Note:	

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 1 of 5	
	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) <u>SWEL1- 042</u>	
Equipment ID No. <u>VC-10</u> Equip. Class <sup>1</sup> <u>11, CHILLERS</u>	
Equipment Description CONTROL ROOM HVAC REFRIG CONDENSING	GUNIT
Location: Bldg. AUX Floor El. 629.17 Room, Area 300A	
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⊠
<ol> <li>Is the anchorage free of bent, broken, missing or loose hardware?         Equipment is anchored to a pedestal on the floor. Anchorage const of 4 cast in place anchors per pedestal, 8 anchor bolts in total.     </li> </ol>	Y⊠ N□ U□ N/A□ ists
Is the anchorage free of corrosion that is more than mild surface oxidation?      Anchors are galvanized.	Y⊠ N□ U□ N/A□
Is the anchorage free of visible cracks in the concrete near the anchors?  Surface cracks noted on the south side of the east pedestal.	Y⊠ N□ U□ N/A□

<sup>&</sup>lt;sup>1</sup> Enter the equipment class name from EPRI 1025286, Appendix B: Classes of Equipment.

ATTACHMENT 9.6 SEISI	MIC WALKDOWN CHECKLIST FORM
Sheet 2 of 5	
	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) <u>SWEL1- 042</u>	
Equipment ID No. <u>VC-10</u> Equip. Class <sup>1</sup> <u>11, CHILLERS</u>	
Equipment Description CONTROL ROOM HVAC REFRIG CONDENSING UNI	TT .
<ol> <li>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.)</li> </ol>	Y□ N□ U□ N/A⊠
Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	Y⊠ N□ U□
Interaction Effects	
7. Are soft targets free from impact by nearby equipment or structures?	Y⊠ N□ U□ N/A□
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Fluorescent light fixtures overhead of instruments on chiller. Light fixtures hanging from chains with S hooks. Light fixtures judged not to come off S hooks due to vertical seismic acceleration < 1.0g. Some of the hooks are crimped and there is also large cable attached at top of light providing stiffness in the vertical direction preventing upwards deflection. Fluorescent light is a credible interaction, however judged insignificant due to relatively low mass.	Y⊠ N□ U□ N/A□
<ol> <li>Do attached lines have adequate flexibility to avoid damage?         Attached with flex conduit and lines/ducts have flexible support configurations/bends.     </li> </ol>	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- 042</u>	
Equipment ID No. VC-10 Equip. Class <sup>1</sup> 11, CHILLERS	
Equipment Description CONTROL ROOM HVAC REFRIG CONDENSING	G UNIT
Other Adverse Conditions	
11. Have you looked for and found no other seismic conditions that cou adversely affect the safety functions of the equipment? Minor oil leaks noted on pedestals.	ıld Y⊠ N□ U□
<u>Comments</u> (Additional pages may be added as necessary)	
Evaluated by: Kevin Bessell L. B. B. B. Kao  John Kao	Date: <u>10/16/2012</u>
John Kao	10/16/2012

**ATTACHMENT 9.6** 

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 4 of 5

Status: Y⊠ N□ U□

Seismic Walkdown Checklist (SWC) SWEL1- 042

Equipment ID No. VC-10 Equip. Class 1 11, CHILLERS

Equipment Description CONTROL ROOM HVAC REFRIG CONDENSING UNIT

## **Photographs**



Note: Equipment view looking southwest.



Note: Equipment view looking northwest.

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 5 of 5  Seismic Walkdown Checklist (SWC) SWEL1- 042	
Equipment ID No. <u>VC-10</u> Equip. Class <sup>1</sup> <u>11</u>	, CHILLERS
Equipment Description CONTROL ROOM HVAC REFRIG C	ONDENSING UNIT
ATTENTION PRIOR TO BREACHING SYSTEM, CONTINCT SHIFT SUPERVISOR TO NITTIATE COMPRISTOR WEXUES	
Note: Equipment anchorage, east pedestal.	te:

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FOR
Sheet 1 of 4	
	Status: Y⊠ N⊟ U⊟
Seismic Walkdown Checklist (SWC) <u>SWEL1- 043</u>	
Equipment ID No. VC-11 Equip. Class 1 11, CHILLERS	<u> </u>
Equipment Description CONTROL ROOM HVAC REFRIG CONDENSIN	G UNIT
Location: Bldg. <u>AUX</u> Floor El. <u>629.17</u> Room, Area <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 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 docur	
Anchorage	
Is the anchorage configuration verification required (i.e., is the item	n one Y⊠ N□
of the 50% of SWEL items requiring such verification)?	TORE TO THE
2. Is the anchorage free of bent, broken, missing or loose hardware?	Y⊠ N□ U□ N/A□
Equipment is anchored to a pedestal on the floor. Anchorage con- of 4 cast in place anchors per pedestal, 8 anchor bolts in total.	sists
or 4 cast in place anchors per pedestal, o anchor boits in total.	
<ol><li>Is the anchorage free of corrosion that is more than mild surface oxidation?</li></ol>	Y⊠ N□ U□ N/A□
Minimal surface oxidation observed on the anchors.	
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Y⊠ N□ U□ N/A□
Minor temperature and shrinkage cracks observed in pedestal and floor. Cracks are not a concern.	1
11001. Gradito dio fiot a dollociti.	

<sup>&</sup>lt;sup>1</sup> Enter the equipment class name from EPRI 1025286, Appendix B: Classes of Equipment.

		SMIC WALKDOWN CHECKLIST FORM
Sheet 2 Seism	ic Walkdown Checklist (SWC) <u>SWEL1- 043</u>	Status: Y⊠ N□ U□
Equipm	nent ID No. <u>VC-11</u> Equip. Class <sup>1</sup> <u>11, CHILLERS</u>	
Equipm	nent Description CONTROL ROOM HVAC REFRIG CONDENSING UN	IIT
	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 equipment anchorage configuration is consistent with drawing C-455(Q), Rev. 12.	Y⊠ N□ U□ N/A□
	Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	Y⊠ N□ U□
	·	
Interac	tion Effects	
	Are soft targets free from impact by nearby equipment or structures? Fluorescent light fixtures overhead of instruments on chiller. Light fixtures hanging from chains with S hooks. Light fixtures judged not to come off S hooks due to vertical seismic acceleration < 1.0g. Some of the hooks are crimped and there is also large cable attached at top of light providing stiffness in the vertical direction preventing upwards deflection. Fluorescent light is a credible interaction, however judged insignificant due to relatively low mass.	Y⊠ N□ U□ N/A□.
8.	Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? A large heater, VEH-37A, hangs over the east side of the chiller. This heater is supported with large tube steel and anchored to wall with large anchors and judged not to be a credible interaction. A plastic exit sign is anchored with 2 small screws over the west side of the chiller. The weight of the sign is judged to be relatively small and the screws are adequate to support the sign, therefore no credible interaction.	Y⊠ N□ U□ N/A□
9.	Do attached lines have adequate flexibility to avoid damage?  Attached with flex conduit and lines/ducts have flexible support configurations/bends.	Y⊠ N□ U□ N/A□
	Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	Y⊠ N□ U□

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 3 of 4	
Seismic Walkdown Checklist (SWC) SWEL1- 043	Status: Y⊠ N□ U□
Equipment ID No. <u>VC-11</u> Equip. Class <sup>1</sup> <u>11, CHILLERS</u>	
Equipment Description CONTROL ROOM HVAC REFRIG CONDENSING	G UNIT
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□
<u>Comments</u> (Additional pages may be added as necessary)	
Evaluated by: Kevin Bessell	Date: <u>10/3/2012</u>
Evaluated by: Kevin Bessell Lind Parker  Tim Crocker  Tim Crocker	
<u>Tim Crocker</u>	<u>10/3/2012</u>

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 4 of 4  Seismic Walkdown Checklist (SWC) <u>SWEL1-</u>	Status: Y⊠ N□ U□
Equipment ID No. VC-11 Equip. Class <sup>1</sup>	11, CHILLERS
Equipment Description CONTROL ROOM HVAC REFRI	G CONDENSING UNIT
Photographs	
000	
Note: Equipment.	Note:

ATTACHMENT 9.6	SEI	SMIC WALKDOWN CHECKLIST FORM
Sheet 1 of 4		
Science Malkdown Chacklist (SMC) SMI	=1.4 0.44	Status: Y⊡ N⊡ U⊠
Seismic Walkdown Checklist (SWC)SWI	<u> </u>	
	. Class <sup>1</sup> _ <u>14, DISTRIBUTION</u> SFER SWITCHES	PANELS AND AUTOMATIC
Equipment Description 125 VOLTS DC DISTRIB	UTION PANEL	
Location: Bldg. <u>AUX</u> Floor El. <u>590</u>	Room, Area 116A	
Manufacturer, Model, Etc. (optional but recommer	ded)	
Instructions for Completing Checklist		
This checklist may be used to document the result SWEL. The space below each of the following que findings. Additional space is provided at the end o	stions may be used to recor	d the results of judgments and
Anchorage		
Is the anchorage configuration verification of the 50% of SWEL items requiring such verification.		Y⊠ N□
Is the anchorage free of bent, broken, miss     Equipment is anchored to concrete wall with	•	Y⊠ N□ U□ N/A□
3. Is the anchorage free of corrosion that is movidation?  There is no corrosion on the anchors.	ore than mild surface	Y⊠ N□ U□ N/A□
4. Is the anchorage free of visible cracks in the anchors?  Equipment is anchored to concrete wall. N		Y⊠ N□ U□ N/A□

<sup>&</sup>lt;sup>1</sup> Enter the equipment class name from EPRI 1025286, Appendix B: Classes of Equipment.

ATTACHMENT 9.6 SEIS	MIC WALKDOWN CHECKLIST FORM
Sheet 2 of 4	
Seismic Walkdown Checklist (SWC)SWEL1044	Status: Y☐ N☐ U⊠
Equipment ID No. <u>ED-11A</u> Equip. Class <sup>1</sup> <u>14, DISTRIBUTION</u> TRANSFER SWITCHES	PANELS AND AUTOMATIC
Equipment Description 125 VOLTS DC 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.) Anchorage configuration is consistent with drawing VEN-E13, Sh. 36, Rev. 76 and SEWS Sht. 5 of 9.	Y⊠ N□ U□ N/A□
Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	Y⊠ N□ U□
Interaction Effects	
7. Are soft targets free from impact by nearby equipment or structures?	Y⊠ N□ U□ N/A□
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?  Fluorescent light noted above, however, interaction judged insignificant due to small mass and stiffness of source relative to target.	Y⊠ N□ U□ N/A□
9. Do attached lines have adequate flexibility to avoid damage?	Y⊠ N□ U□ N/A□
Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	Y⊠ N□ U□

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 3 of 4	
	Status: Y☐ N☐ U⊠
Seismic Walkdown Checklist (SWC) <u>SWEL1- 044</u>	
Equipment ID No. <u>ED-11A</u> Equip. Class 1 <u>14, DISTRIBUT</u> <u>TRANSFER SWITCHES</u>	TION PANELS AND AUTOMATIC
Equipment Description 125 VOLTS DC DISTRIBUTION PANEL	
Other Adverse Conditions	
11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment?  The panel was unable to be opened due to plant sensitive equipme Equipment has been deferred for inspection.	
Comments (Additional pages may be added as necessary)	
Evaluated by: Kevin Bessell Lin Bull  John Kao  John Kao	Date: <u>10/3/2012</u>
John Kao	
John Kao	10/3/2012

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 4 of 4

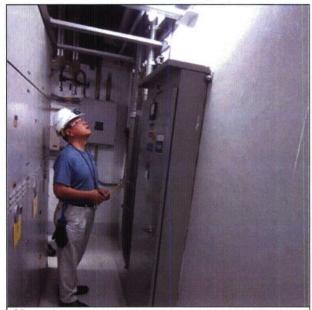
Status: Y □ N □ U ⊠

Seismic Walkdown Checklist (SWC) SWEL1- 044

Equipment ID No. <u>ED-11A</u> Equip. Class<sup>1</sup> <u>14, DISTRIBUTION PANELS AND AUTOMATIC</u> <u>TRANSFER SWITCHES</u>

Equipment Description 125 VOLTS DC DISTRIBUTION PANEL

## **Photographs**



Note: Equipment.



Note: Equipment.

ATTACHMENT 9.6 SEISI	MIC WALKDOWN CHECKLIST FORM
Sheet 1 of 4	
	Status: Y□ N□ U⊠
Seismic Walkdown Checklist (SWC) <u>SWEL1- 045</u>	
Equipment ID No. <u>ED-21A</u> Equip. Class <sup>1</sup> <u>14 - DISTRIBUTION</u> <u>TRANSFER SWITCHES</u>	PANELS AND AUTOMATIC
Equipment Description 125 VOLTS DC DISTRIBUTION PANEL	
Location: Bldg. <u>AUX</u> Floor El. <u>590</u> Room, Area <u>116B</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	
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	
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)?	I NM
2. Is the anchorage free of bent, broken, missing or loose hardware?	Y⊠ N□ U□ N/A□
ED-21A is bolted to a unistrut frame with 4-bolts thru tabs on the	
outside of the panel and the frame is mounted to the concrete wall with 8-concrete anchors.	
3. Is the anchorage free of corrosion that is more than mild surface	Y⊠ N□ U□ N/A□
oxidation?	
No oxidation in excess of mild surface oxidation was noted.	
4. Is the anchorage free of visible cracks in the concrete near the	Y⊠ N□ U□ N/A□
anchors? Unistrut frame supporting ED-21A anchored to concrete wall with 8	
Concrete anchors.	

<sup>&</sup>lt;sup>1</sup> Enter the equipment class name from EPRI 1025286, Appendix B: Classes of Equipment.

ATTACHMENT 9.6 SEIS	MIC WALKDOWN CHECKLIST FORM
Sheet 2 of 4	
Seismic Walkdown Checklist (SWC) <u>SWEL1- 045</u>	Status: Y□ N□ U⊠
Equipment ID No. <u>ED-21A</u> Equip. Class <sup>1</sup> <u>14 - DISTRIBUTION</u> TRANSFER SWITCHES	PANELS AND AUTOMATIC
Equipment Description 125 VOLTS DC DISTRIBUTION PANEL	
<ol> <li>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.)</li> </ol>	Y□ N□ U□ N/A⊠
Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	Y⊠ N□ U□
Interaction Effects	
7. Are soft targets free from impact by nearby equipment or structures?	Y⊠ N□ U□ N/A□
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?  Block wall next to panel is qualified by C-104.  Emergency lighting above appears to be well supported.	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 FORM
Sheet 3 of 4	
0:	Status: Y☐ N☐ U⊠
Seismic Walkdown Checklist (SWC) <u>SWEL1- 045</u>	
Equipment ID No. <u>ED-21A</u> Equip. Class <sup>1</sup> <u>14 - DISTR</u> <u>TRANSFER SWITCHES</u>	RIBUTION PANELS AND AUTOMATIC
Equipment Description 125 VOLTS DC DISTRIBUTION PANEL	
Other Adverse Conditions	
11. Have you looked for and found no other seismic conditions that adversely affect the safety functions of the equipment? Panel needs to be opened. Item is currently deferred with partie	4
walkdown of exterior and anchorage completed.	
Comments (Additional pages may be added as necessary)	
Evaluated by: Alex Smerch Her Loin	Date: 10-15-12
P 0 1 2 0.	
Paul Klein	10-15-12

**ATTACHMENT 9.6** 

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 4 of 4

Status: Y □ N □ U ⊠

Seismic Walkdown Checklist (SWC) SWEL1- 045

Equipment ID No. ED-21A

\_ Equip. Class<sup>1</sup>\_14 - DISTRIBUTION PANELS AND AUTOMATIC TRANSFER SWITCHES

Equipment Description 125 VOLTS DC DISTRIBUTION PANEL

## **Photographs**



Note: Front View of ED-21A



Note: Side view of ED-21A

ATTACHMENT 9.6 Seism	IIC WALKDOWN CHECKLIST FORM
Sheet 1 of 4	
Seismic Walkdown Checklist (SWC) <u>SWEL1- 046</u>	Status: Y⊠ N□ U□
Equipment ID No. <u>EY-10</u> Equip. Class <sup>1</sup> <u>14, DISTRIBUTION F</u> TRANSFER SWITCHES	PANELS AND AUTOMATIC
Equipment Description PREFFERED AC BUS NO. 1 INVERTER	
Location: Bldg. <u>AUX</u> Floor El. <u>607</u> Room, Area <u>224</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 SWEL. The space below each of the following questions may be used to record findings. Additional space is provided at the end of this checklist for documenting	the results of judgments and
Anchorage  1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?	Y□ N⊠
<ol> <li>Is the anchorage free of bent, broken, missing or loose hardware?         The component is a breaker distribution panel which is mounted internally with 6 flat head cap screws.     </li> </ol>	Y⊠ N□ U□ N/A□
Is the anchorage free of corrosion that is more than mild surface oxidation?      No corrosion noted.	Y⊠ N□ U□ N/A□
4. Is the anchorage free of visible cracks in the concrete near the anchors? The component is mounted internally to the cabinet.	Y NUUN/A

<sup>&</sup>lt;sup>1</sup> Enter the equipment class name from EPRI 1025286, Appendix B: Classes of Equipment.

ATTACHMENT 9.6	SEIS	MIC WALKDOWN CHECKLIST FORM
Sheet 2 of 4		
Seismic Walkdown Checklist (SWC)	SWEL1- 046	Status: Y⊠ N□ U□
Equipment ID No. <u>EY-10</u>	Equip. Class <sup>1</sup> <u>14, DISTRIBUTION</u> TRANSFER SWITCHES	PANELS AND AUTOMATIC
Equipment Description PREFFERED AC L	BUS NO. 1 INVERTER	
<ol> <li>Is the anchorage configuration cons (Note: This question only applies if t an anchorage configuration verificat</li> </ol>	he item is one of the 50% for which	Y□ N□ U□ N/A⊠
Based on the above anchorage evaluation potentially adverse seismic condition		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, distributio and masonry block walls not likely to The component panel is mounted in Refer to SWEL1-052.	o collapse onto the equipment?	Y⊠ N□ U□ N/A□
<ol><li>Do attached lines have adequate fle No lines observed, only breakers.</li></ol>	exibility to avoid damage?	Y□ N□ U□ N/A⊠
Based on the above seismic interaction of potentially adverse seismic interaction.		Y⊠ N□ U□

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 3 of 4	
	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) <u>SWEL1- 046</u>	
Equipment ID No. <u>EY-10</u> Equip. Class 1 <u>14, DISTRIBUT</u> <u>TRANSFER SWITCHES</u>	ION PANELS AND AUTOMATIC
Equipment Description PREFFERED AC BUS NO. 1 INVERTER	
Other Adverse Conditions	
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)	
Evaluated by: Kevin Bessell Li-Ball	· · · · · · · · · · · · · · · · · · ·
Evaluated by: Kevin Bessell	Date: 10/17/2012
John Kao	
John Kao 🔾	<u>10/17/2012</u>

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 4 of 4	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) SWEL1- 046	
Equipment ID No. <u>EY-10</u> Equip. Class <sup>1</sup> <u>14, DIS</u> <u>TRANSFER SWITCH</u>	STRIBUTION PANELS AND AUTOMATIC
Equipment Description PREFFERED AC BUS NO. 1 INVERTER	
Photographs	
Note: Equipment. Note:	

ATTACHMENT 9.6 SEIS	MIC WALKDOWN CHECKLIST FORM
Sheet 1 of 4	
Seismic Walkdown Checklist (SWC)SWEL1- 047	Status: Y⊠ N□ U□
Equipment ID No. <u>EY-20</u> Equip. Class <sup>1</sup> <u>14, DISTRIBUTION</u> TRANSFER SWITCHES	PANELS AND AUTOMATIC
Equipment Description PREFERRED AC BUS NO. 2 INVERTER	
Location: Bldg. <u>AUX</u> Floor El. <u>607</u> Room, Area <u>224</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 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 document in the space is provided at the end of this checklist for document in the space is provided at the end of this checklist for document in the space is provided at the end of this checklist for document in the space is provided at the end of this checklist for document in the space is provided at the end of this checklist for document in the space is provided at the end of this checklist for document in the space is provided at the end of this checklist for document in the space is provided at the end of this checklist for document in the space is provided at the end of this checklist for document in the space is provided at the end of this checklist for document in the space is provided at the end of the end of the space is provided at the end of the space is provided at the end of th	the results of judgments and
<u>Anchorage</u>	
1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?	Y□ N⊠
<ol> <li>Is the anchorage free of bent, broken, missing or loose hardware?         The component is a breaker distribution panel which is mounted internally with 6 flat head cap screws.     </li> </ol>	Y⊠ N□ U□ N/A□
Is the anchorage free of corrosion that is more than mild surface oxidation?      No corrosion noted.	Y⊠ N□ U□ N/A□
4. Is the anchorage free of visible cracks in the concrete near the anchors?  The component is mounted internally to the cabinet.	Y□ N□ U□ N/A⊠

<sup>&</sup>lt;sup>1</sup> Enter the equipment class name from EPRI 1025286, Appendix B: Classes of Equipment.

