ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 5 of 5	IP2
Seismic Walkdown Checklist (SWC) SWEL1-074	Status: Y☐ N☐ U⊠
Equipment ID No. <u>EGA1</u>	Equip. Class <sup>1</sup> <u>16</u>
Equipment Description 10 KVA STATIC INVERTER #21	



Note: South-west anchor



Note: East anchors

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 1 of 5	IP2
Seismic Walkdown Checklist (SWC) <u>SWEL1-075</u>	Status: Y☐ N☐ U⊠
Equipment ID No. <u>EGA8</u>	Equip. Class <sup>1</sup> 16
Equipment Description 10 KVA STATIC INVERTER #23	
Location: Bldg. <u>CB</u> Floor El. <u>33'-0"</u>	Room, Area
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. Is the anchorage configuration verification required (i.e., is the item of the 50% of SWEL items requiring such verification)?	one Y□ N⊠
The anchorage configuration verification is not required.	
2. Is the anchorage free of bent, broken, missing or loose hardware?	Y□ N□ U⊠ N/A□
Anchorage of internal components to cabinet could not be inspected operations is not allowed to open cabinet when cabinet is powered. Cabinet to be powered down and opened for internal inspection.	d as
Anchorage of cabinet to concrete floor is external to cabinet and wa inspected.	es .
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	Y⊠ N□ U□ N/A□
Yes the anchorage is free of corrosion that is more than mild surfaction.	e
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Y⊠ N□ U□ N/A□
Yes, the anchorage is free of visible cracks in the concrete near the anchor.	

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

ATTACHMENT 9.6	ISMIC WALKDOWN CHECKLIST FORM
Sheet 2 of 5	IP2
Seismic Walkdown Checklist (SWC) <u>SWEL1-075</u>	Status: Y☐ N☐ U⊠
Equipment ID No. <u>EGA8</u>	Equip. Class <sup>1</sup> _16
Equipment Description 10 KVA STATIC INVERTER #23	
<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⊠ n
Not applicable since component is not part of the anchorage configuration verification.	
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	Y⊠ N□ U□
Yes based on the above anchorage evaluations, the anchorage is free of potentially adverse seismic conditions.	
Interaction Effects	
7. Are soft targets free from impact by nearby equipment or structures?	Y⊠ N□ U□ N/A□
Yes soft targets are free from impact by nearby equipment or structures.	
8. Are overhead equipment, distribution systems, ceiling tiles and lighting and masonry block walls not likely to collapse onto the equipment?	j, Y⊠ N□ U□ N/A□
Block wall is seismiclly qualified by Computech report No. R547.01.	
Fluorescent bulbs need to be secured to fixture with wires. CR IP2-2012-06120 tracks installation of wires to tie florescent bulb to fixture. It is judged the hard target inverter will remain operable if the fluorescent bulbs were to fall on it.	
9. Do attached lines have adequate flexibility to avoid damage?	Y⊠ N□ U□ N/A□
Yes attached lines have adequate flexibility to avoid damage.	
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	Y⊠ N□ U□
Yes based on the above anchorage evaluations, the anchorage is free of potentially adverse seismic conditions.	1

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 3 of 5	IP2
Seismic Walkdown Checklist (SWC) <u>SWEL1-075</u>	Status: Y☐ N☐ U⊠
Equipment ID No. <u>EGA8</u>	Equip. Class <sup>1</sup> _16
Equipment Description 10 KVA STATIC INVERTER #23	
Other Adverse Conditions	
11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment?	d Y⊠N□U□
Yes we have looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment.	
Comments (Additional pages may be added as necessary)	
References: Drawings and AWC Drawings: A206640, Rev 10, Arrangement of equipment in cable spi AWC-004	reading room elev. 33'
Evaluated by: Nick Crispell Wigh Clippell	Date: <u>10/11/2012</u>
Stephen Yuan	10/11/2012

#### SEISMIC WALKDOWN CHECKLIST FORM

Sheet 4 of 5

IP2

Status: Y□ N□ U⊠

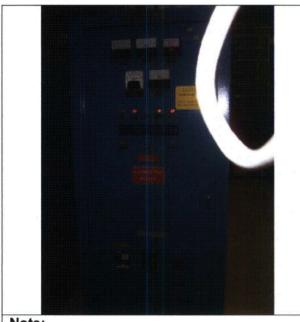
Seismic Walkdown Checklist (SWC) SWEL1-075

Equipment ID No. EGA8

Equip. Class<sup>1</sup> 16

Equipment Description 10 KVA STATIC INVERTER #23

#### **Photographs**



Note:

10 KVA Static inverter #23



Note:

Right side anchorage.

IP2
Status: Y□ N□ U⊠
Class <sup>1</sup> _16

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM	
Sheet 1 of 5	IP2	
Seismic Walkdown Checklist (SWC) <u>SWEL1-076</u>	Status: Y□ N□ U⊠	
Equipment ID No. 21EDG	Equip. Class <sup>1</sup> <u>17</u>	
Equipment Description <u>DIESEL GENERATOR NO. 21</u>		
Location: Bldg. <u>EDG</u> Floor El. <u>72'-0"</u>	Room, Area	
Manufacturer, Model, Etc. (optional but recommended)	, a.,	
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□	
Yes the anchorage configuration verification is required.		
2. Is the anchorage free of bent, broken, missing or loose hardware?	Y□ N□ U⊠ N/A□	
Anchorage of components internal to cabinets attached to diesel where not examined. Opening cabinets attached to EDG's needs to be schedueled for the next diesel generator outage. Internals are to be inspected when cabinets are opened.		
External anchorage was inspected and is acceptable.		
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	Y⊠ N□ U□ N/A□	
Minor surface rust. Accepable.		
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Y⊠ N□ U□ N/A□	
A few minor hair like cracks. No significant structural cracks.		

<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	IP2
Seismic Walkdown Checklist (SWC) SWEL1-076	Status: Y☐ N☐ U⊠
, ,	Farris Olass <sup>1</sup> 47
Equipment ID No. <u>21EDG</u>	Equip. Class <sup>1</sup> <u>17</u>
Equipment Description <u>DIESEL GENERATOR NO. 21</u>	
<ol> <li>Is the anchorage configuration consistent with plant documents (Note: This question only applies if the item is one of the 50% to an anchorage configuration verification is required.)</li> </ol>	
Anchorage matches the SQUG (SEWS).	
6. Based on the above anchorage evaluations, is the anchorage potentially adverse seismic conditions?	free of Y⊠ N□ U□
Yes based on the above anchorage evaluations, the anchorage free of potentially adverse seismic conditions.	re is
Interaction Effects	
7. Are soft targets free from impact by nearby equipment or struc	tures? Y⊠ N□ U□ N/A□
Numerious tubes touch each other. Judged OK.	
Are overhead equipment, distribution systems, ceiling tiles and and masonry block walls not likely to collapse onto the equipment.	
Refer to AWC-011 for partition discussion.	
9. Do attached lines have adequate flexibility to avoid damage?	Y⊠ N□ U□ N/A□
Yes attached lines have adequate flexibility to avoid damage.	
Based on the above seismic interaction evaluations, is equipm of potentially adverse seismic interaction effects?	nent free Y⊠ N□ U□
Yes based on the above seismic interaction evaluations, the edits free of potentially adverse seismic interaction effects.	quipment

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 3 of 5	IP2
Seismic Walkdown Checklist (SWC) <u>SWEL1-076</u>	Status: Y☐ N☐ U⊠
Equipment ID No. 21EDG	Equip. Class <sup>1</sup> <u>17</u>
Equipment Description DIESEL GENERATOR NO. 21	
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□
Yes we have looked for and found no other seismic conditions the could adversely affect the safety functions of the equipment.	pat
<u>Comments</u> (Additional pages may be added as necessary)	
West lower air filters bottom clip does not hold air filter in place. personnel fixed issue while inspection team was their. Operation trend tracking resolusion.	
References: Drawings and AWC Drawings: 9321-H-2250, Rev 7, Diesel generator building generator 9321-F-18533 (A201351), Control and diesel generator	
details. AWC-011	
Evaluated by: Nick Crispell	<i>U</i> Date: <u>10/15/2012</u>
Stephen Yuan	10/15/2012
Dan Nuta	
Dan Nuta	10/15/2012

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 4 of 5	IP2
Seismic Walkdown Checklist (SWC) SWEL1-076	Status: Y☐ N☐ U☒
Equipment ID No. 21EDG	Equip. Class <sup>1</sup> <u>17</u>
Equipment Description DIESEL GENERATOR NO. 21	

# **Photographs**



Note:

DIESEL GENERATOR NO 21.



LOWER AIR FILTER NOT FULLY LATCHED.

Note:

	ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Seismic Walkdown Checklist (SWC) SWEL1-076  Equipment ID No. 21EDG Equip. Class 1 17  Equipment Description DIESEL GENERATOR No. 21  Note: Note:	Sheet 5 of 5	IP2
Requipment Description DIESEL GENERATOR NO. 21  Note: Note:	Seismic Walkdown Checklist (SWC) <u>SWEL1-076</u>	Status: Y☐ N☐ U⊠
Note:	Equipment ID No. 21EDG	Equip. Class <sup>1</sup> _17
	Equipment Description <u>DIESEL GENERATOR NO. 21</u>	· · · · · · · · · · · · · · · · · · ·

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 1 of 8	
Seismic Walkdown Checklist (SWC)SWEL1-077	Status: Y☐ N☐ U⊠
Equipment ID No. <u>0022EDG</u>	Equip. Class <sup>1</sup> 17
Equipment Description DIESEL GENERATOR NO. 22	
Location: Bldg. <u>EDG</u> Floor El. <u>72'-0"</u>	Room, Area
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	
<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□
Yes the anchorage configuration verification is required.	
2. Is the anchorage free of bent, broken, missing or loose hardware?	Y□ N□ U⊠ N/A□
Anchorage of components internal to cabinets attached to diesel we not examined. Opening cabinets attached to EDG's needs to be scheduled for the next diesel generator outage. Internals are to be inspected when cabinets are opened.	
Southwest of the EDG near the western post of the EDG exhaust pathere is a base plate missing 1 of 4 anchor bolt nuts. This is judged seismically adequate as this base plate was abandoned from the control EDG exhaust pipe support and now a 4" pipe bears on but is not welded to the base plate.	d <sup>*</sup>
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	Y⊠ N□ U□ N/A□
Yes the anchorage is free of corrosion that is more than mild surface oxidation.	ce

<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 8	
Seismic Walkdown Checklist (SWC) <u>SWEL1-077</u>	Status: Y☐ N☐ U⊠
Equipment ID No. <u>0022EDG</u>	Equip. Class <sup>1</sup> <u>17</u>
Equipment Description DIESEL GENERATOR NO. 22	
Is the anchorage free of visible cracks in the concrete near the anchors?	Y□ N⊠ U□ N/A□
EDG Pedestal has some minor hair line cracks that are none struc They are not near the anchors. Acceptable.	ctural.
EDG exhaust pipe is supported on a post frame that also supports panel for 22 Pre Lube Pump, 22 Lube oil HTR, and 22 Jacket Wat HTR. This support has damaged & missing grout under the easter post base plate. LB-11 was issued to resolve.	ter er
<ol> <li>Is the anchorage configuration consistent with plant documentation (Note: This question only applies if the item is one of the 50% for variance an anchorage configuration verification is required.)</li> </ol>	
Anchorage matches the SQUG (SEWS).	
6. Based on the above anchorage evaluations, is the anchorage free potentially adverse seismic conditions?	of Y⊠ N□ U□
Yes based on the above anchorage evaluations, the anchorage is free of potentially adverse seismic conditions.	
Interaction Effects	
7. Are soft targets free from impact by nearby equipment or structure	es? Y⊠ N□ U□ N/A□
A lot of tubing, hoses, etc. touch each other. All occurences where judged acceptable. Some but not all of the occurences are noted to Fuel oil filter line DF-80 touches DF-78 on south west side of 22E-EDG DLO 13-1 EDG 22 STRNR Vent Stop Valve tubing touches to 22EDLOS.  -EDG JWP-1-1 22EDG PS-1-1 and PS-5-1 stop tubing touches pip FE-6469 on east side of 22EDG.  -Line on west side of 22EDG to DLO-539 touches line to DF-107.	below. EDG. pipe

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 3 of 8	
Seismic Walkdown Checklist (SWC) SWEL1-077	Status: Y□ N□ U⊠
Equipment ID No. <u>0022EDG</u>	Equip. Class <sup>1</sup> _17
Equipment Description DIESEL GENERATOR NO. 22	
<ol><li>Are overhead equipment, distribution systems, ceiling tiles and lig and masonry block walls not likely to collapse onto the equipmen</li></ol>	
Refer to AWC-011 for partition discussion.	
9. Do attached lines have adequate flexibility to avoid damage?	Y⊠ N□ U□ N/A□
Yes attached lines have adequate flexibility to avoid damage.	
Based on the above seismic interaction evaluations, is equipmen of potentially adverse seismic interaction effects?	it free Y⊠ N□ U□
Yes based on the above seismic interaction evaluations, the equi is free of potentially adverse seismic interaction effects.	ipment
Other Adverse Conditions	
11. Have you looked for and found no other seismic conditions that c adversely affect the safety functions of the equipment?	ould Y⊠ N□ U□
Yes we have looked for and found no other seismic conditions the could adversely affect the safety functions of the equipment.	at

EN-DC-168 REV 0

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 4 of 8	
Seismic Walkdown Checklist (SWC) <u>SWEL1-077</u>	Status: Y☐ N☐ U⊠
Equipment ID No. <u>0022EDG</u>	Equip. Class <sup>1</sup> _17
Equipment Description <u>DIESEL GENERATOR NO. 22</u>	
Comments (Additional pages may be added as necessary)	
The following are house keeping issues and judged acceptable for	seismic concerns.
Grating at valve DA-559 DG22 Starting Air Right Side supply is tou non- seismic issue.	ching valve hand wheel. This is a
One of the roof light bulbs is out. CR IP2-2012-06515 issued to trad	ck resolution.
Minor surface rust on some threaded rods, bolts, nuts, and other co	omponents. Judged acceptable.
Flange on 22EDG JW & LO Coolers cooling WTR outlet has one of acceptable.	ut of 23 bolts flush with nut. Judged
Latch on 22EDG Gauge board cover panel on north side is not latc track resolution.	ched. CR IP2-2012-06238 issued to
Noted WRT 00172112 was tagged to track resolution of a leak on s	south east side of diesel.
Evidence of oil leaks below south side of diesel typical for all diesel	ls in area. Judged acceptable.
References: Drawings and AWC Drawings: 9321-H-2250, Rev 7, Diesel generator building general a CR IP2-2012-06515 CR IP2-2012-06238 WRT 00172112 AWC-011	arrangement plan.
Evaluated by: Nick Crispell	n Date: <u>10-15-2012</u>
Stephen Yuan	10-15-2012
Dan Nuta	10-15-2012

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 5 of 8

Status: Y □ N □ U ⊠

Seismic Walkdown Checklist (SWC) SWEL1-077

Equipment ID No. <u>0022EDG</u>

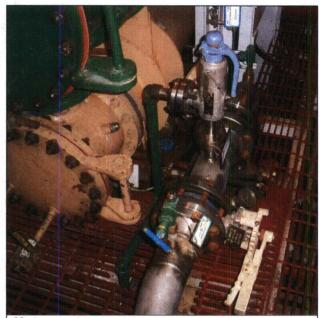
Equip. Class<sup>1</sup>\_17\_\_\_\_\_

Equipment Description DIESEL GENERATOR NO. 22

## **Photographs**



**Note:** Flange on 22EDG JW & LO Coolers cooling WTR outlet with flush nut and showing minor surface corrosion.



**Note:** Minor surface corrosion on flange couplings. Possible galvanic corrosion stainless steel pipe and carbon steel bolts.

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 6 of 8

Seismic Walkdown Checklist (SWC) <u>SWEL1-077</u>

Status: Y □ N □ U ⊠

Equipment ID No. 0022EDG

Equip. Class<sup>1</sup> 17

Equipment Description DIESEL GENERATOR NO. 22



Note: Shows fuse panel for 22 Pre Lube Pump, 22 Lube oil HTR, and 22 Jacket Water HTR that has damaged & missing grout under the eastern (close) posts base plate.



Note: Example of tubing touching a pipe.

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 7 of 8

Seismic Walkdown Checklist (SWC) \_\_SWEL1-077

Status: Y□ N□ U⊠

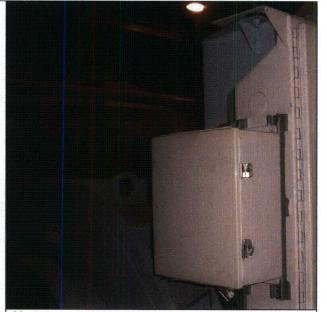
Equipment ID No. 0022EDG

Equip. Class<sup>1</sup> 17

Equipment Description <u>DIESEL GENERATOR NO. 22</u>



Note: Example of rubber tubing touching.



Note: Latch on 22EDG Gauge board cover panel on north side is not latched.

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 8 of 8

Status: Y □ N □ U ⊠

Seismic Walkdown Checklist (SWC) SWEL1-077

Equipment ID No. 0022EDG

Equip. Class<sup>1</sup> 17

Equipment Description DIESEL GENERATOR NO. 22



Note: Cracked wels on partition wall between diesels.



Note: Flimsy partition wall between diesels that needs verification of seismic design.

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 1 of 4	IP2
Seismic Walkdown Checklist (SWC) <u>SWEL1-078</u>	Status: Y☐ N☐ U⊠
Equipment ID No. <u>0023EDG</u>	Equip. Class <sup>1</sup> <u>17</u>
Equipment Description <u>DIESEL GENERATOR NO. 23</u>	
Location: Bldg. <u>EDG</u> Floor El. <u>72'-0"</u>	Room, Area
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>	one Y⊠ N□
Yes the anchorage configuration verification is required.	
2. Is the anchorage free of bent, broken, missing or loose hardware?	Y□ N□ U⊠ N/A□
Anchorage of components internal to cabinets attached to diesel we not examined. Opening cabinets attached to EDG's needs to be schedueled for the next diesel generator outage. Internals are to be inspected when cabinets are opened.	
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	Y⊠ N□ U□ N/A□
Surface corrosion. Not significant.	
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Y⊠ N□ U□ N/A□
Minor hair line cracks. Not significant.	

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

ATTACHMENT 9.6 SEISMIC WALKDOWN CHECKLIS		
Sheet 2 of 4	IP2	
Seismic Walkdown Checklist (SWC) <u>SWEL1-078</u>	Status: Y☐ N☐ U⊠	
Equipment ID No. <u>0023EDG</u> E	quip. Class <sup>1</sup> _17	
Equipment Description DIESEL GENERATOR NO. 23		
<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□	
Anchorage matches the SQUG (SEWS).		
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	Y⊠ N□ U□	
Yes based on the above anchorage evaluations, the anchorage is free of potentially adverse seismic conditions.		
Interaction Effects		
7. Are soft targets free from impact by nearby equipment or structures?	Y⊠ N□ U□ N/A□	
Yes soft targets are free from impact by nearby equipment or structures.		
8. Are overhead equipment, distribution systems, ceiling tiles and lighting and masonry block walls not likely to collapse onto the equipment?	, Y⊠ N□ U□ N/A□	
Refer to AWC-011 for partition discussion.		
9. Do attached lines have adequate flexibility to avoid damage?	Y⊠ N□ U□ N/A□	
Numerious lines touching. Judged acceptable.		
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	Y⊠ N□ U□	
Yes based on the above seismic interaction evaluations, the equipment is free of potentially adverse seismic interaction effects.	t	

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 3 of 4	IP2
Seismic Walkdown Checklist (SWC)SWEL1-078	Status: Y☐ N☐ U⊠
Equipment ID No. <u>0023EDG</u>	Equip. Class <sup>1</sup> 17
Equipment Description <u>DIESEL GENERATOR NO. 23</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□
Yes we have looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment.	
Comments (Additional pages may be added as necessary)	
1 of 4 air filter latches do not hold air filter in place. Air can by-pass issue in our presence. CR IP2-2012-06238 issued for trend tracking	
References: Drawings and AWC Drawings: 9321-H-2250, Rev 7, Diesel generator building general a AWC-011	arrangement plan,
Evaluated by: Nick Crispell	Date: <u>10/15/2012</u>
Stoty	
Stephen Yuan	
Dan Nuta	
Dan Nuta	

#### SEISMIC WALKDOWN CHECKLIST FORM

Sheet 4 of 4

IP2

Status: Y □ N □ U ⊠

Seismic Walkdown Checklist (SWC) SWEL1-078

Equipment ID No. 0023EDG

Equip. Class<sup>1</sup>\_17

Equipment Description <u>DIESEL GENERATOR NO. 23</u>

#### **Photographs**



Note:

DIESEL GENERATOR NO 23.



Note:

PERTITION WALL BETWEEN GENERATORS.

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 1 of 5	IP2
Seismic Walkdown Checklist (SWC) <u>SWEL1-079</u>	Status: Y⊠ N⊟ U⊟
Equipment ID No. <u>INST RK5</u>	Equip. Class <sup>1</sup> <u>18</u>
Equipment Description <u>INSTRUMENT RACK 5</u>	
Location: Bldg. AFB Floor El. 18'-6"	Room, Area
Manufacturer, Model, Etc. (optional but recommended)	
Instructions for Completing Checklist	
This checklist may be used to document the results of the Seismic Walkdo SWEL. The space below each of the following questions may be used to findings. Additional space is provided at the end of this checklist for document	ecord the results of judgments and
Anchorage	
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 N
Yes, the anchorage configuration verification is required.	
2. Is the anchorage free of bent, broken, missing or loose hardware?	Y⊠ N□ U□ N/A□
Yes, the anchorage is free of bent, broken, missing or loose hardw	vare.
Is the anchorage free of corrosion that is more than mild surface oxidation?	Y⊠ N□ U□ N/A□
Yes, the anchorage is free of corrosion that is more than mild surfa oxidation.	ace
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Y⊠ N□ U□ N/A□
Yes, the anchorage is free of visible cracks in the concrete near th anchor.	e

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

	MIC WALKDOWN CHECKLIST FOR
Sheet 2 of 5	IP2
Seismic Walkdown Checklist (SWC) <u>SWEL1-079</u>	Status: Y⊠ N□ U□
Equipment ID No. <u>INST RK5</u> Equ	uip. Class <sup>1</sup> _18
Equipment Description <u>INSTRUMENT RACK 5</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□
The anchorage configuration at the base of the rack is consistent with drawing 9321-F-7003-23 & SQUG (SEWS). The anchorage at the base was observed directly and the anchorage at the top was observed by use of a camera held overhead.	
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	Y⊠ N□ U□
Yes, based on the above anchorage evaluations, the anchorage is free of potentially adverse seismic conditions.	
Interaction Effects	
7. Are soft targets free from impact by nearby equipment or structures?	Y⊠ N□ U⊠ N/A□
The 7' tall Rack 5 is anchored at the top and bottom per drawing 9321-F-7003. There are conduits/tubing fixed on the concrete wall and going into the rack. During a seismic event the rack will move with the concrete wall preventing it from beating against the wall. Conduits entering Rack 5 are attached to the concrete wall which the rack is attached to so conduits and rack will move together during a seismic event.	
Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	Y□ N⊠ U□ N/A□
The fluorescent light tubes need wires securing them to the fixture to prevent them from falling on the rack in a seismic event. Several fluorescent lights are out and need to be replaced. CR IP2-2012-06483 has been issued to track resolution.	
9. Do attached lines have adequate flexibility to avoid damage?	Y□ N⊠ U□ N/A□
See response to #7.	

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 3 of 5	IP2
	Status: Y⊠ N⊟ U⊟
Seismic Walkdown Checklist (SWC) <u>SWEL1-079</u>	
Equipment ID No. <u>INST RK5</u>	Equip. Class <sup>1</sup> 18
Equipment Description <u>INSTRUMENT RACK 5</u>	
10. Based on the above seismic interaction evaluations, is equipment f of potentially adverse seismic interaction effects?	ree Y⊠ N□ U□
Yes, based on the above seismic interaction evaluations, the equipment is free of potentially adverse seismic interaction effects.	
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□
Yes we have looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment.	
Comments (Additional pages may be added as necessary)	
References:	
1. SQUG INSTRUMENT RACK 5	
<ol> <li>DWG 9321-F-7003, Rev 23,(A201097), Transmitter racks pipilinstrumentation.</li> </ol>	ng arrangement-sht. No.2
3. CR IP2-2012-06483	
4. AWC-035	
Evaluated by: Stephen Yuan  Auf If C	Date: <u>10/25/2012</u>
Paul Huebsch	10/25/2012

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 4 of 5

IP2

Seismic Walkdown Checklist (SWC) \_\_SWEL1-079

Status: Y⊠ N□ U□

Equipment ID No. INST RK5

Equip. Class<sup>1</sup> 18

Equipment Description INSTRUMENT RACK 5

### **Photographs**



Note: View at the top of rack 5 showing the two clip angle supports attaching the rack to the wall.



Note: Close up view of far top connection

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 5 of 5	IP2



Note: Close up view of near top connection

		Note:

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 1 of 4	IP2
	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) SWEL1-080	
Equipment ID No. PCV-1139	Equip. Class <sup>1</sup> _18
Equipment Description <u>AUX. FWP TURB SUPP PRESS REDUCING VA</u>	ILVE
Location: Bldg. <u>AFB</u> Floor EI. <u>18'-6"</u>	Room, Area
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⊠
In-line valve. No anchorage to check.	
2. Is the anchorage free of bent, broken, missing or loose hardware?	Y□ N□ U□ N/A⊠
Not applicable since it is an in-line valve.	
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	Y□ N□ U□ N/A⊠
Not applicable since it is an in-line valve.	
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Y□ N□ U□ N/A⊠
Not applicable since it is an in-line valve.	