ATTACHMENT 9.6	Seis	MIC WALKDOWN CHECKLIST FORM
Sheet 2 of 4		
Seismic Walkdown Checklist (SWC) _	SWEL1- 047	Status: Y⊠ N□ U□
Equipment ID No. <u>EY-20</u>	Equip. Class <sup>1</sup> _ <u>14, DISTRIBUTION</u> TRANSFER SWITCHES	PANELS AND AUTOMATIC
Equipment Description PREFERRED AC B	US NO. 2 INVERTER	
<ol> <li>Is the anchorage configuration consist (Note: This question only applies if the an anchorage configuration verification</li> </ol>	e item is one of the 50% for which	Y□ N□ U□ N/A⊠
Based on the above anchorage evalue potentially adverse seismic condition		Y⊠ N□ U□
Interaction Effects  7. Are soft targets free from impact by r	nearby equipment or structures?	Y⊠ N□ U□ N/A□
8. Are overhead equipment, distribution and masonry block walls not likely to The component panel is mounted in Refer to SWEL1-053.	collapse onto the equipment?	Y⊠ N□ U□ N/A□
Do attached lines have adequate flex     No lines observed, only breakers.	cibility to avoid damage?	Y□ N□ U□ N/A⊠
Based on the above seismic interacti     of potentially adverse seismic interacti		Y⊠ N□ U□

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 3 of 4	
Seismic Walkdown Checklist (SWC) <u>SWEL1- 047</u>	Status: Y⊠ N□ U□
Equipment ID No. <u>EY-20</u> Equip. Class <sup>1</sup> <u>14, DI</u>	STRIBUTION PANELS AND AUTOMATIC HES
Equipment Description PREFERRED AC BUS NO. 2 INVERTER	?
Other Adverse Conditions	
Have you looked for and found no other seismic conditions adversely affect the safety functions of the equipment?	s that could Y⊠ N□ U□
<u>Comments</u> (Additional pages may be added as necessary)	
Evaluated by: Kevin Bessell  John Kao  John Kao	Date: <u>10/17/2012</u>
John Kao	10/17/2012

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 4 of 4  Seismic Walkdown Checklist (SWC) SWEL1- 047  Equipment ID No. EY-20 Equip. Class 1 14  TRANSFER SW.	1, DISTRIBUTION PANELS AND AUTOMATIC
Equipment Description PREFERRED AC BUS NO. 2 INVER	RTER
Photographs	
Note: Equipment.	ote:

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 1 of 4	
Seismic Walkdown Checklist (SWC) SWEL1- 048	Status: Y⊠ N□ U□
Equipment ID No. <u>EY-30</u> Equip. Class <sup>1</sup> <u>14, DISTRIBU</u> <u>TRANSFER SWITCHES</u>	TION PANELS AND AUTOMATIC
Equipment Description PREFERRED AC BUS NO. 3 INVERTER	
Location: Bldg. AUX Service Floor El. 607 Room, Area 224	
Manufacturer, Model, Etc. (optional but recommended)	
Instructions for Completing Checklist	
This checklist may be used to document the results of the Seismic Walkdo SWEL. The space below each of the following questions may be used to refindings. Additional space is provided at the end of this checklist for documents.	ecord the results of judgments and
Anchorage	
<ol> <li>Is the anchorage configuration verification required (i.e., is the item of the 50% of SWEL items requiring such verification)?</li> </ol>	n one Y□ N⊠
Is the anchorage free of bent, broken, missing or loose hardware?  The component is a breaker distribution panel which is mounted internally with 6 flat head cap screws.	Y⊠ N□ U□ N/A□
Is the anchorage free of corrosion that is more than mild surface oxidation?  No corrosion noted.	Y⊠ N□ U□ N/A□
4. Is the anchorage free of visible cracks in the concrete near the anchors?  The component is mounted internally to the cabinet.	Y□ N□ U□ N/A⊠

<sup>&</sup>lt;sup>1</sup> Enter the equipment class name from EPRI 1025286, Appendix B: Classes of Equipment.

ATTACH	IMENT 9.6	SEISI	MIC WALKDOWN CHECKLIST FORM
Sheet 2	2 of 4		
Seisn	nic Walkdown Checklist (SWC)	SWEL1- 048	Status: Y⊠ N□ U□
Equip	ment ID No. <u>EY-30</u>	Equip. Class <sup>1</sup> <u>14, DISTRIBUTION I</u> TRANSFER SWITCHES	PANELS AND AUTOMATIC
Equip	ment Description PREFERRED AC	BUS NO. 3 INVERTER	
5.	Is the anchorage configuration cons (Note: This question only applies if an anchorage configuration verifical	the item is one of the 50% for which	Y□ N□ U□ N/A⊠
6.	Based on the above anchorage eva potentially adverse seismic condition		Y⊠ N□ U□
Intera	ction Effects		
	Are soft targets free from impact by	nearby equipment or structures?	Y⊠ N□ U□ N/A□
8.	Are overhead equipment, distribution and masonry block walls not likely to the component panel is mounted in Refer to SWEL1-054.	o collapse onto the equipment?	Y⊠ N□ U□ N/A□
9.	Do attached lines have adequate flet No lines observed, only breakers.	exibility to avoid damage?	Y□ N□ U□ N/A⊠
10.	Based on the above seismic interaction of potentially adverse seismic interactions.		Y⊠ N□ U□

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 3 of 4	
Seismic Walkdown Checklist (SWC) <u>SWEL1- 048</u>	Status: Y⊠ N□ U□
Equipment ID No. <u>EY-30</u> Equip. Class <sup>1</sup> <u>14, DISTRIBUT</u> <u>TRANSFER SWITCHES</u>	TION PANELS AND AUTOMATIC
Equipment Description PREFERRED AC BUS NO. 3 INVERTER	
Other Adverse Conditions	
11. Have you looked for and found no other seismic conditions that countries adversely affect the safety functions of the equipment?	uld Y⊠ N□ U□
<u>Comments</u> (Additional pages may be added as necessary)	
Evaluated by: Kevin Bessell K. B. Kao	Date: <u>10/17/2012</u>
John Kao	10/17/2012

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 4 of 4 Seismic Walkdown Checklist (SWC) <u>SWEL1- 04</u>	Status: Y⊠ N□ U□
TRANSFER SW	
Equipment Description PREFERRED AC BUS NO. 3 INVE	RTER
Photographs	
Note: Equipment.	ote:

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 1 of 4	,
Seismic Walkdown Checklist (SWC) <u>SWEL1- 049</u>	Status: Y⊠ N□ U□
Equipment ID No. <u>EY-40</u> Equip. Class <sup>1</sup> <u>14, DISTRIBUTION</u> TRANSFER SWITCHES	ON PANELS AND AUTOMATIC
Equipment Description PREFERRED AC BUS NO.4 INVERTER	and the same of th
Location: Bldg. AUX Floor El. 607 Room, Area 224	
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 red findings. Additional space is provided at the end of this checklist for docume	cord the results of judgments and
Anchorage	
<ol> <li>Is the anchorage configuration verification required (i.e., is the item of of the 50% of SWEL items requiring such verification)?</li> </ol>	ne Y□ N⊠
<ol> <li>Is the anchorage free of bent, broken, missing or loose hardware?         The component is a breaker distribution panel which is mounted internally with 6 flat head screws.     </li> </ol>	Y⊠ N□ U□ N/A□
Is the anchorage free of corrosion that is more than mild surface oxidation?      No corrosion noted.	Y⊠ N□ U□ N/A□
Is the anchorage free of visible cracks in the concrete near the anchors?  The component is mounted internally to the cabinet.	Y N U N/A

<sup>&</sup>lt;sup>1</sup> Enter the equipment class name from EPRI 1025286, Appendix B: Classes of Equipment.

ATTACHMENT 9.6	S	EISMIC WALKDOWN CHECKLIST FORM
Sheet 2 of 4	and that (SMC) SMEL 4 040	Status: Y⊠ N⊡ U⊡
Equipment ID No. <u>EY-4</u>	necklist (SWC) <u>SWEL1- 049</u> © Equip. Class <sup>1</sup> 14, DISTRIBUTIO	ON PANELS AND AUTOMATIC
	TRANSFER SWITCHES	
	PREFERRED AC BUS NO.4 INVERTER	
(Note: This question	configuration consistent with plant documentation? on only applies if the item is one of the 50% for which figuration verification is required.)	Y□ N□ U□ N/A⊠ ch
	ve anchorage evaluations, is the anchorage free of a seismic conditions?	Y⊠ N□ U□
Interaction Effects  7. Are soft targets free	ee from impact by nearby equipment or structures?	Y⊠ N□ U□ N/A□
and masonry block	ipment, distribution systems, ceiling tiles and lightin k walls not likely to collapse onto the equipment? anel is mounted in the interior of cabinet ED-09.	g, Y⊠ N□ U□ N/A□
Do attached lines     No lines observed	have adequate flexibility to avoid damage? , only breakers.	Y□ N□ U□ N/A⊠
10. Based on the above of potentially adve	ve seismic interaction evaluations, is equipment free rse seismic interaction effects?	e Y⊠ N□ U□

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 3 of 4	
Seismic Walkdown Checklist (SWC) SWEL1- 049	Status: Y⊠ N□ U□
Equipment ID No. <u>EY-40</u> Equip. Class 1 <u>14, DIST</u> TRANSFER SWITCHE	TRIBUTION PANELS AND AUTOMATIC
Equipment Description PREFERRED AC BUS NO.4 INVERTER	
Other Adverse Conditions	
Have you looked for and found no other seismic conditions to adversely affect the safety functions of the equipment?	that could Y⊠ N□ U□
<u>Comments</u> (Additional pages may be added as necessary)	
Evaluated by: Kevin Bessell Lin Band  John Kao  John Kao	Date: <u>10/17/2012</u>
John Kao	10/17/2012

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 4 of 4  Seismic Walkdown Checklist (SWC) SWEL1- 049	Status: Y⊠ N□ U□
Equipment ID No. <u>EY-40</u> Equip. Class 1 <u>14, DISTR</u> <u>TRANSFER SWITCHES</u>	IBUTION PANELS AND AUTOMATIC
Equipment Description PREFERRED AC BUS NO.4 INVERTER	
Photographs	
Note: Equipment. Note:	

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FOR
Sheet 1 of 4	
	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) <u>SWEL1- 050</u>	
Equipment ID No. <u>ED-01</u> Equip. Class <sup>1</sup> <u>15, BATTERY R.</u>	ACKS
Equipment Description MAIN STATION BATTERY LEFT CHANNEL	
Location: Bldg. <u>AUX</u> Floor El. <u>607</u> Room, Area <u>225A</u>	
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	
<ol> <li>Is the anchorage configuration verification required (i.e., is the item of of the 50% of SWEL items requiring such verification)?</li> </ol>	one Y⊠ N□
2. Is the anchorage free of bent, broken, missing or loose hardware?  The equipment is supported on steel framed racks and is anchored weither 5/8" anchors or 1/2" expansion anchors to the concrete floor.  There is minimal thread engagement noted on the second support from the south wall on the west rack. The top of the anchor closest to the wall is flush with the top of the nut. This thread engagement is judge to be acceptable.	rom
<ol> <li>Is the anchorage free of corrosion that is more than mild surface oxidation?</li> <li>There is a white powdery substance on a small number of the ancho most likely due to a small battery acid leak. Anchors, however, are r degraded.</li> </ol>	
Is the anchorage free of visible cracks in the concrete near the anchors?  The first term of the concrete near the anchors.	Y⊠ N□ U□ N/A□
The floor is painted and no cracks were observed.	

<sup>&</sup>lt;sup>1</sup> Enter the equipment class name from EPRI 1025286, Appendix B: Classes of Equipment.

ATTACHMENT 9.6 SEISMIC WALKDOWN CHECKLIST FOR		
Sheet 2 of 4 Seismic Walkdown Checklist (SWC) <u>SWEL1- 050</u>	Status: Y⊠ N□ U□	
Equipment ID No. <u>ED-01</u> Equip. Class <sup>1</sup> <u>15, BAT</u>	TERY RACKS	
Equipment Description MAIN STATION BATTERY LEFT CHANN	EL	
5. Is the anchorage configuration consistent with plant docum (Note: This question only applies if the item is one of the 50 an anchorage configuration verification is required.)  The anchorage is consistent with drawings C-103, Sh. 4, R Sh. 10, Rev. 1 and SEWS Shts. 3 through 9 of 15.  Anchorage dimensional check for the anchorage for the rack west wall was difficult to perform. Measurements were take anchor bolts at the ends of the rack and also of the rack fravisual comparison considering relative distances and spaciused to judge anchor dimensions and spacing for the remarkalong the west wall and verified to be consistent with procumentation.	% for which ev. 4, C-103, ek along the en of the me. A ng were inder of the	
Based on the above anchorage evaluations, is the anchora potentially adverse seismic conditions?	ge free of Y⊠ N□ U□	
Interaction Effects		
7. Are soft targets free from impact by nearby equipment or st	ructures? Y⊠ N□ U□ N/A□	
8. Are overhead equipment, distribution systems, ceiling tiles and masonry block walls not likely to collapse onto the equipment are seismically qualified block walls, C107.17/Q and per drawing C-107, Sh. 1, Rev. 28, north and east of the equipment of the equip	pment? C107.16/Q,	
Do attached lines have adequate flexibility to avoid damage     There are flexible leads to the batteries.	e? Y⊠ N□ U□ N/A□	
Based on the above seismic interaction evaluations, is equal of potentially adverse seismic interaction effects?	ipment free Y⊠ N□ U□	

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 3 of 4	
Seismic Walkdown Checklist (SWC) <u>SWEL1- 050</u>	Status: Y⊠ N□ U□
Equipment ID No. <u>ED-01</u> Equip. Class <sup>1</sup> <u>15, BATTERY F</u>	RACKS
Equipment Description MAIN STATION BATTERY LEFT CHANNEL	
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□
<u>Comments</u> (Additional pages may be added as necessary)	
Evaluated by: Kevin Bessell L. B. Kao	Date: <u>10/9/2012</u>
John Kao	
John Kao	10/9/2012

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 4 of 4	
	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) SWEL1- 050	
Equipment ID No. <u>ED-01</u> Equip. Class <sup>1</sup> <u>15, BA7</u>	TERY RACKS
Equipment Description MAIN STATION BATTERY LEFT CHANN	EL
Photographs	
Note: Equipment. Note:	

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 1 of 4	
	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) <u>SWEL1- 051</u>	
Equipment ID No. <u>ED-02</u> Equip. Class <sup>1</sup> <u>15, BATTERY</u>	RACKS
Equipment Description MAIN STATION BATTERY RIGHT CHANNEL	
Location: Bldg. AUX Floor El. 607 Room, Area 225	
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	
1. Is the anchorage configuration verification required (i.e., is the item of the 50% of SWEL items requiring such verification)?	none Y□ N⊠ .
2. Is the anchorage free of bent, broken, missing or loose hardware?  The equipment is supported on steel framed racks and is anchored either 5/8" anchors or 1/2" expansion anchors to the concrete floor.  There is minimal thread engagement noted on the third braced bay support, west end of middle rack. The top of the anchor is flush with the top of the nut. This thread engagement is judged to be accepted.	: , ith
<ol> <li>Is the anchorage free of corrosion that is more than mild surface oxidation?         There is a white powdery substance on a small number of the anchors likely due to a small battery acid leak. Anchors, however, are degraded.     </li> </ol>	Y⊠ N□ U□ N/A□
4. Is the anchorage free of visible cracks in the concrete near the anchors? The floor is painted and no cracks were observed.	Y⊠ N□ U□ N/A□

<sup>&</sup>lt;sup>1</sup> Enter the equipment class name from EPRI 1025286, Appendix B: Classes of Equipment.

ATTACHMENT 9.6 Seisi	MIC WALKDOWN CHECKLIST FORM
Sheet 2 of 4	
Seismic Walkdown Checklist (SWC) SWEL1- 051	-Status: Y⊠ N∏ U∏
Equipment ID No. <u>ED-02</u> Equip. Class 1 15, BATTERY RACK	<u>s</u>
Equipment Description MAIN STATION BATTERY RIGHT CHANNEL	
<ol> <li>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.)</li> </ol>	Y□ N□ U□ N/A⊠
Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	Y⊠ N□ U□
Interaction Effects	
7. Are soft targets free from impact by nearby equipment or structures?	Y⊠ N□ U□ N/A□
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?  There are seismically qualified block walls, C107.18/Q, C107.17/Q and C107.16/Q, per drawing C-107, Sh. 1, Rev. 28, north, south and east of the equipment, respectively.	Y⊠ N□ U□ N/A□
<ol> <li>Do attached lines have adequate flexibility to avoid damage?</li> <li>There are flexible leads to the batteries.</li> </ol>	Y⊠ N□ U□ N/A□
Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	Y⊠ N□ U□

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 3 of 4	
	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) <u>SWEL1- 051</u>	
Equipment ID No. <u>ED-02</u> Equip. Class <sup>1</sup> <u>15, BATTERY</u>	RACKS
Equipment Description MAIN STATION BATTERY RIGHT CHANNEL	
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□
<u>Comments</u> (Additional pages may be added as necessary)	
Evaluated by: Kevin Bessell Kao  John Kao	Date: <u>10/9/2012</u>
John Kao	
John Kao 0	<u>10/9/2012</u>

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 4 of 4	
	Status: Y⊠ N⊟ U⊟
Seismic Walkdown Checklist (SWC) <u>SWEL.1-</u>	051
Equipment ID No. <u>ED-02</u> Equip. Class	1 15, BATTERY RACKS
Equipment Description MAIN STATION BATTERY RIGI	HT CHANNEL
Photographs	
-	100 S
WALL REFER	
C-265	
-	
	10.3m
	4 1 180 - Fr
Note: Equipment.	Note:
722	
* *1	

ATTACHMENT 9.6 SE	SMIC WALKDOWN CHECKLIST FORM
Sheet 1 of 5	
	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) <u>SWEL1- 052</u>	
Equipment ID No. <u>ED-06</u> Equip. Class <sup>1</sup> <u>16, BATTERY CHA</u>	ARGERS AND INVERTERS
Equipment Description <u>INVERTER NO. 1</u>	
Location: Bldg. <u>AUX</u> Floor El. <u>607</u> Room, Area <u>224</u>	
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 reconfindings. Additional space is provided at the end of this checklist for document	d the results of judgments and
Anchorage	
1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?	e Y⊠ N□
2. Is the anchorage free of bent, broken, missing or loose hardware?  The equipment consists of an electrical cabinet. The cabinet base is welded to clip angles along both sides of the cabinet that are embedded into the concrete pedestal.	Y⊠ N□ U□ N/A□
<ol> <li>Is the anchorage free of corrosion that is more than mild surface oxidation?</li> <li>The angles and welds are painted, no corrosion noted.</li> </ol>	Y⊠ N□ U□ N/A□
4. Is the anchorage free of visible cracks in the concrete near the anchors?  The cabinet is mounted on top of a concrete pedestal which sits atop the concrete floor. Minor surface cracks are noted in the pedestal which is judged to not affect the integrity of the anchorage.	Y⊠ N□ U□ N/A□

<sup>&</sup>lt;sup>1</sup> Enter the equipment class name from EPRI 1025286, Appendix B: Classes of Equipment.

ATTACHMENT 9.6 Seisi Sheet 2 of 5	MIC WALKDOWN CHECKLIST FORM
Seismic Walkdown Checklist (SWC) SWEL1- 052	Status: Y⊠ N□ U□
Equipment ID No. <u>ED-06</u> Equip. Class <sup>1</sup> <u>16, BATTERY CHAR</u>	RGERS AND INVERTERS
Equipment Description INVERTER NO. 1	· · · · · · · · · · · · · · · · · · ·
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 drawing C-103, Sh. 11, Rev. 1 for the weld detail, clip angle and clip spacing. The anchor bolts attached through the clip angle are embedded in the concrete pedestal and are not considered part of the configuration verification since they are not accessible.	Y⊠ N□ U□ N/A□
Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	Y⊠ N□ U□
Interaction Effects	
7. Are soft targets free from impact by nearby equipment or structures? There exists a cable tray support structure consisting of a tube steel moment frame in one direction (north-south) and a braced frame in the other direction (east-west) immediately adjacent to the inverter. There exists a 2" gap (north-south) between tube steel column for the support and the inverter. There is a 3/4" gap (north-south) between the sheet metal roof deflector on the inverter and the tube steel column. This structure is judged to be robust and will have minimal deflection in the north-south direction based on the rigidity of the frame, minimal load on the frame (lightly loaded cable tray), and height of the column. The strong axis of the cabinet is in the north-south direction, so deflection of the cabinet is judged to be minimal, therefore out of phase contact is judged not to be credible.	Y⊠ N□ U□ N/A□
<ol> <li>Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? There are overhead cable tray and HVAC ducts overhead which are well supported.</li> </ol>	Y⊠ N□ U□ N/A□
9. Do attached lines have adequate flexibility to avoid damage? Flexible cable and conduit feed the top of the cabinet.	Y⊠ N□ U□ N/A□

ATTACHMENT 9.6 SE	EISMIC WALKDOWN CHECKLIST FORM
Sheet 3 of 5	
Seismic Walkdown Checklist (SWC) SWEL1- 052	Status: Y N U
Equipment ID No. <u>ED-06</u> Equip. Class <sup>1</sup> <u>16, BATTERY CH.</u>	ARGERS AND INVERTERS
Equipment Description INVERTER NO. 1	
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	Y⊠ N□ U□
Other Adverse Conditions	
Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment?	Y⊠ N□ U□
Comments (Additional pages may be added as necessary)	
il B. I	
Evaluated by: Kevin Bessell Kao  John Kao	Date: 10/17/2012

**ATTACHMENT 9.6** 

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 4 of 5

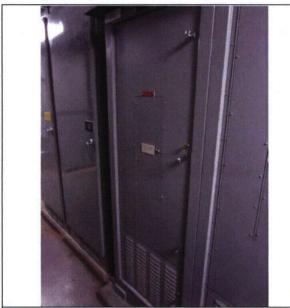
Status: Y⊠ N□ U□

Seismic Walkdown Checklist (SWC) SWEL1- 052

Equipment ID No. <u>ED-06</u> Equip. Class<sup>1</sup> <u>16, BATTERY CHARGERS AND INVERTERS</u>

Equipment Description INVERTER NO. 1

## **Photographs**



Note: Back panel of equipment.



Note: Front panel of equipment.

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 5 of 5	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) SWEL1- 052	
Equipment ID No. <u>ED-06</u> Equip. Class 1 16, BA	TTERY CHARGERS AND INVERTERS
Equipment Description INVERTER NO. 1	
900	
Note: Small gap noted between cable tray support structure column and side of cabinet near top of cabinet.	

ATTACHMENT 9.6 SEI	SMIC WALKDOWN CHECKLIST FORM
Sheet 1 of 4	
	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) <u>SWEL1- 053</u>	
Equipment ID No. <u>ED-07</u> Equip. Class 1 16, BATTERY CHA	RGERS AND INVERTERS
Equipment Description <u>INVERTER NO. 2</u>	
Location: Bldg. <u>AUX</u> Floor El. <u>607</u> Room, Area <u>224</u>	
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
<u>Anchorage</u>	
1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?	Y□ N⊠
<ol> <li>Is the anchorage free of bent, broken, missing or loose hardware?         The equipment consists of an electrical cabinet. The cabinet base is welded to clip angles along both sides of the cabinet that are embedded into the concrete pedestal.     </li> </ol>	Y⊠ N□ U□ N/A□
<ol> <li>Is the anchorage free of corrosion that is more than mild surface oxidation?</li> <li>The angles and welds are painted, no corrosion noted.</li> </ol>	Y⊠ N□ U□ N/A□
4. Is the anchorage free of visible cracks in the concrete near the anchors?  The cabinet is mounted on top of a concrete pedestal which sits atop the concrete floor. Minor surface cracks are noted in the pedestal which is judged to not affect the integrity of the anchorage.	Y⊠ N□ U□ N/A□

<sup>&</sup>lt;sup>1</sup> Enter the equipment class name from EPRI 1025286, Appendix B: Classes of Equipment.

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 2 of 4	
Seismic Walkdown Checklist (SWC) SWEL1- 053	Status: Y⊠ N□ U□
Equipment ID No. <u>ED-07</u> Equip. Class <sup>1</sup> <u>16, BATTERY CR</u>	HARGERS AND INVERTERS
Equipment Description INVERTER NO. 2	
<ol> <li>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.)</li> </ol>	Y☐ N☐ U☐ N/A⊠ ich
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	YN 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?  Fluorescent light fixtures overhead. Light fixtures ruggedly mounted unistrut. Fluorescent bulb is not a credible interaction since the cabin	to
is outside the bulb's zone of influence.  Masonry block wall, C-107.16/Q, is located west of the cabinet. This block wall is qualified per drawing C-107, Sh. 1, Rev. 28.	
9. Do attached lines have adequate flexibility to avoid damage? Flexible cable is fed through the top of the cabinet.	Y⊠ N□ U□ N/A□
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 CHECKLIST FORM
Sheet 3 of 4	
Seismic Walkdown Checklist (SWC) <u>SWEL1- 053</u>	Status: Y⊠ N□ U□
Equipment ID No. <u>ED-07</u> Equip. Class <sup>1</sup> <u>16, BATTERY C</u>	HARGERS AND INVERTERS
Equipment Description INVERTER NO. 2	<del></del>
Other Adverse Conditions	
11. Have you looked for and found no other seismic conditions that coul adversely affect the safety functions of the equipment?	d Y⊠ N□ U□
Comments (Additional pages may be added as necessary)	
Evaluated by: Kevin Bessell L. Bull	Date: 10/17/2012
John Kao	. —
John Kao <u>U</u>	10/17/2012

SEISMIC WALKDOWN CHECKLIST FORM

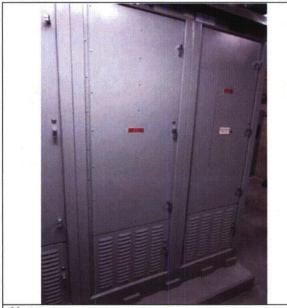
Sheet 4 of 4

Status: Y⊠ N□ U□

Seismic Walkdown Checklist (SWC) SWEL1- 053

Equipment ID No. <u>ED-07</u> Equip. Class<sup>1</sup> <u>16, BATTERY CHARGERS AND INVERTERS</u>

Equipment Description INVERTER NO. 2



Note: Back panel of equipment.



Note: Front panel of equipment.

ATTACHMENT 9.6 SE	EISMIC WALKDOWN CHECKLIST FORI
Sheet 1 of 5	
Seismic Walkdown Checklist (SWC)SWEL1- 054	Status: Y⊠ N☐ U☐
Equipment ID No. <u>ED-08</u> Equip. Class <sup>1</sup> <u>16, BATTERY CH</u>	ARGERS AND INVERTERS
Equipment Description INVERTER NO. 3	THOUND THE PROPERTY OF THE PARTY OF THE PART
Location: Bldg. <u>AUX</u> Floor El. <u>607</u> Room, Area <u>224</u>	
Manufacturer, Model, Etc. (optional but recommended)	
Instructions for Completing Checklist  This checklist may be used to document the results of the Seismic Walkdown SWEL. The space below each of the following questions may be used to recofindings. Additional space is provided at the end of this checklist for document	ord the results of judgments and
Anchorage  1. Is the anchorage configuration verification required (i.e., is the item on of the 50% of SWEL items requiring such verification)?	ne Y⊠ N⊡
2. Is the anchorage free of bent, broken, missing or loose hardware?  The equipment consists of an electrical cabinet. The cabinet base is welded to clip angles along both sides of the cabinet that are embedded into the concrete pedestal.	Y⊠ N□ U□ N/A□
3. Is the anchorage free of corrosion that is more than mild surface oxidation? The angles and welds are painted, no corrosion noted.	Y⊠ N□ U□ N/A□
4. Is the anchorage free of visible cracks in the concrete near the anchors?  The cabinet is mounted on top of a concrete pedestal which sits atop the concrete floor. Minor surface cracks are noted in the pedestal which is judged to not affect the integrity of the anchorage.	Y⊠ N□ U□ N/A□

<sup>&</sup>lt;sup>1</sup> Enter the equipment class name from EPRI 1025286, Appendix B: Classes of Equipment.

	MIC WALKDOWN CHECKLIST FORM
Sheet 2 of 5	
Sciemia Walkdown Charlist (SWC) SWEL1 054	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) <u>SWEL1- 054</u>	
Equipment ID No. <u>ED-08</u> Equip. Class <sup>1</sup> <u>16, BATTERY CHAR</u>	RGERS AND INVERTERS
Equipment Description <u>INVERTER NO. 3</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 drawing C-103, Sh. 11, Rev. 1 for the weld detail, clip angle and clip spacing. The anchor bolts attached through the clip angle are embedded in the concrete pedestal and are not considered part of the configuration verification since they are not accessible.	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 exists a cable tray support structure consisting of a tube steel moment frame in one direction (north-south) and a braced frame in the other direction (east-west) immediately adjacent to the inverter. There exists a 2" gap (north-south) between tube steel column for the support and the inverter. There is a 3/4" gap (north-south) between the sheet metal roof deflector on the inverter and the tube steel column. This structure is judged to be robust and will have minimal deflection in the north-south direction based on the rigidity of the frame, minimal load on the frame (lightly loaded cable tray), and height of the column. The strong axis of the cabinet is in the north-south direction, so deflection of the cabinet is judged to be minimal, therefore out of phase contact is judged not to be credible.	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? There are overhead cable tray and HVAC ducts overhead which are well supported.	Y⊠ N□ U□ N/A□
9. Do attached lines have adequate flexibility to avoid damage?  Flexible cable and conduit feed the top of the cabinet.	Y⊠ N□ U□ N/A□

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 3 of 5	
	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) <u>SWEL1- 054</u>	
Equipment ID No. <u>ED-08</u> Equip. Class <sup>1</sup> <u>16, BATTERY</u> (	CHARGERS AND INVERTERS
Equipment Description <u>INVERTER NO. 3</u>	
10. Based on the above seismic interaction evaluations, is equipment for of potentially adverse seismic interaction effects?	ree Y⊠ N□ U□
Other Adverse Conditions	
11. Have you looked for and found no other seismic conditions that cou adversely affect the safety functions of the equipment?	uld Y⊠ N□ U□
Comments (Additional pages may be added as necessary)	
Evaluated by: Kevin Bessell L. Bull  John Kao  John Kao	Date: <u>10/17/2012</u>
John Kao	10/17/2012

SEISMIC WALKDOWN CHECKLIST FORM

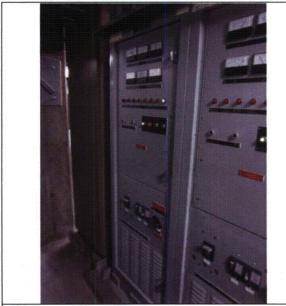
Sheet 4 of 5

Status: Y⊠ N□ U□

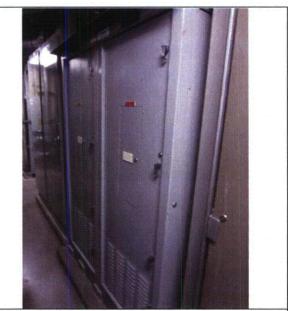
Seismic Walkdown Checklist (SWC) SWEL1- 054

Equipment ID No. <u>ED-08</u> Equip. Class 1 16, <u>BATTERY CHARGERS AND INVERTERS</u>

Equipment Description INVERTER NO. 3



Note: Front panel of equipment.



Note: Back panel of equipment.

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 5 of 5 Seismic Walkdown Checklist (SWC) SWEL1- 054	Status: Y⊠ N⊡ U⊡
Equipment ID No. <u>ED-08</u> Equip. Class <sup>1</sup> <u>16,</u>	BATTERY CHARGERS AND INVERTERS
Equipment Description INVERTER NO. 3	
СОН	
Note: Small gap noted between cable tray support structure column and side of cabinet near top of cabinet.	<b>):</b>

ATTACHMENT 9.6 SEISM	MIC WALKDOWN CHECKLIST FORM
Sheet 1 of 4	
	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) SWEL1- 055	
Equipment ID No. <u>ED-09</u> Equip. Class <sup>1</sup> <u>16, BATTERY CHAR</u>	GERS AND INVERTERS
Equipment Description <u>INVERTER NO. 4</u>	
Location: Bldg. AUX Floor El. 607 Room, Area 224	,
Manufacturer, Model, Etc. (optional but recommended)	
Instructions for Completing Checklist	
This checklist may be used to document the results of the Seismic Walkdown of SWEL. The space below each of the following questions may be used to record findings. Additional space is provided at the end of this checklist for documenting	the results of judgments and
Anchorage	
1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?	Y□ N⊠
2. Is the anchorage free of bent, broken, missing or loose hardware?  The equipment consists of an electrical cabinet. The cabinet base is welded to clip angles along both sides of the cabinet that are embedded into the concrete pedestal.	Y⊠ N□ U□ N/A□
Is the anchorage free of corrosion that is more than mild surface oxidation?      The angles and welds are painted, no corrosion noted.	Y⊠ N□ U□ N/A□ .
4. Is the anchorage free of visible cracks in the concrete near the anchors? The cabinet is mounted on top of a concrete pedestal which sits atop the concrete floor. Minor surface cracks are noted in the pedestal which is judged to not affect the integrity of the anchorage.	Y⊠ N□ U□ N/A□

<sup>&</sup>lt;sup>1</sup> Enter the equipment class name from EPRI 1025286, Appendix B: Classes of Equipment.

ATTACHMENT 9.6 SEIS	SMIC WALKDOWN CHECKLIST FORM
Sheet 2 of 4	
Seismic Walkdown Checklist (SWC) SWEL1- 055	Status: Y⊠ N ∪ U
Equipment ID No. <u>ED-09</u> Equip. Class <sup>1</sup> <u>16, BATTERY CHA</u>	RGERS AND INVERTERS
Equipment Description INVERTER NO. 4	
<ol> <li>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.)</li> </ol>	Y NUUNAX
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?  Masonry block wall, C-107.16/Q, is located west of the cabinet. This block wall is qualified per drawing C-107, Sh. 1, Rev. 28.	Y⊠ N□ U□ N/A□
9. Do attached lines have adequate flexibility to avoid damage?  Flexible cable is fed through the top of the cabinet.	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	
Seismic Walkdown Checklist (SWC)SWEL1055	Status: Y⊠ N□ U□
Equipment ID No. <u>ED-09</u> Equip. Class <sup>1</sup> <u>16, BATTERY</u> (	CHARGERS AND INVERTERS
Equipment Description INVERTER NO. 4	,
Other Adverse Conditions	
Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment?	ıld Y⊠ N□ U□
Comments (Additional pages may be added as necessary)	
Evaluated by: Kevin Bessell Lin Bank	Date: <u>10/17/2012</u>
John Kao	
John Kao	<u>10/17/2012</u>

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 4 of 4

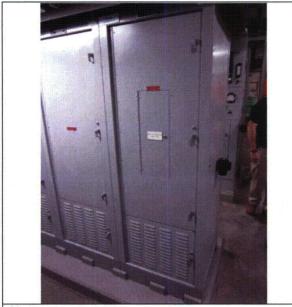
Status: Y⊠ N□ U□

Seismic Walkdown Checklist (SWC) SWEL1- 055

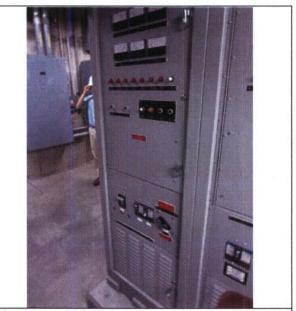
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Equipment ID No. <u>ED-09</u> Equip. Class<sup>1</sup> <u>16, BATTERY CHARGERS AND INVERTERS</u>

Equipment Description INVERTER NO. 4



Note: Back panel of equipment.



Note: Front panel of equipment.

ATTACHMENT 9.6 SE	ISMIC WALKDOWN CHECKLIST FORM
Sheet 1 of 5	
	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) <u>SWEL1- 056</u>	·
Equipment ID No. <u>ED-15</u> Equip. Class <sup>1</sup> <u>16, BATTERY CHA</u>	ARGERS AND INVERTERS
Equipment Description <u>BATTERY CHARGER NO. 1</u>	
Location: Bldg. <u>AUX</u> Floor El. <u>607</u> Room, Area <u>224</u>	
Manufacturer, Model, Etc. (optional but recommended)	
Instructions for Completing Checklist	1
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	rd the results of judgments and
<u>Anchorage</u>	
<ol> <li>Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?</li> </ol>	e Y⊠ N□
<ol> <li>Is the anchorage free of bent, broken, missing or loose hardware?         The equipment consists of an electrical cabinet. The cabinet base is welded to clip angles along both sides of the cabinet that are embedded into the concrete pedestal.     </li> </ol>	Y⊠ N□ U□ N/A□
Is the anchorage free of corrosion that is more than mild surface oxidation?      The angles and welds are painted, no corrosion noted.	Y⊠ N□ U□ N/A□
4. Is the anchorage free of visible cracks in the concrete near the anchors?  The cabinet is mounted on top of a concrete pedestal which sits atop the concrete floor. Cracks are noted in the pedestal which is judged to not affect the integrity of the anchorage since the cabinet is anchored to	

<sup>&</sup>lt;sup>1</sup> Enter the equipment class name from EPRI 1025286, Appendix B: Classes of Equipment.

ATTACHMENT 9.6 SEISM Sheet 2 of 5	MIC WALKDOWN CHECKLIST FORM
Seismic Walkdown Checklist (SWC) <u>SWEL1- 056</u>	Status: Y⊠ N U U
Equipment ID No. <u>ED-15</u> Equip. Class <sup>1</sup> <u>16, BATTERY CHAR</u>	GERS AND INVERTERS
Equipment Description BATTERY CHARGER NO. 1	·
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 drawing C-103, Sh. 11, Rev. 1 for the weld detail, clip angle and clip spacing. The anchor bolts attached through the clip angle are embedded in the concrete pedestal and are not considered part of the configuration verification since they are not accessible.	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?  Fluorescent light fixtures overhead. Light fixtures hanging from chains with S hooks. Light fixtures judged not to come off S hooks due to vertical seismic acceleration < 1.0g. Fluorescent bulb is not a credible	Y⊠ N□ U□ N/A□
<ul> <li>interaction since the cabinet is outside the bulb's zone of influence.</li> <li>Masonry block wall, C-107.16/Q, is located west of the cabinet. This block wall is qualified per drawing C-107, Sh. 1, Rev. 28.</li> <li>9. Do attached lines have adequate flexibility to avoid damage?</li> <li>Flexible cable and conduit feed the top of the cabinet.</li> </ul>	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) SWEL1- 056	
Equipment ID No. <u>ED-15</u> Equip. Class <sup>1</sup> <u>16, BATTER</u> )	CHARGERS AND INVERTERS
Equipment Description BATTERY CHARGER NO. 1	
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)  Inspection of the underside of the cabinet, looking from floor level	, revealed a hole in the cabinet base
for an anchor. This hole was part of the original vendor provided robust anchorage was required and embedded clip angles were in cabinet as identified in the plant drawings.	
Evaluated by: Kevin Bessell L. Bull	Date: <u>10/17/2012</u>
Evaluated by: Kevin Bessell Kao  John Kao	10/17/2012

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 4 of 5

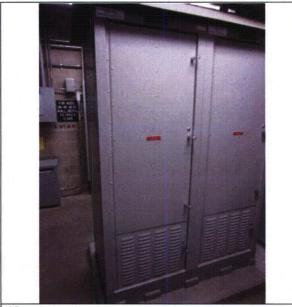
Status: Y⊠ N□ U□

Seismic Walkdown Checklist (SWC) SWEL1- 056

E : UDN 50.45 E : 01 1.40.04TT50

Equipment ID No. <u>ED-15</u> Equip. Class<sup>1</sup> <u>16, BATTERY CHARGERS AND INVERTERS</u>

Equipment Description BATTERY CHARGER NO. 1



Note: Back panel of equipment.



Note: Front panel of equipment.

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 5 of 5	
	Status: Y⊠ N⊟ U⊟
Seismic Walkdown Checklist (SWC) <u>SWEL1- 056</u>	<u> </u>
Equipment ID No. <u>ED-15</u> Equip. Class <sup>1</sup> 10	, BATTERY CHARGERS AND INVERTERS
Equipment Description BATTERY CHARGER NO. 1	
and the same of th	
200	
Note: Cracks noted in pedestal.	te:

ATTACHMENT 9.6 SEIS	MIC WALKDOWN CHECKLIST FORM
Sheet 1 of 4	
	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) <u>SWEL1- 057</u>	
Equipment ID No. <u>ED-16</u> Equip. Class <sup>1</sup> <u>16, BATTERY CHAF</u>	RGERS AND INVERTERS
Equipment Description <u>BATTERY CHARGER NO. 2</u>	
Location: Bldg. AUX Floor El. 607 Room, Area 224	
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
<u>Anchorage</u>	
1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?	Y□ N⊠
2. Is the anchorage free of bent, broken, missing or loose hardware?  The equipment consists of an electrical cabinet. The cabinet base is welded to clip angles along both sides of the cabinet that are embedded into the concrete pedestal.	Y⊠ N□ U□ N/A□
<ol> <li>Is the anchorage free of corrosion that is more than mild surface oxidation?</li> <li>The angles and welds are painted, no corrosion noted.</li> </ol>	Y⊠ N□ U□ N/A□
4. Is the anchorage free of visible cracks in the concrete near the anchors? The cabinet is mounted on top of a concrete pedestal which sits atop the concrete floor. Minor surface cracks are noted in the pedestal which is judged to not affect the integrity of the anchorage.	Y⊠ N□ U□ N/A□

<sup>&</sup>lt;sup>1</sup> Enter the equipment class name from EPRI 1025286, 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- 057</u>	
Equipment ID No. <u>ED-16</u> Equip. Class <sup>1</sup> <u>16, BATTERY CHAR</u>	RGERS AND INVERTERS
Equipment Description BATTERY CHARGER NO. 2	
<ol> <li>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.)</li> </ol>	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?  Fluorescent light fixtures overhead. Light fixtures ruggedly mounted to unistrut. Fluorescent bulb is not a credible interaction since the cabinet is outside the bulb's zone of influence.	Y⊠ N□ U□ N/A□
Masonry block wall, C-107.16/Q, is located west of the cabinet. This block wall is qualified per drawing C-107, Sh. 1, Rev. 28.	
<ol> <li>Do attached lines have adequate flexibility to avoid damage? Flexible cable is fed through the top of the cabinet.</li> </ol>	Y⊠ N□ U□ N/A□
Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	Y⊠ N□ U□

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 3 of 4	
Seismic Walkdown Checklist (SWC) SWEL1- 057	Status: Y⊠ N□ U□
Equipment ID No. <u>ED-16</u> Equip. Class 1 <u>16, BATTERY</u>	CHARGERS AND INVERTERS
Equipment Description BATTERY CHARGER NO. 2	
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□
<u>Comments</u> (Additional pages may be added as necessary)	
Evaluated by: Kevin Bessell Lin Band	Date: <u>10/17/2012</u>

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 4 of 4

Status: Y⊠ N□ U□

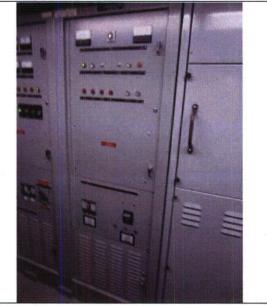
Seismic Walkdown Checklist (SWC) SWEL1- 057

Equipment ID No. <u>ED-16</u> Equip. Class<sup>1</sup> <u>16, BATTERY CHARGERS AND INVERTERS</u>

Equipment Description BATTERY CHARGER NO. 2



Note: Back panel of equipment.



Note: Front panel of equipment.

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 1 of 5	
	Status: Y⊠ N⊡ U⊡
Seismic Walkdown Checklist (SWC) <u>SWEL1- 058</u>	
Equipment ID No. <u>ED-17</u> Equip. Class 1 <u>16, BATTER</u>	Y CHARGERS AND INVERTERS
Equipment Description BATTERY CHARGER NO. 3	
Location: Bldg. <u>AUX</u> Floor El. <u>607</u> Room, Area <u>224</u>	
Manufacturer, Model, Etc. (optional but recommended)	
Instructions for Completing Checklist	
This checklist may be used to document the results of the Seismic Walk SWEL. The space below each of the following questions may be used to findings. Additional space is provided at the end of this checklist for document	record the results of judgments and
Anchorage	
1. Is the anchorage configuration verification required (i.e., is the ite of the 50% of SWEL items requiring such verification)?	em one Y⊠ N□
2. Is the anchorage free of bent, broken, missing or loose hardware The equipment consists of an electrical cabinet. The cabinet bas welded to clip angles along both sides of the cabinet that are embedded into the concrete pedestal.	·-
Is the anchorage free of corrosion that is more than mild surface oxidation?  The angles and welds are painted, no corrosion noted.	Y⊠ N□ U□ N/A□
4. Is the anchorage free of visible cracks in the concrete near the anchors?  The cabinet is mounted on top of a concrete pedestal which sits the concrete floor. Cracks are noted in the pedestal which is jud not affect the integrity of the anchorage since the cabinet is anchorage.	ged to

<sup>&</sup>lt;sup>1</sup> Enter the equipment class name from EPRI 1025286, Appendix B: Classes of Equipment.