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

ATTACHMENT 9.6 S	EISMIC WALKDOWN CHECKLIST FORM
Sheet 2 of 4	IP2
Seismic Walkdown Checklist (SWC)SWEL1-080	Status: Y⊠ N□ U□
Equipment ID No. <u>PCV-1139</u>	Equip. Class <sup>1</sup> _18
Equipment Description <u>AUX. FWP TURB SUPP PRESS REDUCING VAL</u>	VE
5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for white an anchorage configuration verification is required.)	Y□ N□ U□ N/A⊠ ch
Not applicable since component is an in-line valve.	
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	Y⊠ N□ U□
Yes based on the above anchorage evaluations, the anchorage is free of potentially adverse seismic conditions.	
Interaction Effects	
7. Are soft targets free from impact by nearby equipment or structures?	Y⊠ N□ U□ N/A□
Tubing over head between valve and MS-576 is near to touching control conduits for PCV-1139. Judged acceptable.	
Tubing to IA-1196 close to control conduit. Judged acceptable.	
8. Are overhead equipment, distribution systems, ceiling tiles and lightin and masonry block walls not likely to collapse onto the equipment?	ng, Y⊠ N□ U□ N/A□
Fluoresent light needs wire securing bulb to fixture. CR IP2-2012-064 issued to track resolution. This is considered a non-seismic issue for this item.	183
Light bulb out near valve PCV-1139. CR IP2-2012-06483 issued to track resolution.	
9. Do attached lines have adequate flexibility to avoid damage?	Y⊠ N□ U□ N/A□
Unistrut on containment wall near tubing elbow tubing line judged to have adequate flexibility. Tubing clamp is near end of unistrut is judge acceptable due to negligible weight of tubing.	ed
Tubing to MS-576 support near end of unistrut. Judged acceptable	

ATTACHMENT 9.6 SE	ISMIC WALKDOWN CHECKLIST FORM
Sheet 3 of 4	IP2
Seismic Walkdown Checklist (SWC)SWEL1-080	Status: Y⊠ N□ U□
Equipment ID No. PCV-1139	Equip. Class <sup>1</sup> _18
Equipment Description <u>AUX. FWP TURB SUPP PRESS REDUCING VALV</u>	<u> </u>
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	Y⊠ N□ U□
Yes based on the above seismic interaction evaluations, the equipment is free of potentially adverse seismic interaction effects.	nt
Other Adverse Conditions	
11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment?	Y⊠ N□ U□
Support for PI-1261 is braced from the pipe near wear this valve PCV-1139 is mounted. This is a non typical design detail that is judged acceptable for a seismic event.	d
<u>Comments</u> (Additional pages may be added as necessary)	
References: Drawings and AWC Drawings: B226033,Rev 3, Auxiliary boiler feed pump # 22 instrument PCV-1139. B226034, Rev 1, Auxiliary boiler feed pump # 22 instrument PCV-1139. 9321-F-7053,(A201147) Rev 38, Auxiliary boiler feed pump No. 2 Instrumentation.	control rack detail for
CR IP2-2012-06483 AWC-035	
Evaluated by: Nick Crispell	Date:10-15-2012
Stephen Yuan	10-15-2012
Dan Nuta	
Dan Nuta V	<u>10-15-2012</u>

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 4 of 4	IP2
	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) <u>SWEL1-0</u>	<u>80                                    </u>
Equipment ID No. PCV-1139	Equip. Class <sup>1</sup> <u>18</u>
Equipment Description <u>AUX. FWP TURB SUPP PRES</u>	S REDUCING VALVE
Photographs	
Note: Photo showing tubing above PCV-1139 that is touching and very close to other components. Judged acceptable given flexibility and weight of tubing.	Note:

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 1 of 4	IP2
Seismic Walkdown Checklist (SWC) <u>SWEL1-081</u>	Status: Y☐ N☐ U⊠
Equipment ID No. <u>IP2-EDGB-72-DB6</u>	Equip. Class <sup>1</sup> <u>18</u>
Equipment Description <u>EDG BLDG 72' EL ENGINE AUXILIARIES CTF</u>	RL PNL
Location: Bldg. <u>EDG</u> Floor El. <u>72'-0"</u>	Room, Area
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 documents.	record the results of judgments and
Anchorage	
<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⊠
No, the anchorage configuration verification is not required.	
2. Is the anchorage free of bent, broken, missing or loose hardware	? Y□ N□ U⊠ N/A□
Cabinet was not opened for internal inspection. Cabinet can not opened when powered. Cabinet needs to be powered down and internals inspected.	be
External anchorage is present and was inspected. External anch is free of bent, brocken, missing or loose hardware.	orage
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	Y⊠ N□ U□ N/A□
Minor surface corrosion. Judged OK.	
Is the anchorage free of visible cracks in the concrete near the anchors?	Y⊠ N□ U□ N/A□
Floor is coated. No visible cracks.	

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

		EISMIC WALKDOWN CHECKLIST FORM
Sheet 2	2 of 4	IP2
Caiam	sis Malledows Charlist (SMC) SMEL 4 004	Status: Y☐ N☐ U⊠
Seisn	nic Walkdown Checklist (SWC) <u>SWEL1-081</u>	
Equip	ment ID No. <u>IP2-EDGB-72-DB6</u>	Equip. Class <sup>1</sup> <u>18</u>
Equip	ment Description <u>EDG BLDG 72' EL ENGINE AUXILIARIES CTRL P</u>	NL
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⊠ ch
	Not applicable since component is not part of the anchorage configuration verification.	
6.	Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	Y□ N□ U⊠
	Yes based on the above anchorage evaluations, the anchorage is free of potentially adverse seismic conditions. However internal components must be examined when cabinet can be opened.	
Intera	ction Effects	
7.	Are soft targets free from impact by nearby equipment or structures?	Y⊠ N□ U□ N/A□
	Yes soft targets are free from impact by nearby equipment or structures.	
8.	Are overhead equipment, distribution systems, ceiling tiles and lightin and masonry block walls not likely to collapse onto the equipment?	g, Y⊠ N□ U□ N/A□
	Speaker and heater overhead judged to be adequately supported.	
9.	Do attached lines have adequate flexibility to avoid damage?	Y⊠ N□ U□ N/A□
	Yes attached lines have adequate flexibility to avoid damage.	
10.	Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	∍ Y⊠ N□ U□
	Yes based on the above seismic interaction evaluations, the equipme is free of potentially adverse seismic interaction effects.	ent

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 3 of 4	IP2
Seismic Walkdown Checklist (SWC) <u>SWEL1-081</u>	Status: Y□ N□ U⊠
Equipment ID No. <u>IP2-EDGB-72-DB6</u>	Equip. Class <sup>1</sup> <u>18</u>
Equipment Description <u>EDG BLDG 72' EL ENGINE AUXILIA</u>	RIES CTRL PNL
Other Adverse Conditions	
11. Have you looked for and found no other seismic condition adversely affect the safety functions of the equipment?	
Yes we have looked for and found no other seismic concould adversely affect the safety functions of the equipment.	
Comments (Additional pages may be added as necessary)	
Top right cover screw is loose. Panel is judged by the washing screw. Operations personnel fixed issue immediately.	
References: Drawings and AWC.  Drawings: 9321-F-3049, Rev 30, Conduit layout diesel g	•
A209208, Rev 11. Conduit layout diesel gen Details.	erator building, elev 67° and 72° section 4
9321-H-2250,Rev 7. Diesel generator buildir	ng general arrangement plan.
AWC-011	
Evaluated by: Nick Crispell	Date: 10/15/2012
Stoll	
Stephen Yuan '	
Dan Nuta	Into
Dan Nuta	

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 4 of 4	IP2
Seismic Walkdown Checklist (SWC) SWEL1-081	Status: Y□ N□ U□
Equipment ID No. <u>IP2-EDGB-72-DB6</u>	Equip. Class <sup>1</sup> 18
Equipment Description <u>EDG BLDG 72' EL ENGINE AUXILIAR</u>	IES CTRL PNL
Photographs	
Note:  EDG BLDG 72' EL ENGINE AUXILIARIES CTRL PANEL.	

ATTACHMENT 9.6			SEISMIC V	VALKDOW	VN CHEC	KLIST FOR
Sheet 1 of 4						IP2
			;	Status:	Y⊠ N	v□ U□
Seismic Walkdown Checklist (SWC) _	SWEL1-084					
Equipment ID No. <u>ELJ-10</u>			Equip. (	Class <sup>1</sup> _1	9	
Equipment Description <u>EDG BLDG THERM</u>	MOSTAT		r			
Location: Bldg. <u>EDG</u>	Floor El.	72'-0"	Room,	Area _		
Manufacturer, Model, Etc. (optional but record	mmended) _					
Instructions for Completing Checklist						
This checklist may be used to document the SWEL. The space below each of the followin findings. Additional space is provided at the	g questions ma	ay be used to re	ecord the i	results of	f judgm	
Anchorage						
<ol> <li>Is the anchorage configuration verific of the 50% of SWEL items requiring s</li> </ol>			one Y[	□N⊠		
The anchorage configuration verificat	tion is not requi	red.				
2. Is the anchorage free of bent, broken	, missing or loc	se hardware?	ΥD	⊠ N□ !	U N/	′A□
Yes, the anchorage is free of bent, b	roken, missing	or loose hardw	are.			
Is the anchorage free of corrosion that oxidation?	at is more than	mild surface	YD	⊠ N□ I	U <u></u> N/	/A□
Minor surface rust. Judged OK.						
Is the anchorage free of visible crack anchors?	s in the concre	te near the	Υ[	_ N□ (	U□ N/	⁄A⊠
Anchorage to structural steel, not to o	concrete.					

<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	IP2
Seismic Walkdown Checklist (SWC) SWEL1-084	Status: Y⊠ N□ U□
Equipment ID No. <u>ELJ-10</u>	Equip. Class <sup>1</sup> _19
Equipment Description <u>EDG BLDG THERMOSTAT</u>	
<ol><li>Is the anchorage configuration consistent with plant doc (Note: This question only applies if the item is one of the an anchorage configuration verification is required.)</li></ol>	
Not applicable since component is not part of the ancho configuration verification.	rage
6. Based on the above anchorage evaluations, is the anch potentially adverse seismic conditions?	orage free of Y⊠ N□ U□
Yes, based on the above anchorage evaluations, the alfree of potentially adverse seismic conditions.	nchorage is
Interaction Effects	
7. Are soft targets free from impact by nearby equipment of	or structures? Y⊠ N□ U□ N/A□
Yes, soft targets are free from impact by nearby equipm structures.	ent or
<ol><li>Are overhead equipment, distribution systems, ceiling til and masonry block walls not likely to collapse onto the e</li></ol>	
Yes, overhead equipment, distribution systems, ceiling lighting, and masonry block walls are not likely to collaptequipment.	
9. Do attached lines have adequate flexibility to avoid dam	age? Y⊠ N□ U□ N/A□
Yes, attached lines have adequate flexibility to avoid da	amage.
10. Based on the above seismic interaction evaluations, is e of potentially adverse seismic interaction effects?	equipment free Y⊠ N□ U□
Yes, based on the above seismic interaction evaluations equipment is free of potentially adverse seismic interact.	

ATTACHMENT 9.6	SEISMIC WALK	DOWN CHECKLIST FORM
Sheet 3 of 4		IP2
O : I MAIL I OL HISA (OMO) OMELA OLA	Stat	us: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) <u>SWEL1-084</u>		
Equipment ID No. <u>ELJ-10</u>	Equip. Class	s <sup>1</sup> 19
Equipment Description <u>EDG BLDG THERMOSTAT</u>	<u> </u>	
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	□∪□
Yes, we have looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment.		
Comments (Additional pages may be added as necessary)		
References: Drawings and AWC Drawings: 9321-F-1460, (A201195), Rev 15, Diesel Generator Build 9321-F-3049, Rev 30, Conduit Layout Diesel Generator Build A209208, Rev 11, Conduit Layout Diesel Generator Build Sections and Details.	Building, Eleva	tion 67' and 72'.
AWC-011		
Evaluated by: Stephen Yuan	Date:	10/15/12
	<u> </u>	10/15/12
Nick Crispell  Nick Crispell  Dan Nuta		
Dan Nuta		10/15/12

ATTACHMENT 9.6 SEISMIC WALKDOWN CHECKL	
Sheet 4 of 4	IP2
	Status: Y⊠ N⊡ U⊡
Seismic Walkdown Checklist (SWC) <u>SWEL1-</u>	084
Equipment ID No. <u>ELJ-10</u>	Equip. Class <sup>1</sup> _19
Equipment Description <u>EDG BLDG THERMOSTAT</u>	
Photographs	
No photo due to restriction of EN-DC-217	
Note:	Note:

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 1 of 4	IP2
Seismic Walkdown Checklist (SWC) <u>SWEL1-085</u>	Status: Y⊠ N□ U□
Equipment ID No. <u>TE-130</u>	Equip. Class <sup>1</sup> 19
Equipment Description NON REGHX OUTLET LETDOWN TEMP ELEM	<u> </u>
Location: Bldg. PAB Floor El. 98'-0"	Room, Area
Manufacturer, Model, Etc. (optional but recommended)	
Instructions for Completing Checklist	
This checklist may be used to document the results of the Seismic Walkdo SWEL. The space below each of the following questions may be used to findings. Additional space is provided at the end of this checklist for document	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⊠
The anchorage configuration verification is not required.	
2. Is the anchorage free of bent, broken, missing or loose hardware?	Y□ N□ U□ N/A⊠
Temperature element is inline, and therefore anchorage inspection applicable.	n not
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	Y□ N□ U□ N/A⊠
Temperature element is inline, and therefore anchorage inspection applicable.	n not
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Y□ N□ U□ N/A⊠
Temperature element is inline, and therefore anchorage inspection applicable.	n not

<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	IP2
Seismic Walkdown Checklist (SWC)SWEL1-085	Status: Y⊠ N□ U□
Equipment ID No. <u>TE-130</u> Eq	uip. Class <sup>1</sup> _ <u>19</u>
Equipment Description NON REGHX OUTLET LETDOWN TEMP ELEMENT	
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⊠
Temperature element is inline, and therefore anchorage inspection not applicable.	
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	Y⊠ N□ U□
Yes based on the above anchorage evaluations, the anchorage is free of potentially adverse seismic conditions.	
Interaction Effects	
7. Are soft targets free from impact by nearby equipment or structures?	Y⊠ N□ U□ N/A□
Yes soft targets are free from impact by nearby equipment or structures.	
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	Y⊠ N□ U□ N/A□
Block wall penetration (approximately 4' x 4') is qualified by Computech report R547.01.	
9. Do attached lines have adequate flexibility to avoid damage?	Y⊠ N□ U□ N/A□
Yes attached lines have adequate flexibility to avoid damage.	
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	Y⊠ N□ U□
Yes based on the above seismic interaction evaluations, the equipment is free of potentially adverse seismic interaction effects.	

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 3 of 4	IP2
	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) <u>SWEL1-085</u>	
Equipment ID No. <u>TE-130</u>	Equip. Class <sup>1</sup> _19
Equipment Description NON REGHX OUTLET LETDOWN TEMP ELEME	ENT
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□
Yes we have looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment.	
<u>Comments</u> (Additional pages may be added as necessary)	
References: Drawings and AWC	
Drawings: 9321-F-1397, Rev 21, (A200204), Primary Auxiliary build	ling floor plans and elevations.
9321-F-2592, Rev 38, (A200678), Primary Auxiliary build	lingcomposite piping
arrangement sections sheet no.7	
AWC-025	
Evaluated by: Nick Crispell  Dan Nuta	Date:10-22-2012
Shooper a. Water	
Dan Nuta V	

ATTACHMENT 9.6

Sheet 4 of 4

Seismic Walkdown Checklist Form

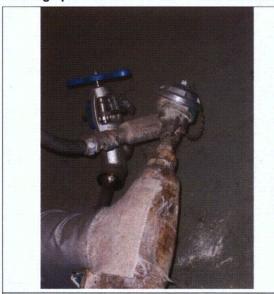
Seismic Walkdown Checklist (SWC) SWEL1-085

Equipment ID No. TE-130

Equip. Class 1 19

Equipment Description NON REGHX OUTLET LETDOWN TEMP ELEMENT

### **Photographs**



Note: Temperature element



Note: Temperature element closeup.

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 1 of 4	IP2
Seismic Walkdown Checklist (SWC)SWEL1-087	Status: Y☐ N☐ U⊠
Equipment ID No. PNL PP9	Equip. Class <sup>1</sup> _20
Equipment Description <u>EDG 21 CONTROL PANEL</u>	
Location: Bldg. <u>EDG</u> Floor El. <u>72'-0"</u>	Room, Area
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>	one Y N
No, the anchorage configuration verification is not required.	
2. Is the anchorage free of bent, broken, missing or loose hardware?	Y∐ N∏ U⊠ N/A∏
Internal anchorage could not be checked as panel is not allowed to opened when panel is powered. Panel to be powered down and intanchorage inspected when possible.	
External anchors where inspected and are free of bent, broken, misor loose hardware.	ssing
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	Y□ N□ U⊠ N/A□
No corrosion found on external bolts. Internal bolts could not be observed as panel could not be opened.	
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Y□ N□ U⊠ N/A□
Internal bolts could not be observed since panel could not be open- No visible cracks at external anchors.	ed.

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

		EISMIC WALKDOWN CHECKLIST FORM
Sheet 2	2 01 4	IP2
Seism	nic Walkdown Checklist (SWC) <u>SWEL1-087</u>	Status: Y☐ N☐ U⊠
Equipr	ment ID No. <u>PNL PP</u> 9	Equip. Class <sup>1</sup> _20
Equipr	ment Description <u>EDG 21 CONTROL PANEL</u>	
5.	Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)	Y NUNAX
	Not applicable since component is not part of the anchorage configuration verification.	
6.	Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	Y□ N□ U⊠
	Cannot be determined since some anchorage is internal to cabinet and door could not be opened.	
Intera	ction Effects	
7.	Are soft targets free from impact by nearby equipment or structures?	Y□ N⊠ U□ N/A□
	The 21EDG control panel has a side synch panel. The side synch part is free to swing on hinge into 21EDG control panel. Restraint bracket bottom of side panel is broken. Operations personnel reattached and repaired restraint bracket immediately in our presence. CR IP2-2012-6207 issued for tracking purposes.	on '
8.	Are overhead equipment, distribution systems, ceiling tiles and lighting and masonry block walls not likely to collapse onto the equipment?	g, Y⊠ N□ U□ N/A□
	Yes overhead equipment, distribution systems, ceiling tiles and lightin and masonry block walls are not likely to collapse onto the equipment	
9.	Do attached lines have adequate flexibility to avoid damage?	Y⊠ N□ U□ N/A□
	Yes attached lines have adequate flexibility to avoid damage.	
10.	Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	∍ Y⊠ N□ U□
	Yes based on the above seismic interaction evaluations, the equipme is free of notentially adverse seismic interaction effects	nt

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 3 of 4	IP2
Seismic Walkdown Checklist (SWC) <u>SWEL1-087</u>	Status: Y☐ N☐ U⊠
Equipment ID No. PNL PP9	Equip. Class <sup>1</sup> <u>20</u>
Equipment Description <u>EDG 21 CONTROL PANEL</u>	
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 Y⊠ N□ U□
Yes we have looked for and found no other seismic condit could adversely affect the safety functions of the equipment	
Comments (Additional pages may be added as necessary)	
Panel on north end of #23 EDG control panel is missing 1 EDG control panel not lached. Operations personnel fixed 2012-06238 issued for tracking.	
References: Drawings and AWC Drawings: 9321-H-2250, Rev 7, Diesel generator building AWC-011	general arrangement plan.
Evaluated by: Nick Crispell	Date: <u>10-15-2012</u>
Stephen Yuan	
Dan Nuta	ta 10.45.0010
Dan Nuta	10-15-2012

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 4 of 4	IP2
	Status: Y□ N□ U⊠
Seismic Walkdown Checklist (SWC) <u>SWEL1-087</u>	-
Equipment ID No. PNL PP9	Equip. Class <sup>1</sup> 20
Equipment Description <u>EDG 21 CONTROL PANEL</u>	
Photographs	
THE REAL PROPERTY AND ADDRESS OF THE PARTY AND	
3 Q 8 Q 3 1 Q 8 Q 3 Q 3 Q 3 Q 3 Q 3 Q 3 Q 3 Q 3 Q 3	
21 6 b w of his contraction	
S S S S S S S S S S S S S S S S S S S	
51/20	=
The state of the s	
<b>Note:</b> EDG 21 control panel showing side Synch panel that is free to swing.	ii .
partor that to hoo to dwing.	
	e.

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 1 of 5	IP2
	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) <u>SWEL1-088</u>	
Equipment ID No. <u>EPK1</u>	Equip. Class <sup>1</sup> _20
Equipment Description <u>SW PMP #21 STRAINER CONT PNL</u>	
Location: Bldg. SWSTR PIT Floor El. 5'-9"	Room, Area
Manufacturer, Model, Etc. (optional but recommended)	
Instructions for Completing Checklist	
This checklist may be used to document the results of the Seismic Walkdo SWEL. The space below each of the following questions may be used to r findings. Additional space is provided at the end of this checklist for documents.	ecord the results of judgments and
Anchorage	
<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⊠
The anchorage configuration verification is not required.	
2. Is the anchorage free of bent, broken, missing or loose hardware?	Y⊠ N□ U□ N/A□
Yes the anchorage is free of bent, broken, missing or loose hardwa The panel was opened up and internal components were examined acceptable.	
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	Y⊠ N□ U□ N/A□
Slight surface corrosion was observed and is juged acceptable.	
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Y⊠ N□ U□ N/A□
Wall is coated. No significant cracks 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 FORM
Sheet 2 of 5	IP2
Seismic Walkdown Checklist (SWC)SWEL1-088	Status: Y⊠ N□ U□
Equipment ID No. <u>EPK1</u>	Equip. Class <sup>1</sup> 20
· ·	Equip. Class _20
Equipment Description SW PMP #21 STRAINER CONT PNL	
<ol> <li>Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for wh an anchorage configuration verification is required.)</li> </ol>	
Not applicable since component is not part of the anchorage configuration verification.	
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	f Y⊠ N□ U□
Yes based on the above anchorage evaluations, the anchorage is free of potentially adverse seismic conditions.	
Interaction Effects	
7. Are soft targets free from impact by nearby equipment or structures?	Y⊠ N□ U□ N/A□
Yes soft targets are free from impact by nearby equipment or structures.	
8. Are overhead equipment, distribution systems, ceiling tiles and lighti- and masonry block walls not likely to collapse onto the equipment?	ng, Y⊠ N□ U□ N/A□
Fluorescent bulb overhead has a plexiglass cover to catch bulb if it found to out of the prongs. No issues noted.	ialls
9. Do attached lines have adequate flexibility to avoid damage?	Y⊠ N□ U□ N/A□
Yes attached lines have adequate flexibility to avoid damage.	
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	ee Y⊠ N□ U□
Yes based on the above seismic interaction evaluations, the equipm is free of potentially adverse seismic interaction effects.	ent

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 3 of 5	IP2
Seismic Walkdown Checklist (SWC) <u>SWEL1-088</u>	Status: Y⊠ N□ U□
Equipment ID No. <u>EPK1</u>	Equip. Class <sup>1</sup> 20
Equipment Description <u>SW PMP #21 STRAINER CONT PNL</u>	
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□
Yes we have looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment.	t
Comments (Additional pages may be added as necessary)	
Cover is missing 2 of 10 hold downs. Panel judged seismically ade IP2-2012-06841 issued to fix hold downs.	equate with missing hold downs. CR
References: Drawings and AWC	
Drawings: 9321-F-2011, Rev 9, General arrangement intake struct	ture plan unit 2.
CR IP2-2012-06841 AWC-013	
Evaluated by: Nick Crispell  Dan Nuta	Date: <u>10-17-2012</u>
Trages d. Writer	
Dan Nuta	10-17-2012

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 4 of 5

IP2

Status: Y⊠ N□ U□

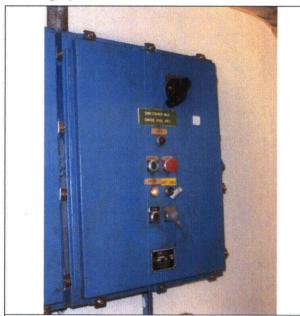
Seismic Walkdown Checklist (SWC) \_\_SWEL1-088

Equipment ID No. EPK1

Equip. Class<sup>1</sup> 20

Equipment Description SW PMP #21 STRAINER CONT PNL

### **Photographs**



Note: EPK1



Note: Missing latches.

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 5 of 5

IP2

Status: Y⊠ N□ U□

Seismic Walkdown Checklist (SWC) SWEL1-088

Equipment ID No. <u>EPK1</u>

Equip. Class<sup>1</sup> 20

Equipment Description SW PMP #21 STRAINER CONT PNL



Note:

Missing latches.



Note:

Anchorage at bottom of panel.

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 1 of 4	IP2
Seismic Walkdown Checklist (SWC)SWEL1-089	Status: Y⊠ N☐ U☐
Equipment ID No. <u>EPG9</u>	Equip. Class <sup>1</sup> _20
Equipment Description <u>REMOTE UNDERVOLTAGE RELAY CABINET</u> ,	BUS 6A
Location: Bldg. <u>CB</u> Floor El. <u>15'-0"</u>	Room, Area
Manufacturer, Model, Etc. (optional but recommended)	
Instructions for Completing Checklist	
This checklist may be used to document the results of the Seismic Walkdo SWEL. The space below each of the following questions may be used to refindings. Additional space is provided at the end of this checklist for document	ecord the results of judgments and
Anchorage	
1. Is the anchorage configuration verification required (i.e., is the item of the 50% of SWEL items requiring such verification)?	one Y□ N⊠
The anchorage configuration verification is not required.	
2. Is the anchorage free of bent, broken, missing or loose hardware?	Y⊠ N□ U□ N/A□
Cabinet door was opened and internal component anchorage was acceptable.	
Is the anchorage free of corrosion that is more than mild surface oxidation?	Y⊠ N□ U□ N/A□
Minor surface corrosion present. Judged acceptable.	
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Y⊠ N□ U□ N/A□
Minor crack near by but not significant. Judged acceptable.	

<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	IP2
Seismic Walkdown Checklist (SWC) <u>SWEL1-089</u>	Status: Y⊠ N□ U□
Equipment ID No. <u>EPG9</u>	Equip. Class <sup>1</sup> _20
Equipment Description REMOTE UNDERVOLTAGE RELAY CABINET	
<ol><li>Is the anchorage configuration consistent with plant documentation (Note: This question only applies if the item is one of the 50% for an anchorage configuration verification is required.)</li></ol>	
Not applicable since component is not part of the anchorage configuration verification.	
6. Based on the above anchorage evaluations, is the anchorage free potentially adverse seismic conditions?	e of Y⊠ N□ U□
Yes, based on the above anchorage evaluations, the anchorage free of potentially adverse seismic conditions.	is
Interaction Effects	
7. Are soft targets free from impact by nearby equipment or structure	es? Y⊠ N□ U□ N/A□
Yes, soft targets are free from impact by nearby equipment or structures.	
<ol><li>Are overhead equipment, distribution systems, ceiling tiles and lig and masonry block walls not likely to collapse onto the equipment</li></ol>	
Yes, overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls are not likely to collapse onto the equipment.	e
9. Do attached lines have adequate flexibility to avoid damage?	Y⊠ N□ U□ N/A□
Yes, attached lines have adequate flexibility to avoid damage.	
10. Based on the above seismic interaction evaluations, is equipment of potentially adverse seismic interaction effects?	t free Y⊠ N□ U□
Yes, based on the above seismic interaction evaluations, the equipment is free of potentially adverse seismic interaction effects	5.