	MIC WALKDOWN CHECKLIST FORM
Sheet 2 of 5 Seismic Walkdown Checklist (SWC) <u>SWEL1- 058</u>	Status: Y⊠ N□ U□
Equipment ID No. <u>ED-17</u> Equip. Class <sup>1</sup> <u>16, BATTERY CHAR</u>	GERS AND INVERTERS
Equipment Description BATTERY CHARGER NO. 3	
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 drawing C-103, Sh. 11, Rev. 1 for the weld detail, clip angle and clip spacing. The anchor bolts attached through the clip angle are embedded in the concrete pedestal and are not considered part of the configuration verification since they are not accessible.	Y⊠ N□ U□ N/A□
Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	Y⊠ N□ U□
Interaction Effects	
7. Are soft targets free from impact by nearby equipment or structures?	Y⊠ N□ U□ N/A□
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Fluorescent light fixtures overhead. Light fixtures hanging from chains with S hooks. Light fixtures judged not to come off S hooks due to vertical seismic acceleration < 1.0g. Fluorescent bulb is not a credible interaction since the cabinet is outside the bulb's zone of influence. Masonry block wall, C-107.16/Q, is located west of the cabinet. This	Y⊠ N□ U□ N/A□
block wall is qualified per drawing C-107, Sh. 1, Rev. 28.  9. Do attached lines have adequate flexibility to avoid damage?  Flexible cable and conduit feed the top of the cabinet.	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□

SEISIVIC VVAL	KDOWN CHECKLIST FORM
Sta	tus: Y⊠ N⊟ U⊟
CHARGERS /	AND INVERTERS
,	
ould Y⊠ N	<b>I</b> □ U□
	·
anchorage deta	le in the cabinet base ail, however, more the perimeter of the
Date:	10/17/2012
	<u>10/17/2012</u>
	Sta CHARGERS Ould Y N I, revealed a hound anchorage deta

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 4 of 5

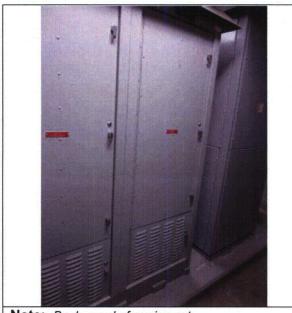
Status: Y⊠ N□ U□

Seismic Walkdown Checklist (SWC) SWEL1- 058

Equipment ID No. <u>ED-17</u> Equip. Class<sup>1</sup> <u>16, BATTERY CHARGERS AND INVERTERS</u>

Equipment Description BATTERY CHARGER NO. 3

# **Photographs**



Note: Back panel of equipment.



Note: Front panel of equipment.

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FOI	
Sheet 5 of 5	Status: Y⊠ N□ U□	
Seismic Walkdown Checklist (SWC) SWEL1- 058  Equipment ID No. ED-17 Equip. Class 1 16		
Equipment Description BATTERY CHARGER NO. 3		
Note: Cracks noted in pedestal.	ete:	

ATTACHMENT 9.6 Si	EISMIC WALKDOWN CHECKLIST FORM
Sheet 1 of 4	
	Status: Y⊠ N⊟ U⊟
Seismic Walkdown Checklist (SWC) <u>SWEL1- 059</u>	
Equipment ID No. <u>ED-18</u> Equip. Class <sup>1</sup> <u>16, BATTERY CH</u>	ARGERS AND INVERTERS
Equipment Description BATTERY CHARGER NO. 4	
Location: Bldg. AUX Floor El. 607 Room, Area 224	
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	
<ol> <li>Is the anchorage configuration verification required (i.e., is the item or of the 50% of SWEL items requiring such verification)?</li> </ol>	ne Y□ N⊠
Is the anchorage free of bent, broken, missing or loose hardware?	Y.⊠ N□ U□ N/A□
The equipment consists of an electrical cabinet. The cabinet base is welded to clip angles along both sides of the cabinet that are embedded into the concrete pedestal.	I. A. N. OL NAC
Is the anchorage free of corrosion that is more than mild surface oxidation?	Y⊠ N□ U□ N/A□
The angles and welds are painted, no corrosion noted.	
Is the anchorage free of visible cracks in the concrete near the anchors?	Y⊠ N□ U□ N/A□
The cabinet is mounted on top of a concrete pedestal which sits atop the concrete floor. No cracks are observed.	

<sup>&</sup>lt;sup>1</sup> Enter the equipment class name from EPRI 1025286, Appendix B: Classes of Equipment.

ATTACHMENT 9.6 SE	ISMIC WALKDOWN CHECKLIST FORM
Sheet 2 of 4	
Seismic Walkdown Checklist (SWC) <u>SWEL1- 059</u>	Status: Y⊠ N□ U□
Equipment ID No. <u>ED-18</u> Equip. Class <sup>1</sup> <u>16, BATTERY CHA</u>	ARGERS AND INVERTERS
Equipment Description BATTERY CHARGER NO. 4	
<ol> <li>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.)</li> </ol>	Y□ N□ U□ N/A⊠ h
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	Y⊠ N□ U□
Interaction Effects	· · · · · · · · · · · · · · · · · · ·
7. Are soft targets free from impact by nearby equipment or structures?	Y⊠ N□ U□ N/A□
8. Are overhead equipment, distribution systems, ceiling tiles and lighting and masonry block walls not likely to collapse onto the equipment?  Fluorescent light fixtures overhead. Light fixtures ruggedly mounted to unistrut. Fluorescent bulb is not a credible interaction since the cabine	)
<ul> <li>is outside the bulb's zone of influence.</li> <li>Masonry block wall, C-107.16/Q, is located west of the cabinet. This block wall is qualified per drawing C-107, Sh. 1, Rev. 28.</li> <li>9. Do attached lines have adequate flexibility to avoid damage?</li> <li>Flexible cable is fed through the top of the cabinet.</li> </ul>	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		
	Status: Y⊠ N□ U□	
Seismic Walkdown Checklist (SWC) <u>SWEL1- 059</u>		
Equipment ID No. <u>ED-18</u> Equip. Class <sup>1</sup> <u>16, BATTERY</u>	CHARGERS AND INVERTERS	
Equipment Description <u>BATTERY CHARGER NO. 4</u>		
Other Adverse Conditions		
11. Have you looked for and found no other seismic conditions that cound adversely affect the safety functions of the equipment?	uld Y⊠ N□ U□	
Comments (Additional pages may be added as necessary)		
Evaluated by: Kevin Bessell Kao  John Kao	Date: <u>10/17/2012</u>	
John Kao		
John Kao 🛮 🗓	10/17/2012	

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 4 of 4

Status: Y⊠ N□ U□

Seismic Walkdown Checklist (SWC) SWEL1- 059

Equipment ID No. <u>ED-18</u> Equip. Class<sup>1</sup> <u>16, BATTERY CHARGERS AND INVERTERS</u>

Equipment Description BATTERY CHARGER NO. 4



**Note:** Back panel of equipment with panel door open.



Note: Front panel of equipment.

ATTACHMENT 9.6 SEISM	IIIC WALKDOWN CHECKLIST FORN
Sheet 1 of 4	
Seismic Walkdown Checklist (SWC)SWEL1060	Status: Y⊠ N□ U□
Equipment ID No. <u>K-6A</u> Equip. Class <sup>1</sup> <u>17- ENGINE GENER</u>	ATORS
Equipment Description EMERGENCY DIESEL GENERATOR 1-1	
Location: Bldg. <u>AUX</u> Floor El. <u>590</u> Room, Area <u>116</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 SWEL. The space below each of the following questions may be used to record findings. Additional space is provided at the end of this checklist for documenting	the results of judgments and
Anchorage	
1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?	Y⊠ N□
<ol> <li>Is the anchorage free of bent, broken, missing or loose hardware?         Generator was anchored to ground using cast in place bolts through base plate.     </li> </ol>	Y⊠ N□ U□ N/A□
Is the anchorage free of corrosion that is more than mild surface oxidation?  There was some mild surface oxidation.	Y⊠ N□ U□ N/A□
Is the anchorage free of visible cracks in the concrete near the anchors?  The generator is anchored to the concrete floor slab.	Y⊠ N□ U□ N/A□

<sup>&</sup>lt;sup>1</sup> Enter the equipment class name from EPRI 1025286, Appendix B: Classes of Equipment.

	MIC WALKDOWN CHECKLIST FORM
Sheet 2 of 4  Seismic Walkdown Checklist (SWC) <u>SWEL1- 060</u>	Status: Y⊠ N□ U□
Equipment ID No. <u>K-6A</u> Equip. Class <sup>1</sup> <u>17- ENGINE GENER</u>	RATORS
Equipment Description <u>EMERGENCY DIESEL GENERATOR 1-1</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.) Due to large distances a (+ or -)1/2" tolerance was allowed for measurement. Anchorage was verified using SEWS Package EA-POC0007899-SEWS-K6A.	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?  Masonry block wall west of K-6A qualified by DWG. C-104.	Y⊠ N□ U□ N/A□
<ol> <li>Do attached lines have adequate flexibility to avoid damage?         Diesel exhaust was noted to have flexible fitting in middle of line.     </li> </ol>	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		CKLIST FORM
Sheet 3 of 4			5 1 5 3 4 1
Seismic Walkdown Checklist (SWC) SWEL1- 060		Status: Y⊠	N_ U_
Equipment ID No. K-6A Equip. Class 1 17- ENGINE	GENER	ATORS	
Equipment Description <u>EMERGENCY DIESEL GENERATOR 1-1</u>			
Other Adverse Conditions			
11. Have you looked for and found no other seismic conditions that of adversely affect the safety functions of the equipment?	could	$Y \boxtimes N \square U \square$	
Comments (Additional pages may be added as necessary)			
		T HI "	
Evaluated by: Alex Smerch		Date: 10/3/12	
Paul Klein		10/3/12	

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FOR
Sheet 4 of 4	
Seismic Walkdown Checklist (SWC) <u>SWEL1- 060</u>	Status: Y⊠ N⊡ U⊡
Equipment ID No. <u>K-6A</u> Equip. Class <sup>1</sup> <u>17- ENGINE C</u>	<u>GENERATORS</u>
Equipment Description EMERGENCY DIESEL GENERATOR 1-1	
Photographs	
This photo contains security-sensitive information. It is available for review at the Palisades Nuclear Plant.  Note: K-6A  Note:	

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 1 of 5	
	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) <u>SWEL1- 061</u>	
Equipment ID No. <u>K-6B</u> Equip. Class <sup>1</sup> <u>17, ENGINE</u>	GENERATORS
Equipment Description <u>EMERGENCY DIESEL GENERATOR 1-2</u>	
Location: Bldg. AUX Floor El. 590 Room, Area 1168	3
Manufacturer, Model, Etc. (optional but recommended)	·
Instructions for Completing Checklist	
This checklist may be used to document the results of the Seismic Walk SWEL. The space below each of the following questions may be used to findings. Additional space is provided at the end of this checklist for document	record the results of judgments and
<u>Anchorage</u>	
<ol> <li>Is the anchorage configuration verification required (i.e., is the ite of the 50% of SWEL items requiring such verification)?</li> </ol>	em one Y□ N⊠
2. Is the anchorage free of bent, broken, missing or loose hardware. The equipment is anchored to the floor on a grout pad with large anchors directly through the equipment mounting skid. There are smaller anchors attached through side plate stiffeners welded to side of the equipment skid.	e also
<ol> <li>Is the anchorage free of corrosion that is more than mild surface oxidation?</li> <li>The anchorage is painted. No corrosion noted.</li> </ol>	Y⊠ v॑□ u□ n/a□
4. Is the anchorage free of visible cracks in the concrete near the anchors? The concrete floor and grout pad are painted. Minor spalling not the grout pad on the west side of the equipment and is judged no affect seismic capacity of equipment.	

<sup>&</sup>lt;sup>1</sup> Enter the equipment class name from EPRI 1025286, Appendix B: Classes of Equipment.

ATTACHMENT 9.6 SEISMIC WALKDOWN CHECKLIST FO		
Sheet 2 of 5 Seismic Walkdown Checklist (SWC)SWEL1061	Status: Y⊠ N□ U□	
Equipment ID No. <u>K-6B</u> Equip. Class <sup>1</sup> <u>17, ENGINE GENER</u>	RATORS	
Equipment Description EMERGENCY DIESEL GENERATOR 1-2		
<ol> <li>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.)</li> </ol>	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? Item is not a soft target.	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? There is a qualified block wall, C104.21/Q per drawing C-104, Rev. 33 to the East of the equipment.  Damper D-29, which is at the end of a 3'-0" diameter sheet metal duct for V-24D is supported vertically with rod and thin straps adjacent to K-6B along the west side. There is minimal horizontal gap, <2", observed between tubing on K-6B and damper. The only lateral support noted was on the wall at the north end of the room where the duct enters. Due to the heavier mass at the end of the duct (i.e. damper) and flexible supports, deflections of duct expected to hit into diesel. Document EA-PO0007899-K6A-B-1, Rev.1, was reviewed and the frequency of the system and load given in this document would provide deflections > 2", thus impacting the generator. Further evaluation is required to determine potential for damage due to impact. Licensing basis evaluation, LB-18, has been initiated.	Y□ N⊠ U□ N/A□	
<ol> <li>Do attached lines have adequate flexibility to avoid damage?</li> <li>Associated lines and ducting contain multiple bends and expansion fittings.</li> </ol>	Y⊠ N□ U□ N/A□	

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 3 of 5	
Solomio Walkdown Chaoklist (SWC) SWEL1 061	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) SWEL1- 061	
Equipment ID No. <u>K-6B</u> Equip. Class <sup>1</sup> <u>17, ENGINE G</u>	ENERATORS
Equipment Description <u>EMERGENCY DIESEL GENERATOR 1-2</u>	
10. Based on the above seismic interaction evaluations, is equipment of potentially adverse seismic interaction effects?  Damper D-29, which is at the end of a 3'-0" diameter sheet metal of for V-24D is supported vertically with rod and thin straps adjacent to 6B along the west side. There is minimal horizontal gap, <2", observed the served to between tubing on K-6B and damper. The only lateral support not was on the wall at the north end of the room where the duct enters Due to the heavier mass at the end of the duct (i.e. damper) and flexible supports, deflections of duct expected to hit into diesel.  Document EA-PO0007899-K6A-B-1, Rev.1, was reviewed and the frequency of the system and load given in this document would prodeflections > 2", thus impacting the generator. Further evaluation required to determine potential for damage due to impact. Licensin basis evaluation, LB-18, has been initiated.	duct to K- erved ed i. ovide is
Other Adverse Conditions	
11. Have you looked for and found no other seismic conditions that conditions adversely affect the safety functions of the equipment? Support anchored to ceiling, which supports lines for E-22B, have bolts missing. Upon further inspection, there are welds along the post to embed steel in the ceiling of the room, therefore judged to be oknown.	2 Dlate
Comments (Additional pages may be added as necessary)	
Evaluated by: <u>Kevin Bessell</u>	Date: <u>10/15/2012</u>
Evaluated by: Kevin Bessell Lin Bull  John Kao  John Kao	10/15/2012

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 4 of 5	
0 : :- W-II-I OI	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) SWEL1- 06	<u>1</u>
Equipment ID No. <u>K-6B</u> Equip. Class <sup>1</sup> 1	7, ENGINE GENERATORS
Equipment Description EMERGENCY DIESEL GENERATO	DR 1-2
Photographs	
This photo contains security-sensitive information. It is available for review at the Palisades Nuclear Plant.	
we is	ote: Missing bolts in overhead support, however, belding is evident to embed in lieu of bolts. Photo from stairwell to Room 147 in northwest corner of the born looking up.

SEISMIC WALKDOWN CHECKLIST FORM

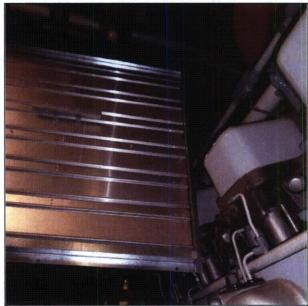
Sheet 5 of 5

Status: Y⊠ N□ U□

Seismic Walkdown Checklist (SWC) SWEL1- 061

Equipment ID No. K-6B Equip. Class 1 17, ENGINE GENERATORS

Equipment Description <u>EMERGENCY DIESEL GENERATOR 1-2</u>



Note: Credible interaction between V24D ventilation duct, D-29 damper and K-6B. Photo is looking north, west side of K-6B.



Note: Credible interaction between V24D ventilation duct, D-29 damper and K-6B. Photo is looking northeast, west side of K-6B.

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FOR
Sheet 1 of 5	
	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) <u>SWEL1- 062</u>	
Equipment ID No. <u>FT-0727</u> Equip. Class <sup>1</sup> <u>18 - INSTRUME</u>	NT RACKS
Equipment Description <u>AUX FEEDWATER PPS P-8A &amp; P-8B FLOW TRA</u>	NS
Location: Bldg. AUX Floor El. 590 Room, Area 123	
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
<u>Anchorage</u>	
1. Is the anchorage configuration verification required (i.e., is the item of the 50% of SWEL items requiring such verification)?	one Y⊠ N□
<ol> <li>Is the anchorage free of bent, broken, missing or loose hardware?         The equipment is attached to a shelf angle with 4 bottom bolts. This shelf angle is welded to a piece of HSS which is bolted to the concrewall with 4 bolts.     </li> </ol>	
Is the anchorage free of corrosion that is more than mild surface oxidation?  There is some slight mild surface oxidation.	Y⊠ N□ U□ N/A□
Is the anchorage free of visible cracks in the concrete near the anchors?  The HSS is anchored to the concrete wall with no cracks noted.	Y⊠ N□ U□ N/A□

<sup>&</sup>lt;sup>1</sup> Enter the equipment class name from EPRI 1025286, Appendix B: Classes of Equipment.

ATTACHMENT 9.6 SEISI	MIC WALKDOWN CHECKLIST FORM
Sheet 2 of 5	Status: Y⊠ N⊡ U⊡
Seismic Walkdown Checklist (SWC) <u>SWEL1- 062</u>	
Equipment ID No. <u>FT-0727</u> Equip. Class <sup>1</sup> <u>18 - INSTRUMENT F</u>	RACKS
Equipment Description AUX FEEDWATER PPS P-8A & P-8B FLOW TRANS	
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 check for FT-0727 was verified with the SEWS Report, EA-POC0007899-SEWS-FT0727 and Bechtel Drawing: JG-135(Q) Sheet 2 of 3 Rev. 001.	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?  Tubing coming off of the equipment has multiple bends.	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- 062	
Equipment ID No. <u>FT-0727</u> Equip. Class <sup>1</sup> <u>18 - INSTRUM</u>	ENT RACKS
Equipment Description AUX FEEDWATER PPS P-8A & P-8B FLOW TRA	ANS
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□
	A STATE OF THE STA
<u>Comments</u> (Additional pages may be added as necessary)	
Evaluated by: Alex Smerch	Date: <u>10-12-2012</u>
Poul & Llein	
Paul Klein	Date: <u>10-12-2012</u>
Paul Klein  Olan Sylm  Al Lyon	
Al Lyon	Date: <u>10-16-2012</u>

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 4 of 5

Status: Y⊠ N□ U□

Seismic Walkdown Checklist (SWC) SWEL1- 062

Equipment ID No. <u>FT-0727</u> Equip. Class 1 18 - INSTRUMENT RACKS

Equipment Description AUX FEEDWATER PPS P-8A & P-8B FLOW TRANS

## **Photographs**



Note: Anchorage of HSS to wall at the top of the component.



Note: Anchorage of HSS to wall at the bottom of the component.

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 5 of 5

Status: Y⊠ N□ U□

Seismic Walkdown Checklist (SWC) SWEL1- 062

Equipment ID No. FT-0727 Equip. Class 1 18 - INSTRUMENT RACKS

Equipment Description AUX FEEDWATER PPS P-8A & P-8B FLOW TRANS



Note: FT-0749



Note: Anchorage of equipment to shelf angle and weld of angle to HSS section.

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 1 of 4	
Seismic Walkdown Checklist (SWC)SWEL1- 063	Status: Y⊠ N□ U□
Equipment ID No. FT-0736A Equip. Class <sup>1</sup> 18 - INSTRUME	NT RACKS
Equipment Description AUX FW PUMP P-8C TO STM GEN E-50B FLOW	
Location: Bldg. AUX Floor El. 57 Room, Area 005	
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	
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?      It was anchored to a vertical steel channel which is welded to a baseplate.	Y⊠ N□ U□ N/A□
<ol> <li>Is the anchorage free of corrosion that is more than mild surface oxidation?</li> <li>The bolts had mild surface oxidation which was judged not be to be concern.</li> </ol>	Y⊠ N□ U□ N/A□ a
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Y⊠ N□ U□ N/A□
The baseplate was anchored to the concrete floor slab.	

<sup>&</sup>lt;sup>1</sup> Enter the equipment class name from EPRI 1025286, Appendix B: Classes of Equipment.

	MIC WALKDOWN CHECKLIST FORM
Sheet 2 of 4	
Seismic Walkdown Checklist (SWC) SWEL1- 063	Status: Y⊠ N□ U□
,	0.10//0
Equipment ID No. <u>FT-0736A</u> Equip. Class <sup>1</sup> <u>18 - INSTRUMENT</u>	· · · · · · · · · · · · · · · · · · ·
Equipment Description <u>AUX FW PUMP P-8C TO STM GEN E-50B FLOW IND</u>	
<ol> <li>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.)</li> </ol>	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	· · · · · · · · · · · · · · · · · · ·
<ol> <li>Are soft targets free from impact by nearby equipment or structures?         Metal box door directly above equipment was judged to swing         completely clear of FT-0736A and not pose a spatial interaction         concern.</li> </ol>	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 CHE	CKLIST FORM
Sheet 3 of 4			
		Status: Y⊠	$N \square U \square$
Seismic Walkdown Checklist (SWC) <u>SWEL1- 063</u>			
Equipment ID No. <u>FT-0736A</u> Equip. Class <sup>1</sup> <u>18 - INSTRU</u>	IMENT RAC	CKS	
Equipment Description <u>AUX FW PUMP P-8C TO STM GEN E-50B FLC</u>	OW IND		
Other Adverse Conditions			1.33. i
11. Have you looked for and found no other seismic conditions that of adversely affect the safety functions of the equipment?	could Y	'⊠ N□ U□	
	61900 61 180		
<u>Comments</u> (Additional pages may be added as necessary)			
Evaluated by: Alex Smerch		Octor 10/00/2011	
Evaluated by: Alex Smerch Col & Llain	<u> </u>	Date: 10/09/2012	4
Paul Klein		10/09/2012	2

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 4 of 4	
	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) <u>SWEL1- 063</u>	•
Equipment ID No. <u>FT-0736A</u> Equip. Class <sup>1</sup> <u>18 - IN</u>	STRUMENT RACKS
Equipment Description AUX FW PUMP P-8C TO STM GEN E-50	DB FLOW IND
Photographs	
Note: <i>FT-0736A</i> Note:	
·-	

ATTACHMENT 9.6 SEI	SMIC WALKDOWN CHECKLIST FORM
Sheet 1 of 4	
Calauria Malladarum Ob addish (CMC) CMELA 004	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) <u>SWEL1- 064</u>	
Equipment ID No. <u>FT-0737A</u> Equip. Class 1 18, INSTRUMENT	RACKS
Equipment Description <u>AUX FW PUMP P-8C TO STM GEN E-50A FLOW</u>	
Location: Bldg. AUX Floor El. 570 Room, Area 005	
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	
1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?	e Y□ N⊠
Is the anchorage free of bent, broken, missing or loose hardware?  It is anchored to a vertical steel channel which is welded to a steel baseplate.	Y⊠ N□ U□ N/A□
Is the anchorage free of corrosion that is more than mild surface oxidation?      There is no corrosion.	Y⊠ N□ U□ N/A□
4. Is the anchorage free of visible cracks in the concrete near the anchors? The baseplate is anchored to the concrete floor slab.	Y⊠ N□ U□ N/A□

<sup>&</sup>lt;sup>1</sup> Enter the equipment class name from EPRI 1025286, Appendix B: Classes of Equipment.

ATTACHMENT 9.6 SEIS	MIC WALKDOWN CHECKLIST FORM
Sheet 2 of 4	
Seismic Walkdown Checklist (SWC) SWEL1- 064	Status: Y⊠ N□ U□
Equipment ID No. FT-0737A Equip. Class <sup>1</sup> _18, INSTRUMENT R	PACKS
Equipment Description AUX FW PUMP P-8C TO STM GEN E-50A FLOW	
<ol> <li>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.)</li> </ol>	Y□ N□ U□ N/A⊠
Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	Y⊠ N□ U□
Interaction Effects	
7. Are soft targets free from impact by nearby equipment or structures?  A nearby pipe was noted to be supported in very close proximity to FT-0737A. Since this support point is in close proximity to FT-0737A it is judged that there would not be enough deflection during a seismic event to contact and damage FT-0737A.	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? Lighting over equipment does not have bulb guards but light bulbs were judged to have negligible effect on FT-0737A if they would fall.	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 FORM
Sheet 3 of 4	
Seismic Walkdown Checklist (SWC) SWEL1- 064	Status: Y⊠ N□ U□
Seisific Walkdown Checklist (SWC)SWEET- 004	
Equipment ID No. <u>FT-0737A</u> Equip. Class <sup>1</sup> <u>18, INSTRUMI</u>	ENT RACKS
Equipment Description AUX FW PUMP P-8C TO STM GEN E-50A FLOX	W
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)	
Item is inaccessible and will be deferred.	
Evaluated by: Alex Smerch	Date: 10/09/2012
Poul & Llain	
Paul Klein	10/09/2012

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 4 of 4  Seismic Walkdown Checklist (SWC) SWEL1- 064  Equipment ID No. FT-0737A Equip. Class 1 18, INST	Status: Y⊠ N□ U□
Equipment Description <u>AUX FW PUMP P-8C TO STM GEN E-50A</u>	
Photographs	A T LOV
Note: FT-0737A Note:	

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 1 of 5	
	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) SWEL1- 065	
Equipment ID No. <u>FT-0749</u> Equip. Class 1 18 - INSTRUM	IENT RACKS
Equipment Description AUX FEEDWATER PPS P-8A & P-8B FLOW TR	ANS
Location: Bldg. AUX Floor El. 590 Room, Area 123	
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 findings. Additional space is provided at the end of this checklist for document	record the results of judgments and
Anchorage	
<ol> <li>Is the anchorage configuration verification required (i.e., is the item of the 50% of SWEL items requiring such verification)?</li> </ol>	n one Y⊠ N□
2. Is the anchorage free of bent, broken, missing or loose hardware? The equipment is attached to a shelf angle with 4 bottom bolts. The shelf angle is welded to a piece of HSS which is bolted to the concease wall with 4 bolts.	ís
Is the anchorage free of corrosion that is more than mild surface oxidation?  There is some mild surface oxidation.	Y⊠ N□ U□ N/A□
4. Is the anchorage free of visible cracks in the concrete near the anchors? The HSS is anchored to the concrete wall with four bolts. There we crack in the vicinity of the anchorage that is not large enough to be considered a significant structural crack and has no effect on the structural adequacy of the anchorage of FT-0749.	

<sup>&</sup>lt;sup>1</sup> Enter the equipment class name from EPRI 1025286, 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- 065</u>	
Equipment ID No. <u>FT-0749</u> Equip. Class <sup>1</sup> <u>18 - INSTRUMENT</u>	RACKS
Equipment Description <u>AUX FEEDWATER PPS P-8A &amp; P-8B FLOW TRANS</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 was inspected using the SEWS Report EA-POC0007899-SEWS-FT0749 and Bechtel Drawing: JG-135(Q) Sheet 2 of 3 Rev. 001	Y⊠ N□ U□ N/A□
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	Y⊠ N□ U□
Interaction Effects	
7. Are soft targets free from impact by nearby equipment or structures?	Y⊠ N□ U□ N/A□
Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	Y⊠ N□ U□ N/A□
9. Do attached lines have adequate flexibility to avoid damage?  There is tubing coming off of the equipment with multiple bends.	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) SWEL1- 065	-
Equipment ID No. <u>FT-0749</u> Equip. Class <sup>1</sup> <u>18 - II</u>	NSTRUMENT RACKS
Equipment Description AUX FEEDWATER PPS P-8A & P-8B F	LOW TRANS
Other Adverse Conditions	
11. Have you looked for and found no other seismic condition adversely affect the safety functions of the equipment?	as that could Y⊠ N□ U□
<u>Comments</u> (Additional pages may be added as necessary)	
Evaluated by: Alex Smerch	Date: <u>10-12-2012</u>
Poul & Llein	
Paul Klein 70	Date: <u>10-12-2012</u>
Man Flym	
Al Lyon	Date: <u>10-16-2012</u>

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 4 of 5

Status: Y⊠ N□ U□

Seismic Walkdown Checklist (SWC) SWEL1- 065

Equipment ID No. <u>FT-0749</u> Equip. Class<sup>1</sup> <u>18 - INSTRUMENT RACKS</u>

Equipment Description AUX FEEDWATER PPS P-8A & P-8B FLOW TRANS

## **Photographs**



Note: FT-0749



**Note:** Anchorage of equipment to shelf angle.

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 5 of 5

Status: Y⊠ N□ U□

Seismic Walkdown Checklist (SWC) SWEL1- 065

Equipment ID No. <u>FT-0749</u> Equip. Class 1 18 - INSTRUMENT RACKS

Equipment Description AUX FEEDWATER PPS P-8A & P-8B FLOW TRANS



Note: Anchorage of HSS to wall at the top of the component.



Note: Anchorage of HSS to the wall at the bottom of the component.

ATTACHMENT 9.6	EISMIC WALKDOWN CHECKLIST FORI
Sheet 1 of 5	
Seismic Walkdown Checklist (SWC) SWEL1- 066	Status: Y⊠ N□ U□
Equipment ID No. <u>I/P-0727</u> Equip. Class <sup>1</sup> 18 - INSTRUMEN	NT RACKS
Equipment Description AUX FEEDWATER FLOW CONTROL TO S/G E-50	0B
Location: Bldg. <u>AUX</u> Floor El. <u>590</u> Room, Area <u>123</u>	
Manufacturer, Model, Etc. (optional but recommended)	<del> </del>
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 recfindings. Additional space is provided at the end of this checklist for docume	ord the results of judgments and
Anchorage	
<ol> <li>Is the anchorage configuration verification required (i.e., is the item o of the 50% of SWEL items requiring such verification)?</li> </ol>	ne Y⊠ N□
<ol> <li>Is the anchorage free of bent, broken, missing or loose hardware?         The equipment is mounted to 2 Unistrut with 4 bolts. The Unistruts ar             then in turn mounted to the wall with 2 bolts through each Unistrut.     </li> </ol>	Y⊠ N□ U□ N/A□ re
Is the anchorage free of corrosion that is more than mild surface oxidation?      There is no corrosion.	Y⊠ N□ U□ N/A□
Is the anchorage free of visible cracks in the concrete near the anchors?	Y⊠ N□ U□ N/A□
The item is mounted to a concrete wall with 4 anchors.	

<sup>&</sup>lt;sup>1</sup> Enter the equipment class name from EPRI 1025286, 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- 066	
Equipment ID No. <u>I/P-0727</u> Equip. Class 1 18 - INSTRUMENT I	RACKS
Equipment Description <u>AUX FEEDWATER FLOW CONTROL TO S/G E-50B</u>	
<ol> <li>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.)</li> <li>The anchorage is verified with EA-POC0007899-SEWS-IP0727 and Bechtel Dwg. JG-138(Q) Sheet 3 of 3.</li> </ol>	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 item also has a protective box covering it.	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 item also has a protective box covering it.	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	
Seismic Walkdown Checklist (SWC) SWEL1- 066	Status: Y⊠ N□ U□
Equipment ID No. <u>I/P-0727</u> Equip. Class <sup>1</sup> <u>18 - INSTRUM</u>	ENT RACKS
Equipment Description AUX FEEDWATER FLOW CONTROL TO S/G E-	-50B
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: Alex Smerch Mer Long	Date: <u>10-12-2012</u>
Paul Klein Foul & Lain	<u>10-12-2012</u>

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 4 of 5

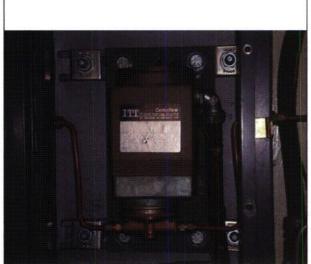
Status: Y⊠ N□ U□

Seismic Walkdown Checklist (SWC) SWEL1- 066

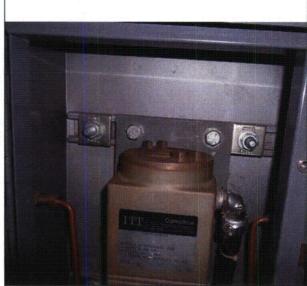
Equipment ID No. <u>I/P-0727</u> Equip. Class<sup>1</sup> <u>18 - INSTRUMENT RACKS</u>

Equipment Description AUX FEEDWATER FLOW CONTROL TO S/G E-50B

## **Photographs**



Note: I/P-0727



Note: Top Anchorage

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 5 of 5  Seismic Walkdown Checklist (SWC)SWEL1066	Status: Y⊠ N⊡ U⊡
Equipment ID No. <u>I/P-0727</u> Equip. Class <sup>1</sup> <u>18 - INS7</u>	FRUMENT RACKS
Equipment Description <u>AUX FEEDWATER FLOW CONTROL TO S</u>	
Note: Bottom Anchorage  Note:	

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 1 of 4	
•	Status: Y⊠ N⊟ U⊟
Seismic Walkdown Checklist (SWC) SWEL1- 067	
Equipment ID No. <u>I/P-0736A</u> Equip. Class <sup>1</sup> <u>18 - INSTRUM</u>	MENT RACKS
Equipment Description AFW FLOW CONTROL TO S/G E-50B	
Location: Bldg. AUX Floor El. 570 Room, Area 005	
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
<u>Anchorage</u>	
<ol> <li>Is the anchorage configuration verification required (i.e., is the iter of the 50% of SWEL items requiring such verification)?</li> </ol>	m one Y□ N⊠
<ol> <li>Is the anchorage free of bent, broken, missing or loose hardware?</li> <li>The equipment is anchored to a plate which is attached to two Un each of which is bolted to the wall with two anchor bolts.</li> </ol>	
Is the anchorage free of corrosion that is more than mild surface oxidation?	Y⊠ N□ U□ N/A□
Even though other anchorage in area has degradation from corrost there is no visible corrosion on the anchorage for I/P-0736A which appears to be stainless steel.	
Is the anchorage free of visible cracks in the concrete near the anchors?	Y⊠ N□ U□ N/A□
The equipment is attached to the concrete wall with 4 anchor bolts	S.

<sup>&</sup>lt;sup>1</sup> Enter the equipment class name from EPRI 1025286, Appendix B: Classes of Equipment.

	MIC WALKDOWN CHECKLIST FORM
Sheet 2 of 4	
	Status: Y⊠ N☐ U☐
Seismic Walkdown Checklist (SWC) <u>**SWEL1067</u>	
Equipment ID No. <u>I/P-0736A</u> Equip. Class <sup>1</sup> <u>18 - INSTRUMENT F</u>	RACKS
Equipment Description AFW FLOW CONTROL TO S/G E-50B	
<ol> <li>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.)</li> </ol>	Y NU UNAX
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	Y⊠ N□ U□
Interaction Effects  7. Are soft targets free from impact by nearby equipment or structures?	Y⊠ N□ U□ N/A□
No credible threats were noted and additionally equipment has protective metal box to help shield it from impact.	
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 WA	LKDOWN CHE	CKLIST FORM
Sheet 3 of 4					
			St	atus: Y⊠ I	
Seismic Walko	down Checklist (S	WC) <u>SWEL1- 067</u>		án i	
Equipment ID No	o. <u>I/P-0736A</u>	Equip. Class <sup>1</sup> _18 - INSTRUM	MENT RACKS		
Equipment Desc	ription AFW FLOW	CONTROL TO S/G E-50B			
Other Adverse	Conditions	1			
		d no other seismic conditions that co	ould Y⊠	N U	
Comments (Add	litional pages may be	e added as necessary)	1		
Evaluated by: <u>Ale</u>	ex Smerch Mix	lan	Date	: <u>10/10/2012</u>	
Po	aul Klein Poul &	Llein		10/10/2012	
Pa	iui Nielli		<del></del>	10/10/2012	

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORI
Sheet 4 of 4	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) SWEL1- 067	
Equipment ID No. <u>I/P-0736A</u> Equip. Class <sup>1</sup> <u>18 - I/N</u>	STRUMENT RACKS
Equipment Description AFW FLOW CONTROL TO S/G E-50B	
Photographs	
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Note: 1/P0736A Note:	

	EISMIC WALKDOWN CHECKLIST FORI
Sheet 1 of 4	
Seismic Walkdown Checklist (SWC) <u>SWEL1- 068</u>	Status: Y⊠ N□ U□
Equipment ID No. <u>I/P-0737A</u> Equip. Class <sup>1</sup> <u>18 - INSTRUMEN</u>	T RACKS
Equipment Description AFW FLOW CONTROL TO S/G E-50A	····
Location: Bldg. <u>AUX</u> Floor El. <u>570</u> Room, Area <u>005</u>	
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	
<ol> <li>Is the anchorage configuration verification required (i.e., is the item or of the 50% of SWEL items requiring such verification)?</li> </ol>	ne Y□ N⊠
2. Is the anchorage free of bent, broken, missing or loose hardware?  The equipment is anchored to a plate which is attached to two Unistrueach of which is bolted to the wall with two anchor bolts.	Y⊠ N⊡ U⊡ N/A⊡ uts
Is the anchorage free of corrosion that is more than mild surface oxidation?  There is no corrosion on the anchorage.	Y⊠ N□ U□ N/A□
4. Is the anchorage free of visible cracks in the concrete near the anchors?  The equipment is attached to the concrete wall with 4 anchor bolts.	Y⊠ N□ U□ N/A□

<sup>&</sup>lt;sup>1</sup> Enter the equipment class name from EPRI 1025286, Appendix B: Classes of Equipment.

		MIC WALKDOWN CHECKLIST FOR
Sheet :	of 4 nic Walkdown Checklist (SWC) <u>SWEL1- 068</u>	Status: Y⊠ N⊟ U⊟
Equip	ment ID No. <u>I/P-0737A</u> Equip. Class <sup>1</sup> <u>18 - INSTRUMENT I</u>	RACKS
Equip	ment Description AFW FLOW CONTROL TO S/G E-50A	
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?	Y⊠ N□ U□
_	Are soft targets free from impact by nearby equipment or structures?  No credible threats were noted and additionally equipment has protective metal box to help shield it from impact.	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?  Light bulbs were observed not to have bulb covers but due to equipment being protected by an outer metal box this was judged not to be a concern.	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□

FACHMENT 9.6 SEISMIC WALKDOWN CHECKLIS		
Sheet 3 of 4		
	Status: Y⊠ N□ U□	
Seismic Walkdown Checklist (SWC) <u>SWEL1- 068</u>		
Equipment ID No. <u>I/P-0737A</u> Equip. Class <sup>1</sup> <u>18 - INSTRU</u>	MENT RACKS	
Equipment Description AFW FLOW CONTROL TO S/G E-50A		
Other Adverse Conditions	± 50	
11. Have you looked for and found no other seismic conditions that of adversely affect the safety functions of the equipment?	could Y⊠ N□ U□	
Comments (Additional pages may be added as necessary)		
Evaluated by: Alex Smerch Mue Long	Date: <u>10/10/2012</u>	
Fand by & Sain		
Paul Klein	10/10/2012	

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 4 of 4	
Seismic Walkdown Checklist (SWC) SWEL1-	Status: Y⊠ N□ U□
Equipment ID No. <u>I/P-0737A</u> Equip. Class	s <sup>1</sup> 18 - INSTRUMENT RACKS
Equipment Description AFW FLOW CONTROL TO S/G	6 E-50A
Photographs	
CONTROL OF THE PARTY OF THE PAR	
Note: I/P-0737A	Note:

ATTACHMENT 9.6 SE	SMIC WALKDOWN CHECKLIST FORM
Sheet 1 of 5	
	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) - SWEL1- 069	
Equipment ID No. <u>I/P-0749</u> Equip. Class <sup>1</sup> 18 - INSTRUMENT	RACKS
Equipment Description <u>AUX FEEDWATER FLOW CONTROL TO S/G E-50A</u>	
Location: Bldg. AUX Floor El. 590 Room, Area 123	
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
<u>Anchorage</u>	
<ol> <li>Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?</li> </ol>	e Y⊠ N□
2. Is the anchorage free of bent, broken, missing or loose hardware?  The equipment is mounted to 2 Unistrut with 4 bolts. The Unistruts are then in turn mounted to the wall with 2 bolts through each Unistrut.	Y⊠ N□ U□ N/A□
Is the anchorage free of corrosion that is more than mild surface oxidation?  There is no corrosion.	Y⊠ N□ U□ N/A□
4. Is the anchorage free of visible cracks in the concrete near the anchors? The item is mounted to a concrete wall with 4 anchors.	Y⊠ N□ U□ N/A□

<sup>&</sup>lt;sup>1</sup> Enter the equipment class name from EPRI 1025286, Appendix B: Classes of Equipment.

	IIC WALKDOWN CHECKLIST FORM
Sheet 2 of 5  Seismic Walkdown Checklist (SWC) SWEL1- 069	Status: Y⊠ N⊡ U⊡
Equipment ID No. <u>I/P-0749</u> Equip. Class <sup>1</sup> 18 - INSTRUMENT R	ACKS
Equipment Description AUX FEEDWATER FLOW CONTROL TO S/G E-50A	
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 for the item was confirmed with EA-POC007899-SEWS-IP0749 and Bechtel Dwg. JG-138(Q) Sheet 3 of 3.	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 item also has a protective box covering it.	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?  There is a nearby qualified block wall.	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 FORM		
Sheet 3 of 5	**************************************		
Seismic Walkdown Checklist (SWC) SWEL1- 069	St	atus: Y⊠ N[	_ U_
Equipment ID No. <u>I/P-0749</u> Equip. Class <sup>1</sup> 18 - INSTRUM	MENT RACKS		
Equipment Description <u>AUX FEEDWATER FLOW CONTROL TO S/G E</u>	-50A		
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)	inaggipangan an an ina an an ina an		
		10 10 100 10 10 100 10 100 100	
Evaluated by: Alex Smerch Mee Long	Date	: <u>10-12-2012</u>	
Paul Klein Poul & Llain		10-12-2012	

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 4 of 5

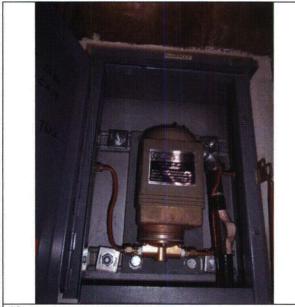
Status: Y⊠ N□ U□

Seismic Walkdown Checklist (SWC) SWEL1- 069

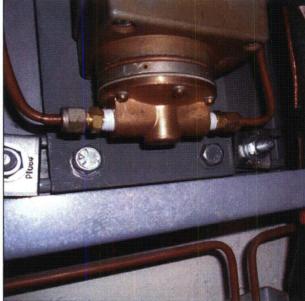
Equipment ID No. <u>I/P-0749</u> Equip. Class<sup>1</sup> <u>18 - INSTRUMENT RACKS</u>

Equipment Description AUX FEEDWATER FLOW CONTROL TO S/G E-50A

## **Photographs**



Note: I/P-0749



Note: Bottom Anchorage

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 5 of 5	
Seismic Walkdown Checklist (SWC) SWEL1- 069	Status: Y⊠ N□ U□
Equipment ID No. <u>I/P-0749</u> Equip. Class <sup>1</sup> <u>18 - INS</u>	STRUMENT RACKS
Equipment Description AUX FEEDWATER FLOW CONTROL TO	) S/G E-50A
Note: Top Anchorage  Note:	

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 1 of 4	
Colomia Malladous Chadalist (CMC) CMEL 4 070	Status: Y⊠ N☐ U☐
Seismic Walkdown Checklist (SWC) SWEL1- 070	
Equipment ID No. <u>LT-0331</u> Equip. Class <sup>1</sup> <u>18 - INSTRUME</u>	ENT RACKS
Equipment Description SIRW TANK CKT 2 LEVEL TRANSMITTER	
Location: Bldg. AUX Floor El. 644 Room, Area 808	
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 documents.	ecord the results of judgments and
Anchorage	1
<ol> <li>Is the anchorage configuration verification required (i.e., is the item of the 50% of SWEL items requiring such verification)?</li> </ol>	one Y⊠ N□
2. Is the anchorage free of bent, broken, missing or loose hardware?  LT-0331 is mounted to a manifold with 4 - 7/16 in. alloy bolts. The manifold is mounted to a 3/8 in. S.S. plate with 2 - 5/16 in. alloy bolt and the plate is mounted to a flange on the tank.	Y⊠ N□ U□ N/A□
Is the anchorage free of corrosion that is more than mild surface oxidation?  There was no corrosion in excess of mild surface corrosion noted.	Y⊠ N□ U□ N/A□
4. Is the anchorage free of visible cracks in the concrete near the anchors? LT-0331 is mounted to a tank flange.	Y□ N□ U□ N/A⊠

<sup>&</sup>lt;sup>1</sup> Enter the equipment class name from EPRI 1025286, Appendix B: Classes of Equipment.