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 3 of 4	IP2
	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) <u>SWEL1-089</u>	
Equipment ID No. <u>EPG9</u>	Equip. Class <sup>1</sup> _20
Equipment Description <u>REMOTE UNDERVOLTAGE RELAY CABINET</u> ,	BUS 6A
Other Adverse Conditions	
11. Have you looked for and found no other seismic conditions that conadversely affect the safety functions of the equipment?	uld Y⊠ N□ U□
Yes, we have looked for and found no other seismic conditions the could adversely affect the safety functions of the equipment.	at
Comments (Additional pages may be added as necessary)	
References: Drawings and AWC Drawings: 9321-F-7028, (A201122), Rev 46, Containment Building no 2,Instrumentation. AWC-002	ı Instrument Arrangement-Sheet
Evaluated by: Nick Crispell	Date: <u>10/9/12</u>
Stepeh Yuan	10/9/12
Dan Nuta	10/9/12

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 4 of 4	IP2
Seismic Walkdown Checklist (SWC) SWEL1-089	Status: Y⊠ N□ U□
Equipment ID No. <u>EPG9</u>	Equip. Class <sup>1</sup> 20
Equipment Description <u>REMOTE UNDERVOLTAGE RELA</u>	
Photographs	1
Note: EPG9 Cabinet	ote:

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 1 of 5	IP2
Seismic Walkdown Checklist (SWC) <u>SWEL1-090</u>	Status: Y⊠ N□ U□
Equipment ID No. 22SIP	Equip. Class <sup>1</sup> _20
Equipment Description 22 SAFETY INJECTION PUMP	
Location: Bldg. PAB Floor El. 59'-0"	Room, Area
Manufacturer, Model, Etc. (optional but recommended)	
Instructions for Completing Checklist	
This checklist may be used to document the results of the Seismic Walkdo SWEL. The space below each of the following questions may be used to r findings. Additional space is provided at the end of this checklist for document	ecord the results of judgments and
Anchorage	
Is the anchorage configuration verification required (i.e., is the item of the 50% of SWEL items requiring such verification)?	n one Y⊠ N□
The anchorage configuration verification is required.	
2. Is the anchorage free of bent, broken, missing or loose hardware?	Y⊠ N□ U□ N/A□
Yes the anchorage is free of bent, broken, missing or loose hardwa	are.
Is the anchorage free of corrosion that is more than mild surface oxidation?	Y⊠ N□ U□ N/A□
Yes the anchorage is free of corrosion that is more than mild surface oxidation.	ce
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Y⊠ N□ U□ N/A□
Yes the anchorage is free of visible cracks in the concrete near the anchors.	•

<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	IP2
Seismic Walkdown Checklist (SWC)SWEL1-090	Status: Y⊠ N□ U□
Equipment ID No. 22SIP	Equip. Class <sup>1</sup> _20
Equipment Description 22 SAFETY INJECTION PUMP	
<ol> <li>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.)</li> </ol>	
Anchorage matches drawing 9321-F-1167 & 9321-F-1166.	
6. Based on the above anchorage evaluations, is the anchorage free potentially adverse seismic conditions?	of Y⊠ N□ U□
Yes based on the above anchorage evaluations, the anchorage is free of potentially adverse seismic conditions.	
Interaction Effects	
7. Are soft targets free from impact by nearby equipment or structure:	s? Y⊠ N□ U□ N/A□
Yes soft targets are free from impact by nearby equipment or structures.	
8. Are overhead equipment, distribution systems, ceiling tiles and light and masonry block walls not likely to collapse onto the equipment?	
Yes overhead equipment, distribution systems, ceiling tiles and light and masonry block walls are not likely to collapse onto the equipment.	
9. Do attached lines have adequate flexibility to avoid damage?	Y⊠ N□ U□ N/A□
Yes attached lines have adequate flexibility to avoid damage.	
Based on the above seismic interaction evaluations, is equipment of potentially adverse seismic interaction effects?	free Y⊠ N□ U□
Yes based on the above seismic interaction evaluations, the equip-	ment

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 3 of 5	IP2
Sciencia Walledown Charleigt (SWC) SWELL 000	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) <u>SWEL1-090</u>	
Equipment ID No. 22SIP	Equip. Class <sup>1</sup> 20
Equipment Description 22 SAFETY INJECTION PUMP	
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□
Yes we have looked for and found no other seismic conditions the could adversely affect the safety functions of the equipment.	at
Comments (Additional pages may be added as necessary)	
References: Drawings and AWC	
Drawings: 9321-F-1166, Rev. 26, Primary Auxiliary Building Con	crete Plans at El. 15'-0", 35'-0" &
9321-F-1167, Rev. 24, Primary Auxiliary Building Con AWC-017	crete Plans at El. 59'-0" and 68'-0"
Evaluated by: Nick Crispell  Nick Crispell	Date: <u>10/19/2012</u>
Paul Huebsch	10/40/2012

### ATTACHMENT 9.6 Sheet 4 of 5 Seismic Walkdown Checklist Form Seismic Walkdown Checklist (SWC) SWEL1-090 Equipment ID No. 22SIP Equip. Class¹ 20

### **Photographs**



Equipment Description 22 SAFETY INJECTION PUMP

Note: SIJ Pump



Note: SIJ Pump

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 5 of 5

IP2

Status: Y⊠ N□ U□

Seismic Walkdown Checklist (SWC) SWEL1-090

Equipment ID No. 22SIP

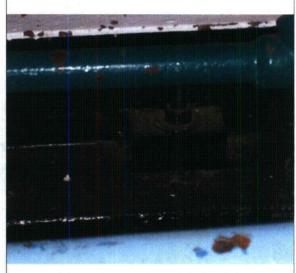
Equip. Class<sup>1</sup> 20

Equipment Description 22 SAFETY INJECTION PUMP



Note:

Typical anchorage



Note:

Typical anchorage

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 1 of 5	IP2
Seismic Walkdown Checklist (SWC)SWEL1-091	Status: Y⊠ N□ U□
Equipment ID No. PNL EPA10	Equip. Class <sup>1</sup> 20
Equipment Description PAB EXH & CB PRG FAN 21 CONTROL PANE	<u></u>
Location: Bldg. <u>FAN HOUSE</u> Floor El. <u>80'-0"</u>	Room, Area
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 documents.	record the results of judgments and
Anchorage	
<ol> <li>Is the anchorage configuration verification required (i.e., is the iten of the 50% of SWEL items requiring such verification)?</li> </ol>	n one Y□ N⊠
The anchorage configuration verification is not required.	
2. Is the anchorage free of bent, broken, missing or loose hardware?	Y⊠ N□ U□ N/A□
Yes the anchorage is free of bent, broken, missing or loose hardw	vare.
Is the anchorage free of corrosion that is more than mild surface oxidation?	Y⊠ N□ U□ N/A□
Yes the anchorage is free of corrosion that is more than mild surfa oxidation.	ace
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Y⊠ N□ U□ N/A□
Yes the anchorage is free of visible cracks in the concrete near the anchors.	е
An abandoned hole near the lower anchorage found about 4" awa Not a seismic issue.	у

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

	ISMIC WALKDOWN CHECKLIST FORM
Sheet 2 of 5	IP2
	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) <u>SWEL1-091</u>	
Equipment ID No. PNL EPA10	Equip. Class <sup>1</sup> _20
Equipment Description PAB EXH & CB PRG FAN 21 CONTROL 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⊠
Not applicable since component is not part of the anchorage configuration verification.	
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	Y⊠ N□ U□
Yes based on the above anchorage evaluations, the anchorage is free of potentially adverse seismic conditions.	
Interaction Effects	
7. Are soft targets free from impact by nearby equipment or structures?	Y⊠ N□ U□ N/A□
Yes soft targets are free from impact by nearby equipment or structures.	
8. Are overhead equipment, distribution systems, ceiling tiles and lighting and masonry block walls not likely to collapse onto the equipment?	, Y⊠ N□ U□ N/A□
Yes overhead equipment, distribution systems, ceiling tiles and lighting and masonry block walls are not likely to collapse onto the equipment.	<b>7</b> ,
9. Do attached lines have adequate flexibility to avoid damage?	Y⊠ N□ U□ N/A□
Yes attached lines have adequate flexibility to avoid damage.	
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	Y⊠ N□ U□
Yes based on the above seismic interaction evaluations, the equipmer is free of potentially adverse seismic interaction effects	rt .

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 3 of 5	IP2
	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) <u>SWEL1-091</u>	
Equipment ID No. PNL EPA10	Equip. Class <sup>1</sup> _20
Equipment Description PAB EXH & CB PRG FAN 21 CONTROL PANE	<u>L</u>
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□
Yes we have looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment.	
Comments (Additional pages may be added as necessary)	
References: Drawings and AWC	
Drawings: 9321-F-1166, Rev 24, (A200107), Primary Auxiliary buil	ding concrete plans at
elev. 59'-0" and 68'-0".	·
9321-F-11666, Rev 26, (A200106), Primary Auxiliary bui	ilding concrete plans at
elev. 15',35', and 42'	
AWC-030	
Evaluated by: Kirit Parikh	Date: <u>10/24/2012</u>
Nick Crispell Wick Crispell	

## ATTACHMENT 9.6 Sheet 4 of 5 Seismic Walkdown CheckList Form Seismic Walkdown Checklist (SWC) SWEL1-091 Equipment ID No. PNL EPA10 Equip. Class 20

### **Photographs**



Equipment Description PAB EXH & CB PRG FAN 21 CONTROL PANEL

Note: Panel identification



Note:

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 5 of 5

IP2

Status: Y⊠ N□ U□

Seismic Walkdown Checklist (SWC) SWEL1-091

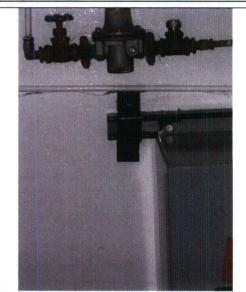
Equipment ID No. PNL EPA10

Equip. Class<sup>1</sup> 20

Equipment Description PAB EXH & CB PRG FAN 21 CONTROL PANEL



Note: Open panel EPA10 / Anchorage. Replacement bulbs for the panel are laying on the bottom inside of the panel. Walkdown engineers judged this acceptable.



Note: Panel anchorage.

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 1 of 5	IP2
Sciemia Walkdown Charlist (SWC) SWEL 1 002	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) <u>SWEL1-092</u>	
Equipment ID No. 21CCST	Equip. Class <sup>1</sup> 21
Equipment Description 21 COMPONENT COOLING SURGE TNK	
Location: Bldg. <u>PAB</u> Floor El. <u>98'-0"</u>	Room, Area
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□
The anchorage configuration verification is required.	
2. Is the anchorage free of bent, broken, missing or loose hardware?	Y⊠ N□ U□ N/A□
Yes the anchorage is free of bent, broken, missing or loose hardwa	are.
Is the anchorage free of corrosion that is more than mild surface oxidation?	Y⊠ N□ U□ N/A□
Yes the anchorage is free of corrosion that is more than mild surface oxidation.	ce
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Y⊠ N□ U□ N/A□
Yes the anchorage is free of visible cracks in the concrete near the anchors.	•

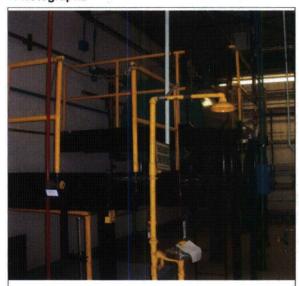
<sup>&</sup>lt;sup>1</sup> Enter the equipment class name from EPRI 1025286, Appendix B: Classes of Equipment.

	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 2 of 5	IP2
Seismic Walkdown Checklist (SWC) <u>SWEL1-092</u>	Status: Y⊠ N□ U□
Equipment ID No. 21CCST	Equip. Class <sup>1</sup> 21
Equipment Description 21 COMPONENT COOLING SURGE TNK	
5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for whan anchorage configuration verification is required.)	
Anchorage matches SQUG (SEWS).	
6. Based on the above anchorage evaluations, is the anchorage free o potentially adverse seismic conditions?	f Y⊠ N□ U□
Yes based on the above anchorage evaluations, the anchorage is free of potentially adverse seismic conditions.	
Interaction Effects	
7. Are soft targets free from impact by nearby equipment or structures?	P Y⊠ N□ U□ N/A□
Yes soft targets are free from impact by nearby equipment or structures.	
8. Are overhead equipment, distribution systems, ceiling tiles and lighti and masonry block walls not likely to collapse onto the equipment?	ng, Y⊠ N□ U□ N/A□
Yes overhead equipment, distribution systems, ceiling tiles and light and masonry block walls are not likely to collapse onto the equipment	
9. Do attached lines have adequate flexibility to avoid damage?	Y⊠ N□ U□ N/A□
Yes attached lines have adequate flexibility to avoid damage.	
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	ee Y⊠ N□ U□
Yes based on the above seismic interaction evaluations, the equipm is free of potentially adverse seismic interaction effects.	ent

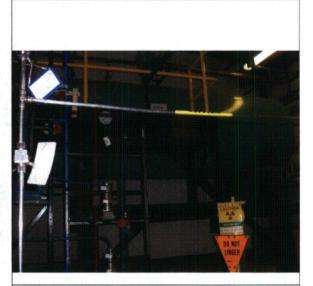
ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 3 of 5	IP2
Seismic Walkdown Checklist (SWC) <u>SWEL1-092</u>	Status: Y⊠ N∏ U∏
Equipment ID No. 21CCST	Equip. Class <sup>1</sup> _21
Equipment Description 21 COMPONENT COOLING SURGE TNK	
Other Adverse Conditions	
11. Have you looked for and found no other seismic conditions that c adversely affect the safety functions of the equipment?	ould Y⊠ N□ U□
Yes we have looked for and found no other seismic conditions the could adversely affect the safety functions of the equipment.	at
Comments (Additional pages may be added as necessary)	
References: Drawings and AWC Drawings: 9321-F-2510, (A200627), Rev 49, Primary Auxiliary bu AWC-023	ilding general arrangement plans.
Evaluated by: Nick Crispell Wigh Cuke Du	Date: <u>10-22-2012</u>
Evaluated by: Nick Crispell  Dan Nuta  Nick Crispell  Dan Nuta	10-22-2012

# ATTACHMENT 9.6 Sheet 4 of 5 Seismic Walkdown Checklist Form Seismic Walkdown Checklist (SWC) SWEL1-092 Equipment ID No. 21CCST Equipment Description 21 COMPONENT COOLING SURGE TNK

### **Photographs**



Note: Overview of tank.



Note: Overview of tank.

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 5 of 5	IP2
Seismic Walkdown Checklist (SWC)SWEL1-092	Status: Y⊠ N□ U□
Equipment ID No. 21CCST	Equip. Class <sup>1</sup> _21
Equipment Description 21 COMPONENT COOLING SURGE TNK	
Note: Typical anchorage to structural steel. Note:	

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 1 of 5	IP2
	Status: Y⊠ N⊟ U⊟
Seismic Walkdown Checklist (SWC) <u>SWEL1-093</u>	
Equipment ID No. 22BAT	Equip. Class <sup>1</sup> _21
Equipment Description BORIC ACID TANK	
Location: Bldg. PAB Floor El. 98'-	0" Room, Area
Manufacturer, Model, Etc. (optional but recommended)	
Instructions for Completing Checklist	
This checklist may be used to document the results of the Seismic SWEL. The space below each of the following questions may be a findings. Additional space is provided at the end of this checklist for	used to record the results of judgments and
Anchorage	
<ol> <li>Is the anchorage configuration verification required (i.e., is of the 50% of SWEL items requiring such verification)?</li> </ol>	the item one Y⊠ N□
The anchorage configuration verification is required.	
2. Is the anchorage free of bent, broken, missing or loose har	rdware? Y⊠ N□ U□ N/A□
Yes the anchorage is free of bent, broken, missing or loose	e hardware.
Is the anchorage free of corrosion that is more than mild so oxidation?	urface Y⊠ N□ U□ N/A□
Yes the anchorage is free of corrosion that is more than moved oxidation.	ild surface
4. Is the anchorage free of visible cracks in the concrete near anchors?	r the Y⊠ N□ U□ N/A□
Yes the anchorage is free of visible cracks in the concrete anchors.	near the

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

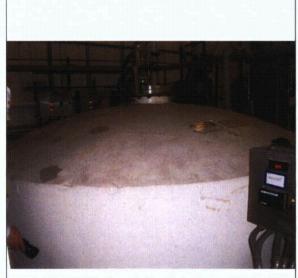
ATTACH	MENT 9.6	EISMIC WALKDOWN CHECKLIST FORM
Sheet 2	2 of 5	IP2
Seisn	nic Walkdown Checklist (SWC) <u>SWEL1-093</u>	Status: Y⊠ N□ U□
Equipr	ment ID No. 22BAT	Equip. Class <sup>1</sup> _21
•	ment Description BORIC ACID TANK	
5.	Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)	Y⊠ N□ U□ N/A□ ch
	Anchorage matches SQUG (SEWS).	
6.	Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	Y⊠ N□ U□
	Yes based on the above anchorage evaluations, the anchorage is free of potentially adverse seismic conditions.	
Intera	ction Effects	
7.	Are soft targets free from impact by nearby equipment or structures?	Y⊠ N□ U□ N/A□
	Yes soft targets are free from impact by nearby equipment or structures.	
8.	Are overhead equipment, distribution systems, ceiling tiles and lightin and masonry block walls not likely to collapse onto the equipment?	g, Y⊠ N□ U□ N/A□
	One fluorescent light is burnt out nearby - not a seismic concern. CR IP2-2012-06354 issued to track resolution.	
9.	Do attached lines have adequate flexibility to avoid damage?	Y⊠ N□ U□ N/A□
	Yes attached lines have adequate flexibility to avoid damage.	
10.	Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	e Y⊠ N□ U□
	Yes based on the above seismic interaction evaluations, the equipme is free of potentially adverse seismic interaction effects.	ent

SEISMIC WALKDOWN CHECKLIST FORM
IP2
Status: Y⊠ N☐ U☐
Equip. Class <sup>1</sup> 21
could Y⊠ N□ U□
pat
uildinggeneral arrangement plans.
Date: 10-22-2012
10-22-2012
,

# ATTACHMENT 9.6 Sheet 4 of 5 Seismic Walkdown CheckList Form Seismic Walkdown Checklist (SWC) SWEL1-093 Equipment ID No. 22BAT SEISMIC WALKDOWN CHECKLIST FORM SEISMIC WALKDOWN CHECKLIST FORM Equip. Class 1 21

Equipment Description BORIC ACID TANK

### **Photographs**

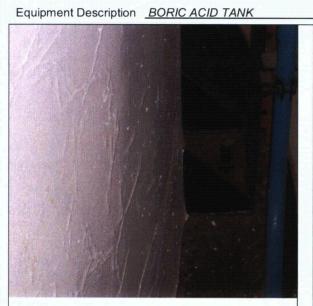


Note: Boric Acid Tank



Note: Typical anchorage.

# ATTACHMENT 9.6 Sheet 5 of 5 Seismic Walkdown CheckList Form Seismic Walkdown Checklist (SWC) SWEL1-093 Equipment ID No. 22BAT Seismic Walkdown Checklist (SWC) SWEL1-093 Equipment ID No. 22BAT



Note: Typical anchorage.



Note: Typical anchorage.

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FOR
Sheet 1 of 5	IP2
Seismic Walk down Checklist (SWC) <u>SWEL1-094</u>	Status: Y⊠ N☐ U☐
Equipment ID No. <u>0021RWST</u>	Equip. Class <sup>1</sup> 21
Equipment Description 21 REFUELING WATER STORAGE TANK	
Location: Bldg. <u>NTF</u> Floor El. <u>82'-0"</u>	Room, Area
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□
The anchorage configuration verification is required.	
2. Is the anchorage free of bent, broken, missing or loose hardware?	Y⊠ N□ U□ N/A□
Yes the anchorage is free of bent, broken, missing or loose hardwa	are.
Is the anchorage free of corrosion that is more than mild surface oxidation?	Y⊠ N□ U□ N/A□
Mild corrosion. Acceptable, not a seismic concern.  Yes the anchorage is free of corrosion that is more than mild surfaction.	ce
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Y□ N⊠ U□ N/A□
Small cracks near bolt nos. 30, 24 & 25. Acceptable, not a seismic concern.	
Significant concrete spalling and numerous cracks near bolt nos. 16,17,18,19. See photos below. CR IP2-2012-06547 issued for tracking.LB-03 issued for resolution	

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

		EISMIC WALKDOWN CHECKLIST FOR
Sheet 2	2 01 5	IP2
Seisn	nic Walk down Checklist (SWC) <u>SWEL1-094</u>	Status: Y⊠ N□ U□
	· · · · · · · · · · · · · · · · · · ·	F. : 01. 1 04
		Equip. Class <sup>1</sup> _21
	nent Description 21 REFUELING WATER STORAGE TANK	
5.	Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)	Y⊠ N□ U□ N/A□ ch
	The anchorage configuration matches drawing 9321-F-1468, Rev 5 and 9321-F-1004, Rev 1.	
6.	Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	Y N U
	No see question 4, and pictures below.	
Intera	ction Effects	
7.	Are soft targets free from impact by nearby equipment or structures?	Y□ N⊠ U□ N/A□
	The tank is very close to the nearby platform steel structure. Refer to AWC-032 for discussion. LB-07 issued to resolve.	
8.	Are overhead equipment, distribution systems, ceiling tiles and lighting and masonry block walls not likely to collapse onto the equipment?	g, Y⊠ N□ U□ N/A□
	Transmission line above the tank. Acceptable due to enough height	
	Yes overhead equipment, distribution systems, ceiling tiles and lightin and masonry block walls are not likely to collapse onto the equipment	
9.	Do attached lines have adequate flexibility to avoid damage?	Y⊠ N□ U□ N/A□
	Yes attached lines have adequate flexibility to avoid damage.	
10.	Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	e Y□ N⊠ U□
	Based on the above seismic interaction evaluations, the equipment is not free of potentially adverse seismic interaction effects.	

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 3 of 5	IP2
	Status: Y⊠ N□ U□
Seismic Walk down Checklist (SWC) <u>SWEL1-094</u>	
Equipment ID No. <u>0021RWST</u>	Equip. Class <sup>1</sup> _21
Equipment Description 21 REFUELING WATER STORAGE TA	NK
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 Y⊠ N□ U□
Yes we have looked for and found no other seismic conditions could adversely affect the safety functions of the equipment	
Comments (Additional pages may be added as necessary)	
References: Drawings and AWC	
Drawings: 9321-F-1468, Rev 5, Primary and refueling water	
9321-F-1004,Rev 1 Plan of the entrance roads	units 1,2& 3
AWC-032	
Evaluated by:Kirit Parikh	Date:
Nick Crispell Wick Crispell	

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 4 of 5

IP2

Status: Y⊠ N□ U□

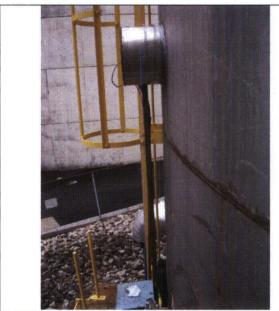
Seismic Walk down Checklist (SWC) SWEL1-094

Equipment ID No. 0021RWST

Equip. Class<sup>1</sup> 21

Equipment Description 21 REFUELING WATER STORAGE TANK

#### **Photographs**



Note: Tank 0021 RWST view.



**Note:** The tank too close to the platform railing

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 5 of 5

IP2

Status: Y⊠ N□ U□

Seismic Walk down Checklist (SWC) SWEL1-094

Equipment ID No. 0021RWST

Equip. Class<sup>1</sup> 21

Equipment Description 21 REFUELING WATER STORAGE TANK



Note: Significant Spalling and cracks near bolts 16 and 17



Note: The tank valve handle almost touching the plateform steel and the cut bracing on the platform legs.