	SMIC WALKDOWN CHECKLIST FORM
Sheet 2 of 4	
Seismic Walkdown Checklist (SWC) <u>SWEL1-</u> 070	Status: Y⊠ N☐ U☐
Equipment ID No. <u>LT-0331</u> Equip. Class <sup>1</sup> <u>18 - INSTRUMENT</u>	RACKS
Equipment Description SIRW TANK CKT 2 LEVEL TRANSMITTER	
<ol> <li>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 of LT-0331 was compared with Palisades Dwgs. 950Y345 E-119A Shts. 10A and 11A.     </li> </ol>	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	
<ol> <li>Are soft targets free from impact by nearby equipment or structures?         LT-0331 is located outside in a metal weather enclosure on the southeast side of tank T-58.     </li> </ol>	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?  As noted above LT-0331 is located outside in a metal weather enclosure. The only overhead system noted was what appears to be ductwork mounted on the Aux. Bldg. on the east side of tank T-58. The ductwork appeared to be well supported and is judged not to be a problem.	Y⊠ N□ U□ N/A□
9. Do attached lines have adequate flexibility to avoid damage?  Output  Description:	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 CHECKL	
Sheet 3 of 4	
	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) SWEL1- 070	
Equipment ID No. <u>LT-0331</u> Equip. Class <sup>1</sup> <u>18 - INSTRUME</u>	ENT RACKS
Equipment Description SIRW TANK CKT 2 LEVEL TRANSMITTER	
Other Adverse Conditions	
11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment?	lld Y⊠ N□ U□
Comments (Additional pages may be added as necessary)	1 mari
Evaluated by: Alex Smerch	Data: 10.10.12
Forl & Llein	Date: <u>10-10-12</u>
Paul Klein 0	<u>10-10-12</u>

ATTACHMENT 9.6		SEISMIC V	VALKDOW	N CHECKLIST F	ORM
Sheet 4 of 4		10 10 10 10 10 10 10 10 10 10 10 10 10 1	Status: `	Y⊠ N□ U[	
Seismic Walkdown Checklist (SWC) <u>SWEL1-</u>	070				
Equipment ID No. <u>LT-0331</u> Equip. Clas	s <sup>1</sup> _18 - INSTRUM	MENT RAC	KS		
Equipment Description SIRW TANK CKT 2 LEVEL TR	ANSMITTER				
Photographs	tid				
			And an area of the state of the		
			4		
Note: LT-0331	Note:				
	100 100 100 100 100 100 100 100 100 100				

ATTACHMENT 9.6	EISMIC WALKDOWN CHECKLIST FORI
Sheet 1 of 4	
Seismic Walkdown Checklist (SWC) SWEL1- 071	Status: Y⊠ N□ U□
· · · · · · · · · · · · · · · · · · ·	
Equipment ID No. <u>LT-0332A</u> Equip. Class <sup>1</sup> <u>18 - INSTRUMEN</u>	IT RACKS
Equipment Description SIRW LEVEL TRANSMITTER	
Location: Bldg. <u>AUX</u> Floor El. <u>644</u> Room, Area <u>808</u>	
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 recifindings. 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 the 50% of SWEL items requiring such verification)?	ne Y□ N⊠
2. Is the anchorage free of bent, broken, missing or loose hardware?  LT-0332A is mounted to a manifold with 4 - 7/16 in. alloy bolts. The manifold is mounted to a 3/8 in. S.S. plate with 2 - 5/16 in. alloy bolts and the plate is mounted to a flange on the tank.	Y⊠ N□ U□ N/A□
<ol> <li>Is the anchorage free of corrosion that is more than mild surface oxidation?</li> <li>Inspection of the anchorage of LT-0332A revealed a minimal amount mild surface corrosion.</li> </ol>	Y⊠ N□ U□ N/A□
4. Is the anchorage free of visible cracks in the concrete near the anchors? LT-0332A is mounted to a tank flange.	Y NUUN/A

<sup>&</sup>lt;sup>1</sup> Enter the equipment class name from EPRI 1025286, Appendix B: Classes of Equipment.

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 2 of 4  Seismic Walkdown Checklist (SWC)SWEL1071	Status: Y N U
Equipment ID No. <u>LT-0332A</u> Equip. Class <sup>1</sup> <u>18 - INSTRU</u>	MENT RACKS
Equipment Description SIRW LEVEL TRANSMITTER	
<ol> <li>Is the anchorage configuration consistent with plant documentati (Note: This question only applies if the item is one of the 50% for an anchorage configuration verification is required.)</li> </ol>	
6. Based on the above anchorage evaluations, is the anchorage free potentially adverse seismic conditions?	ee of Y⊠ N□ U□
Interaction Effects  7. Are soft targets free from impact by nearby equipment or structure LT-0332A is located in a metal weather enclosure on the southwaside of tank T-58.	
8. Are overhead equipment, distribution systems, ceiling tiles and ligand masonry block walls not likely to collapse onto the equipment As described in the above response, LT-0332A is located outside metal weather enclosure and no items are likely to collapse on L 0332A.	e in 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 of potentially adverse seismic interaction effects?	ot free Y⊠ N⊟ U⊟

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ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 3 of 4	
Seismic Walkdown Checklist (SWC) SWEL1- 071	Status: Y⊠ N□ U□
Seisific Walkdowii Checklist (SWC) SWELT- 0/1	
Equipment ID No. <u>LT-0332A</u> Equip. Class <sup>1</sup> <u>18 - INSTRU</u>	MENT RACKS
Equipment Description SIRW LEVEL TRANSMITTER	
Other Adverse Conditions	
11. Have you looked for and found no other seismic conditions that of adversely affect the safety functions of the equipment?	could Y⊠ N□ U□
Comments (Additional pages may be added as necessary)	
Mer 1	
Evaluated by: Alex Smerch	Date: <u>10-10-12</u>
Poul & Lein	40.40.40
Paul Klein 0	<u>10-10-12</u>

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 4 of 4	
Seismic Walkdown Checklist (SWC) SWEL1-	Status: Y⊠ N□ U□
Equipment ID No. <u>LT-0332A</u> Equip. Class	s <sup>1</sup> <u>18 - INSTRUMENT RACKS</u>
Equipment Description SIRW LEVEL TRANSMITTER	
Photographs	
Note: LT-0332A	Note:
FRE 42	= -

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 1 of 5	
	Status: Y⊠ N☐ U☐
Seismic Walkdown Checklist (SWC) <u>SWEL1- 072</u>	
Equipment ID No. <u>LT-2021</u> Equip. Class 1 18, INSTRUME	ENT RACKS
Equipment Description CONDENSATE STORAGE TANK T-2 HIGH-LOV	<u>V LEVEL</u>
Location: Bldg. <u>TURB</u> Floor El. <u>590</u> Room, Area <u>OUTS</u>	IDE
Manufacturer, Model, Etc. (optional but recommended)	
Instructions for Completing Checklist	
This checklist may be used to document the results of the Seismic Walkdo SWEL. The space below each of the following questions may be used to refindings. Additional space is provided at the end of this checklist for documents.	ecord the results of judgments and
Anchorage	
<ol> <li>Is the anchorage configuration verification required (i.e., is the item of the 50% of SWEL items requiring such verification)?</li> </ol>	none Y⊠ N⊡
<ol> <li>Is the anchorage free of bent, broken, missing or loose hardware? Equipment is mounted inside a sheet metal enclosure. Equipment anchored to a support bracket with 4 bolts. The support bracket is anchored to a pipe with a u-bolt.</li> </ol>	tis .
Is the anchorage free of corrosion that is more than mild surface oxidation?      No corrosion noted.	Y⊠ N□ U□ N/A□
4. Is the anchorage free of visible cracks in the concrete near the anchors? Equipment is mounted to a support bracket and pipe.	Y N U N/A

<sup>&</sup>lt;sup>1</sup> Enter the equipment class name from EPRI 1025286, Appendix B: Classes of Equipment.

	MIC WALKDOWN CHECKLIST FORM
Sheet 2 of 5	
	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) <u>SWEL1- 072</u>	•
Equipment ID No. <u>LT-2021</u> Equip. Class <sup>1</sup> <u>18, INSTRUMENT R.</u>	ACKS
Equipment Description CONDENSATE STORAGE TANK T-2 HIGH-LOW LEVI	<u>EL</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 equipment anchorage configuration is not consistent with the installation procedures provided in vendor manual J0445-SH-0007.  The manual calls for 2 u-bolts when anchored to the pipe. The anchorage is judged to be adequate, however, requires further verification for configuration control. Licensing basis evaluation, LB-13, has been initiated. CR-PLP-2012-07149 has been generated for this condition	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 equipment anchorage configuration is not consistent with the installation procedures provided in vendor manual J0445-SH-0007. The manual calls for 2 u-bolts when anchored to the pipe. The anchorage is judged to be adequate, however, requires further verification for configuration control. Licensing basis evaluation, LB-13, has been initiated. CR-PLP-2012-07149 has been generated for this condition.	
Interaction Effects	
7. Are soft targets free from impact by nearby equipment or structures?  A light and speaker system is noted on the top of the turbine building.  Mounting of these fixtures is unknown and is considered a credible and significant interaction. Further evaluation is required. Licensing basis evaluation, LB-14, has been initiated.  Adjacent tanks T-81 and T-7 pose interaction concerns. T-81 is documented in SEWS Sht. 1 of 4 as posing no interaction threat. Tank T-7 is smaller and sufficiently anchored and judged not to be credible	Y□ N⊠ U□ N/A□
<ul><li>interaction.</li><li>8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?</li></ul>	Y⊠ N□ U□ N/A□
Block walls observed to the east of the equipment. Block wall is only about 3'-0" and judge to be okay due to exterior wall based on wind loading being larger compared to seismic loading and small cantilever height.	
Do attached lines have adequate flexibility to avoid damage?	Y⊠ N□ U□ N/A□

ATTACHMENT 9.6 SE	ISMIC WALKDOWN CHECKLIST FORM
Sheet 3 of 5	
Seismic Walkdown Checklist (SWC) <u>SWEL1- 072</u>	Status: Y⊠ N□ U□
· · · · · · · · · · · · · · · · · · ·	
Equipment ID No. <u>LT-2021</u> Equip. Class 1 18, INSTRUMENT	RACKS
Equipment Description <u>CONDENSATE STORAGE TANK T-2 HIGH-LOW LI</u>	EVEL
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? A light and speaker system is noted on the top of the turbine building. Mounting of these fixtures is unknown and is considered a credible an significant interaction. Further evaluation is required. Licensing basis evaluation, LB-14, has been initiated.	, — — — d
Other Adverse Conditions	
Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment?	Y⊠ N□ U□
Comments (Additional pages may be added as necessary)	
Evaluated by: Kevin Bessell Kao  John Kao	Date: 10/10/2012
John Kao	10/10/2012
JUIII Nau	

Seismic Walkdown Checklist Form

Sheet 4 of 5

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1- 072

Equipment ID No. LT-2021 Equip. Class 1 18, INSTRUMENT RACKS

Equipment Description CONDENSATE STORAGE TANK T-2 HIGH-LOW LEVEL

Photographs



Note: Equipment.



Note: Equipment.

Seismic Walkdown Checklist Form

Sheet 5 of 5

Status: Y N U

Seismic Walkdown Checklist (SWC) SWEL1- 072

Equipment ID No. LT-2021 Equip. Class 1 18, INSTRUMENT RACKS

Equipment Description CONDENSATE STORAGE TANK T-2 HIGH-LOW LEVEL



**Note:** View of u-bolt anchorage. Vendor installation manual calls for two u-bolts. Only one u-bolt is installed.

This photo contains security-sensitive information. It is available for review at the Palisades Nuclear Plant.

**Note:** Overhead light and speaker system on top of Turbine building east of component. View is looking east from the road.

ATTACHMENT 9.6 SE	ISMIC WALKDOWN CHECKLIST FORM
Sheet 1 of 5	
	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) SWEL1- 073	
Equipment ID No. <u>LT-2022</u> Equip. Class <sup>1</sup> <u>18, INSTRUMENT</u>	RACKS
Equipment Description CONDENSATE STORAGE TANK HI-LO TRANS	
Location: Bldg. <u>TURB</u> Floor El. <u>590</u> Room, Area <u>OUTSIDE</u>	
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	
<ol> <li>Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?</li> </ol>	e Y□ N⊠
2. Is the anchorage free of bent, broken, missing or loose hardware? Equipment is mounted inside a sheet metal enclosure. Equipment is anchored to a support bracket with 4 bolts. The support bracket is their anchored to a pipe with a u-bolt. One of the nuts on the u-bolt support is not fully engaged, however, the u-bolt has double nuts on both ends and the support is judged to be	
<ul><li>okay.</li><li>3. Is the anchorage free of corrosion that is more than mild surface oxidation?</li><li>Some mild corrosion noted.</li></ul>	Y⊠ N□ U□ N/A□
4. Is the anchorage free of visible cracks in the concrete near the anchors?  Mounted to a support bracket and pipe.	Y□ N□ U□ N/A⊠

<sup>&</sup>lt;sup>1</sup> Enter the equipment class name from EPRI 1025286, Appendix B: Classes of Equipment.

ATTACHMENT 9.6 SEIS	MIC WALKDOWN CHECKLIST FORM
Sheet 2 of 5	
Seismic Walkdown Checklist (SWC) <u>SWEL1- 073</u>	Status: Y⊠ N□ U□
Equipment ID No. <u>LT-2022</u> Equip. Class 1 18, INSTRUMENT R	ACKS
Equipment Description CONDENSATE STORAGE TANK HI-LO TRANS	
<ol> <li>Is the anchorage configuration consistent with plant documentation? (Notè: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)</li> </ol>	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?  A light and speaker system is noted on the top of the turbine building.  Mounting of these fixtures is unknown and is considered a credible and significant interaction. Further evaluation is required. Licensing basis evaluation, LB-15, has been initiated.	Y□ N⊠ U□ N/A□
Adjacent tanks T-81 and T-7 pose interaction concerns. T-81 is documented in SEWS Sht. 1 of 4 as posing no interaction threat. Tank T-7 is smaller and sufficiently anchored and judged not to be credible interaction.	
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?  Block walls observed to the east of the equipment. Block wall is only about 3'-0" and judge to be okay due to exterior wall based on wind loading being larger compared to seismic loading and small cantilever height.	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? A light and speaker system is noted on the top of the turbine building. Mounting of these fixtures is unknown and is considered a credible and	Y□ N⊠ U□
significant interaction. Further evaluation is required. Licensing basis evaluation, LB-15, has been initiated.	

SEISMIC WALKDOWN CHECKLIST FORM
Status: Y⊠ N□ U□
MENT RACKS
s
ould Y⊠ N□ U□
·
Date: <u>10/10/2012</u>
10/10/2012

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 4 of 5

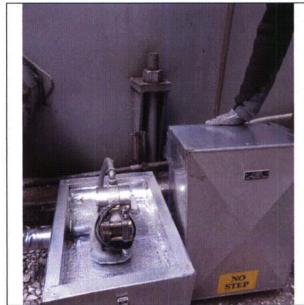
Status: Y⊠ N□ U□

Seismic Walkdown Checklist (SWC) SWEL1- 073

Equipment ID No. <u>LT-2022</u> Equip. Class 1 18, INSTRUMENT RACKS

Equipment Description CONDENSATE STORAGE TANK HI-LO TRANS

## **Photographs**

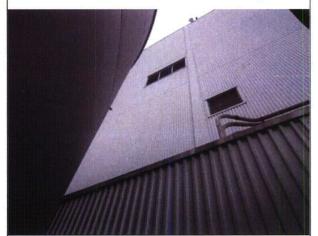


Note: Equipment.



Note: Equipment.

ATTACHMENT 9.6		SEISMIC WALKDOWN CHECKLIST FORM
Sheet 5 of 5		
		Status: Y⊠ N⊡ U⊡
Seismic Walkdov	vn Checklist (SWC)	SWEL1- 073
Equipment ID No.	LT-2022	Equip. Class <sup>1</sup> 18, INSTRUMENT RACKS
Equipment Descripti	ion CONDENSATE ST	TORAGE TANK HIJ O TRANS



**Note:** Overhead light and speaker system on top of Turbine building east of component. View is looking up from component.

This photo contains security-sensitive information. It is available for review at the Palisades Nuclear Plant.

**Note:** Overhead light and speaker system on top of Turbine building east of component. View is looking east from the road.

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 1 of 5	
	Status: Y⊠ N⊟ U⊟
Seismic Walkdown Checklist (SWC) SWEL1- 074	
Equipment ID No. <u>PT-0741A</u> Equip. Class <sup>1</sup> <u>18 - INSTRUM</u>	MENT RACKS
Equipment Description AUX FW PUMPS P-8A AND P-8B LOW SUCTION	ON
Location: Bldg. <u>TURB</u> Floor El. <u>570</u> Room, Area <u>007</u>	
Manufacturer, Model, Etc. (optional but recommended) ROSEMOUNT	-
Instructions for Completing Checklist	
This checklist may be used to document the results of the Seismic Walke 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	
<ol> <li>Is the anchorage configuration verification required (i.e., is the itel of the 50% of SWEL items requiring such verification)?</li> </ol>	m one Y⊠ N□
2. Is the anchorage free of bent, broken, missing or loose hardware?  PT-0741A is bolted to the 6x6 sq. steel tube with 4 bolts and the say, tube is bolted to the concrete wall with 4 - 1/2 in. concrete and	steel
Is the anchorage free of corrosion that is more than mild surface oxidation?      Minimal mild surface oxidation was observed on the concrete and	Y⊠ N□ U□ N/A□ hors.
4. Is the anchorage free of visible cracks in the concrete near the anchors? The 6x6 steel sq. tube supporting PT-0741A is attached to the no concrete wall with 4 - 1/2in. concrete bolts.	Y⊠ N□ U□ N/A□

<sup>&</sup>lt;sup>1</sup> Enter the equipment class name from EPRI 1025286, Appendix B: Classes of Equipment.

ATTACHMENT 9.6 Seis	MIC WALKDOWN CHECKLIST FORM
Sheet 2 of 5	
Seismic Walkdown Checklist (SWC) SWEL1- 074	Status: Y⊠ N□ U□
Equipment ID No. PT-0741A Equip. Class 18 - INSTRUMENT	RACKS
Equipment Description AUX FW PUMPS P-8A AND P-8B LOW SUCTION	
5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)  Anchorage of the 6x6 sq. tube to the concrete wall and connection of LT-0741 to the steel sq. tube was compared with Palisades Dwg JG88 Shts. 3 and 4.	Y⊠ N□ U□ N/A□
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	Y⊠ N□ U□
Interaction Effects  7. Are soft targets free from impact by nearby equipment or structures?	Y⊠ N□ U□ N/A□
Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	Y⊠ N□ U□ N/A□
9. Do attached lines have adequate flexibility to avoid damage?	Y⊠ N□ U□ N/A□
Based on the above seismic interaction evaluations, is equipment free of notentially adverse seismic interaction effects?	Y⊠ N□ U□

ATTACHMENT 9.6	Sı	EISMIC WALKDOWN CHECKLIST FORM
Sheet 3 of 5		
		Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC)	SWEL1- 074	
Equipment ID No. PT-0741A	Equip. Class <sup>1</sup> 18 - INSTRUMEN	T RACKS
Equipment Description AUX FW PUMPS	P-8A AND P-8B LOW SUCTION	
Other Adverse Conditions		
<ol> <li>Have you looked for and found no calculated adversely affect the safety functions</li> </ol>		Y⊠ N□ U□
The state of the s		
Comments (Additional pages may be adde	ed as necessary)	
Evaluated by: Alex Smerch		Date: <u>10-12-12</u>
Paul Klein Forly X	lein	10-12-12

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 4 of 5

Status: Y⊠ N□ U□

Seismic Walkdown Checklist (SWC) SWEL1- 074

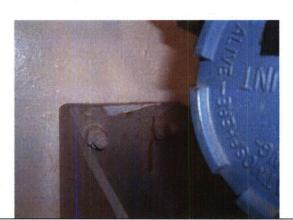
Equipment ID No. <u>PT-0741A</u> Equip. Class 1 18 - INSTRUMENT RACKS

Equipment Description AUX FW PUMPS P-8A AND P-8B LOW SUCTION

## **Photographs**



Note: PT-0741A



Note: PT-0741A Upper Sq. Tube Conc. Anchors

SEISMIC WALKDOWN CHECKLIST FORM

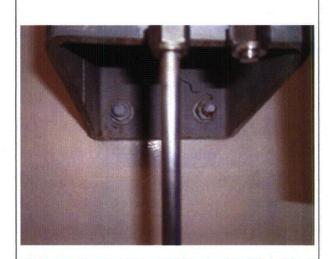
Sheet 5 of 5

Status: Y⊠ N□ U□

Seismic Walkdown Checklist (SWC) SWEL1- 074

Equipment ID No. <u>PT-0741A</u> Equip. Class 1 18 - INSTRUMENT RACKS

Equipment Description AUX FW PUMPS P-8A AND P-8B LOW SUCTION



Note: Pt-0741A Lower Sq. Tube Conc. Anchors



Note: PT-0741A Instrument Bolts (Quantity -4)

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 1 of 5	
	Status: Y⊠ N⊡ U⊡
Seismic Walkdown Checklist (SWC) <u>SWEL1- 075</u>	•
Equipment ID No. <u>PT-0741B</u> Equip. Class <sup>1</sup> <u>18 - INSTRUM</u>	MENT RACKS
Equipment Description AUX FW PUMPS P-8A & P-8B LOW SUCTION	
Location: Bldg. <u>TURB</u> Floor El. <u>570</u> Room, Area <u>007</u>	
Manufacturer, Model, Etc. (optional but recommended) ROSEMOUNT	
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	
<ol> <li>Is the anchorage configuration verification required (i.e., is the iter of the 50% of SWEL items requiring such verification)?</li> </ol>	m one Y⊠ N□
2. Is the anchorage free of bent, broken, missing or loose hardware?  PT-0741B is bolted to the 6x6 sq. steel tube with 4 bolts and the s sq. tube is bolted to the concrete wall with 4 - 1/2 in. conc. anchor	steel
Is the anchorage free of corrosion that is more than mild surface oxidation?      Minimal mild surface oxidation was observed on the concrete ance.	Y⊠ N□ U□ N/A□ hors.
4. Is the anchorage free of visible cracks in the concrete near the anchors? The 6x6 steel sq. tube supporting PT-0741B is attached to the no conc. wall with 4 - 1/2 in. concrete bolts.	Y⊠ N□ U□ N/A□

<sup>&</sup>lt;sup>1</sup> Enter the equipment class name from EPRI 1025286, Appendix B: Classes of Equipment.