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 1 of 5	IP2
Seismic Walkdown Checklist (SWC) <u>SWEL1-095</u>	Status: Y⊠ N□ U□
Equipment ID No. <u>CST</u>	Equip. Class <sup>1</sup> 21
Equipment Description <u>CONDENSATE STORAGE TANK</u>	
Location: Bldg. <u>CWST</u> Floor El. <u>80'-0"</u>	Room, Area
Manufacturer, Model, Etc. (optional but recommended)	
Instructions for Completing Checklist  This checklist may be used to document the results of the Seismic Walk do SWEL. The space below each of the following questions may be used to refindings. Additional space is provided at the end of this checklist for documents.	ecord the results of judgments and
Anchorage	
1. Is the anchorage configuration verification required (i.e., is the item of the 50% of SWEL items requiring such verification)?	none Y⊠ N□
The anchorage configuration verification is required.	
2. Is the anchorage free of bent, broken, missing or loose hardware?	Y⊠ N□ U□ N/A□
Yes the anchorage is free of bent, broken, missing or loose hardwa	are.
Is the anchorage free of corrosion that is more than mild surface oxidation?	Y⊠ N□ U□ N/A□
Mild corrosion on the bolt surface, Acceptable, no seismic concern	
Yes the anchorage is free of corrosion that is more than mild surfaction.	се
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Y⊠ N□ U□ N/A□
Minor cracks due to weather. Acceptable not a seismic concern.	
Yes the anchorage is free of visible cracks in the concrete near the anchors.	•

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

ATTACH	IMENT 9.6	EISMIC WALKDOWN CHECKLIST FORM
Sheet 2	2 of 5	IP2
0	· W II - O - U - 40WO - OWE 4 00	Status: Y⊠ N□ U□
Seisn	nic Walkdown Checklist (SWC) <u>SWEL1-095</u>	
Equipr	ment ID No. <u>CST</u>	Equip. Class <sup>1</sup> 21
Equipr	ment Description <u>CONDENSATE STORAGE TANK</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.)	Y⊠ N□ U□ N/A□ ch
	The anchorage configuration matches drawing 9321-F-1472-1 Rev 1 and 9321-F-1004-1 Rev 1.	
6.	Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	Y⊠ N□ U□
	Yes based on the above anchorage evaluations, the anchorage is free of potentially adverse seismic conditions.	
Intera	ction Effects	
7.	Are soft targets free from impact by nearby equipment or structures?	Y⊠ N□ U□ N/A□
	Yes soft targets are free from impact by nearby equipment or structures.	
8.	Are overhead equipment, distribution systems, ceiling tiles and lightin and masonry block walls not likely to collapse onto the equipment?	g, Y⊠ N□ U□ N/A□
	Yes overhead equipment, distribution systems, ceiling tiles and lighting and masonry block walls are not likely to collapse onto the equipment	
9.	Do attached lines have adequate flexibility to avoid damage?	Y⊠ N□ U□ N/A□
	Yes attached lines have adequate flexibility to avoid damage.	
10.	Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	e Y⊠ N□ U□
	Yes based on the above seismic interaction evaluations, the equipme is free of potentially adverse seismic interaction effects.	ent

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 3 of 5	IP2
Seismic Walkdown Checklist (SWC)SWEL1-095	Status: Y⊠ N⊟ U⊟
Equipment ID No. <u>CST</u>	Equip Class <sup>1</sup> 21
Equipment Description CONDENSATE STORAGE TANK	
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□
Yes we have looked for and found no other seismic conditions the could adversely affect the safety functions of the equipment.	at
Comments (Additional pages may be added as necessary)	
References: Drawings and AWC Drawings: 9321-F-1472, Rev 1, Condensate water storage tank of 9321-F-1004, Rev 1, Plan of entrance roads units no. AWC-034	
Evaluated by: Kirit Parikh	Date:10/25/2012
Nick Crispell  Nick Crispell	

# ATTACHMENT 9.6 Sheet 4 of 5 Seismic Walkdown CheckList Form Seismic Walkdown Checklist (SWC) SWEL1-095 Equipment ID No. CST Equip. Class 1 21

Equipment Description <u>CONDENSATE STORAGE TANK</u>

### **Photographs**



Note: Condensate storage tank view



Note: Anchorage of the storage tank

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 5 of 5

Seismic Walkdown Checklist (SWC) SWEL1-095

Status: Y⊠ N□ U□

Equipment ID No. CST

Equip. Class<sup>1</sup> 21

Equipment Description <u>CONDENSATE STORAGE TANK</u>



Note: The view above the storage tank.



Note: The soft connections on the storage tank

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 1 of 4	IP2
	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) <u>SWEL1-096</u>	
Equipment ID No. 21FODT	Equip. Class <sup>1</sup> _21
Equipment Description F.O. DAY TANK NO. 21	
Location: Bldg. <u>EDG</u> Floor El. <u>72'-0"</u>	Room, Area
Manufacturer, Model, Etc. (optional but recommended)	
Instructions for Completing Checklist	
This checklist may be used to document the results of the Seismic Walkdo SWEL. The space below each of the following questions may be used to refindings. Additional space is provided at the end of this checklist for document	ecord the results of judgments and
Anchorage	
1. Is the anchorage configuration verification required (i.e., is the item of the 50% of SWEL items requiring such verification)?	one Y⊠ N□
Yes the anchorage configuration verification is required.	
2. Is the anchorage free of bent, broken, missing or loose hardware?	Y⊠ N□ U□ N/A□
Yes the anchorage is free of bent, broken, missing or loose hardwa	are.
Is the anchorage free of corrosion that is more than mild surface oxidation?	Y⊠ N□ U□ N/A□
Yes the anchorage is free of corrosion that is more than mild surfaction.	се
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Y□ N□ U□ N/A⊠
Anchorage is to structural steel not to concrete.	

<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	IP2
	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) <u>SWEL1-096</u>	
Equipment ID No. 21FODT	Equip. Class <sup>1</sup> _21
Equipment Description F.O. DAY TANK NO. 21	
<ol> <li>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.)</li> </ol>	
Anchorage matches calculation 91177-C-02.	
6. Based on the above anchorage evaluations, is the anchorage free potentially adverse seismic conditions?	of Y⊠ N□ U□
Yes based on the above anchorage evaluations, the anchorage is free of potentially adverse seismic conditions.	
Interaction Effects	
7. Are soft targets free from impact by nearby equipment or structure	s? Y⊠ N□ U□ N/A□
Yes soft targets are free from impact by nearby equipment or structures.	
8. Are overhead equipment, distribution systems, ceiling tiles and light and masonry block walls not likely to collapse onto the equipment?	
Yes overhead equipment, distribution systems, ceiling tiles and ligiting and masonry block walls are not likely to collapse onto the equipment.	
9. Do attached lines have adequate flexibility to avoid damage?	Y⊠ N□ U□ N/A□
Yes attached lines have adequate flexibility to avoid damage.	
Based on the above seismic interaction evaluations, is equipment of potentially adverse seismic interaction effects?	free Y⊠ N□ U□
Yes based on the above seismic interaction evaluations, the equip	ment

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 3 of 4	IP2
Seismic Walkdown Checklist (SWC) <u>SWEL1-096</u>	Status: Y⊠ N□ U□
Equipment ID No. 21FODT	Equip. Class <sup>1</sup> _21
Equipment Description F.O. DAY TANK NO. 21	
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□
Fire piping over top of tank is threaded and has sprinkler heads near At time of walk down it was not known if system was a dry or wet system. Leaks could occur due to a sesmic event the would leak or spray water onto tank. Water leaking or spraying on tank is judged acceptable as there are no electrical components on tank. See AW 011 for reference as well as photos below.	•
Comments (Additional pages may be added as necessary)	<del></del>
References: Drawings and AWC. Drawings: 9321-H-2250, Rev 7, Diesel generator building general a AWC-011	arrangement plan.
Evaluated by: Nick Crispell	Date: <u>10-16-2012</u>
Stote	10-16-2012
Dan Nuta	10-16-2012

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 4 of 4

P2

Status: Y⊠ N□ U□

Seismic Walkdown Checklist (SWC) SWEL1-096

Equipment ID No. 21FODT

Equip. Class<sup>1</sup> 21

Equipment Description F.O. DAY TANK NO. 21

### **Photographs**



Note: F.O. Day Tank for 21 EDG



Note: Anchorage of tank.

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 1 of 5	IP2
	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC)SWEL1-097	
Equipment ID No. 21NRHX	Equip. Class <sup>1</sup> _21
Equipment Description NON REGEN HEAT EXCHANGER NO 21	
Location: Bldg. PAB Floor El. 98'-0"	Room, Area
Manufacturer, Model, Etc. (optional but recommended)	
Instructions for Completing Checklist	
This checklist may be used to document the results of the Seismic Walk do 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□
The anchorage configuration verification is required.	
2. Is the anchorage free of bent, broken, missing or loose hardware?	Y⊠ N□ U□ N/A□
Yes the anchorage is free of bent, broken, missing or loose hardwa	re.
Is the anchorage free of corrosion that is more than mild surface oxidation?	Y⊠ N□ U□ N/A□
Yes the anchorage is free of corrosion that is more than mild surfaction.	ee
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Y⊠ N□ U□ N/A□
Yes the anchorage is free of visible cracks in the concrete near the anchors.	

<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	IP2
Seismic Walkdown Checklist (SWC)SWEL1-097	Status: Y⊠ N□ U□
Equipment ID No. 21NRHX	Equip. Class <sup>1</sup> _21
Equipment Description NON REGEN HEAT EXCHANGER NO 21	
<ol> <li>Is the anchorage configuration consistent with plant documents (Note: This question only applies if the item is one of the 50% f an anchorage configuration verification is required.)</li> </ol>	
Anchorage matches SEWS & drawing 9321-F-1169.	
6. Based on the above anchorage evaluations, is the anchorage for potentially adverse seismic conditions?	free of Y⊠ N□ U□
Yes based on the above anchorage evaluations, the anchorage free of potentially adverse seismic conditions.	e is
Interaction Effects	
7. Are soft targets free from impact by nearby equipment or struct	tures? Y⊠ N□ U□ N/A□
Yes soft targets are free from impact by nearby equipment or structures.	
<ol><li>Are overhead equipment, distribution systems, ceiling tiles and and masonry block walls not likely to collapse onto the equipm</li></ol>	
Block wall penetration is seismicly qualified by Computech reports R547.01.	ort
9. Do attached lines have adequate flexibility to avoid damage?	Y⊠ N□ U□ N/A□
Yes attached lines have adequate flexibility to avoid damage.	
10. Based on the above seismic interaction evaluations, is equipm of potentially adverse seismic interaction effects?	ent free Y⊠ N□ U□
Yes based on the above seismic interaction evaluations, the ed	quipment

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM		
Sheet 3 of 5	IP2		
Seismic Walkdown Checklist (SWC) <u>SWEL1-097</u>	Status: Y⊠ N☐ U☐		
Equipment ID No. 21NRHX	Equip. Class <sup>1</sup> _21		
Equipment Description NON REGEN HEAT EXCHANGER NO 21			
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□		
Yes we have looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment.			
Comments (Additional pages may be added as necessary)			
References: Drawings and AWC Drawings:			
9321-F-2510, Rev 49, (A200627), Primary Auxiliary Build 9321-F-1169, Rev 14,(A200109), Primary Auxiliary Build Elevation 98'.			
AWC-025			
Evaluated by: Nick Crispell  Dan Nuta  Nick Crispell  Dan Nuta	Date:		
Dan Nuta  Dan Nuta	10-22-2012		

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 4 of 5

22

Status: Y⊠ N□ U□

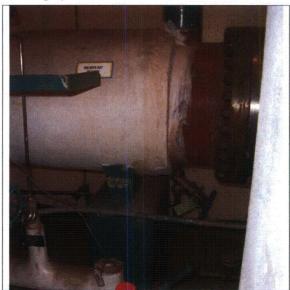
Seismic Walkdown Checklist (SWC) SWEL1-097

Equipment ID No. 21NRHX

Equip. Class<sup>1</sup> 21

Equipment Description NON REGEN HEAT EXCHANGER NO 21

#### **Photographs**



**Note:** South end of Non Regen Heat Exchanger



Note: View of HX from door way into cubical.

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 5 of 5

IP2

Status: Y⊠ N□ U□

Seismic Walkdown Checklist (SWC) SWEL1-097

Equipment ID No. 21NRHX

Equip. Class<sup>1</sup> 21

Equipment Description NON REGEN HEAT EXCHANGER NO 21



Note: North anchorage pedestal of HX.



Note: South anchorage pedestal of HX.

ATTAQUMENT Q 6	SEIGNIC WALKDOWN CHECK IST FORM
ATTACHMENT 9.6 Sheet 1 of 6	SEISMIC WALKDOWN CHECKLIST FORM IP2
oneer i oi v	
Seismic Walkdown Checklist (SWC) SWEL1-098	Status: Y⊠ N⊡ U⊡
·	
Equipment ID No. 21CCHX	Equip. Class <sup>1</sup> _21
Equipment Description CCW HEAT EXCH NO 21	
Location: Bldg. <u>PAB</u> Floor El. <u>80' to 98'</u>	Room, Area
Manufacturer, Model, Etc. (optional but recommended)	
Instructions for Completing Checklist	
This checklist may be used to document the results of the Seismic Walks 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□
The anchorage configuration verification is required.	
2. Is the anchorage free of bent, broken, missing or loose hardware	? Y⊠ N□ U□ N/A□
Yes the anchorage is free of bent, broken, missing or loose hards	ware.
Is the anchorage free of corrosion that is more than mild surface oxidation?	Y⊠ N□ U□ N/A□
Yes the anchorage is free of corrosion t0hat is more than mild su oxidation.	urface
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Y⊠ N□ U□ N/A□
Yes the anchorage is free of visible cracks in the concrete near to anchors.	he

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

<b>А</b> ТТАСНМ	ENT 9.6	EISMIC WALKDOWN CHECKLIST FORM
Sheet 2 c	of 6	IP2
Seismi	c Walkdown Checklist (SWC) <u>SWEL1-098</u>	Status: Y⊠ N□ U□
	, , <del></del>	- 1
Equipme	ent ID No. 21CCHX	Equip. Class¹_21
Equipme	ent Description <u>CCW HEAT EXCH NO 21</u>	
(1	s 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□
A	Anchorage matches SQUG (SEWS).	
	Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	Y⊠ N□ U□
	es based on the above anchorage evaluations, the anchorage is ree of potentially adverse seismic conditions.	
Interacti	ion Effects	
7. A	Are soft targets free from impact by nearby equipment or structures?	Y⊠ N□ U□ N/A□
	On 80' elevation conduit is close to tank with approximately 3/8" gap between tank wall and conduit. Judged ok given tank is a hard target.	
	Are overhead equipment, distribution systems, ceiling tiles and lighting and masonry block walls not likely to collapse onto the equipment?	g, Y⊠ N□ U□ N/A□
o ta	Fluorescent bulbs need wire securing bulb to fixture. One light bulb is out in the area. Judged ok and not to be seismic concern given hard arget tank, valves, and piping in the area. CR IP2-2012-06354 issued track resolution.	
9. 🖸	Do attached lines have adequate flexibility to avoid damage?	Y⊠ N□ U□ N/A□
Y	es attached lines have adequate flexibility to avoid damage.	
	Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	e Y⊠ N□ U□
	es based on the above seismic interaction evaluations, the equipme free of potentially adverse seismic interaction effects	nt

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 3 of 6	IP2
Seismic Walkdown Checklist (SWC) <u>SWEL1-098</u>	Status: Y⊠ N□ U□
Equipment ID No. 21CCHX	Equip. Class <sup>1</sup> 21
Equipment Description <u>CCW HEAT EXCH NO 21</u>	
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□
Yes we have looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment.	t
Comments (Additional pages may be added as necessary)	
References: Drawings and AWC	
Drawings: 9321-F-2510, (A200627), Rev 49, Primary Auxiliary buil	lding general arrangement plans.
9321-F-1169, ( A200109), Rev 14, Primary Auxiliary buil	lding concrete floor plan at elev.
98'	
AWC-023	
Evaluated by: Nick Crispell  Dan Nuta  Nick Crispell  Dan Nuta	Date:10-22-2012
Throng d. Writer	
Dan Nuta	10-22-2012

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 4 of 6

P2

Status: Y⊠ N□ U□

Seismic Walkdown Checklist (SWC) SWEL1-098

Equipment ID No. 21CCHX

Equip. Class<sup>1</sup> 21

Equipment Description <u>CCW HEAT EXCH NO 21</u>

#### **Photographs**



Note: CCW HX on 80' elevation.



**Note:** CCW HX on 80' elevation looking at ceiling.

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 5 of 6

Status: Y⊠ N□ U□

Seismic Walkdown Checklist (SWC) SWEL1-098

Equipment ID No. 21CCHX

Equip. Class<sup>1</sup> 21

Equipment Description CCW HEAT EXCH NO 21



Note:

Typical anchorage on 80' elevation.



Note:

CCW HX on 98' elevation.

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 6 of 6

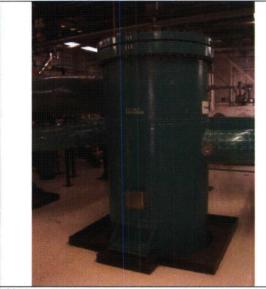
Status: Y⊠ N□ U□

Seismic Walkdown Checklist (SWC) SWEL1-098

Equipment ID No. 21CCHX

Equip. Class<sup>1</sup> 21

Equipment Description CCW HEAT EXCH NO 21



Note:

CCW HX on 98' elevation.



Note: Typical anchorage on 98' elevation.

ATTACHMENT 9.6		SEISMIC WALKDOWN CHECKLIST FOI	RM
Sheet 1 of 4		IP	2
		Status: Y⊠ N□ U□	
Seismic Walkdown Checklist (SWC) <u>SWEL1-099</u>	<del></del>		
Equipment ID No. <u>0022/ACA</u>		Equip. Class <sup>1</sup> 21	_
Equipment Description <u>INST AIR COMP 22 AFTERCOOL</u>	.ER		_
Location: Bldg. <u>CB</u> Floor El.	15'-0"	Room, Area	_
Manufacturer, Model, Etc. (optional but recommended)			_
Instructions for Completing Checklist	-		_
This checklist may be used to document the results of the S SWEL. The space below each of the following questions may findings. Additional space is provided at the end of this checklist.	ay be used to red	cord 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>		one Y□ N⊠	
The item is an in line component.			
2. Is the anchorage free of bent, broken, missing or loc	se hardware?	Y□ N□ U□ N/A⊠	
In line component.			
Is the anchorage free of corrosion that is more than oxidation?	mild surface	Y□ N□ U□ N/A⊠	
In line component.			
4. Is the anchorage free of visible cracks in the concret anchors?	e near the	Y□ N□ U□ N/A⊠	
In line component.			

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

ATTACH	IMENT 9.6	EISMIC WALKDOWN CHECKLIST FORM
Sheet 2	2 of 4	IP2
Seisn	nic Walkdown Checklist (SWC) <u>SWEL1-099</u>	Status: Y⊠ N□ U□
	•	<b>-</b> : 0: 1 0:
	ment ID No. <u>0022IACA</u>	Equip. Class <sup>1</sup> 21
Equip	ment Description <u>INST AIR COMP 22 AFTERCOOLER</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.)	Y□ N□ U□ N/A⊠ ch
	Not applicable since component is in-line.	
6.	Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	Y⊠ N□ U□
	Yes, based on the above anchorage evaluations, the anchorage is free of potentially adverse seismic conditions.	
Intera	ction Effects	
7.	Are soft targets free from impact by nearby equipment or structures?	Y⊠ N□ U□ N/A□
	Yes, soft targets are free from impact by nearby equipment or structures.	
8.	Are overhead equipment, distribution systems, ceiling tiles and lightin and masonry block walls not likely to collapse onto the equipment?	ng, Y⊠ N□ U□ N/A□
	The masonry brick wall was seismic qualified by Computech Report in R547.01. Therefore, overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls are not likely to collapse onto the equipment.	
9.	Do attached lines have adequate flexibility to avoid damage?	Y⊠ N□ U□ N/A□
	Yes, attached lines have adequate flexibility to avoid damage.	
10.	Based on the above seismic interaction evaluations, is equipment fre of potentially adverse seismic interaction effects?	e Y⊠ N□ U□
	Yes, based on the above seismic interaction evaluations, the equipment is free of potentially adverse seismic interaction effects.	

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 3 of 4	IP2
Seismic Walkdown Checklist (SWC) <u>SWEL1-099</u>	Status: Y⊠ N□ U□
Equipment ID No. <u>0022IACA</u>	Equip. Class <sup>1</sup> _21
Equipment Description <u>INST AIR COMP 22 AFTERCOOLER</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□
Yes, we have looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment.	t
Comments (Additional pages may be added as necessary)	
References: Drawings and AWC Drawings: 9321-F-3052, Rev 38, Equipment arrangement Control b AWC-001	ouilding.
Evaluated by: Nick Crispell Wigh Clippe	Date: <u>10/9/12</u>
Stoly.	
Stephen Yuan /	10/9/12
Dan Nuta	
Dan Nuta	10/9/12

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 4 of 4	IP2
Seismic Walkdown Checklist (SWC) SWEL1-09	Status: Y⊠ N□ U□
Equipment ID No. 0022IACA	Equip. Class <sup>1</sup> 21
Equipment Description <u>INST AIR COMP 22 AFTERCOO</u>	OLER
Photographs	
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and the second	
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the survey of th	
Note: Inst Air Comp 22 Aftercoller.	Note:

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 1 of 5	IP2
	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) <u>SWEL1-100</u>	
Equipment ID No. <u>0022EDSAT</u>	Equip. Class <sup>1</sup> 21
Equipment Description <u>START AIR TANK 22DG</u>	
Location: Bldg. <u>EDG</u> Floor El. <u>67'-0"</u>	Room, Area
Manufacturer, Model, Etc. (optional but recommended)	
Instructions for Completing Checklist	
This checklist may be used to document the results of the Seismic Walkdor SWEL. The space below each of the following questions may be used to refindings. Additional space is provided at the end of this checklist for documents.	ecord the results of judgments and
Anchorage	
1. Is the anchorage configuration verification required (i.e., is the item of the 50% of SWEL items requiring such verification)?	one Y⊠ N□
Yes the anchorage configuration verification is required.	
2. Is the anchorage free of bent, broken, missing or loose hardware?	Y⊠ N□ U□ N/A□
Yes the anchorage is free of bent, broken, missing or loose hardwa	re.
Is the anchorage free of corrosion that is more than mild surface oxidation?	Y⊠ N□ U□ N/A□
Minimal surface corrosion on anchors & tank side. Judged acceptal	ole.
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Y⊠ N□ U□ N/A□
Coating is chipped on concrete pedestal and nearby floor. No notice cracks of significance where observed. Acceptable.	able

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

ATTACHMENT 9.6	EISMIC WALKDOWN CHECKLIST FORM
Sheet 2 of 5	- IP2
Seismic Walkdown Checklist (SWC) <u>SWEL1-100</u>	Status: Y⊠ N□ U□
Equipment ID No. 0022EDSAT	Equip. Class <sup>1</sup> _21
Equipment Description <u>START AIR TANK 22DG</u>	
5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for white an anchorage configuration verification is required.)	Y⊠ N□ U□ N/A□ ch
Anchorage matches SQUG (SEWS).	
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	Y⊠ N□ U□
Yes based on the above anchorage evaluations, the anchorage is free of potentially adverse seismic conditions.	
Interaction Effects	
7. Are soft targets free from impact by nearby equipment or structures?	Y⊠ N□ U□ N/A□
Conduits and unistruts near by tank are close to touching tank. 1/8" to 1/2" gap on some of the nearby conduits. All occurences are judged acceptable given robustness of conduits and the tank.	0
8. Are overhead equipment, distribution systems, ceiling tiles and lightin and masonry block walls not likely to collapse onto the equipment?	ng, Y⊠ N□ U□ N/A□
Yes overhead equipment, distribution systems, ceiling tiles and lighting and masonry block walls are not likely to collapse onto the equipment	
9. Do attached lines have adequate flexibility to avoid damage?	Y⊠ N□ U□ N/A□
Yes attached lines have adequate flexibility to avoid damage.	
10. Based on the above seismic interaction evaluations, is equipment fre of potentially adverse seismic interaction effects?	e Y⊠ N□ U□
Yes based on the above seismic interaction evaluations, the equipme is free of potentially adverse seismic interaction effects.	ent

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 3 of 5	IP2
Seismic Walkdown Checklist (SWC)SWEL1-100	Status: Y⊠ N⊟ U⊟
Equipment ID No. <u>0022EDSAT</u>	Equip. Class <sup>1</sup> _21
Equipment Description START AIR TANK 22DG	
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□
Fire piping above uses threaded fittings that could leak and spray d to a seismic event. At time of walk down it was not known if the systems a dry or wet system. If they leak water the tank would remain operable.	
Comments (Additional pages may be added as necessary)	
References: Drawings and AWC	
Drawings: 9321-H-2250, Rev 7,Diesel generator building general a 9321-H-2251, Rev 5, Diesel generator building general a	· ,
AWC-011	arrangement sections.
Stoly	
Evaluated by: Stephen Yuan	Date:10-16-2012
Nick Crispell	10-16-2012
Trages d. Water	
Dan Nuta	<u> 10-16-2012</u>

# ATTACHMENT 9.6 Sheet 4 of 5 Seismic Walkdown Checklist Form Seismic Walkdown Checklist (SWC) SWEL1-100 Equipment ID No. 0022EDSAT Equip. Class 21

### **Photographs**



Equipment Description START AIR TANK 22DG

Note: EDG starting air tank



Note: Base plate for starting air tank

### ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 5 of 5

IP2

Status: Y⊠ N□ U□

Seismic Walkdown Checklist (SWC) SWEL1-100

Equipment ID No. 0022EDSAT

Equip. Class<sup>1</sup> 21

Equipment Description START AIR TANK 22DG



Note:

Typical anchor bolt for 22EDSAT



Note:

Typical anchor bolt for 22EDSAT

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 1 of 5	IP2
Seismic Walkdown Checklist (SWC) <u>SWEL2-001</u>	Status: Y⊠ N⊡ U⊡
Equipment ID No. 21RWPP	Equip. Class <sup>1</sup> _5
Equipment Description Refueling Water Purification Pump 21 and Motor	r
Location: Bidg. PAB Floor El. 68	Room, Area
Manufacturer, Model, Etc. (optional but recommended)	
Instructions for Completing Checklist	
This checklist may be used to document the results of the Seismic Walkd SWEL. The space below each of the following questions may be used to findings. Additional space is provided at the end of this checklist for document	record the results of judgments and
Anchorage	
<ol> <li>Is the anchorage configuration verification required (i.e., is the iten of the 50% of SWEL items requiring such verification)?</li> </ol>	n one Y⊠ N□
The anchorage configuration verification is required.	
2. Is the anchorage free of bent, broken, missing or loose hardware?	Y⊠ N□ U□ N/A□
Yes the anchorage is free of bent, broken, missing or loose hardw	vare.
Is the anchorage free of corrosion that is more than mild surface oxidation?	Y⊠ N□ U□ N/A□
Yes the anchorage is free of corrosion that is more than mild surfa oxidation.	ace
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Y⊠ N□ U□ N/A□
Yes the anchorage is free of visible cracks in the concrete near the anchors.	e

<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	IP2
Seismic Walkdown Checklist (SWC) SWEL2-001	Status: Y⊠ N□ U□
Equipment ID No. 21RWPP	Equip. Class <sup>1</sup> _ <u>5</u>
Equipment Description Refueling Water Purification Pump 21 and Moto.	<u>r</u>
5. Is the anchorage configuration consistent with plant documentatio (Note: This question only applies if the item is one of the 50% for van anchorage configuration verification is required.)	
Anchorage matches drawing 9321-F-1167 & 9321-F-1166.	
6. Based on the above anchorage evaluations, is the anchorage free potentially adverse seismic conditions?	of Y⊠ N□ U□
Yes based on the above anchorage evaluations, the anchorage is free of potentially adverse seismic conditions.	
Interaction Effects	
7. Are soft targets free from impact by nearby equipment or structure	es? Y⊠ N□ U□ N/A□
Yes soft targets are free from impact by nearby equipment or structures.	
Are overhead equipment, distribution systems, ceiling tiles and ligiting and masonry block walls not likely to collapse onto the equipment	
Yes overhead equipment, distribution systems, ceiling tiles and lig and masonry block walls are not likely to collapse onto the equipm	
9. Do attached lines have adequate flexibility to avoid damage?	Y⊠ N□ U□ N/A□
Yes attached lines have adequate flexibility to avoid damage.	
Based on the above seismic interaction evaluations, is equipment of potentially adverse seismic interaction effects?	free Y⊠ N□ U□
Yes based on the above seismic interaction evaluations, the equipulation is free of potentially adverse seismic interaction effects.	oment

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 3 of 5	iP2
Seismic Walkdown Checklist (SWC) SWEL2-001	Status: Y⊠ N□ U□
Equipment ID No. 21RWPP	Equip. Class <sup>1</sup> _5
Equipment Description Refueling Water Purification Pump 21 and Motor	
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□
Yes we have looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment.	
Comments (Additional pages may be added as necessary)	
References: Drawings and AWC Drawings: 9321-F-1167, Rev 24, (A200107) Primary Auxiliary buildi. elev. 59'-0" and 68'-0". 9321-F-1166, Rev 6, (A200106), Primary Auxiliary buildir. elev. 15'-0", 35'-0" and 42'-0".	
AWC-019	
Evaluated by: Nick Crispell	Date: <u>10-19-2012</u>
Paul Huebsch	10-19-2012

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 4 of 5	IP2
Seismic Walkdown Checklist (SWC) SWEL2-001	Status: Y⊠ N□ U□
Equipment ID No. 21RWPP	Equip. Class <sup>1</sup> _5
Equipment Description Refueling Water Purification Pump 21 and Motor	

### **Photographs**



Note: 21RWPP



Note: 21RWPP

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FOR
Sheet 5 of 5	IP2
Seismic Walkdown Checklist (SWC) <u>SWEL2-001</u>	Status: Y⊠ N□ U□
Equipment ID No. 21RWPP	Equip. Class <sup>1</sup> 5



Note: Typical anchorage



Note: Typical anchorage

ATTACHMENT 9.6			SEISMIC WALKDOWN CHECKLIST FORM
Sheet 1 of 4			IP2
			Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) <u>SWE</u>	EL2-002		
Equipment ID No. 21SFPP			Equip. Class <sup>1</sup> _5
Equipment Description Spent Fuel Pit Pump 21 a	and Motor		
Location: Bldg. FSB F	loor El.	<u>70'-0"</u>	Room, Area
Manufacturer, Model, Etc. (optional but recommendation	ded)		
Instructions for Completing Checklist			
This checklist may be used to document the results SWEL. The space below each of the following quefindings. Additional space is provided at the end of	stions may	y be used to re	cord the results of judgments and
Anchorage  1. Is the anchorage configuration verification r of the 50% of SWEL items requiring such verification.			one Y⊠ N□
The anchorage configuration verification is	required.		
2. Is the anchorage free of bent, broken, missi	ing or loos	e hardware?	Y⊠ N□ U□ N/A□
Yes the anchorage is free of bent, broken, i	missing or	loose hardwar	е.
Is the anchorage free of corrosion that is mooxidation?	ore than m	nild surface	Y⊠ N□ U□ N/A□
Yes the anchorage is free of corrosion that oxidation.	is more th	an mild surface	•
4. Is the anchorage free of visible cracks in the anchors?	e concrete	near the	Y⊠ N□ U□ N/A□
Yes the anchorage is free of visible cracks anchors.	in the con	crete near the	

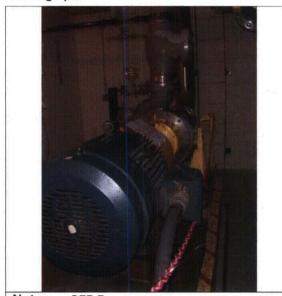
<sup>&</sup>lt;sup>1</sup> Enter the equipment class name from EPRI 1025286, Appendix B: Classes of Equipment.

ATTACH	IMENT 9.6	EISMIC WALKDOWN CHECKLIST FORM
Sheet 2	2 of 4	IP2
Seisn	nic Walkdown Checklist (SWC) <u>SWEL2-002</u>	Status: Y⊠ N□ U□
	· · · · · · · · · · · · · · · · · · ·	Equip. Class <sup>1</sup> _5
• •		
	ment Description Spent Fuel Pit Pump 21 and Motor	
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□ ch
	Anchorage matches drawing 9321-F-1197.	
6.	Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	Y⊠ N□ U□
	Yes the anchorage is free of visible cracks in the concrete near the anchors.	
<u>Intera</u>	ction Effects	
7.	Are soft targets free from impact by nearby equipment or structures?	Y⊠ N□ U□ N/A□
	Yes soft targets are free from impact by nearby equipment or structures.	
8.	Are overhead equipment, distribution systems, ceiling tiles and lightin and masonry block walls not likely to collapse onto the equipment?	g, Y□ N⊠ U□ N/A□
	Light cage nearby looks to be cross threaded (Typical 3 lights). Missinglass dome inside cage (2 lights). CR IP2-2012-06744 tracks resolution of lighting issue.	
	Masonry block wall next to the SFP exchanger.	
9.	Do attached lines have adequate flexibility to avoid damage?	Y⊠ N□ U□ N/A□
	Yes overhead equipment, distribution systems, ceiling tiles and lighting and masonry block walls are not likely to collapse onto the equipment	
10.	Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	e Y⊠ N□ U□
	Yes based on the above seismic interaction evaluations, the equipme is free of potentially adverse seismic interaction effects.	ent

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 3 of 4	IP2
Seismic Walkdown Checklist (SWC) SWEL2-002	Status: Y⊠ N□ U□
Equipment ID No. 21SFPP	Equip. Class <sup>1</sup> _5
Equipment Description Spent Fuel Pit Pump 21 and Motor	
Other Adverse Conditions	
11. Have you looked for and found no other seismic conditions that can adversely affect the safety functions of the equipment?	ould Y⊠N□U□
Yes we have looked for and found no other seismic conditions the could adversely affect the safety functions of the equipment.	at
Comments (Additional pages may be added as necessary)	
Pump has a boric acid leak showing signs under impeller as well a by work order tags in the area. Label fell off.	as valves. Boric acid will be resolved
Minor corrosion on structural beams overhead. No structural impa	act.
References: Drawings and AWC Drawings: 9321-F-2514, Rev 19,Fuel storage building general ar elevations,Unit 2. 9321-F-1197, Rev 8, (A200137), Fuel storage building AWC-007	
Evaluated by: Stephen Yuan	Date:10/12/12
Nick Crispell  Nick Crispell  Dan Nuta	10/12/12
Dan Nuto	40,40,40
Dan Nuta V	10/12/12

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 4 of 4	IP2
Seismic Walkdown Checklist (SWC) <u>SWEL2-002</u>	Status: Y⊠ N□ U□
Equipment ID No. 21SFPP	Equip. Class <sup>1</sup> 5
Equipment Description Spent Fuel Pit Pump 21 and Motor	

## **Photographs**



Note: SFP Pump



Note: SFP Pump

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 1 of 5	IP2
Seismic Walkdown Checklist (SWC)SWEL2-003	Status: Y⊠ N□ U□
Equipment ID No. 22SFPP	Equip. Class <sup>1</sup> _5
Equipment Description Spent Fuel Pit Pump 22 and Motor	
Location: Bldg. FSB Floor El. 70'-0"	Room, Area
Manufacturer, Model, Etc. (optional but recommended)	
Instructions for Completing Checklist	
This checklist may be used to document the results of the Seismic Walkd SWEL. The space below each of the following questions may be used to findings. Additional space is provided at the end of this checklist for document	record the results of judgments and
Anchorage	
<ol> <li>Is the anchorage configuration verification required (i.e., is the iten of the 50% of SWEL items requiring such verification)?</li> </ol>	n one Y⊠ N□
The anchorage configuration verification is required.	
2. Is the anchorage free of bent, broken, missing or loose hardware?	Y⊠ N□ U□ N/A□
Yes the anchorage is free of bent. broken, missing or loose hardw	vare.
Is the anchorage free of corrosion that is more than mild surface oxidation?	Y⊠ N□ U□ N/A□
Yes the anchorage is free of corrosion that is more than mild surfa oxidation.	ace
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Y⊠ N□ U□ N/A□
Yes the anchorage is free of visible cracks in the concrete near the anchors.	е

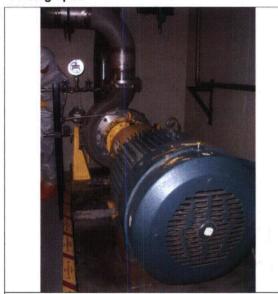
<sup>&</sup>lt;sup>1</sup> Enter the equipment class name from EPRI 1025286, Appendix B: Classes of Equipment.

Attachment 9.6	EISMIC WALKDOWN CHECKLIST FORM
Sheet 2 of 5	IP2
Seismic Walkdown Checklist (SWC) <u>SWEL2-003</u>	Status: Y⊠ N□ U□
Equipment ID No. 22SFPP	Equip. Class <sup>1</sup> _5
Equipment Description Spent Fuel Pit Pump 22 and Motor	
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□ ch
Anchorage matches drawing 9321-1197.	
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	Y⊠ N□ U□
Yes based on the above anchorage evaluations, the anchorage is free of potentially adverse seismic conditions.	
Interaction Effects	
7. Are soft targets free from impact by nearby equipment or structures?	Y⊠ N□ U□ N/A□
Yes soft targets are free from impact by nearby equipment or structures.	
8. Are overhead equipment, distribution systems, ceiling tiles and lightin and masonry block walls not likely to collapse onto the equipment?	g, Y⊠ N□ U□ N/A□
Yes overhead equipment, distribution systems, ceiling tiles and lighting and masonry block walls are not likely to collapse onto the equipment	
9. Do attached lines have adequate flexibility to avoid damage?	Y⊠ N□ U□ N/A□
Yes attached lines have adequate flexibility to avoid damage.	
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	∍ Y⊠ N□ U□
Yes based on the above seismic interaction evaluations, the equipme is free of potentially adverse seismic interaction effects.	nt

ATTACHMENT 9.6 SEIS	MIC WALK	DOWN CHECKLIST FORM
Sheet 3 of 5		IP2
Seismic Walkdown Checklist (SWC) <u>SWEL2-003</u>	Statu	ıs: Y⊠ N□ U□
Equipment ID No. 22SFPP Eq	uip. Class	1 5
Equipment Description Spent Fuel Pit Pump 22 and Motor		
Other Adverse Conditions		
11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment?	Y⊠ N[	□∪□
Yes we have looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment.		
Comments (Additional pages may be added as necessary)		
Pump has a boric acid leak showing signs under impeller, as well as val WRT IP2-06-WAJ-24968 per tag near leak. See photos below. This is no significant boric acid corosion was observed.		
References: Drawings and AWC Drawings: 9321-F-1197(A200137) Rev 8, Fuel storage building concrete AWC-007	e details sl	neet-2
Evaluated by: Stephen Yuan	_ Date: _	10/12/12
Nick Crispell Nick Crispell		10/12/12
Nick Crispell  Nick Crispell  Dan Nuta		10/12/12

# ATTACHMENT 9.6 Sheet 4 of 5 Seismic Walkdown Checklist Form Status: Y N U Seismic Walkdown Checklist (SWC) SWEL2-003 Equipment ID No. 22SFPP Equip. Class 5

### **Photographs**



Equipment Description Spent Fuel Pit Pump 22 and Motor

Note:

22SFPP



BORIC ACID LEAK

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 5 of 5	IP2
Seismic Walkdown Checklist (SWC) SWEL2-00	Status: Y⊠ N□ U□
Equipment ID No. 22SFPP	Equip. Class <sup>1</sup> _5
Equipment Description Spent Fuel Pit Pump 22 and Mo	
Note:  BORIC ACID LEAK	Note:  BORIC ACID LEAK

ATTACHMENT 9.6		SEIS	MIC WALKDOWN CHECKLIST FORM
Sheet 1 of 4	-		IP2
Seismic Walkdown Checklist (SWC) _	SWFI 2-004		Status: Y⊠ N□ U□
Equipment ID No. 21SFPHX	OVIELE-004	—— Fo	quip. Class <sup>1</sup> _ <i>21</i>
Equipment Description Spent Fuel Pit Hea	t Exchanger		
Location: Bldg. FSB	Floor El.	<u>80</u> Ro	oom, Area
Manufacturer, Model, Etc. (optional but reco	mmended) _		
Instructions for Completing Checklist This checklist may be used to document the SWEL. The space below each of the following findings. Additional space is provided at the	ng questions ma	y be used to record	the results of judgments and
Anchorage			
Is the anchorage configuration verific of the 50% of SWEL items requiring			Y⊠ N□
The anchorage configuration verifica	tion is required.		
2. Is the anchorage free of bent, broker	n, missing or loo	se hardware?	Y⊠ N□ U□ N/A□
Yes the anchorage is free of bent, br	oken, missing o	r loose hardware.	
Is the anchorage free of corrosion the oxidation?	at is more than I	mild surface	Y⊠ N□ U□ N/A□
Yes the anchorage is free of corrosic oxidation.	on that is more t	han mild surface	
4. Is the anchorage free of visible crack anchors?	s in the concret	e near the	Y⊠ N□ U□ N/A□
Yes the anchorage is free of visible of anchors.	cracks in the cor	ncrete near the	
ø			

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

ATTACH	MENT 9.6	EISMIC WALKDOWN CHECKLIST FORN
Sheet 2	? of 4	IP2
Seism	nic Walkdown Checklist (SWC) <u>SWEL2-004</u>	Status: Y⊠ N□ U□
Equipn	nent ID No. 21SFPHX	Equip. Class <sup>1</sup> 21
Equipn	nent Description <u>Spent Fuel Pit Heat Exchanger</u>	
5.	Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for whi an anchorage configuration verification is required.)	Y⊠ N□ U□ N/A□ ch
	Anchorage matches drawing 9321-F-1197.	
6.	Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	Y⊠ N□ U□
	Yes based on the above seismic interaction evaluations, the equipment is free of potentially adverse seismic interaction effects.	
Interac	ction Effects	
7.	Are soft targets free from impact by nearby equipment or structures?	Y⊠ N□ U□ N/A□
	Yes soft targets are free from impact by nearby equipment or structures.	
8.	Are overhead equipment, distribution systems, ceiling tiles and lightin and masonry block walls not likely to collapse onto the equipment?	g, Y□ N⊠ U□ N/A□
	Fluorescent bulbs need to be secured by wires. CR IP2-2012-06741 tracks the resolution. Falling bulb would break small diameter tubes running to heat exchanger in seismic event.	
	Masonry wall is seismically qualified by computech report R547.01 per SQUG SEWS.	er
9.	Do attached lines have adequate flexibility to avoid damage?	Y⊠ N□ U□ N/A□
	Yes attached lines have adequate flexibility to avoid damage.	
10.	Based on the above seismic interaction evaluations, is equipment fre of potentially adverse seismic interaction effects?	e Y⊠ N□ U□
	Yes based on the above seismic interaction evaluations, the equipme is free of potentially adverse seismic interaction effects.	ent

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 3 of 4	IP2
Seismic Walkdown Checklist (SWC) <u>SWEL2-004</u>	Status: Y⊠ N☐ U☐
Equipment ID No. 21SFPHX	Equip. Class <sup>1</sup> _21
Equipment Description Spent Fuel Pit Heat Exchanger	
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□
Tubing (1/4")runing to CCW-4 is vibrating significantly. Its unsupport span length is approximately 6'. CR IP2-2012-06753 track the resolution.	ted
Comments (Additional pages may be added as necessary)  One of the fluorescent bulb above is out. Needs to be replaced.	
References: Drawings and AWC Drawings:9321-F-2514(A200629) Rev 19, Fuel storage building ger elevations. 9321-F-1197(A200137) Rev 8, Fuel storage building concre AWC-008	
Evaluated by: Nick Crispell	Date:
Stephen Yuan	
Dan Nuta	10/12/12

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 4 of 4	IP2
Seismic Walkdown Checklist (SWC) <u>SWEL2-004</u>	Status: Y⊠ N□ U□
Equipment ID No. 21SFPHX	Equip. Class <sup>1</sup> 21
Equipment Description Spent Fuel Pit Heat Exchanger	

## **Photographs**



Note:

21SFHPX



ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 1 of 7	IP2
	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) <u>SWEL2-005</u>	
Equipment ID No. <u>SFPBH</u>	Equip. Class <sup>1</sup> 0
Equipment Description Spent Fuel Pit Bridge Crane	*****
Location: Bldg. <u>FSB</u> Floor El. <u>95'-0"</u>	Room, Area
Manufacturer, Model, Etc. (optional but recommended)	
Instructions for Completing Checklist	
This checklist may be used to document the results of the Seismic Walkd SWEL. The space below each of the following questions may be used to findings. Additional space is provided at the end of this checklist for document	record the results of judgments and
Anchorage	
<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⊠
The anchorage configuration verification is not required.	
2. Is the anchorage free of bent, broken, missing or loose hardware?	Y⊠ N□ U□ N/A□
Yes the anchorage is free of bent, broken, missing or loose hardw	vare.
Is the anchorage free of corrosion that is more than mild surface oxidation?	Y⊠ N□ U□ N/A□
Yes the anchorage is free of corrosion that is more than mild surfa oxidation.	асе
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Y⊠ N□ U□ N/A□
Yes the anchorage is free of visible cracks in the concrete near the anchors.	e

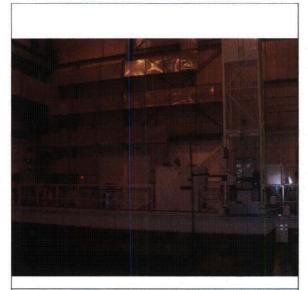
<sup>&</sup>lt;sup>1</sup> Enter the equipment class name from EPRI 1025286, Appendix B: Classes of Equipment.

	EISMIC WALKDOWN CHECKLIST FORM
Sheet 2 of 7	IP2
	Status: Y⊠ N⊡ U⊡
Seismic Walkdown Checklist (SWC) <u>SWEL2-005</u>	
Equipment ID No. <u>SFPBH</u>	Equip. Class <sup>1</sup> _0
Equipment Description Spent Fuel Pit Bridge Crane	
<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□
Not applicable since component is not part of the anchorage configuration verification.	
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	Y⊠ N□ U□
Yes based on the above anchorage evaluations, the anchorage is free of potentially adverse seismic conditions.	
Interaction Effects	
7. Are soft targets free from impact by nearby equipment or structures?	Y⊠ N□ U□ N/A□
Yes soft targets are free from impact by nearby equipment or structures.	
8. Are overhead equipment, distribution systems, ceiling tiles and lightin and masonry block walls not likely to collapse onto the equipment?	g, Y⊠ N□ U□ N/A□
Yes overhead equipment, distribution systems, ceiling tiles and lighting and masonry block walls are not likely to collapse onto the equipment	
9. Do attached lines have adequate flexibility to avoid damage?	Y⊠ N□ U□ N/A□
Yes attached lines have adequate flexibility to avoid damage.	
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	e Y⊠ N□ U□
Yes based on the above seismic interaction evaluations, the equipme is free of potentially adverse seismic interaction effects.	ent

Seismic Walkdown Checklist (SWC) SWEL2-005  Equipment ID No. SFPBH Equipment Description Spent Fuel Pit Bridge Crane  Other Adverse Conditions  11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment?  Yes we have looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment.  Comments (Additional pages may be added as necessary)  References: Drawings and AWC  Drawings: 9321-F-2514, Rev 19, Fuel storage building general arrangement plans and elevations (Unit no. 2).  AWC-020	SEISMIC WALKDOWN CHECKLIST FORN
Equipment ID No. SFPBH Equipment Description Spent Fuel Pit Bridge Crane  Other Adverse Conditions  11. Have you looked for and found no other seismic conditions that could Y⊠ N□ U□ adversely affect the safety functions of the equipment?  Yes we have looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment.  Comments (Additional pages may be added as necessary)  References: Drawings and AWC  Drawings: 9321-F-2514, Rev 19, Fuel storage building general arrangement plans and elevations (Unit no. 2).	IP2
Equipment ID No. SFPBH Equipment Description Spent Fuel Pit Bridge Crane  Other Adverse Conditions  11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment?  Yes we have looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment.  Comments (Additional pages may be added as necessary)  References: Drawings and AWC  Drawings: 9321-F-2514, Rev 19, Fuel storage building general arrangement plans and elevations (Unit no. 2).	Status: Y⊠ N□ U□
Other Adverse Conditions  11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment?  Yes we have looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment.  Comments (Additional pages may be added as necessary)  References: Drawings and AWC  Drawings: 9321-F-2514, Rev 19, Fuel storage building general arrangement plans and elevations (Unit no. 2).	<u>.2-005</u>
Other Adverse Conditions  11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment?  Yes we have looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment.  Comments (Additional pages may be added as necessary)  References: Drawings and AWC  Drawings: 9321-F-2514, Rev 19, Fuel storage building general arrangement plans and elevations (Unit no. 2).	Equip. Class <sup>1</sup> _0
11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment?  Yes we have looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment.  Comments (Additional pages may be added as necessary)  References: Drawings and AWC  Drawings: 9321-F-2514, Rev 19, Fuel storage building general arrangement plans and elevations (Unit no. 2).	9
Adversely affect the safety functions of the equipment?  Yes we have looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment.  Comments (Additional pages may be added as necessary)  References: Drawings and AWC  Drawings: 9321-F-2514, Rev 19, Fuel storage building general arrangement plans and elevations (Unit no. 2).	
Comments (Additional pages may be added as necessary)  References: Drawings and AWC  Drawings: 9321-F-2514, Rev 19, Fuel storage building general arrangement plans and elevations (Unit no. 2).	
References: Drawings and AWC  Drawings: 9321-F-2514, Rev 19, Fuel storage building general arrangement plans and elevations  (Unit no. 2).	
Drawings: 9321-F-2514, Rev 19, Fuel storage building general arrangement plans and elevations (Unit no. 2).	essary)
,	e building general arrangement plans and elevations
Evaluated by: Paul Huebsch Date: 10-19-2012	Date:10-19-2012
Nick Crispell 10-19-2012	Hepau 10-19-2012

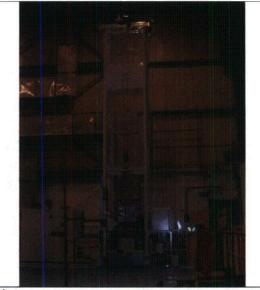
## ATTACHMENT 9.6 Sheet 4 of 7 Seismic Walkdown CheckList Form Seismic Walkdown Checklist (SWC) SWEL2-005 Equipment ID No. SFPBH Equip. Class 1 0

### **Photographs**



Equipment Description Spent Fuel Pit Bridge Crane

Note: Spent Fuel Pit Bridge Crane.

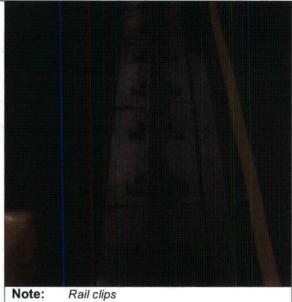


Note: Tower on Spent Fuel Pit Bridge Crane.

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 5 of 7	IP2
Seismic Walkdown Checklist (SWC) <u>SWEL2-005</u>	Status: Y⊠ N□ U□
Equipment ID No. SFPBH	Equip. Class <sup>1</sup> 0



Note: Side view of Spent Fuel Pit Bridge Crane



### ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 6 of 7

2

Status: Y⊠ N□ U□

Seismic Walkdown Checklist (SWC) SWEL2-005

Equipment ID No. SFPBH

Equip. Class<sup>1</sup> 0

Equipment Description Spent Fuel Pit Bridge Crane



Note: Top of mast.



Note: Bottom of mast and operator platform.

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 7 of 7

IP2

Status: Y⊠ N□ U□

Seismic Walkdown Checklist (SWC) SWEL2-005

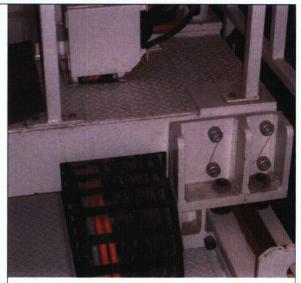
Equipment ID No. SFPBH

Equip. Class<sup>1</sup> 0

Equipment Description Spent Fuel Pit Bridge Crane



**Note:** Mast uplift bracket so mast will not topple over into the SFP do to a seismic event.



**Note:** Mast uplift bracket so mast will not topple over into the SFP do to a seismic event.

ATTACHMENT 9.6		SEISMIC WALKDOWN CHECKLIST FORM
Sheet 1 of 5		IP2
Seismic Walkdown Checklist (SWC) SWEL2-00	16	Status: Y⊠ N□ U□
Equipment ID No. 40TFSBH		Equip. Class <sup>1</sup> 1
Equipment Description Fuel Storage Building 40/5 Ton Co	<u> Crane</u>	
Location: Bldg. FSB Floor El.	95'-0"	Room, Area
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 r findings. Additional space is provided at the end of this ch	may be used to red	cord 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>		one Y□ N⊠
No, the anchorage configuration verification is not	required.	
2. Is the anchorage free of bent, broken, missing or le	oose hardware?	Y⊠ N□ U□ N/A□
There are no visible defects.		
Is the anchorage free of corrosion that is more that oxidation?	n mild surface	Y⊠ N□ U□ N/A□
There are no visible defects.		
4. Is the anchorage free of visible cracks in the concranchors?	ete near the	Y⊠ N□ U□ N/A□
Yes, the anchorage is free of visible cracks in the canchor.	concrete near the	

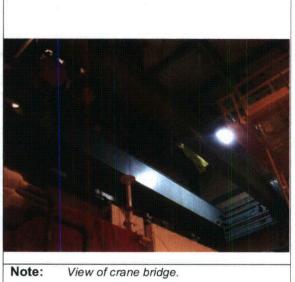
<sup>&</sup>lt;sup>1</sup> Enter the equipment class name from EPRI 1025286, Appendix B: Classes of Equipment.