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 2 of 5	Status: Ý⊠ N⊟ U⊟
Seismic Walkdown Checklist (SWC) SWEL1- 075	Status. IM NO O
Equipment ID No. <u>PT-0741B</u> Equip. Class <sup>1</sup> <u>18 - INSTRUM</u>	IENT RACKS
Equipment Description <u>AUX FW PUMPS P-8A &amp; P-8B LOW SUCTION</u>	
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.) Anchorage of the 6x6 sq. tube to the concrete wall and connection PT-0741B was compared with Palisades Dwgs. JG88 Shts. 3 and	vhich of
6. Based on the above anchorage evaluations, is the anchorage free potentially adverse seismic conditions?	of Y⊠ N□ U□
Interaction Effects  7. Are soft targets free from impact by nearby equipment or structure.	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? Chain above is locked.	
9. Do attached lines have adequate flexibility to avoid damage?	Y⊠ N□ U□ N/A□
Based on the above seismic interaction evaluations, is equipment of potentially adverse seismic interaction effects?	free Y⊠ N⊡ U□

ATTACHMENT 9.6		SEISM	IC WALK	DOWN CHE	CKLIST FORM
Sheet 3 of 5					
Seismic Walkdown Checklist (SWC) S	WEL1- 075		Stat	us: Y⊠	N_ U_
Equipment ID No. <u>PT-0741B</u> Equ	uip. Class <sup>1</sup> <u>18 - IN</u>	STRUMENT R	ACKS		
Equipment Description AUX FW PUMPS P-8A	& P-8B LOW SUC	CTION			
Other Adverse Conditions					
<ol> <li>Have you looked for and found no other adversely affect the safety functions of t</li> </ol>		that could	Y⊠ N	□U□	
Comments (Additional pages may be added as	s necessary)				
		133 144 - 431 157 - 157 157 - 157	ini ,# ini		
Evaluated by: Alex Smerch			Date:	10-12-12	
Paul Klein Poul & Llin			-88 -37 -1. 4	10-12-12	

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 4 of 5

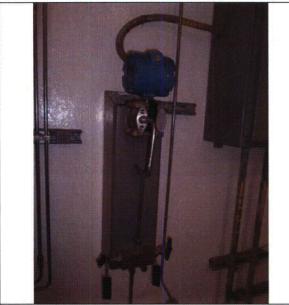
Status: Y⊠ N□ U□

Seismic Walkdown Checklist (SWC) SWEL1- 075

Equipment ID No. <u>PT-0741B</u> Equip. Class<sup>1</sup> <u>18 - INSTRUMENT RACKS</u>

Equipment Description <u>AUX FW PUMPS P-8A & P-8B LOW SUCTION</u>

## **Photographs**



Note: PT-0741B



Note: PT-0741B Upper Sq. Tube Conc. **Anchors** 

SEISMIC WALKDOWN CHECKLIST FORM

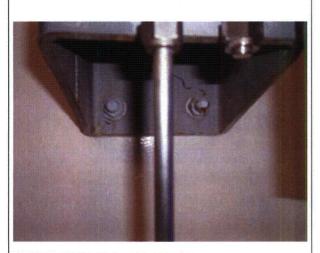
Sheet 5 of 5

Status: Y⊠ N□ U□

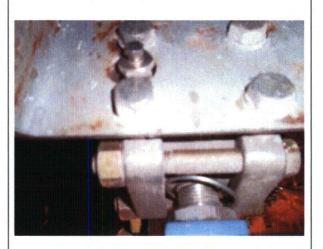
Seismic Walkdown Checklist (SWC) SWEL1- 075

Equipment ID No. <u>PT-0741B</u> Equip. Class 1 18 - INSTRUMENT RACKS

Equipment Description AUX FW PUMPS P-8A & P-8B LOW SUCTION



Note: PT-0741B Lower Sq. Tube Conc. **Anchors** 



Note: PT-0741B Instrument Bolts (Quantity - 4)

ATTACHMENT 9.6 SEIS	MIC WALKDOWN CHECKLIST FOR
Sheet 1 of 5	
	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) SWEL1- 076	
Equipment ID No. <u>PT-0741DD</u> Equip. Class 1 18 - INSTRUMENT	RACKS
Equipment Description AUX FW PUMPS P-8A & P-8B LOW SUCTION	
Location: Bldg. <u>TURB</u> Floor El. <u>570</u> Room, Area <u>007</u>	
Manufacturer, Model, Etc. (optional but recommended) ROSEMOUNT	
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.	the results of judgments and
Anchorage	
1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?	Y⊠ N□
<ol> <li>Is the anchorage free of bent, broken, missing or loose hardware?         PT-0741DD is bolted to the 6x6 sq. steel tube with 4 bolts and the steel sq. tube is bolted to the concrete wall with 4 - 1/2 in. concrete anchors.     </li> </ol>	Y⊠ N□ U□ N/A□
<ol> <li>Is the anchorage free of corrosion that is more than mild surface oxidation?</li> <li>Minimal mild surface oxidation was observed on the concrete anchors and on the inside of the sq. tube.</li> </ol>	Y⊠ N□ U□ N/A□
Is the anchorage free of visible cracks in the concrete near the anchors?  The sq. steel tube supporting PT-0741DD is bolted to the north concrete wall of the room.	Y⊠ N□ U□ N/A□

<sup>&</sup>lt;sup>1</sup> Enter the equipment class name from EPRI 1025286, Appendix B: Classes of Equipment.

ATTACHMENT 9.6 Se	ISMIC WALKDOWN CHECKLIST FORM
Sheet 2 of 5	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC)SWEL1076	
Equipment ID No. <u>PT-0741DD</u> Equip. Class <sup>1</sup> 18 - INSTRUMEN	TRACKS
Equipment Description AUX FW PUMPS P-8A & P-8B LOW SUCTION	
5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for whice an anchorage configuration verification is required.) Anchorage of the 6x6 steel sq. tube to the concrete wall and connected of PT-0741DD to the steel sq. tube was compared with Palisades Dwg JG88 Shts. 3 and 4.	on
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? The chain on the manual valve above is tied back and is not a problem.	g, Y⊠ N□ U□ N/A□
9. Do attached lines have adequate flexibility to avoid damage?	Y⊠ N□ U□ N/A□
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	Y⊠ N□ U□

ATTACHMENT 9.6 SEISMIC WALKDOWN CHEC	
Sheet 3 of 5	
0 1 1 W II 1 0 0 1 W 40W0\ 0W514 050	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) SWEL1- 076	
Equipment ID No. <u>PT-0741DD</u> Equip. Class <sup>1</sup> <u>18 - INSTRUM</u>	MENT RACKS
Equipment Description AUX FW PUMPS P-8A & P-8B LOW SUCTION	
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□
<u>Comments</u> (Additional pages may be added as necessary)	
Evaluated by: Alex Smerch Mrc Land	Date: 10-12-12
Evaluated by: Alex Smerch Mer Long	
Paul Klein	<u>10-12-12</u>

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 4 of 5

Status: Y⊠ N□ U□

Seismic Walkdown Checklist (SWC) SWEL1- 076

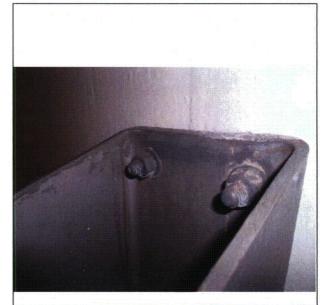
Equipment ID No. <u>PT-0741DD</u> Equip. Class 1 18 - INSTRUMENT RACKS

Equipment Description AUX FW PUMPS P-8A & P-8B LOW SUCTION

## **Photographs**



Note: PT-0741DD



Note: PT-0741DD Upper Conc. Anchors

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 5 of 5

Status: Y⊠ N□ U□

Seismic Walkdown Checklist (SWC) SWEL1- 076

Equipment ID No. <u>PT-0741DD</u> Equip. Class 1 18 - INSTRUMENT RACKS

Equipment Description AUX FW PUMPS P-8A & P-8B LOW SUCTION



Note: PT-0741DD Lower Conc. Anchors



Note: PT-0741DD Instrument Bolts (Quantity - 4)

ATTACHMENT 9.6 Seisi	MIC WALKDOWN CHECKLIST FORM		
Sheet 1 of 4	Status: Y⊠ N□ U□		
Seismic Walkdown Checklist (SWC) SWEL1- 077			
Equipment ID No. <u>PT-0762A</u> Equip. Class <sup>1</sup> <u>18 - INSTRUMENT RACKS</u>			
Equipment Description AUX FW PUMP P-8C LOW SUCTION PRESSURE TRIP			
Location: Bldg. AUX Floor El. 570 Room, Area 005			
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⊠ .		
<ol> <li>Is the anchorage free of bent, broken, missing or loose hardware?         The equipment is anchored to a steel shelf angle which is welded to a ~2 foot tall vertical piece of tube steel which is welded to a baseplate.     </li> </ol>	Y⊠ N□ U□ N/A□		
<ol> <li>Is the anchorage free of corrosion that is more than mild surface oxidation?</li> <li>There is no visible corrosion that is more than mild surface oxidation on anchors.</li> </ol>	Y⊠ N□ U□ N/A□		
4. Is the anchorage free of visible cracks in the concrete near the anchors?  The baseplate is anchored to the concrete floor slab.	Y⊠ N□ U□ N/A□		

<sup>&</sup>lt;sup>1</sup> Enter the equipment class name from EPRI 1025286, Appendix B: Classes of Equipment.

ATTACHMENT 9.6	Seism	IC WALKDOWN CHECKLIST FORM
Sheet 2 of 4	MEI 4 077	Status: Y⊠ N⊟ U⊟
Seismic Walkdown Checklist (SWC) SI  Equipment ID No. PT-0762A Equipment ID No. PT-0762A		4CKS
Equipment Description AUX FW PUMP P-8C L		
Is the anchorage configuration consisten     (Note: This question only applies if the ite     an anchorage configuration verification is	t with plant documentation? em is one of the 50% for which	Y⊡ N□ U□ N/A⊠
Based on the above anchorage evaluation potentially adverse seismic conditions?	ons, is the anchorage free of	Y⊠ N□ U□
Interaction Effects  7. Are soft targets free from impact by near	by equipment or structures?	Y⊠ N□ U□ N/A□
Are overhead equipment, distribution sys and masonry block walls not likely to coll		Y⊠ N□ U□ N/A□
9. Do attached lines have adequate flexibili	ty to avoid damage?	Y⊠ N□ U□ N/A□
Based on the above seismic interaction of potentially adverse seismic interaction		Y⊠ N□ U□

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 3 of 4	
Seismic Walkdown Checklist (SWC) SWEL1- 077	Status: Y⊠ N□ U□
Equipment ID No. <u>PT-0762A</u> Equip. Class <sup>1</sup> <u>18 - INSTR</u>	RUMENT RACKS
Equipment Description AUX FW PUMP P-8C LOW SUCTION PRES	SURE TRIP
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□
<u>Comments</u> (Additional pages may be added as necessary)	
Evaluated by: Alex Smerch	Date: <u>10/09/2012</u>
Paul Klein	10/09/2012

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 4 of 4  Seismic Walkdown Checklist (SWC)SWEL1-	Status: Y⊠ N  ∪  □
Equipment ID No. PT-0762A Equip. Clas	iss <sup>1</sup> _18 - INSTRUMENT RACKS
Equipment Description AUX FW PUMP P-8C LOW St	
Photographs	
Note: <i>PT-0762A</i>	Note:

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 1 of 4	
Seismic Walkdown Checklist (SWC)SWEL1- 078	Status: Y⊠ N□ U□
Equipment ID No. <u>PT-0762B</u> Equip. Class <sup>1</sup> <u>18 - INSTRUM</u>	ENT RACKS
Equipment Description AUX FW PUMP P-8C LOW SUCTION PRESSUR	RE TRIP
Location: Bldg. AUX Floor El. 570 Room, Area 005	
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	
1. Is the anchorage configuration verification required (i.e., is the item of the 50% of SWEL items requiring such verification)?	one Y□ N⊠
<ol> <li>Is the anchorage free of bent, broken, missing or loose hardware?         The equipment is anchored to a steel shelf angle which is welded to vertical tube steel which is welded to a baseplate.     </li> </ol>	Y⊠ N□ U□ N/A□
<ol> <li>Is the anchorage free of corrosion that is more than mild surface oxidation?</li> <li>There is no visible corrosion that is more than mild surface oxidation anchors.</li> </ol>	Y⊠ N□ U□ N/A□
4. Is the anchorage free of visible cracks in the concrete near the anchors?  The baseplate is anchored to the concrete floor slab.	Y⊠ N□ U□ N/A□

<sup>&</sup>lt;sup>1</sup> Enter the equipment class name from EPRI 1025286, Appendix B: Classes of Equipment.

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 2 of 4  Seismic Walkdown Checklist (SWC)SWEL1- 078	Status: Y⊠ N⊡ U⊡
Equipment ID No. <u>PT-0762B</u> Equip. Class <sup>1</sup> <u>18 - INSTRUME</u>	ENT RACKS
Equipment Description AUX FW PUMP P-8C LOW SUCTION PRESSURE	E TRIP
<ol> <li>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.)</li> </ol>	
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□
Are overhead equipment, distribution systems, ceiling tiles and light and masonry block walls not likely to collapse onto the equipment?	ing, Y⊠ N□ U□ N/A□
9. Do attached lines have adequate flexibility to avoid damage?	Y⊠ N□ U□ N/A□
10. Based on the above seismic interaction evaluations, is equipment fr of potentially adverse seismic interaction effects?	ree Y⊠ N⊡ U⊡

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 3 of 4	
Seismic Walkdown Checklist (SWC) SWEL1- 078	Status: Y⊠ N□ U□
Equipment ID No. <u>PT-0762B</u> Equip. Class <sup>1</sup> <u>18 - INSTRUM</u>	MENT RACKS
Equipment Description AUX FW PUMP P-8C LOW SUCTION PRESSU	RE TRIP
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□
	a.
<u>Comments</u> (Additional pages may be added as necessary)	
Evaluated by: Alex Smerch	Date: <u>10/09/12</u>
Evaluated by: Alex Smerch Mire Poul & Lein	10/09/12

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 4 of 4  Seismic Walkdown Checklist (SWC) SWEL1	Status: Y⊠ N□ U□
Equipment ID No. <u>PT-0762B</u> Equip. Cla	ss <sup>1</sup> <u>18 - INSTRUMENT RACKS</u>
Equipment Description AUX FW PUMP P-8C LOW S	UCTION PRESSURE TRIP
Photographs	19 14 15 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Note: PT-0762B	Note:

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FOR
Sheet 1 of 4	
Seismic Walkdown Checklist (SWC) SWEL1- 079	Status: Y⊠ N⊡ U⊠
Equipment ID No. <u>PT-0762C</u> Equip. Class <sup>1</sup> <u>18 -</u>	— INSTRUMENT RACKS
Equipment Description AUX FW PUMP P-8C LOW SUCTION	<del>-</del> '
Location: Bldg. <u>AUX</u> Floor El. <u>570</u> Room, Ar	
Manufacturer, Model, Etc. (optional but recommended)	
Instructions for Completing Checklist	
This checklist may be used to document the results of the Seisi SWEL. The space below each of the following questions may be findings. Additional space is provided at the end of this checklist	e used to record the results of judgments and
Anchorage	
<ol> <li>Is the anchorage configuration verification required (i.e., of the 50% of SWEL items requiring such verification)?</li> </ol>	is the item one Y□ N⊠
2. Is the anchorage free of bent, broken, missing or loose the three distributions. The equipment is anchored to a steel shelf angle which ~2 foot tall vertical piece of tube steel which is welded to	is welded to a
A nut on the anchorage of the equipment to the shelf and be missing. Further evaluation is required and licensing evaluation, LB-17, has been initiated. CR-PLP-2012-06 created.	basis
Is the anchorage free of corrosion that is more than mild oxidation?  There is no visible corrosion that is more than mild surfamenthors.	
Is the anchorage free of visible cracks in the concrete no anchors?  The baseplate is anchored to the concrete floor slab.	ear the Y⊠ N□ U□ N/A□

<sup>&</sup>lt;sup>1</sup> Enter the equipment class name from EPRI 1025286, Appendix B: Classes of Equipment.

ATTACHMENT 9.6 SEIS	MIC WALKDOWN CHECKLIST FORM
Sheet 2 of 4	
Seismic Walkdown Checklist (SWC) <u>SWEL1- 079</u>	Status: Y⊠ N∏ U⊠
Equipment ID No. <u>PT-0762C</u> Equip. Class <sup>1</sup> <u>18 - INSTRUMENT</u>	RACKS
Equipment Description AUX FW PUMP P-8C LOW SUCTION PRESSURE TR	RIP
<ol> <li>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.)</li> </ol>	Y NU UNAX
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?  A nut on the anchorage of the equipment to the shelf angle appears to be missing. Further evaluation is required and licensing basis evaluation, LB-17, has been initiated. CR-PLP-2012-06644 has been created.	Y□ N⊠ U□
Interaction Effects	
7. Are soft targets free from impact by nearby equipment or structures?	Y⊠ N□ U□ N/A□
Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	Y⊠ N□ U□ N/A□
9. Do attached lines have adequate flexibility to avoid damage?	Y⊠ N□ U□ N/A□
Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	Y⊠ N□ U□

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 3 of 4	
Seismic Walkdown Checklist (SWC)SWEL1079	Status: Y⊠ N□ U⊠
Equipment ID No. <u>PT-0762C</u> Equip. Class <sup>1</sup> <u>18 - INSTRU</u>	IMENT RACKS
Equipment Description AUX FW PUMP P-8C LOW SUCTION PRESS	URE TRIP
Other Adverse Conditions	
11. Have you looked for and found no other seismic conditions that adversely affect the safety functions of the equipment?	could Y⊠ N□ U□
Comments (Additional pages may be added as necessary)	m n n
Evaluated by: Alex Smerch	Date: <u>10/09/12</u>
Evaluated by: Alex Smerch  Paul Klein  Paul Klein	10/09/12

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 4 of 4

Status: Y⊠ N□ U⊠

Seismic Walkdown Checklist (SWC) SWEL1- 079

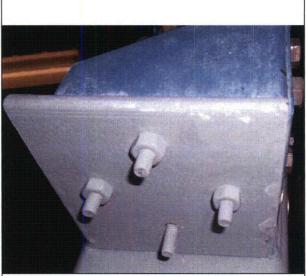
Equipment ID No. <u>PT-0762C</u> Equip. Class 1 18 - INSTRUMENT RACKS

Equipment Description AUX FW PUMP P-8C LOW SUCTION PRESSURE TRIP

# **Photographs**



Note: PT-0762C



Note: Missing Nut from Anchorage to Steel Shelf Angle

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FOR
Sheet 1 of 4	
Seismic Walkdown Checklist (SWC) SWEL1- 080	Status: Y⊠ N□ U□
Equipment ID No. <u>TS-1820</u> Equip. Class <sup>1</sup> 18, INSTRU	IMENT RACKS
Equipment Description EDG RM VENT FAN V-24D AUTOMATIC TEM	MP SW
Location: Bldg. <u>AUX</u> Floor El. <u>590</u> Room, Area <u>116</u>	6B
Manufacturer, Model, Etc. (optional but recommended)	
Instructions for Completing Checklist	
This checklist may be used to document the results of the Seismic Wal SWEL. The space below each of the following questions may be used findings. Additional space is provided at the end of this checklist for document.	to record the results of judgments and
Anchorage	
<ol> <li>Is the anchorage configuration verification required (i.e., is the if of the 50% of SWEL items requiring such verification)?</li> </ol>	tem one Y□ N⊠
Is the anchorage free of bent, broken, missing or loose hardware     The equipment is attached to conduit which is attached to unistruction unistruction is anchored with expansion anchors to the wall.	
Is the anchorage free of corrosion that is more than mild surface oxidation?      Anchors are coated in dirt and dust. No visible corrosion observed.	<del>-</del> - <del>-</del>
Is the anchorage free of visible cracks in the concrete near the anchors?  Wall is painted, no visible cracks identified.	Y⊠ N□ U□ N/A□

<sup>&</sup>lt;sup>1</sup> Enter the equipment class name from EPRI 1025286, Appendix B: Classes of Equipment.

ATTACHMENT 9.6 SEIS	MIC.WALKDOWN CHECKLIST FORM
Sheet 2 of 4	
Seismic Walkdown Checklist (SWC) SWEL1- 080	Status: Y⊠ N⊡ U⊡
Equipment ID No. <u>TS-1820</u> Equip. Class <sup>1</sup> <u>18, INSTRUMENT F</u>	RACKS
Equipment Description EDG RM VENT FAN V-24D AUTOMATIC TEMP SW	
<ol> <li>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.)</li> </ol>	Y□ N□ U□ N/A□
Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	Y⊠ N□ U□
Interaction Effects	
7. Are soft targets free from impact by nearby equipment or structures?	Y⊠ N□ U□ N/A□
Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	Y⊠ N□ U□ N/A□
<ol> <li>Do attached lines have adequate flexibility to avoid damage?         Temperature switch is attached to a conduit which is attached to the wall.     </li> </ol>	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- 080</u>	
Equipment ID No. <u>TS-1820</u> Equip. Class <sup>1</sup> <u>18, INSTRUME</u>	NT RACKS
Equipment Description <u>EDG RM VENT FAN V-24D AUTOMATIC TEMP S</u>	SW
Other Adverse Conditions	
11. Have you looked for and found no other seismic conditions that coul adversely affect the safety functions of the equipment?	ld Y⊠ N□ U□
	· · · · · · · · · · · · · · · · · · ·
<u>Comments</u> (Additional pages may be added as necessary)	
Evaluated by: Kevin Bessell L. Bull	Date: <u>10/15/2012</u>
John Kao	10/15/2012
501.11.1.00	10,70,2012

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 4 of 4	
Seismic Walkdown Checklist (SWC) SWEL1- 080	Status: Y⊠ N□ U□
Equipment ID No. <u>TS-1820</u> Equip. Class <sup>1</sup> <u>18, INS</u>	STRUMENT RACKS
Equipment Description EDG RM VENT FAN V-24D AUTOMATIC	TEMP SW
Photographs	
TS 1820 TS 1823	
Note: Equipment. Note:	
	2 1 2 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ATTACHMENT 9.6 Seism	IIC WALKDOWN CHECKLIST FORM
Sheet 1 of 4	
Seismic Walkdown Checklist (SWC) SWEL1- 081	Status: Y⊠ N⊡ U⊡
Equipment ID No. <u>TS-1822</u> Equip. Class <sup>1</sup> <u>18, INSTRUMENT RA</u>	ACKS
Equipment Description <u>EDG RM VENT FAN V-24C AUTOMATIC TEMP SW</u>	
Location: Bldg. <u>AUX</u> Floor El. <u>590</u> Room, Area <u>116B</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 SWEL. The space below each of the following questions may be used to record findings. Additional space is provided at the end of this checklist for documenting	the results of judgments and
Anchorage	
1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?	Y□ N⊠
Is the anchorage free of bent, broken, missing or loose hardware?      Equipment is attached to conduit and is mounted to unistrut. Unistrut is anchored to concrete wall with 2 expansion anchors.	Y⊠ N□ U□ N/A□
Is the anchorage free of corrosion that is more than mild surface oxidation?      No oxidation noted. Expansion anchors are stainless steel.	Y⊠ N□ U□ N/A□
4. Is the anchorage free of visible cracks in the concrete near the anchors?  Concrete wall is painted and there are no cracks observed.	Y⊠ N□ U□ N/A□

<sup>&</sup>lt;sup>1</sup> Enter the equipment class name from EPRI 1025286, Appendix B: Classes of Equipment.