ATTACHMENT 9.6 SEI	SMIC WALKDOWN CHECKLIST FORM
Sheet 2 of 5	IP2
	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) <u>SWEL2-006</u>	
Equipment ID No. <u>40TFSBH</u> E	quip. Class <sup>1</sup> _1
Equipment Description Fuel Storage Building 40/5 Ton Crane	
<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⊠
Not applicable since component is not part of the anchorage configuration verification.	
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	Y_ N_ U_
Yes based on the above anchorage evaluations, the anchorage is free of potentially adverse seismic conditions.	
Interaction Effects	
7. Are soft targets free from impact by nearby equipment or structures?	Y□ N□ U□ N/A⊠
Not a soft target.	
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□
Yes overhead equipment, distribution systems, ceiling tiles and lighting and masonry block walls are not likely to collapse onto the equipment.	,
9. Do attached lines have adequate flexibility to avoid damage?	Y⊠ N□ U□ N/A□
Yes attached lines have adequate flexibility to avoid damage.	
Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	Y⊠ N□ U□
Yes based on the above seismic interaction evaluations, the equipment is free of potentially adverse seismic interaction effects.	t

IP2
Status: Y⊠ N⊡ U⊡
Equip. Class <sup>1</sup> _1
ould Y⊠ N□ U□
at
elevations (Unit 2).
raming plan at roof crane girders
Date: <u>10/19/2012</u>

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 4 of 5	IP2
Seismic Walkdown Checklist (SWC) SWEL2-006	Status: Y⊠ N□ U□
Equipment ID No. 40TFSBH	Equip. Class <sup>1</sup> 1
Equipment Description Fuel Storage Building 40/5 Ton Crane	
Photographs	· ·
	1

Note: View of trolley.



ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 5 of 5	IP2
Seismic Walkdown Checklist (SWC) SWEL2-006	Status: Y⊠ N□ U□
Equipment ID No. 40TFSBH	Equip. Class <sup>1</sup> 1
Equipment Description Fuel Storage Building 40/5 Ton Crane	H.
Note: General roof framing and diagphram was inspected along with building walls.	

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 1 of 5	IP2
	Status: Y⊠ N⊟ U⊟
Seismic Walkdown Checklist (SWC) <u>SWEL2-007</u>	
Equipment ID No. <u>110TFSB</u>	Equip. Class <sup>1</sup> _0
Equipment Description <u>Ederer Crane (Dry Fuel Storage)</u>	
Location: Bldg. <u>FSB</u> Floor El. <u>95'-0"</u>	Room, Area
Manufacturer, Model, Etc. (optional but recommended)	
Instructions for Completing Checklist	
This checklist may be used to document the results of the Seismic Walkdo SWEL. The space below each of the following questions may be used to refindings. Additional space is provided at the end of this checklist for document	ecord the results of judgments and
Anchorage	
1. Is the anchorage configuration verification required (i.e., is the item of the 50% of SWEL items requiring such verification)?	one Y□ N⊠
The anchorage configuration verification is not required.	
2. Is the anchorage free of bent, broken, missing or loose hardware?	Y⊠ N□ U□ N/A□
Yes the anchorage is free of bent, broken, missing or loose hardwa	are.
Is the anchorage free of corrosion that is more than mild surface oxidation?	Y⊠ N□ U□ N/A□
Yes the anchorage is free of corrosion that is more than mild surfaction.	ce
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Y⊠ N□ U□ N/A□
Yes the anchorage is free of visible cracks in the concrete near the anchors.	

<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	
Sheet 2 of 5	IP2
Seismic Walkdown Checklist (SWC) <u>SWEL2-007</u>	Status: Y⊠ N□ U□
Equipment ID No. <u>110TFSB</u>	Equip. Class <sup>1</sup> _0
Equipment Description Ederer Crane (Dry Fuel Storage)	
<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⊠ ch
Not applicable since component is not part of the anchorage configuration verification.	
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	Y⊠ N□ U□
Yes based on the above anchorage evaluations, the anchorage is free of potentially adverse seismic conditions.	
Interaction Effects	
7. Are soft targets free from impact by nearby equipment or structures?	Y□ N□ U□ N/A⊠
Not a soft target.	
Are overhead equipment, distribution systems, ceiling tiles and lighting and masonry block walls not likely to collapse onto the equipment?	g, Y⊠ N□ U□ N/A□
Yes overhead equipment, distribution systems, ceiling tiles and lighting and masonry block walls are not likely to collapse onto the equipment	
9. Do attached lines have adequate flexibility to avoid damage?	Y⊠ N□ U□ N/A□
Yes attached lines have adequate flexibility to avoid damage.	
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	e Y⊠ N□ U□
Yes based on the above seismic interaction evaluations, the equipme is free of potentially adverse seismic interaction effects.	nt

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 3 of 5	IP2
Seismic Walkdown Checklist (SWC) <u>SWEL2-007</u>	Status: Y⊠ N□ U□
Equipment ID No. <u>110TFSB</u>	Equip. Class <sup>1</sup> _0
Equipment Description <u>Ederer Crane (Dry Fuel Storage)</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?	ould Y⊠ N□ U□
Yes we have looked for and found no other seismic conditions the could adversely affect the safety functions of the equipment.	at
Comments (Additional pages may be added as necessary)	
References: Drawings and AWC Drawings: 9321-F-2514, Rev 19, Fuel Storage building general a (Unit no. 2). AWC-020	arrangement, plans and elevations.
Evaluated by: Paul Huebsch	Date: <u>10-19-2012</u>
Nick Crispell Nick Crispell	10-19-2012

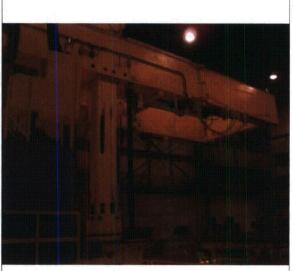
# ATTACHMENT 9.6 Sheet 4 of 5 Seismic Walkdown CheckList Form Seismic Walkdown Checklist (SWC) SWEL2-007 Equipment ID No. 110TFSB Equip. Class 0

# **Photographs**



Equipment Description <u>Ederer Crane (Dry Fuel Storage)</u>

Note: Top of crane and trolley.



Note: Crane extended to right over top of SFP.

# ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 5 of 5

2

Status: Y⊠ N□ U□

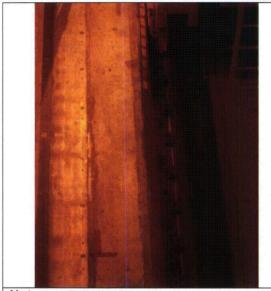
Seismic Walkdown Checklist (SWC) SWEL2-007

Equipment ID No. 110TFSB

10TESB

Equip. Class<sup>1</sup> 0

Equipment Description <u>Ederer Crane (Dry Fuel Storage)</u>



Note:

Rail clips for crane.



Note: Base of crane and counter weights.

ATTACHMENT D - AREA WALK-BY CHECKLISTS (AWCs)

ATTACHMENT 9.7				AREA WALK-BY CHECKLIST
Sheet 1 of 5				<b>IP2</b> Status: Y⊠ N⊟ U⊟
Area Walk-By Checkl	ist (AWC)	AWC-0	<u>001</u>	Status. YM NU UU
Location: Bldg. <u>CB</u>	Floor El.	15'-0"	Room, Area <sup>1</sup>	
SWEL Components:	SWEL1-01	7, 019, 0	024, 051, 058, 059, 099	
Instructions for Comple	ting Checklis	t	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
space below each of the	following quest	tions may		one or more SWEL items. The s of judgments and findings. comments.
Does anchorage of potentially advers opening cabinets.	e seismic cond		appear to be free of risible without necessarily	Y⊠ N□ U□ N/A□
Yes anchorage of potentially advers			appears to be free of	
Does anchorage of significant degrad			appear to be free of	Y⊠ N□ U□ N/A□
Minor surface cor	rosion noted. J	udged ins	significant.	
raceways and HV seismic conditions	AC ducting app s (e.g., conditio	pear to be n of supp	r, do the cable/conduit free of potentially adverse orts is adequate and fill de acceptable limits)?	Y⊠ N□ U□ N/A□
conduit for instrur	nent air SOV-1 Iuit anchorage	199. No o	nchor bolt to brick wall for perability issue conduit spar was documented in	າຣ
	S. No operabili	ty issue co	nchor to brick wall for condu onduit spans less then 8'.	it
air compressor 21 with temporary pa	and double do	oors to tra reventing	alf way between instrument insformer yard is wrapped inspection of two unistrut 012-06495 and this is not a	
All of the above c	oncerns are ac	cepted.		

<sup>&</sup>lt;sup>1</sup> If the room in which the SWEL item is located is very large (e.g., Turbine Hall), the area selected should be described. This selected area should be based on judgment, e.g., on the order of about 35 feet from the SWEL item.

ATTACHMENT 9.7	AREA WALK-BY CHECKLIST
Sheet 2 of 5	IP2
Area Walk-By Checklist (AWC)AWC-001	Status: Y⊠ N□ U□
Location: Bldg. <u>CB</u> Floor El. <u>15'-0"</u> Room, Area <sup>1</sup>	
SWEL Components: <u>SWEL1-017, 019, 024, 051, 058, 059, 099</u>	
4. Does it appear that the area is free of potentially adverse seismic spatial interactions with other equipment in the area (e.g., ceiling tiles and lighting)?	Y⊠ N□ U□ N/A□
Masonry (brick & block) walls are in the area are seismically qualified per Computech report R547.01.	
5. Does it appear that the area is free of potentially adverse seismic interactions that could cause flooding or spray in the area?	Y⊠ N□ U□ N/A□
Component cooling water in room is judged to be adequately supported and therefore will not cause flooding or spray interactions.	
Does it appear that the area is free of potentially adverse seismic interactions that could cause a fire in the area?	Y⊠ N□ U□ N/A□
Yes it appears that the area is free of potentially adverse seismic spatial interactions with other equipment in the area.	
7. Does it appear that the area is free of potentially adverse seismic interactions associated with housekeeping practices, storage of portable equipment, and temporary installations (e.g., scaffolding, lead shielding)?	Y⊠ N□ U□ N/A□
Carts near double doors to transformer yard are adequately secured with chains.	
Portable ladder near double doors is laid down and secured only on one end allowing other end to slide freely on the floor. Discussed with operations personnel in area and they corrected the problem immediately. CR IP2-2012-06495 issued for tracking.  All of the above concerns are acceptable. No seismic concern	

ATTACHMENT 9.7	AREA WALK-BY CHECKLIST
Sheet 3 of 5  Area Walk-By Checklist (AWC) <u>AWC-001</u>	<b>IP2</b> Status: Y⊠ N⊟ U⊟
Location: Bldg. <u>CB</u> Floor El. <u>15'-0"</u> Room, Area <sup>1</sup>	
SWEL Components: <u>SWEL1-017, 019, 024, 051, 058, 059, 099</u>	
Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment in the area?	Y⊠ N□ U□
Yes we have looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment in the area.	
Comments (Additional pages may be added as necessary)  No more seismic concerns.	
Evaluated by: Nick Crispell	Date: <u>10-8-2012</u>
Stephen Yuan	10-8-2012
Dan Nuta	10-8-2012

ATTACHMENT 9.7			AREA WALK-BY CHECKLIST
Sheet 4 of 5			IP2
Area Walk-By Checkli	st (AWC)AWC-0	<u>01</u>	Status: Y⊠ N□ U□
Location: Bldg. CB	Floor El. <u>15'-0"</u>	Room, Area <sup>1</sup>	
SWEL Components:	SWEL1-017, 019, 0	24, 051, 058, 059, 099	



**Note:** Missing conduit anchor on instrument air SOV-1199.



**Note:** Taped and paper raped unistrut connections supporting cable tray.

ATTACHMENT 9.7			AREA WALK-BY CHECKLIST
Sheet 5 of 5			IP2
Area Walk-By Checkli	st (AWC)AWC-0	<u>01</u>	Status: Y⊠ N□ U□
Location: Bldg. CB	Floor El. <u>15'-0"</u>	Room, Area <sup>1</sup>	
SWEL Components:	SWEL1-017, 019, 0	24, 051, 058, 059, 099	



**Note:** Missing conduit anchor on IACC TC-1106S. Conduit support spacing judged acceptable. CR IP2-2012-06495 issued for tracking.



Note: Missing conduit anchor on IACC TC-1106S

ATTACHMENT 9.7	AREA WALK-BY CHECKLIST
Sheet 1 of 4  Area Walk-By Checklist (AWC)AWC-002	IP2 Status: Y⊠ N⊟ U⊟
Location: Bldg. <u>CB</u> Floor El. <u>15'-0"</u> Room, Area <sup>1</sup>	
SWEL Components: <u>SWEL1-013, 014, 016, 065, 066, 089</u>	
Instructions for Completing Checklist	
This checklist may be used to document the results of the Area Walk-By near one space below each of the following questions may be used to record the results of Additional space is provided at the end of this checklist for documenting other cor	judgments and findings.
1. Does anchorage of equipment in the area appear to be free of potentially adverse seismic conditions (if visible without necessarily opening cabinets)?	Y⊠ N□ U□ N/A□
Yes anchorage of equipment in the area appears to be free of potentially adverse seismic conditions.	
2. Does anchorage of equipment in the area appear to be free of significant degraded conditions?	Y⊠ N□ U□ N/A□
Slight surface corrosion acceptable.	
3. Based on a visual inspection from the floor, do the cable/conduit raceways and HVAC ducting appear to be free of potentially adverse seismic conditions (e.g., condition of supports is adequate and fill conditions of cable trays appear to be inside acceptable limits)?	Y⊠ N□ U□ N/A□
Yes based on a visual inspection from the floor, the cable/conduit raceways and HVAC ducting appears to be free of potentially adverse seismic conditions.	

<sup>&</sup>lt;sup>1</sup> If the room in which the SWEL item is located is very large (e.g., Turbine Hall), the area selected should be described. This selected area should be based on judgment, e.g., on the order of about 35 feet from the SWEL item.

ATTACHMENT 9.7	AREA WALK-BY CHECKLIST
Sheet 2 of 4	IP2
Area Walk-By Checklist (AWC)AWC-002	Status: Y⊠ N☐ U☐
Location: Bldg. <u>CB</u> Floor El. <u>15'-0"</u> Room, Area <sup>1</sup>	
SWEL Components: <u>SWEL1-013, 014, 016, 065, 066, 089</u>	
4. Does it appear that the area is free of potentially adverse seismic spatial interactions with other equipment in the area (e.g., ceiling tiles and lighting)?	Y⊠ N□ U□ N/A□
Masonry (brick & block) walls in the area are seismically qualified per Computech report R547.01.	
5. Does it appear that the area is free of potentially adverse seismic interactions that could cause flooding or spray in the area?	Y⊠ N□ U□ N/A□
Component cooling water in room is judged to be adequately supported and therefore will not cause flooding or spray interactions.	
6. Does it appear that the area is free of potentially adverse seismic interactions that could cause a fire in the area?	Y⊠ N□ U□ N/A□
Yes it appears that the area is free of potentially adverse seismic interactions that could cause a fire in the area.	
7. Does it appear that the area is free of potentially adverse seismic interactions associated with housekeeping practices, storage of portable equipment, and temporary installations (e.g., scaffolding, lead shielding)?	Y⊠ N□ U□ N/A□
Portable ladder near double doors is laid down and secured only on one end allowing other end to slide freely on the floor. Discussed with operations personnel in area and they corrected the problem in our presence.	

ATTACHMENT 9.7	AREA WALK-BY CHECKLIST
Sheet 3 of 4  Area Walk-By Checklist (AWC) <u>AWC-002</u>	IP2 Status: Y⊠ N⊡ U⊡
Location: Bldg. <u>CB</u> Floor El. <u>15'-0"</u> Room, Area <sup>1</sup>	
SWEL Components: <u>SWEL1-013, 014, 016, 065, 066, 089</u>	
Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment in the area?	Y⊠ N□ U□
Yes we have looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment in the area.	
Comments (Additional pages may be added as necessary)  No more seismic concerns.	
Nich Chie ou	
Evaluated by: Nick Crispell  Stephen Yuan	Date: <u>10-8-2012</u> 
Dan Nuta	10-8-2012

ATTACHMENT 9.7			AREA WALK-BY CHECKLIST
Sheet 4 of 4			IP2 Status: Y⊠ N□ U□
Area Walk-By Checklist (AWC)AWC-002		02	Status: Y N N U
Location: Bldg. CB	Floor El. <u>15'-0"</u>	Room, Area <sup>1</sup>	
SWEL Components:	SWEL1-013, 014, 0	016, 065, 066, 089	



Note: Ladder top that is unsecured.



**Note:** Masonry brick wall. Wall sandwich plates are not on the entire length of wall.

ATTACHMENT 9.7				AREA WAL	K-BY CHECKLIST
Sheet 1 of 5				Status	IP2 Y⊠ N□ U□
Area Walk-By Checklis	t (AWC)A	WC-003		Status.	
Location: Bldg. CB	Floor El. <u>33</u>	<u>-0"</u> Room	n, Area <sup>1</sup>		
SWEL Components:	SWEL1-018,	<u>015, 061, 062</u>			
Instructions for Completi	_				
This checklist may be used space below each of the fol Additional space is provided	llowing questions	may be used	to record the results	of judgments and	_ items. The findings.
Does anchorage of potentially adverse sopening cabinets)?				Y⊠ N□ U□	N/A
Yes anchorage of ea potentially adverse s			be free of		
Does anchorage of significant degraded		area appear to	be free of	Y⊠ N□ U□	] N/A□
Yes anchorage of ea significant degraded		area appears to	be free of		
<ol> <li>Based on a visual in raceways and HVA0 seismic conditions ( conditions of cable t</li> </ol>	C ducting appear e.g., condition of	to be free of pe supports is ad	otentially adverse equate and fill	Y□ N⊠ U□	] N/A□
Cable tray support for the conduit west of the Additionally the cable seismically designed evaluated in LB-01.	he frame. The fra le tray support fra	ame might inte ame does not a	ract with the conduit. sppear to be		
<ol> <li>Does it appear that spatial interactions vand lighting)?</li> </ol>				Y⊠ N□ U□	N/A□
Some florescent but IP2-2012-06120 trad given location of bul as a good seismic h	cks resolution of bs and targets in	<i>this issue.</i> Not the area. Bulb	a seismic issue		

<sup>&</sup>lt;sup>1</sup> If the room in which the SWEL item is located is very large (e.g., Turbine Hall), the area selected should be described. This selected area should be based on judgment, e.g., on the order of about 35 feet from the SWEL item.

ATTACHMENT 9.7	AREA WALK-BY CHECKLIST
Sheet 2 of 5  Area Walk-By Checklist (AWC) <u>AWC-003</u>	<b>IP2</b> Status: Y⊠ N⊡ U⊡
Location: Bldg. <u>CB</u> Floor El. <u>33'-0"</u> Room, Area <sup>1</sup>	
SWEL Components: <u>SWEL1-018, 015, 061, 062</u>	
5. Does it appear that the area is free of potentially adverse seismic interactions that could cause flooding or spray in the area?	Y⊠ N□ U□ N/A□
Yes it appears that the area is free of potentially adverse seismic interactions that could cause flooding or spray in the area.	
6. Does it appear that the area is free of potentially adverse seismic interactions that could cause a fire in the area?	Y⊠ N□ U□ N/A□
Yes it appears that the area is free of potentially adverse seismic interactions that could cause a fire in the area.	
7. Does it appear that the area is free of potentially adverse seismic interactions associated with housekeeping practices, storage of portable equipment, and temporary installations (e.g., scaffolding, lead shielding)?	Y□ N⊠ U□ N/A□
The engine hoist tool located on the north wall needs to be tied more securely to the fixed post. Hoist can roll side to side along wall and impact the nearby instrument rack. See photo below. CR IP2-2012-6135 issued to resolves.	
Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment in the area?	Y⊠ N□ U□
Yes we have looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment in the area.	
Comments (Additional pages may be added as peops and)	

<u>Comments</u> (Additional pages may be added as necessary)

ATTACHMENT 9.7	AF	REA WALK-BY CHECKLIST
Sheet 3 of 5		IP2 Status: Y⊠ N□ U□
Area Walk-By Checklist (AWC) <u>AWC-003</u>		
Location: Bldg. <u>CB</u> Floor El. <u>33'-0"</u> Room, Area <sup>1</sup>		
SWEL Components: <u>SWEL1-018, 015, 061, 062</u>		
A few bolts on equipment cover panels are missing. See photos below. C during seismic event. CR IP2-2012-06155 issued to track resolution.		
Door hold down missing on upper small box. See photos below. Box judg event. CR IP2-2012-06155 issued to track resolution.	ged acc	eptable during a seismic
References:		
CR IP2-2012-06155		
CR IP2-2012-6135		
Evaluated by: Nick Crispell	Date:	10-10-2012
Alto H	_ Date.	10-10-2012
Stephen Yuan	_	10-10-2012
Dan Nuta		
Dan Nuta	_	10-10-2012

ATTACHMENT 9.7			AREA WALK-BY CHECKLIST
Sheet 4 of 5		: n	IP2 Status: Y⊠ N□ U□
Area Walk-By Checklis	st (AWC)AWC-003	<u>3</u>	Status. FA N
Location: Bldg. CB	Floor El. <u>33'-0"</u>	Room, Area <sup>1</sup>	
SWEL Components:	SWEL1-018 015 06	1 062	kinakokanni akewa alimbo zeo ne samini vindin disin 1841-194 Sovenilari esinzanzari.



**Note:** Engine hoist needing to be secured to the cross bars to prevent movement from left to right in this photo.

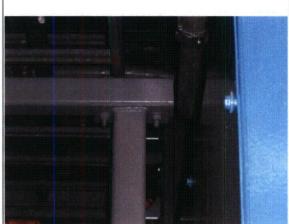


**Note:** Panel on west side of reactor/turbine trip cabinet missing 2 bolts.

ATTACHMENT 9.7			AREA WALK-BY CHECKLIST
Sheet 5 of 5		# E	IP2 Status: Y⊠ N□ U□
Area Walk-By Checkli	st (AWC)AWC-00	<u>03</u>	Status. I N N U
Location: Bldg. CB	Floor El. <u>33'-0"</u>	Room, Area <sup>1</sup>	
SWEL Components:	SWEL1-018, 015, 0	61, 062	



**Note:** Cabinet hanging on west side of reactor/turbine trip cabinet missing top latch.



Note: Cable tray support over top of 22 MG SET and next to Reactor Trip Breaker cabinet appears to be none seismically designed and appears to have a seismic separation issue with the conduit pictured. Tray support is the tube steel pictured.

ATTACHMENT 9.7	AREA WALK-BY CHECKLIST
Sheet 1 of 5  Area Walk-By Checklist (AWC)AWC-004	IP2 Status: Y⊠ N⊡ U⊡
Location: Bldg. <u>CB</u> Floor El. <u>33'-0"</u> Room, Area <sup>1</sup>	
SWEL Components: <u>SWEL1-011, 012, 018, 067, 072, 073, 074, 075</u>	
Instructions for Completing Checklist	
This checklist may be used to document the results of the Area Walk-By near one space below each of the following questions may be used to record the results of Additional space is provided at the end of this checklist for documenting other contacts.	f judgments and findings.
<ol> <li>Does anchorage of equipment in the area appear to be free of potentially adverse seismic conditions (if visible without necessarily opening cabinets)?</li> <li>One anchor bolt is missing on baseplate for EL1A &amp; EL4A support along north wall. Plant drawing 309189-00 allows 3 anchors in this baseplate therefore acceptable.</li> </ol>	Y⊠ N□ U□ N/A□
Does anchorage of equipment in the area appear to be free of significant degraded conditions?	Y⊠ N□ U□ N/A□
Yes anchorage of equipment in the area appears to be free of significant degraded conditions.	
3. Based on a visual inspection from the floor, do the cable/conduit raceways and HVAC ducting appear to be free of potentially adverse seismic conditions (e.g., condition of supports is adequate and fill conditions of cable trays appear to be inside acceptable limits)?	Y⊠ N□ U□ N/A□
Yes based on a visual inspection from the floor, the cable/conduit raceways and HVAC ducting appears to be free of potentially adverse seismic conditions.	

<sup>&</sup>lt;sup>1</sup> If the room in which the SWEL item is located is very large (e.g., Turbine Hall), the area selected should be described. This selected area should be based on judgment, e.g., on the order of about 35 feet from the SWEL item.

<b>A</b> TTACH	MENT 9.7	AREA WALK-BY CHECKLIST
Sheet 2	of 5	<b>IP2</b> Status: Y⊠ N□ U□
Area \	Walk-By Checklist (AWC) <u>AWC-004</u>	
Location	on: Bldg. <u>CB</u> Floor El. <u>33'-0"</u> Room, Area <sup>1</sup>	
SWEL	. Components: <u>SWEL1-011, 012, 018, 067, 072, 073, 074, 075</u>	
4.	Does it appear that the area is free of potentially adverse seismic spatial interactions with other equipment in the area (e.g., ceiling tiles and lighting)?	Y⊠ N□ U□ N/A□
	Some fluorescent bulbs need to be secured to the light fixture with wires and a bulb is missing in the light behind MCC27A. Not a seismic concern given location of bulbs and hard target in the area. CR IP2-2012-06120 securing bulbs to light fixtures for good seismic housekeeping.	
5.	Does it appear that the area is free of potentially adverse seismic interactions that could cause flooding or spray in the area?	Y⊠ N□ U□ N/A□
	Yes it appears that the area is free of potentially adverse seismic interactions that could cause flooding or spray in the area.	
6.	Does it appear that the area is free of potentially adverse seismic interactions that could cause a fire in the area?	Y⊠ N□ U□ N/A□
	Yes it appears that the area is free of potentially adverse seismic interactions that could cause a fire in the area.	
7.	Does it appear that the area is free of potentially adverse seismic interactions associated with housekeeping practices, storage of portable equipment, and temporary installations (e.g., scaffolding, lead shielding)?	Y□ N⊠ U□ N/A□
	Lighting panel 219 door slightly ajar (not closed/latched). Operations personnel shut panel in our presence. CR IP2-2012-06119 issued to ensure the issue does not happen again.	
	23DC Power Panel door not closed. Latch is broken and latch is missing parts. CR IP2-2012-06117 was issued for tracking.	
	24DC Power PNL has latches in the open position. Door is shut and multiple other latches on door are in closed position. CR IP2-2012-06117 was issued for tracking.	

ATTACHMENT 9.7	AREA WALK-BY CHECKLIST
Sheet 3 of 5  Area Walk-By Checklist (AWC) <u>AWC-004</u>	<b>IP2</b> Status: Y⊠ N⊟ U⊟
Location: Bldg. <u>CB</u> Floor El. <u>33'-0"</u> Room, Area <sup>1</sup>	
SWEL Components: <u>SWEL1-011, 012, 018, 067, 072, 073, 074, 078</u>	5
Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment in the area?	Y⊠ N□ U□
Yes we have looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment in the area.	
Comments (Additional pages may be added as necessary)  No more seismic concems.	
Evaluated by: Nick Crispell	Date: <u>10-10-2012</u>
Stephen Yuan	10-10-2012
Dan Nuta	<u>10-10-2012</u>

ATTACHMENT 9.7			AREA WALK-BY CHECKLIST
Sheet 4 of 5			IP2 Status: Y⊠ N□ U□
Area Walk-By Checklis	st (AWC)AWC-0	<u>04</u>	Status. 1 N N O
Location: Bldg. CB	Floor El. <u>33'-0"</u>	Room, Area <sup>1</sup>	
SWEL Components:	SWEL 1-011 012 /	118 067 072 073 074	075



**Note:** 23DC Power Panel door not closed. Latch is broken and latch is missing parts.



**Note:** 24DC Power PNL has latches in the open position. Door is shut and multiple other latches on door are in closed position.

ATTACHMENT 9.7	AREA WALK-BY CHECKLIST
Sheet 5 of 5  Area Walk-By Checklist (AWC)AWC-004	<b>IP2</b> Status: Y⊠ N⊡ U⊡
Location: Bldg. <u>CB</u> Floor El. <u>33'-0"</u> Room, A	Area <sup>1</sup>
SWEL Components: <u>SWEL1-011, 012, 018, 067, 0</u>	72, 073, 074, 075
Note: Anchor bolt is missing on baseplate for EL1A & EL4A support along north wall.	ote:

ATTACHMENT 9.7	AREA WALK-BY CHECKLIST
Sheet 1 of 4  Area Walk-By Checklist (AWC)AWC-005	<b>IP2</b> Status: Y⊠ N⊡ U⊡
Location: Bldg. <u>CB</u> Floor El. <u>33'-0"</u> Room, Area <sup>1</sup> <u>22 Battery Ro</u>	om
SWEL Components: <u>SWEL1-069</u>	
Instructions for Completing Checklist	
This checklist may be used to document the results of the Area Walk-By near one space below each of the following questions may be used to record the results of Additional space is provided at the end of this checklist for documenting other cord	judgments and findings.
<ol> <li>Does anchorage of equipment in the area appear to be free of potentially adverse seismic conditions (if visible without necessarily opening cabinets)?</li> <li>Yes anchorage of equipment in the area appears to be free of potentially adverse seismic conditions.</li> </ol>	Y⊠ N□ U□ N/A□
Does anchorage of equipment in the area appear to be free of significant degraded conditions?	Y⊠ N□ U□ N/A□
Yes anchorage of equipment in the area appears to be free of significant degraded conditions.	
3. Based on a visual inspection from the floor, do the cable/conduit raceways and HVAC ducting appear to be free of potentially adverse seismic conditions (e.g., condition of supports is adequate and fill conditions of cable trays appear to be inside acceptable limits)?	Y⊠ N□ U□ N/A□
Yes based on a visual inspection from the floor, the cable/conduit raceways and HVAC ducting appears to be free of potentially adverse seismic conditions.	

<sup>&</sup>lt;sup>1</sup> If the room in which the SWEL item is located is very large (e.g., Turbine Hall), the area selected should be described. This selected area should be based on judgment, e.g., on the order of about 35 feet from the SWEL item.

ATTACHMENT 9.7			AREA WALK-BY CHECKLIST
Sheet 2 of 4			<b>IP2</b> Status: Y⊠ N⊟ U⊟
Area Walk-By Checkli	st (AWC) <u>AWC-0</u>	<u>05</u>	
Location: Bldg. CB	Floor El. <u>33'-0"</u>	Room, Area <sup>1</sup> 22 Battery	Room
SWEL Components:	SWEL1-069		
	at the area is free of pote s with other equipment in	ntially adverse seismic the area (e.g., ceiling tiles	Y⊠ N□ U□ N/A□
wires. This is judg	bulbs need to be secure ed not to be a seismic co R IP2-2012-06120 secui	d to the light fixture with oncern given hard target ring bulbs for good seismic	
	at the area is free of pote ould cause flooding or sp		Y⊠ N□ U□ N/A□
	t the area is free of poter ould cause flooding or sp		
	at the area is free of pote ould cause a fire in the a		Y⊠ N□ U□ N/A□
	t the area is free of poter ould cause a fire in the a		
interactions assoc	at the area is free of pote iated with housekeeping nt, and temporary installa		Y⊠ N□ U□ N/A□
ínteractions assoc	t the area is free of poter iated with housekeeping nt, and temporary installa	practices, storage of	

ATTACHMENT 9.7	AREA WALK-BY CHECKLIST
Sheet 3 of 4  Area Walk-By Checklist (AWC)AWC-005	I <b>P2</b> Status: Y⊠ N⊟ U⊟
Location: Bldg. <u>CB</u> Floor El. <u>33'-0"</u> Room, Area <sup>1</sup>	22 Battery Room
SWEL Components: <u>SWEL1-069</u>	
Have you looked for and found no other seismic conditions the adversely affect the safety functions of the equipment in the	area?
Yes we have looked for and found no other seismic condition could adversely affect the safety functions of the equipment.	
Comments (Additional pages may be added as necessary)  Lose 12" long steel member (construction waist) found lying the south-east corner of room. This is considered to be no issued to remove the item.	
Evaluated by: Nick Crispell	Date: <u>10-10-2012</u>
Stephen Yuan  Dan Nuta	<u>10-10-2012</u>
Dan Nuta	10-10-2012

ATTACHMENT 9.7			AREA WALK-BY CHECKLIST
Sheet 4 of 4			IP2
Area Walk-By Checklist	(AWC) AWC-00	5	Status: Y⊠ N⊡ U⊡
——————————————————————————————————————	(A110) <u>A110-00</u>		· · · · · · · · · · · · · · · · · · ·
Location: Bldg. CB	_ Floor El. <u>33'-0"</u>	_ Room, Area <sup>1</sup> 22 Battery Room	1
SWEL Components: _	SWEL1-069		
Photographs			
Note: Pictures could not b	ne taken while meeting	Note:	
the procedural camera star		Note.	
	·		

ATTACHMENT 9.7	AREA WALK-BY CHECKLIST
Sheet 1 of 4  Area Walk-By Checklist (AWC)AWC-006	<b>IP2</b> Status: Y⊠ N⊟ U⊟
Location: Bldg. <u>CB</u> Floor El. <u>33'-0"</u> Room, Area <sup>1</sup> <u>21 Ba</u>	ttery Room
SWEL Components: <u>SWEL1-068</u>	
Instructions for Completing Checklist  This checklist may be used to document the results of the Area Walk-By r space below each of the following questions may be used to record the re Additional space is provided at the end of this checklist for documenting of	esults of judgments and findings.
<ol> <li>Does anchorage of equipment in the area appear to be free of potentially adverse seismic conditions (if visible without necessaril opening cabinets)?</li> <li>Yes anchorage of equipment in the area appears to be free of potentially adverse seismic conditions.</li> </ol>	Y⊠ N□ U□ N/A□ y
<ol> <li>Does anchorage of equipment in the area appear to be free of significant degraded conditions?</li> <li>Yes anchorage of equipment in the area appears to be free of significant degraded conditions.</li> </ol>	Y⊠ N□ U□ N/A□
3. Based on a visual inspection from the floor, do the cable/conduit raceways and HVAC ducting appear to be free of potentially adverseismic conditions (e.g., condition of supports is adequate and fill conditions of cable trays appear to be inside acceptable limits)? Yes based on a visual inspection from the floor, the cable/conduit raceways and HVAC ducting appears to be free of potentially adverseismic conditions.	

<sup>&</sup>lt;sup>1</sup> If the room in which the SWEL item is located is very large (e.g., Turbine Hall), the area selected should be described. This selected area should be based on judgment, e.g., on the order of about 35 feet from the SWEL item.

ATTACHMENT 9.7	AREA WALK-BY CHECKLIST
Sheet 2 of 4  Area Walk-By Checklist (AWC)AWC-006	I <b>P2</b> Status: Y⊠ N⊟ U⊟
Location: Bldg. <u>CB</u> Floor El. <u>33'-0"</u> Room, Area <sup>1</sup> <u>21 Batte</u>	ery Room
SWEL Components: <u>SWEL1-068</u>	
4. Does it appear that the area is free of potentially adverse seismic spatial interactions with other equipment in the area (e.g., ceiling tile and lighting)?	Y⊠ N□ U□ N/A□ s
One light needs to have a safety cover. This is not a seismic concern given hard target batteries below light. CR IP2-2012-06120 safety constallation as a good seismic housekeeping practice.	
5. Does it appear that the area is free of potentially adverse seismic interactions that could cause flooding or spray in the area?	Y⊠ N□ U□ N/A□
Yes it appears that the area is free of potentially adverse seismic interactions that could cause flooding or spray in the area.	
Does it appear that the area is free of potentially adverse seismic interactions that could cause a fire in the area?	Y⊠ N□ U□ N/A□
Yes it appears that the area is free of potentially adverse seismic interactions that could cause a fire in the area.	
7. Does it appear that the area is free of potentially adverse seismic interactions associated with housekeeping practices, storage of portable equipment, and temporary installations (e.g., scaffolding, le shielding)?	Y⊠ N□ U□ N/A□ ad
Yes it appears that the area is free of potentially adverse seismic interactions associated with housekeeping practices, storage of portable equipment, and temporary installations.	

ATTACHMENT 9.7			AREA WALK-BY CHECKLIST
Sheet 3 of 4  Area Walk-By Checklist	(AWC) <u>AWC-00</u>	<u>)6</u>	<b>IP2</b> Status: Y⊠ N⊡ U⊡
Location: Bldg. CB	Floor El. <u>33'-0"</u>	Room, Area <sup>1</sup> 21 Battery I	Room
SWEL Components:	SWEL1-068		
		ismic conditions that could equipment in the area?	Y⊠ N□ U□
		r seismic conditions that of the equipment in the area.	
Comments (Additional page No comments.	es may be added as ne	ecessary)	
Evaluated by: Nick Crispell	Mich C	Keper	Date: <u>10-10-2012</u>
<u>Stephen Yuar</u>	, Stota		10-10-2012
	Shages &	1. Writer	

ATTACHMENT 9.7		AREA WALK-BY CHECKLIST
Sheet 4 of 4		IP2
Area Walk-By Checklist (AWC)AWC-006		Status: Y⊠ N∏ U∏
Location: Bldg. <u>CB</u> Floor El. <u>33'-0"</u> R	oom, Area <sup>1</sup> 21 Battery Room	· · · · · · · · · · · · · · · · · · ·
SWEL Components: <u>SWEL1-068</u>		
Photographs		
Note: Pictures could not be taken while meeting	Note:	
the procedural camera standoff requirements.		
	l	

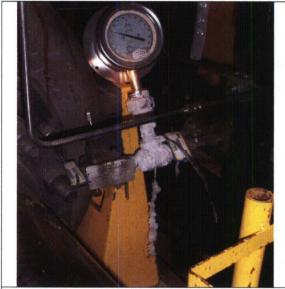
ATTACHMENT 9.7					AREA WALK	-BY CHECKLIST
Sheet 1 of 6						IP2
Area Walk-By Check	list (AWC) _	AWC-0	007		Status: \	Y⊠ N□ U□
Location: Bldg. FSB	Floor El	. <u>70</u> '	Room, Area <sup>1</sup>	SFP Pump Re	oom	
SWEL Components:	SWEL2-0	02, 003				
Instructions for Compl	eting Checklis	st		-		
This checklist may be us space below each of the Additional space is provi	following ques	stions may	be used to record	I the results of	f judgments and f	
Does anchorage     potentially advers     opening cabinets	se seismic con		appear to be free visible without nec		Y⊠ N□ U□	N/A
Yes anchorage of potentially advers			appears to be free	of		
Does anchorage significant degrad			appear to be free	of	Y⊠ N□ U□	N/A
Minor surface co	rrosion on pipe	hangers i	in area. Not signific	cant.		
seismic condition conditions of cab  Yes based on a	/AC ducting aps (e.g., condition of the trays appearance)  //isual inspection /AC ducting appearance)	ppear to be on of suppor to be inside on from the	or, do the cable/cor e free of potentially orts is adequate a de acceptable limi e floor, the cable/cor pe free of potential	adverse and fill ts)? anduit	Y⊠ N□ U□	<b>N/A</b> .

<sup>&</sup>lt;sup>1</sup> If the room in which the SWEL item is located is very large (e.g., Turbine Hall), the area selected should be described. This selected area should be based on judgment, e.g., on the order of about 35 feet from the SWEL item.

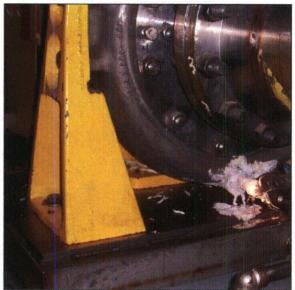
ATTACHMENT 9.7	AREA WALK-BY CHECKLIST
Sheet 2 of 6  Area Walk-By Checklist (AWC)AWC-007	IP2 Status: Y⊠ N⊡ U⊡
Location: Bldg. <u>FSB</u> Floor El. <u>70'</u> Room, Area <sup>1</sup>	SFP Pump Room
SWEL Components: SWEL2-002, 003	
4. Does it appear that the area is free of potentially adverse se spatial interactions with other equipment in the area (e.g., ce and lighting)?	
Yes it appears that the area is free of potentially adverse se spatial interactions with other equipment in the area.	ismic
5. Does it appear that the area is free of potentially adverse se interactions that could cause flooding or spray in the area?	eismic Y⊠ N□ U□ N/A□
Yes it appears that the area is free of potentially adverse se interactions that could cause flooding or spray in the area.	ismic
6. Does it appear that the area is free of potentially adverse se interactions that could cause a fire in the area?	eismic Y⊠ N□ U□ N/A□
Yes it appears that the area is free of potentially adverse se interactions that could cause a fire in the area.	ismic
7. Does it appear that the area is free of potentially adverse se interactions associated with housekeeping practices, storag portable equipment, and temporary installations (e.g., scaffo shielding)?	e of
Yes it appears that the area is free of potentially adverse se interactions associated with housekeeping practices, storag portable equipment, and temporary installations.	

ATTACHMENT 9.7	AREA WALK-BY CHECKLIST
Sheet 3 of 6	IP2
Area Walk-By Checklist (AWC)AWC-007	Status: Y⊠ N⊡ U⊡
Location: Bldg. <u>FSB</u> Floor El. <u>70'</u> Room, Area <sup>1</sup> <u>SFP Pump Roo</u>	<u>m</u>
SWEL Components: SWEL2-002, 003	
Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment in the area?	⊠ N□ U□
Yes we have looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment in the area.	
Comments (Additional pages may be added as necessary)	
<ol> <li>Valve SFP 719A outlet to SFP Demin Stop shows slight surface rus on the pipe to this valve. Not significant.</li> </ol>	t. As well as 2 pipe hangers
2. Top of overhead concrete beam is jagged. Not a structural issue.	
<ol> <li>Light bulb above 22SFP Pump is bumt out. This is not a seismic iss (extension-7600) was contacted regarding the light out.</li> </ol>	ue Lights Out Hotline
<ol> <li>Light safety cages on all three lights in the room appear to be sitting incorrectly. They look to be cross threaded. Hard target pumps wou inoperable. CR IP2-2012-06744 issued to track fixing the light safety</li> </ol>	ld not be rendered
<ol><li>Multiple boric acid leaks noted in the area on SFP pumps. No signification observed. Boric acid leaks are already work order tagged in the field below.</li></ol>	
References: CR IP2-2012-06744	
Evaluated by: Nick Crispell Dick Crispell D	ate: 10-12-2012
	ate: <u>10/12/2012</u>
Dan Nuta	
Dan Nuta	10-12-2012

SWEL Components: SWEL2-002, 003



Note: Boric acid leak noted in SWEL2-003 forms.



Note: Boric acid leak noted in SWEL2-003 forms.

ATTACHMENT 9.7

AREA WALK-BY CHECKLIST

Sheet 5 of 6

**IP2** Status: Y⊠ N□ U□

Area Walk-By Checklist (AWC) \_\_\_\_AWC-007

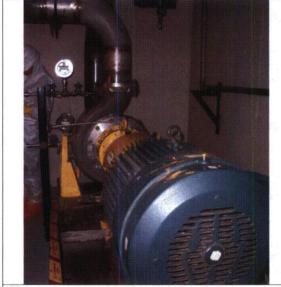
Location: Bldg. FSB

\_\_ Floor El. <u>70'</u>

\_ Room, Area<sup>1</sup> SFP Pump Room

SWEL Components:

SWEL2-002, 003



Note: General area of 22 SFP Pump



Note: General area of 21 SFP Pump

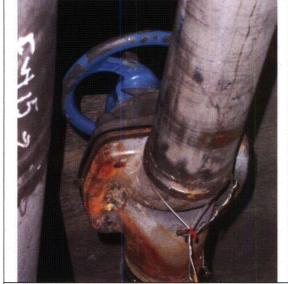
ATTACHMENT 9.7

Sheet 6 of 6

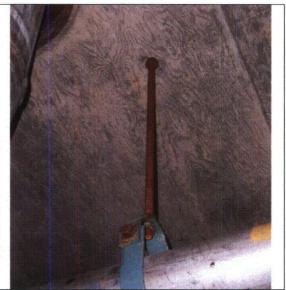
Area Walk-By Checklist (AWC) AWC-007

Location: Bldg. FSB Floor El. 70' Room, Area SFP Pump Room

SWEL Components: SWEL2-002, 003



**Note:** Valve SFP 719A outlet to SFP Demin Stop shows slight surface rust.



**Note:** Pipe hanger near valve SFP 719A shows slight surface rust.

ATTACHMENT 9.7	AREA WALK-BY CHECKLIST
Sheet 1 of 9  Area Walk-By Checklist (AWC) <u>AWC-008</u>	IP2 Status: Y⊠ N⊟ U⊟
Location: Bldg. <u>FSB</u> Floor El. <u>80'-0"</u> Room, Area <sup>1</sup> <u>SFP Heat Ex</u>	ychanger Room
SWEL Components: SWEL2-004	Changer Noom
Instructions for Completing Checklist	
This checklist may be used to document the results of the Area Walk-By near or space below each of the following questions may be used to record the results of Additional space is provided at the end of this checklist for documenting other control of the contro	of judgments and findings.
<ol> <li>Does anchorage of equipment in the area appear to be free of potentially adverse seismic conditions (if visible without necessarily opening cabinets)?</li> </ol>	Y⊠ N□ U□ N/A□
Yes anchorage of equipment in the area appears to be free of potentially adverse seismic conditions.	
Does anchorage of equipment in the area appear to be free of significant degraded conditions?	Y⊠ N□ U□ N/A□
Yes anchorage of equipment in the area appears to be free of significant degraded conditions.	
3. Based on a visual inspection from the floor, do the cable/conduit raceways and HVAC ducting appear to be free of potentially adverse seismic conditions (e.g., condition of supports is adequate and fill conditions of cable trays appear to be inside acceptable limits)?	Y□ N⊠ U□ N/A□
Tubing running to the SFP heat exchanger is vibrating significantly. Long span of approximately 6' for a ¼" tubing appears to be excessive. CR IP2-2012-06753 issued to investigate vibration fatigue issues and provided seismic adequacy of the long span. See photo below.	

<sup>&</sup>lt;sup>1</sup> If the room in which the SWEL item is located is very large (e.g., Turbine Hall), the area selected should be described. This selected area should be based on judgment, e.g., on the order of about 35 feet from the SWEL item.

ATTACHMENT 9.7	AREA WALK-BY CHECKLIST
Sheet 2 of 9	IP2 Status: Y⊠ N⊟ U⊟
Area Walk-By Checklist (AWC)AWC-008	
Location: Bldg. <u>FSB</u> Floor El. <u>80'-0"</u> Room, Area <sup>1</sup> <u>SFP Hea</u>	t Exchanger Room
SWEL Components: <u>SWEL2-004</u>	
4. Does it appear that the area is free of potentially adverse seismic spatial interactions with other equipment in the area (e.g., ceiling tiles and lighting)?	Y⊠ N□ U□ N/A□
Yes it appears that the area is free of potentially adverse seismic spatial interactions with other equipment in the area.	
5. Does it appear that the area is free of potentially adverse seismic interactions that could cause flooding or spray in the area?	Y□ N⊠ U□ N/A□
Tool box is secured such that its restraint chain would load and possidamage the fire water pipe shown in photo below. CR IP2-2012-067 issued to better secure the tool box.	
See question 3 and CR IP2-2012-06753 for flooding/spray adequacy possible leakage from the vibrating small diameter tubing.	of
6. Does it appear that the area is free of potentially adverse seismic interactions that could cause a fire in the area?	Y⊠ N□ U□ N/A□
Yes it appears that the area is free of potentially adverse seismic interactions that could cause a fire in the area.	

ATTACHMENT 9.7	AREA WALK-BY CHECKLIST
Sheet 3 of 9  Area Walk-By Checklist (AWC) <u>AWC-008</u>	I <b>P2</b> Status: Y⊠ N□ U□
Location: Bldg. FSB Floor El. 80'-0" Room, Area SFP Heat Ex	changer Room
SWEL Components: <u>SWEL2-004</u>	
7. Does it appear that the area is free of potentially adverse seismic interactions associated with housekeeping practices, storage of portable equipment, and temporary installations (e.g., scaffolding, lead shielding)?	Y□ N⊠ U□ N/A□
Numerous miscellaneous tools, ladders, stands, etc. under and round stairs are not adequately secured with chains. See multiple photos below. CR IP2-2012-06774 was issued to resolve the issue.	
Gas bottle has support chain attached to a moveable ladder on the other side of a concrete column. Ladder is not tight against the column. This would allow gas bottle to topple in a seismic event. Bottle should be secured around concrete column alone with two chains one high and one low on the bottle. See photos below. CR IP2-2012-06774 was issued to resolve the issue.	
Magnetic mount for camera doesn't appear adequate for a seismic event. Falling of camera will not effect operation of safety related SSC's however room monitoring for accident response would be lost. CR IP2-2012-06774 issued to determine if camera should be seismically mounted.	
Hair line cracks in concrete wall on north side. Cracks are normal concrete cracks and are not structurally significant.	
Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment in the area?	Y⊠ N□ U□
Yes we have looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment in the area.	
<u>Comments</u> (Additional pages may be added as necessary)	
CR IP2-2012-06753 CR IP2-2012-06774	

ATTACHMENT 9.7		Ar	REA WALK-BY	CHECKLIST
Sheet 4 of 9			Status: Y⊠	<b>IP2</b> N□ U□
Area Walk-By Checklis	(AWC) <u>AWC-008</u>			
Location: Bldg. FSB	Floor El. <u>80'-0"</u> Room	, Area <sup>1</sup> SFP Heat Exchange	r Room	
SWEL Components:	SWEL2-004			
Evaluated by: <i>Nick Crispell</i>	nice our	ر المراكب	10/13/2012	
	d .)	t		
<u>Dan Nuta</u>	Shools of Mu		10/13/2012	

ATTACHMENT 9.7

AREA WALK-BY CHECKLIST

Sheet 5 of 9

Status: Y⊠ N□ U□

Area Walk-By Checklist (AWC) AWC-008

Location: Bldg. FSB

Floor El. 80'-0"

Room, Area<sup>1</sup> SFP Heat Exchanger Room

**SWEL Components:** 

SWEL2-004



Note: Picture of heat exchanger. Tubing in question is in the top right of photo running from the concrete column to near the gage on the large bore pipe shown.



Note: Tool box secured on left side only could damage the fire water pipe causing flooding. Tool box should be tied back at both left and right sides.

ATTACHMENT 9.7 AREA WALK-BY CHECKLIST

Sheet 6 of 9

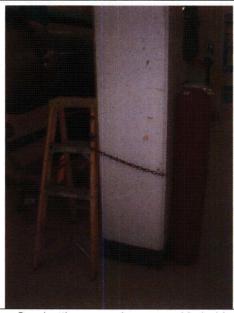
**IP2**Status: Y⊠ N□ U□

Area Walk-By Checklist (AWC) \_\_\_AWC-008

Location: Bldg. FSB Floor El. 80'-0"

Room, Area<sup>1</sup> SFP Heat Exchanger Room

SWEL Components: SWEL2-004



**Note:** Gas bottle secured to moveable ladder on other side of column. Bottle and ladder can move easily in a seismic event.



**Note:** Gas bottle secured to moveable ladder on other side of column. Bottle and ladder can move easily in a seismic event.

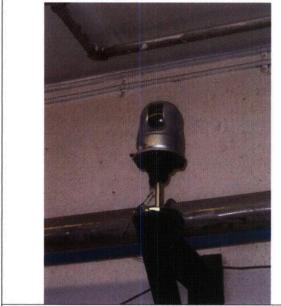
ATTACHMENT 9.7

Sheet 7 of 9

Area Walk-By Checklist (AWC) AWC-008

Location: Bldg. FSB Floor El. 80'-0" Room, Area SFP Heat Exchanger Room

SWEL Components: SWEL2-004



**Note:** Magnetic camera mount does not appear seismically adequate.



**Note:** Miscellaneous tools left loose behind 21 Spent Fuel Pit Pump switch.

ATTACHMENT 9.7 AREA WALK-BY CHECKLIST

Sheet 8 of 9

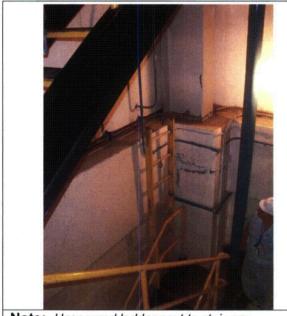
Status: Y N U

Area Walk-By Checklist (AWC) \_\_\_\_AWC-008

Location: Bldg. FSB Floor El. 80'-0"

Room, Area<sup>1</sup> SFP Heat Exchanger Room

SWEL Components: SWEL2-004



Note: Unsecured ladder next to stair way.



Note: Numerous unsecured items under stair way.



SWEL2-004

SWEL Components:

Note: Numerous unsecured items under stair way.



Note: Numerous unsecured items under stair way.