ATTACHMENT 9.6 SEIS	MIC.WALKDOWN CHECKLIST FORM
Sheet 2 of 4	
Seismic Walkdown Checklist (SWC) SWEL1- 081	Status: Y⊠ N⊟ U⊟
Equipment ID No. <u>TS-1822</u> Equip. Class <sup>1</sup> <u>18, INSTRUMENT F</u>	RACKS
Equipment Description EDG RM VENT FAN V-24C AUTOMATIC TEMP SW	
<ol> <li>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.)</li> </ol>	Y□ N□ U□ N/A□
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	Y⊠ N□ U□
Interaction Effects	
7. Are soft targets free from impact by nearby equipment or structures?	Y⊠ N□ U□ N/A□
Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	Y⊠ N□ U□ N/A□
9. Do attached lines have adequate flexibility to avoid damage?  Temperature switch is attached to a conduit which is attached to the wall.	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	
Seismic Walkdown Checklist (SWC) SWEL1- 081	Status: Y⊠ N□ U□
Equipment ID No. <u>TS-1822</u> Equip. Class <sup>1</sup> <u>18, INSTRUME</u>	ENT RACKS
Equipment Description <u>EDG RM VENT FAN V-24C AUTOMATIC TEMP</u>	SW
Other Adverse Conditions	
11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment?	uld Y⊠ N□ U□
Comments (Additional pages may be added as necessary)	· · · · · · · · · · · · · · · · · · ·
Evaluated by: Kevin Bessell King Bold Kao  John Kao	Date: <u>10/15/2012</u>
John Kao	40/45/2040
John Kao 🐧	10/15/2012

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 4 of 4

Status: Y⊠ N□ U□

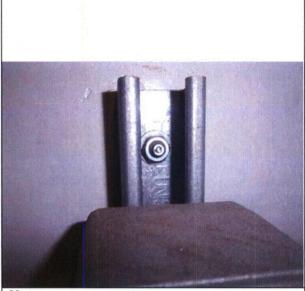
Seismic Walkdown Checklist (SWC) SWEL1- 081

Equipment ID No. <u>TS-1822</u> Equip. Class<sup>1</sup> <u>18, INSTRUMENT RACKS</u>

Equipment Description EDG RM VENT FAN V-24C AUTOMATIC TEMP SW



Note: Equipment.



Note: Unistrut anchorage to concrete wall (1 of 2 anchors shown).

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 1 of 4	
Seismic Walkdown Checklist (SWC) SWEL1- 082	Status: Y⊠ N□ U□
Equipment ID No. <u>TS-1828</u> Equip. Class 1 18 - INSTI	RUMENT RACKS
Equipment Description EDG RM VENT FAN V-24A AUTOMATIC TE	EMP SW
Location: Bldg. AUX Floor El. 590 Room, Area 11	16
Manufacturer, Model, Etc. (optional but recommended)	
Instructions for Completing Checklist	
This checklist may be used to document the results of the Seismic W. SWEL. The space below each of the following questions may be used findings. Additional space is provided at the end of this checklist for details.	d to record the results of judgments and
Anchorage	
<ol> <li>Is the anchorage configuration verification required (i.e., is the of the 50% of SWEL items requiring such verification)?</li> </ol>	item one Y N N
	,
<ol><li>Is the anchorage free of bent, broken, missing or loose hardward Instrument anchored to wall using Unistrut.</li></ol>	are? Y⊠ N□ U□ N/A□
3. Is the anchorage free of corrosion that is more than mild surfa oxidation?	ce Y⊠ N□ U□ N/A□
There is no corrosion.	
4. Is the anchorage free of visible cracks in the concrete near the anchors?	e Y⊠ N□ U□ N/A□
The device is anchored to the concrete wall.	

<sup>&</sup>lt;sup>1</sup> Enter the equipment class name from EPRI 1025286, Appendix B: Classes of Equipment.

ATTACHMENT 9.6 SEISH	MIC WALKDOWN CHECKLIST FORM
Sheet 2 of 4 Seismic Walkdown Checklist (SWC) <u>SWEL1- 082</u>	Status: Y⊠ N⊟ U⊟
-Equipment ID No. <u>TS-1828</u> Equip. Class <sup>1</sup> <u>18 - INSTRUMENT F</u>	RACKS
Equipment Description EDG RM VENT FAN V-24A AUTOMATIC TEMP SW	
<ol> <li>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.)</li> </ol>	Y□ N□ U□ N/A⊠
Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	Y⊠ N□ U□
Interaction Effects	<u>,</u>
<ol> <li>Are soft targets free from impact by nearby equipment or structures? Nearby extension chord is a credible source but could not cause significant damage.</li> </ol>	Y⊠ N□ U□ N/A□
Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	Y⊠ N□ U□ N/A□
9. Do attached lines have adequate flexibility to avoid damage?	Y⊠ N□ U□ N/A□
Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	Y⊠ N□ U□

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 3 of 4	
Seismic Walkdown Checklist (SWC) SWEL1- 082	Status: Y⊠ N□ U□
Equipment ID No. <u>TS-1828</u> Equip. Class <sup>1</sup> <u>18 - IN</u>	STRUMENT RACKS
Equipment Description EDG RM VENT FAN V-24A AUTOMATIC	S TEMP SW
Other Adverse Conditions	
11. Have you looked for and found no other seismic conditions adversely affect the safety functions of the equipment?	s that could YN NUU
1 de 1/2	
<u>Comments</u> (Additional pages may be added as necessary)	
Evaluated by: Alex Smerch	Date: 10/03/2012
Evaluated by: Alex Smerch Paul Klein	10/03/2012

ATTACHMENT 9.6			SEISM	IC WALKE	OWN CH	ECKLIST FORM
Sheet 4 of 4			7.00	Statu	s: Y⊠	N_ U_
Seismic Walkdown Checklist (SW	VC) <u>SWEL1</u> -	082				
Equipment ID No. TS-1828	Equip. Cla	ss <sup>1</sup> 18 - INS	TRUMENT R	ACKS		
Equipment Description EDG RM VEN	T FAN V-24A A	UTOMATIC	TEMP SW			
Photographs	:# :::::::::::::::::::::::::::::::::::					
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Note: TS-1828		Note:			*	
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ATTACHMENT 9.6 SE	ISMIC WALKDOWN CHECKLIST FORM
Sheet 1 of 4	
	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) <u>SWEL1- 083</u>	
Equipment ID No. <u>TS-1844</u> Equip. Class <sup>1</sup> <u>18 - INSTRUMENT</u>	RACKS
Equipment Description EDG RM VENT FAN V-24B AUTOMATIC TEMP SW	
Location: Bldg. <u>AUX</u> Floor El. <u>590</u> Room, Area <u>116</u>	
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 recoifindings. Additional space is provided at the end of this checklist for document	rd the results of judgments and
<u>Anchorage</u>	
<ol> <li>Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?</li> </ol>	e Y□ N⊠
<ol><li>Is the anchorage free of bent, broken, missing or loose hardware? Instrument is anchored by piece of unistrut bolted to wall.</li></ol>	Y⊠ N□ U□ N/A□
•	
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	Y⊠ N□ U□ N/A□
There was no visible corrosion.	
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Y⊠ N□ U□ N/A□
The item is anchored to the concrete wall.	

<sup>&</sup>lt;sup>1</sup> Enter the equipment class name from EPRI 1025286, Appendix B: Classes of Equipment.

ATTACHMENT 9.6 SEISI	MIC WALKDOWN CHECKLIST FOR
Sheet 2 of 4	
Seismic Walkdown Checklist (SWC)SWEL1083	Status: Y⊠ N□ U□
Equipment ID No. <u>TS-1844</u> Equip. Class <sup>1</sup> <u>18 - INSTRUMENT R</u>	RACKS
Equipment Description EDG RM VENT FAN V-24B AUTOMATIC TEMP SW	
<ol> <li>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.)</li> </ol>	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?  Overhead emergency lighting fixture is secured to wall without an exposed bulb.	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 FORM
Sheet 3 of 4	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) SWEL1- 083	otatus. 12 14 0
Equipment ID No. <u>TS-1844</u> Equip. Class <sup>1</sup> <u>18 - INSTRU</u>	IMENT RACKS
Equipment Description <u>EDG RM VENT FAN V-24B AUTOMATIC TEM</u>	IP SW
Other Adverse Conditions	
11. Have you looked for and found no other seismic conditions that adversely affect the safety functions of the equipment?	could Y⊠ N□ U□
<u>Comments</u> (Additional pages may be added as necessary)	
Evaluated by: Alex Smerch Wer Long	Date: 10/30/2012
Par 22:	
Paul Klein	10/30/2012

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FOR
Sheet 4 of 4	Status: Y⊠ N⊡ U⊡
Seismic Walkdown Checklist (SWC) SWEL1	- 083
Equipment ID No. <u>TS-1844</u> Equip. Cla	ss <sup>1</sup> _18 - INSTR <mark>UMENT RACKS</mark>
Equipment Description EDG RM VENT FAN V-24B A	UTOMATIC TEMP SW
Photographs	
Note: TS-1844	Note:

ATTACHMENT 9.6 SEI	SMIC WALKDOWN CHECKLIST FORM
Sheet 1 of 5	
	Status: Y⊠ N⊡ U⊡
Seismic Walkdown Checklist (SWC) <u>SWEL1- 086</u>	
Equipment ID No. <u>EC-187</u> Equip. Class <sup>1</sup> <u>20, INSTRUMENTA</u>	ATION AND CONTROL PANELS
Equipment Description AUX FEEDWATER CONTROL	
Location: Bldg. AUX Floor El. 607 Room, Area 223	
Manufacturer, Model, Etc. (optional but recommended)	
Instructions for Completing Checklist	
This checklist may be used to document the results of the Seismic Walkdown of SWEL. The space below each of the following questions may be used to recorfindings. Additional space is provided at the end of this checklist for documential space.	d the results of judgments and
<u>Anchorage</u>	
<ol> <li>Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?</li> </ol>	Y⊠ N□
2. Is the anchorage free of bent, broken, missing or loose hardware?  The equipment consists of cabinets mounted to an inverted channel skid that sits atop a concrete pedestal on the concrete floor. The anchors in the channel which anchor into the concrete are not visible. There are 12 hexagon socket head cap screws that anchor the cabinet to the channel.	Y⊠ N□ U□ N/A□
Is the anchorage free of corrosion that is more than mild surface oxidation?      There is no corrosion visible	Y⊠ N□ U□ N/A□
4. Is the anchorage free of visible cracks in the concrete near the anchors? There are shrinkage cracks identified along the pedestal at approximate 6" intervals. These cracks are judged to be superficial, therefore concrete is okay.	Y⊠ N□ U□ N/A□

<sup>&</sup>lt;sup>1</sup> Enter the equipment class name from EPRI 1025286, Appendix B: Classes of Equipment.

ATTACHMENT 9.6 SE	ISMIC WALKDOWN CHECKLIST FORM
Sheet 2 of 5	
Seismic Walkdown Checklist (SWC) <u>SWEL1- 086</u>	Status: Y⊠ N□ U□
Equipment ID No. <u>EC-187</u> Equip. Class <sup>1</sup> <u>20, INSTRUMENT</u>	ATION AND CONTROL PANELS
Equipment Description AUX FEEDWATER CONTROL	
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 drawing J-447, Sh. 2, Rev. 75 for the anchors connecting the cabinet base to the channel skid. The configuration of the anchors of the inverted channel skid to the pedestal, which were not visible, is judged to be okay per SEWS, Shts. 3 through 12 of 12. See comments below for additional information.	Y⊠ N□ U□ N/A□
Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	Y⊠ N□ U□
Interaction Effects	
7. Are soft targets free from impact by nearby equipment or structures?	Y⊠ N□ U□ N/A□
8. Are overhead equipment, distribution systems, ceiling tiles and lighting and masonry block walls not likely to collapse onto the equipment?	i, 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 FORM
Sheet 3 of 5	
	Status: Y⊠ N⊡ U⊡
Seismic Walkdown Checklist (SWC) <u>SWEL1- 086</u>	
Equipment ID No. <u>EC-187</u> Equip. Class <sup>1</sup> <u>20, INSTRU</u>	UMENTATION AND CONTROL PANELS
Equipment Description AUX FEEDWATER CONTROL	
Other Adverse Conditions	
11. Have you looked for and found no other seismic conditions that adversely affect the safety functions of the equipment?  The cable cover plates in the back interior of the cabinet are minuts. The plates are protecting cable and are not considered a intercabinet bolting. The only load on these plates is the dead which is being resisted by the screws and are not dependent on nut. Any out-of-plane loading due to seismic, which would cause panel to come off the screws is judged to be minimal based on mass of the component and is kept restrained by the remaining CR-PLP-2012-06877 has been initiated.	issing as load, n the se the
Comments (Additional pages may be added as necessary)	
Although the anchorage to the floor through the inverted chann configuration is confirmed per SEWS package. The anchors a is not possible. Corrosion is not possible due to the item being hostile environment.	re inaccessible, therefore modification
Evaluated by: Kevin Bessell L. Bull  John Kao  John Kao	Date: <u>10/15/2012</u>
John Kao	<u>10/15/2012</u>

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 4 of 5

Status: Y⊠ N□ U□

Seismic Walkdown Checklist (SWC) SWEL1- 086

Equipment ID No. <u>EC-187</u> Equip. Class<sup>1</sup> <u>20, INSTRUMENTATION AND CONTROL PANELS</u>

Equipment Description AUX FEEDWATER CONTROL



Note: Equipment



Note: Anchorage of equipment base to inverted channel skid.

ATTACHMENT 9.6	•	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 5 of 5		
Seismic Walkdown Checklist (SWC)	SWEL1-	Status: Y⊠ N☐ U☐ 086
Equipment ID No. EC-187	Equip. Class <sup>1</sup>	20, INSTRUMENTATION AND CONTROL PANELS
Equipment Description AUX FEEDWATE	R CONTROL	
Note: Missing nuts for cable cover plate interior of cabinet.	in back	Note:

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 1 of 5	
Seismic Walkdown Checklist (SWC) SWEL1- 0	Status: Y N U
Equipment ID No. EJ-1005 Equip. Class <sup>1</sup> PANELS	20 - INSTRUMENTATION AND CONTROL
Equipment Description AUX FEEDWATER RELAY CON	TROL
Location: Bldg. <u>AUX</u> Floor El. <u>607</u> Roor	m, Area <u>223</u>
Manufacturer, Model, Etc. (optional but recommended)	
Instructions for Completing Checklist	
This checklist may be used to document the results of the SWEL. The space below each of the following questions of findings. Additional space is provided at the end of this checklist is the space of t	nay be used to record the results of judgments and
Anchorage	
<ol> <li>Is the anchorage configuration verification required of the 50% of SWEL items requiring such verification</li> </ol>	
Is the anchorage free of bent, broken, missing or long the state of the cabine 6 bolts.	
3. Is the anchorage free of corrosion that is more than oxidation?	n mild surface Y⊠ N□ U□ N/A□
4. Is the anchorage free of visible cracks in the concreanchors?  There is a 5" pedestal supporting the cabinet from slab.  There are some surface micro cracks that are judg structural concern.	the concrete floor

<sup>&</sup>lt;sup>1</sup> Enter the equipment class name from EPRI 1025286, Appendix B: Classes of Equipment.

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 2 of 5	
Seismic Walkdown Checklist (SWC)SWEL1087	Status: Y⊠ N⊡ U⊡
Equipment ID No. <u>EJ-1005</u> Equip. Class <sup>1</sup> <u>20 - INSTRUME</u> <u>PANELS</u>	ENTATION AND CONTROL
Equipment Description AUX FEEDWATER RELAY CONTROL	
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 anchorage for this drawing was verified with Dwg.# C-534(Q)	
Based on the above anchorage evaluations, is the anchorage free potentially adverse seismic conditions?	of Y⊠ N□ U□
Internation Effects	
<ul><li>Interaction Effects</li><li>7. Are soft targets free from impact by nearby equipment or structures</li></ul>	s? 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?	
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 f of potentially adverse seismic interaction effects?	ree Y⊠ N□ U□

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 3 of 5	
	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) SWEL1- 087	
Equipment ID No. EJ-1005 Equip. Class 20 - INSTE	RUMENTATION AND CONTROL
Equipment Description AUX FEEDWATER RELAY CONTROL	
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: Alex Smerch	Date: 10/15/2012
Evaluated by: Alex Smerch Mer Soul & Lein  Paul Klein	10/15/2012

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 4 of 5

Status: Y⊠ N□ U□

Seismic Walkdown Checklist (SWC) SWEL1- 087

Equipment ID No. EJ-1005

Equip. Class<sup>1</sup> 20 - INSTRUMENTATION AND CONTROL

PANELS

Equipment Description AUX FEEDWATER RELAY CONTROL



Note: Up Close of Anchorage



Note: Micro Cracks in Concrete

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 5 of 5

Status: Y⊠ N□ U□

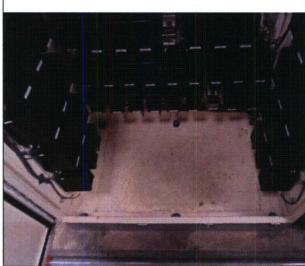
Seismic Walkdown Checklist (SWC) SWEL1- 087

Equipment ID No. EJ-1005

\_\_ Equip. Class<sup>1</sup>\_20 - INSTRUMENTATION AND CONTROL PANELS

Equipment Description AUX FEEDWATER RELAY CONTROL





Note: Anchorage

ATTACHMENT 9.6	SEIS	MIC WALKDOWN CHECKLIST FORM
Sheet 1 of 5		
Seismic Walkdown Checklist (SWC)	SWEL1- 088	Status: Y⊠ N□ U□
Equipment ID No. EJ-1006		TION AND CONTROL
Equipment Description AUX FEEDWATE	R RELAY CONTROL	
Location: Bldg. <u>AUX</u> Floor El. <u>60</u>	77 Room, Area <u>223</u>	
Manufacturer, Model, Etc. (optional but rec	commended)	
Instructions for Completing Checklist		
This checklist may be used to document th SWEL. The space below each of the follow findings. Additional space is provided at the	ring questions may be used to record	the results of judgments and
Anchorage		
<ol> <li>Is the anchorage configuration verif of the 50% of SWEL items requiring</li> </ol>		Y⊠ N□ .
Is the anchorage free of bent, broke     It is anchored through the metal base     6 bolts.	en, missing or loose hardware? se of the cabinet to the pedestal with	Y⊠ N□ U□ N/A□
Is the anchorage free of corrosion the oxidation?  There is no corrosion that is more to the oxidation is not corrosion.		Y⊠ N□ U□ N/A□
4. Is the anchorage free of visible crace anchors?  There is a 5" pedestal supporting the second content of t		Ÿ⊠ N□ U□ N/A□
slab. There are some surface micro craci structural concern.	ks that are judged not to be a	

<sup>&</sup>lt;sup>1</sup> Enter the equipment class name from EPRI 1025286, Appendix B: Classes of Equipment.

ATTACHMENT 9.6	Seis	MIC WALKDOWN CHECKLIST FORM
Sheet 2 of 5		<u> </u>
Seismic Walkdown Checklist (SWC)	SWEL1- 088	Status: Y⊠ N□ U□
Equipment ID No. <u>EJ-1006</u>	Equip. Class <sup>1</sup> <u>20 - INSTRUMENTA</u> PANELS	TION AND CONTROL
Equipment Description AUX FEEDWATER	RELAY CONTROL	
<ol> <li>Is the anchorage configuration consi (Note: This question only applies if the an anchorage configuration verification The anchorage for this drawing was</li> </ol>	ne item is one of the 50% for which on is required.)	Y⊠ N□ U□ N/A□
Based on the above anchorage eval potentially adverse seismic condition		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 and masonry block walls not likely to		Y⊠ N□ U□ N/A□
9. Do attached lines have adequate fle	xibility to avoid damage?	Y⊠ N□ U□ N/A□
Based on the above seismic interact of potentially adverse seismic interact.		Y⊠ N□ U□

ATTACHMENT 9.6			SEIS	MIC WALKDOWN CHECKLIS	r FORM
Sheet 3 of 5					
				Status: Y⊠ N□	UΠ
Seismic Walkdo	wn Checklist (	SWC) <u>SWEL1- 088</u>			
Equipment ID No.	EJ-1006	Equip. Class <sup>1</sup> 20 - INSTI PANELS	RUMENTA	TION AND CONTROL	
Equipment Descrip	otion AUX FEED	WATER RELAY CONTROL			
Other Adverse Co	onditions	生 生			
11. Have you lo	ooked for and fou	nd no other seismic conditions that unctions of the equipment?	at could	Y⊠ N□ U□	
Comments (Additi	onal pages may l	be added as necessary)			***************************************
Evaluated by: <u>Alex</u>	Smerch Mix	lon		Date: 10/15/2012	
	Poul	J. Llein		40.45.0042	
<u>Paul</u>	Klein 2			10/15/2012	

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 4 of 5

Status: Y⊠ N□ U□

Seismic Walkdown Checklist (SWC) SWEL1- 088

Equipment ID No. EJ-1006

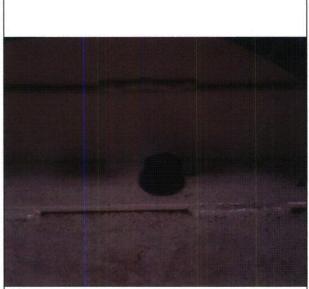
Equip. Class<sup>1</sup> 20 - INSTRUMENTATION AND CONTROL

**PANELS** 

Equipment Description AUX FEEDWATER RELAY CONTROL



Note: Anchorage for EJ-1006



Note: Close Up of Anchorage

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 5 of 5

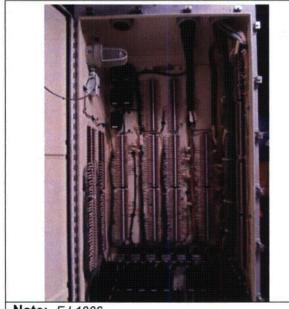
Status: Y⊠ N□ U□

Seismic Walkdown Checklist (SWC) SWEL1- 088

Equipment ID No. EJ-1006

Equip. Class<sup>1</sup> <u>20 - INSTRUMENTATION AND CONTROL</u> PANELS

Equipment Description AUX FEEDWATER RELAY CONTROL



Note: EJ-1006



Note: Anchorage for EJ-1006