ATTACHMENT 9.7	AREA WALK-BY CHECKLIS
Sheet 1 of 5  Area Walk-By Checklist (AWC)AW(	IP2 Status: Y⊠ N⊡ U⊡ C-009
Location: Bldg. AF Floor El. 32'-6'	Room, Area <sup>1</sup>
SWEL Components: <u>SWEL1-035</u>	
	esults of the Area Walk-By near one or more SWEL items. The nay be used to record the results of judgments and findings. checklist for documenting other comments.
<ol> <li>Does anchorage of equipment in the arpotentially adverse seismic conditions (opening cabinets)?</li> <li>Yes anchorage of equipment in the are potentially adverse seismic conditions.</li> </ol>	(if visible without necessarily
Does anchorage of equipment in the ar significant degraded conditions?  Yes anchorage of equipment in the are significant degraded conditions.	
<ol> <li>Significant degraded conditions.</li> <li>Based on a visual inspection from the fraceways and HVAC ducting appear to seismic conditions (e.g., condition of su conditions of cable trays appear to be in Yes based on a visual inspection from a raceways and HVAC ducting appears to seismic conditions.</li> </ol>	be free of potentially adverse upports is adequate and fill inside acceptable limits)?  the floor, the cable/conduit

<sup>&</sup>lt;sup>1</sup> If the room in which the SWEL item is located is very large (e.g., Turbine Hall), the area selected should be described. This selected area should be based on judgment, e.g., on the order of about 35 feet from the SWEL item.

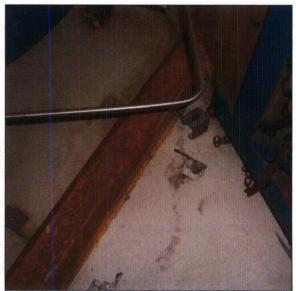
ATTACHMENT 9.7	AREA WALK-BY CHECKLIST
Sheet 2 of 5	IP2
Area Walk-By Checklist (AWC) <u>AWC-009</u>	Status: Y⊠ N□ U□
Location: Bldg. AF Floor El. 32'-6" Room, Area <sup>1</sup>	
SWEL Components: <u>SWEL1-035</u>	
4. Does it appear that the area is free of potentially adverse seismic spatial interactions with other equipment in the area (e.g., ceiling tiles and lighting)?	Y□ N⊠ U□ N/A□
Some florescent bulbs need wires securing the bulb to the fixture. CR IP2-2012-06485 tracks resolution of this issue.	
5. Does it appear that the area is free of potentially adverse seismic interactions that could cause flooding or spray in the area?	Y⊠ N□ U□ N/A□
Yes it appears that the area is free of potentially adverse seismic interactions that could cause flooding or spray in the area.	
6. Does it appear that the area is free of potentially adverse seismic interactions that could cause a fire in the area?	Y⊠ N□ U□ N/A□
Yes it appears that the area is free of potentially adverse seismic interactions that could cause a fire in the area.	
7. Does it appear that the area is free of potentially adverse seismic interactions associated with housekeeping practices, storage of portable equipment, and temporary installations (e.g., scaffolding, lead shielding)?	Y⊠ N□ U□ N/A□
Yes it appears that the area is free of potentially adverse seismic interactions associated with housekeeping practices, storage of portable equipment, and temporary installations.	

ATTACHMENT 9.7	AREA WALK-BY CHECKLIST
Sheet 3 of 5  Area Walk-By Checklist (AWC)AWC-009	<b>IP2</b> Status: Y⊠ N⊡ U⊡
Location: Bldg. AF Floor El. 32'-6" Room, Area 1	
SWEL Components: <u>SWEL1-035</u>	
8. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment in the area?	Y⊠ N□ U□
Yes we have looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment in the area.	a.
Comments (Additional pages may be added as necessary)	
Miscellaneous small items (nuts, bolts, unistrut clamp) found near ove CR IP2-2012-06511 issued to clean up.	rhead crane trolley door.
00 i.e. o i	
Evaluated by: Nick Crispell	Date: <u>10-12-2012</u>
Stoly	
Stephen Yuan	10-12-2012

ATTACHMENT 9.7			AREA WALK-BY CHECKLIST
Sheet 4 of 5		:::	IP2
Area Walk-By Checkli	st (AWC)AWC-0	09	Status: Y⊠ N□ U□
Location: Bldg. AF	Floor El. <u>32'-6"</u>	Room, Area <sup>1</sup>	
SWEL Components:	SWEL1-035		- 1



**Note:** Miscellaneous bolts nuts, and unistrut parts left near overhead trolley door.



**Note:** Miscellaneous bolts nuts, and unistrut parts left near overhead trolley door.

ATTACHMENT 9.7			AREA WALK-BY CHECKLIST
Sheet 5 of 5			IP2 Status: Y⊠ N□ U□
Area Walk-By Checkli	st (AWC)AWC-0	09	Status: FA NO O
Location: Bldg. AF	Floor El. <u>32'-6"</u>	Room, Area <sup>1</sup>	
SWEL Components:	SWEL1-035		





Note: General area of walk by

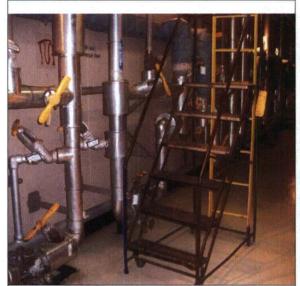
ATTACHMENT 9.7	AREA WALK-BY CHECKLIST
Sheet 1 of 4  Area Walk-By Checklist (AWC)AWC-010	<b>IP2</b> Status: Y⊠ N⊡ U⊡
Location: Bldg. <u>AFB</u> Floor El. <u>43'-0"</u> Room, Area <sup>1</sup>	
SWEL Components: <u>SWEL1-034</u>	
Instructions for Completing Checklist	OMEL in The
This checklist may be used to document the results of the Area Walk-By near one space below each of the following questions may be used to record the results of j Additional space is provided at the end of this checklist for documenting other com-	udgments and findings.
Does anchorage of equipment in the area appear to be free of potentially adverse seismic conditions (if visible without necessarily opening cabinets)?	Y⊠ N□ U□ N/A□
Yes anchorage of equipment in the area appears to be free of potentially adverse seismic conditions.	
Does anchorage of equipment in the area appear to be free of significant degraded conditions?	Y⊠ N□ U□ N/A□
Yes anchorage of equipment in the area appears to be free of significant degraded conditions.	
3. Based on a visual inspection from the floor, do the cable/conduit raceways and HVAC ducting appear to be free of potentially adverse seismic conditions (e.g., condition of supports is adequate and fill conditions of cable trays appear to be inside acceptable limits)?	Y⊠ N□ U□ N/A□
Yes based on a visual inspection from the floor, the cable/conduit raceways and HVAC ducting appears to be free of potentially adverse seismic conditions.	

<sup>&</sup>lt;sup>1</sup> If the room in which the SWEL item is located is very large (e.g., Turbine Hall), the area selected should be described. This selected area should be based on judgment, e.g., on the order of about 35 feet from the SWEL item.

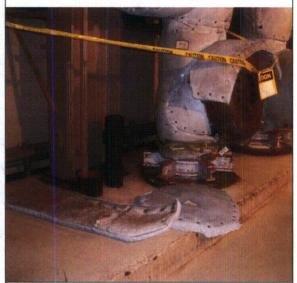
ATTACHMENT 9.7	AREA WALK-BY CHECKLIST
Sheet 2 of 4	<b>IP2</b> Status: Y⊠ N⊟ U⊟
Area Walk-By Checklist (AWC)AWC-010	
Location: Bldg. AFB Floor El. 43'-0" Room, Area <sup>1</sup>	
SWEL Components: SWEL1-034	
4. Does it appear that the area is free of potentially adverse seismic spatial interactions with other equipment in the area (e.g., ceiling tiles and lighting)?	Y⊠ N□ U□ N/A□
Yes it appears that the area is free of potentially adverse seismic spatial interactions with other equipment in the area.	
5. Does it appear that the area is free of potentially adverse seismic interactions that could cause flooding or spray in the area?	Y⊠ N□ U□ N/A□
Yes it appears that the area is free of potentially adverse seismic interactions that could cause flooding or spray in the area.	
6. Does it appear that the area is free of potentially adverse seismic interactions that could cause a fire in the area?	Y⊠ N□ U□ N/A□
Yes it appears that the area is free of potentially adverse seismic interactions that could cause a fire in the area.	
7. Does it appear that the area is free of potentially adverse seismic interactions associated with housekeeping practices, storage of portable equipment, and temporary installations (e.g., scaffolding, lead shielding)?	Y⊠ N□ U□ N/A□
Moveable stairs in area is chain secured on one side. But can roll into nearby small valves by rotating about chain in a seismic event. Piping & valves judged to survive seismic impact from moveable stairs. CR IP2-2012-06636 issued to better secure movable stairs.	

ATTACHMENT 9.7	AREA WALK-BY CHECKLIST
Sheet 3 of 4  Area Walk-By Checklist (AWC)AWC-010	<b>IP2</b> Status: Y⊠ N⊡ U⊡
Location: Bldg. <u>AFB</u> Floor El. <u>43'-0"</u> Room, Area <sup>1</sup>	
SWEL Components: SWEL1-034	
Have you looked for and found no other seismic conditions that can adversely affect the safety functions of the equipment in the area.	
Yes we have looked for and found no other seismic conditions the could adversely affect the safety functions of the equipment in the	
	***************************************
<u>Comments</u> (Additional pages may be added as necessary)	
Some fluorescent bulbs need wires securing the bulb to the fixture resolution of this issue.	re. CR IP2-2012-06640 tracks
Insulation in area has been removed from main steam lines for w CR IP2-2012-06638 issued to track resolution.	rork. This is not a seismic issue.
References:	
CR IP2-2012-06636	
CR IP2-2012-06638 CR IP2-2012-06640	
Ato 4	
Evaluated by: Stephen Yuan	Date: <u>10-12-2012</u>
an ico pui	
Nick Crispell Wigh Chippen	10-12-2012

ATTACHMENT 9.7			AREA WALK-BY CHECKLIST
Sheet 4 of 4			IP2
Area Walk-By Checkli	st (AWC) <u>AWC-0</u>	<u>10</u>	Status: Y⊠ N□ U□
Location: Bldg. AFB	Floor El. <u>43'-0"</u>	Room, Area <sup>1</sup>	
SWEL Components:	SWEL1-034		



Note: Moveable stairs needing to be secured.



**Note:** Insulation in area has been removed from main steam lines for work. This is not a seismic issue. CR IP2-2012-06638 issued to track resolution.

				1.00
ATTACHMENT 9.7			AREA WALK-BY CHEC	KLIST
Sheet 1 of 7			I Status: Y⊠ N⊟	<b>P2</b> ∪[_]
Area Walk-By Checklis	st (AWC) <u>AWC</u>	<u>C-011</u>		
Location: Bldg. EDG	Floor El. All	Room, Area <sup>1</sup>		_
SWEL Components:	SWEL1-036, 03	<u>7, 047, 060, 076, 077, 0</u>	78, 081, 084, 087, 096, & 100	
Instructions for Completi	ing Checklist			
	ollowing questions m	ay be used to record the r	near one or more SWEL items. The results of judgments and findings. other comments.	ie
	seismic conditions (	ea appear to be free of if visible without necessar	Y⊠ N∏ U∏ N/A∏ ily	
Yes anchorage of e potentially adverse		a appears to be free of		
Does anchorage of significant degrader		ea appear to be free of	Y⊠ N□ U□ N/A□	
Minor surface corro	osion. Judged accep	table.		
raceways and HVA seismic conditions	.C ducting appear to (e.g., condition of su	loor, do the cable/conduit be free of potentially adve apports is adequate and fill anside acceptable limits)?		
to box TPS-5 which resolve. This is not Conduit is located s	n is a security box. C a seismic concern a	west side of door. Conduit CR IP2-2012-06235 issued and therefore is acceptable falling of the conduit woul ipment.	To e.	

<sup>&</sup>lt;sup>1</sup> If the room in which the SWEL item is located is very large (e.g., Turbine Hall), the area selected should be described. This selected area should be based on judgment, e.g., on the order of about 35 feet from the SWEL item.

ATTACHMENT 9.7			AREA WALK-BY CHECKLIST
Sheet 2 of 7  Area Walk-By Checklist (AWC	s)AWC-(	<u>011</u>	IP2 Status: Y⊠ N⊟ U⊟
Location: Bldg. EDG Floo	or El. <u>All</u>	Room, Area <sup>1</sup>	
SWEL Components: SWEL	_1-036, 037,	047, 060, 076, 077, 078, 0	81, 084, 087, 096, & 100
4. Does it appear that the area spatial interactions with other and lighting)?			Y⊠ N□ U□ N/A□
Yes it appears that the area interactions that could caus			
Does it appear that the area interactions that could cause			Y⊠ N□ U□ N/A□
The fire protection piping is qualified for spray & flooding	seismically an g as discussed	eaded fittings without welding. nalyzed, and EDG building is d in existing operability 88 and calculation IP-CALC-	
Does it appear that the area interactions that could caus			Y⊠ N□ U□ N/A□
Yes it appears that the area interactions that could caus			
	7		
<ol> <li>Does it appear that the area interactions associated with portable equipment, and ter shielding)?</li> </ol>	housekeeping		Y⊠ N□ U□ N/A□
safe shutdown SSCs and th	hould be tied o nerefore are ju ms in our pres	North East corner to EDG off. These items are not near adged acceptable seismically. Sence and CR IP2-2012-0623	8

ATTACHMENT 9.7	AREA	WALK-BY CHECKLIST
Sheet 3 of 7		IP2
Area Walk-By Checklist (AWC)AWC-011	Sta	atus: Y⊠ N□ U□
4		
SWEL Components: <u>SWEL1-036, 037, 047, 060, 076, 077, 078, 081</u>		
8. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment in the area?	Y⊠N□	υ□
Partitions between EDG's are shown on drawing 207634. These partitions between EDG's have multiple cracked welds (see photos below). These partitions are discussed in CR IP2-2003-03195, and seismically qualified in calculation FCX-00534. These partitions and calculation FCX-00534 require further investigation as cracked welds indicate a problem. CR IP2-2012-06278 issued to track investigation and resolution of the cracked welds. Walk down team judged partitions to be seismically adequate with cracked welds.		
Walk down team recommends redesigning the partitions to include personnel loads (i.e. handrail lateral loads) as observations showed most personnel hold onto the ends of the partition when stepping next to the EDG's as the transition from flat grating to the sloped partition base is difficult. Also recommend removing the sloped base as this makes walking next to the EDG's difficult and presents a safety issue.		
Comments (Additional pages may be added as necessary)  Grating south of 21 & 22 EDG's have their bearing bars spanning the wrot span east-west where they do not bear on structural floor beams. The beat degrees to bear on structural steel as the grating is cupping under just per are bearing all the weight. This is judged not to be a seismic issue but a set of 512 issued to track resolution. It should be noted that this deficiency was IP2-2005-03784, IP2-2008-04346, and IP2-2009-0195. Work request No. 2008 and work order IP2-05-01026.	aring bars rsonnel loa afety issue as previous	should be rotated 90 ad as the cross wires e. CR IP2-2012-sly noted in
Evaluated by: Nick Crispell	Date:	10-15-2012
Stephen Yuan	_	<u> 10-15-2012</u>
Stephen Yuan  Dan Nuta	_	10-15-2012

ATTACHMENT 9.7	AREA WALK-BY CHECKLIST
Sheet 4 of 7  Area Walk-By Checklist (AWC)AWC-011	IP2 Status: Y⊠ N⊡ U⊡
Location: Bldg. <u>EDG</u> Floor El. <u>All</u> Room, Area	

SWEL Components: <u>SWEL1-036, 037, 047, 060, 076, 077, 078, 081, 084, 087, 096, & 100</u>



**Note:** Multiple cracked welds on the partitions between EDG's.

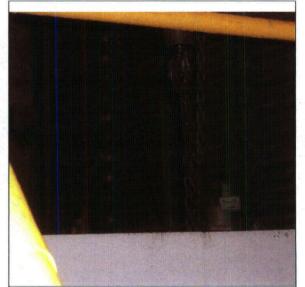


Note: Partitions between EDG's

ATTACHMENT 9.7		AREA WALK-BY CHECKLIS
Sheet 5 of 7		IP2
Area Walk-By Checkli	st (AWC)AWC-	Status: Y⊠ N□ U□
Location: Bldg. EDG	Floor El. All	Room, Area <sup>1</sup>
SWEL Components:	SWEL1-036, 037,	047, 060, 076, 077, 078, 081, 084, 087, 096, & 100



**Note:** Conduit above door needs support on west side of door. Large conduit above the light shown here. Conduit goes to box TPS-5.

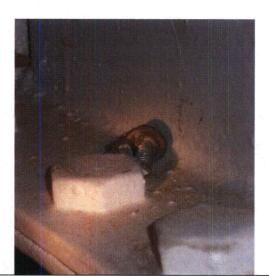


Note: Crane hook is not secured.

ATTACHMENT 9.7		AREA WALK-BY CHE	CKLIST
Sheet 6 of 7			IP2
Area Walk-By Checkli	st (AWC)AWC-	Status: Y⊠ N□	] U[]
Location: Bldg. EDG	Floor El. All	Room, Area <sup>1</sup>	
SWEL Components:	SWEL1-036, 037,	047, 060, 076, 077, 078, 081, 084, 087, 096, & 100	9



**Note:** Loose parts scattered around platform in north east corner of EDG's.



**Note:** Loose parts scattered around platform in north east comer of EDG's.

ATTACHMENT 9.7

AREA WALK-BY CHECKLIST

Sheet 7 of 7

**IP2** Status: Y⊠ N□ U□

Area Walk-By Checklist (AWC) \_\_\_\_AWC-011

Location: Bldg. EDG

\_ Floor El. All

\_ Room, Area<sup>1</sup>

**SWEL Components:** 

SWEL1-036, 037, 047, 060, 076, 077, 078, 081, 084, 087, 096, & 100



Note: General picture of a EDG in the area.



**Note:** Picture of grating south of EDG 21 & 22 that has baring bars spanning the wrong direction. A noticeable plastic deformation cupping of grating has occurred as cross wires are having to span the opening.

ATTACHMENT 9.7	AREA WAL	K-BY CHECKLIST
Sheet 1 of 9  Area Walk-By Checklist (AWC)AWC-012	Status:	<b>IP2</b> Y⊠ N□ U□
Location: Bldg. <u>FOST</u> Floor El. <u>77'-6"</u> Room, Area <sup>1</sup>		
SWEL Components: SWEL1-032		
Instructions for Completing Checklist		
This checklist may be used to document the results of the Area Walk-By near one space below each of the following questions may be used to record the results of Additional space is provided at the end of this checklist for documenting other contains the contains th	judgments and	
1. Does anchorage of equipment in the area appear to be free of potentially adverse seismic conditions (if visible without necessarily opening cabinets)?	Y N U	N/A
One pipe is supported from another pipe see photo below. This is a non typical pipe support. Design drawings for this support were not available at time of walk down. One pipe (insulated pipe) runs to the Emergency Domestic truck fill stop valve and the other orange pipes from the EDG building to near 23FOTP. LB-09 issued to resolve.		
The overhead pipe near the roof line of the EDG building is supported on three wide flange columns. These columns are supported on baseplates with some nuts not fully engaged. Typical of all three baseplates. LB-02 issued for resolution.		
There is a transmission tower located to the east of the area that is tall enough to fall into the area of this walk by. The transmission tower is judged to be adequate for seismic loading and therefore is acceptable.		
2. Does anchorage of equipment in the area appear to be free of significant degraded conditions?	Y⊠ N□ U□	] N/A□
Grout under base plate for orange pipe west of pump 23FOTP has multiple cracks and is missing a corner. It is judged acceptable for seismic loading in its existing condition. Cracks should be sealed to prevent further degradation. CR IP2-2012-06847 issued to track sealing of the cracks.		

<sup>&</sup>lt;sup>1</sup> If the room in which the SWEL item is located is very large (e.g., Turbine Hall), the area selected should be described. This selected area should be based on judgment, e.g., on the order of about 35 feet from the SWEL item.

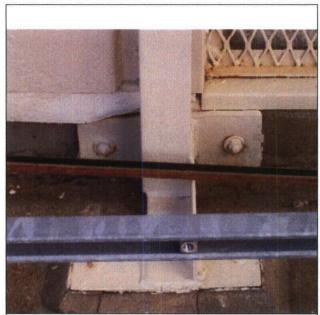
ATTACHMENT 9.7	AREA WALK-BY CHECKLIST
Sheet 2 of 9  Area Walk-By Checklist (AWC)AWC-012	IP2 Status: Y⊠ N□ U□
Location: Bldg. FOST Floor El. 77'-6" Room, Area 1	
SWEL Components: SWEL1-032	
3. Based on a visual inspection from the floor, do the cable/conduit raceways and HVAC ducting appear to be free of potentially adverse seismic conditions (e.g., condition of supports is adequate and fill conditions of cable trays appear to be inside acceptable limits)?	Y⊠ N□ U□ N/A□
Spring can on south side of overhead pipe is showing surface rust. Judged acceptable at this time.	
Yes based on a visual inspection from the floor, the cable/conduit raceways and HVAC ducting appears to be free of potentially adverse seismic conditions.	
4. Does it appear that the area is free of potentially adverse seismic spatial interactions with other equipment in the area (e.g., ceiling tiles and lighting)? Yes the area is free of potentially adverse seismic spatial interactions	Y⊠ N□ U□ N/A□
with other equipment in the area.	
5. Does it appear that the area is free of potentially adverse seismic interactions that could cause flooding or spray in the area?	Y⊠ N□ U□ N/A□
Yes the area is free of potentially adverse seismic interactions that could cause flooding or spray in the area. Additionally the area is an outdoor environment that is designed to be rained on. Flooding and spray water would runoff the elevated on grade slab and not pool to significant levels in the area.	
6. Does it appear that the area is free of potentially adverse seismic interactions that could cause a fire in the area?	Y⊠ N□ U□ N/A□
Yes the area is free of potentially adverse seismic interactions that could cause a fire in the area.	

ATTACHMENT 9.7	AREA WALK-BY CHECKLIST
Sheet 3 of 9	IP2
Area Walk-By Checklist (AWC)AWC-012	Status: Y⊠ N□ U□
Location: Bldg. FOST Floor El. 77'-6" Room, Area <sup>1</sup>	
SWEL Components: SWEL1-032	
7. Does it appear that the area is free of potentially adverse seismic	Y⊠ N□ U□ N/A□
interactions associated with housekeeping practices, storage of portable equipment, and temporary installations (e.g., scaffolding, lead shielding)?	
Yes the area is free of potentially adverse seismic interactions associated with housekeeping practices, storage of portable equipment, and temporary installations.	
Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment in the area?	Y⊠ N□ U□
Yes we have looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment in the area.	
Comments (Additional pages may be added as necessary)	
Following items are housekeeping and good practices. They are judged pose an seismic issues).	acceptable (i.e. they do not
A wood stick is left lying on the ground next to the EDG building. See ph CR IP2-2012-06542 issued to track resolution.	oto below.
Clear tubing running to EDG Fuel Oil Fill level panel is falling out of Unis CR IP2-2012-06542 issued to track resolution.	trut support. See photo below.
On grade slab has numerous cracks of large size. Not a seismic concer	n and no repair needed.
A trash bag filled with construction debris was left against the pipe south CR IP2-2012-06542 issued to track resolution.	of 21FOTP. See photo below.
Insulation is missing and damaged on discharge pipe from pump 21 FO CR IP2-2012-06542 issued to track resolution.	TP. See photo below.

ATTACHMENT 9.7	AREA WALK-BY CHECKLIST
Sheet 4 of 9	IP2
Area Walk-By Checklist (AWC)AWC-012	Status: Y⊠ N□ U□
Location: Bldg. FOST Floor El. 77'-6" Room, A	rea <sup>1</sup>
SWEL Components: SWEL1-032	
Evaluated by: Nick Crispell	Date: 10-16-2012
Dan Aluta	
Dan Nuta	<u>10-16-2012</u>

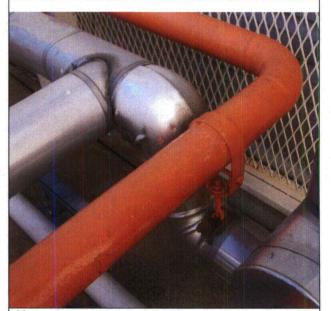
### **Photographs**

**SWEL Components:** 



SWEL1-032

**Note:** Cracked grout pad under baseplate for the orange pipe.

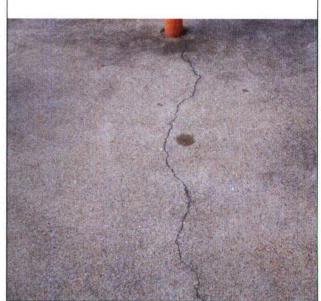


**Note:** One pipe is supported from another pipe. This is a none typical pipe support. One pipe (insulated pipe) runs to the Emergency Domestic truck fill stop valve and the other orange pipe from the EDG building into ground near 23FOTP.

ATTACHMENT 9.7	AREA WALK-BY CHECKI
Sheet 6 of 9	I <b>P2</b> Status: Y⊠ N⊟ U
Area Walk-By Checklist (AWC)	<u>C-012</u>
Location: Bldg. FOST Floor El. 73	Room, Area <sup>1</sup>
SWEL Components: SWEL1-032	



**Note:** Clear tubing lying on ground should be wire tied inside of the horizontal unistrut.



Note: Example of on grade slab crack.

ATTACHMENT 9.7

Sheet 7 of 9

Area Walk-By Checklist (AWC) AWC-012

Location: Bldg. FOST Floor El. 77'-6" Room, Area

SWEL Components: SWEL1-032



**Note:** Wood stick laying on ground next to EDG building.



**Note:** Trash bag full of construction trash lying next to pump 21FOTP.

ATTACHMENT 9.7	AREA WALK-BY CHECKLIST
Sheet 8 of 9	IP2 Status: Y⊠ N□ U□
Area Walk-By Checklist (AWC)AWC-012	Status. 1 No. 10
Location: Bldg. FOST Floor El. 77'-6" Room, Ar	ea <sup>1</sup>
SWEL Components: SWEL1-032	



**Note:** One of the baseplates for the overhead pipe that do not have full thread engagement.



**Note:** Another one of the baseplates for the overhead pipe that do not have full thread engagement.

ATTACHMENT 9.7	AREA WALK-BY CHECKLIST
Sheet 9 of 9  Area Walk-By Checklist (AWC)AWC-012	I <b>P2</b> Status: Y⊠ N□ U□
Location: Bldg. FOST Floor El. 77'-6" Room, Area	
SWEL Components: SWEL1-032	
Note: Pipe to pump 21FOTP that has damaged and missing insulation.	