Equipment ID No. <u>0DG012</u> Equip. Class ¹² (17) Engine Generato	rs
Equipment Description E4 Standby Diesel Generator	
Location: Bldg. <u>Diesel Generator</u> Floor El. <u>127</u> Room, Area <u>D/Building</u>	G-9
Manufacturer, Model, Etc. (optional but recommended) FAIRBANKS MA	RSE
Instructions for Completing Checklist This checklist may be used to document the results of the Seismic Walkdown of a SWEL. The space below each of the following questions may be used to record the findings. Additional space is provided at the end of this checklist for documenting the space is provided at the end of this checklist for documenting the space is provided at the end of this checklist for documenting the space is provided at the end of this checklist for documenting the space is provided at the end of this checklist for documenting the space is provided at the end of this checklist for documenting the space is provided at the end of this checklist for documenting the space is provided at the end of this checklist for documenting the space is provided at the end of this checklist for documenting the space is provided at the end of this checklist for documenting the space is provided at the end of this checklist for documenting the space is provided at the end of this checklist for documenting the space is provided at the end of this checklist for documenting the space is provided at the end of this checklist for documenting the space is provided at the end of this checklist for documenting the space is provided at the end of this checklist for documenting the space is provided at the end of this checklist for documenting the space is provided at the end of the spa	ne results of judgments and
	g outer comments.
Anchorage 1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?	YX NO
2. Is the anchorage free of bent, broken, missing or loose hardware?	YD NO UO N/AO
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	YD NO UO N/AO
4. Is the anchorage free of visible cracks in the concrete near the anchors?	YN UU N/AU
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.) Does not match configuration evaluated in Colculation No. 6280-E configuration has I" anchor boths securing skid to foundation instead occupied occupied for anticopated seismic loads per attached 6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? ANCHOR BOUT SIZE DISCREPANCY DOCUMENTED IN IN # A14-	YX N□ U□
- MUCHOR BOLT SIZE DISCREPANCY DOCUMENTED IN IR # 014.	38055

¹² Enter the equipment class name from Appendix B: Classes of Equipment.

Equipment ID No. <u>0DG012</u> Equip. Class ¹² (17) Engine Generate	ors	
Equipment Description E4 Standby Diesel Generator		
Interaction Effects		
7. Are soft targets free from impact by nearby equipment or structures? TUMPUTATIONE GAUGU ON SCAJENGING AIR COILUR INLUT C.		N/A□
ADJACENT LINE AND HOUSING CONLD CRACK. WHI NOT	AFFECT SAFE	TY FUNCTION
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? FLUBRESCENT LIGHT TUBES FACING SUDGED CRE	AR NO no	V - V
NOT SIGNIFICANT	•	
9. Do attached lines have adequate flexibility to avoid damage?	YE NO UO	N/A 🗆 🗀 🗀
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	חח מא מא	
Other Adverse Conditions 11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment?	YE NO UO	
Comments (Additional pages may be added as necessary)		NA CONTRACTOR
IPEEE: - CRANE CONTROLLET ATTACHET TO WALL		
- ANGLE NOON ATTACK WISLDED TO SUPPORT PREVENT LATURAL MOTION OF VIBRATION ISOL PANIEL	STRUCTURY ATORS ON CO	TO INTROL GAUGL
Evaluated by: Quint Wiggin	Date: 9/17	5106/1
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Size	Dia	Regundir	Dia.	External	Internal ²	Area	Stress Area
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#1*	0.073	64	0.0629	0.0544	0.0561	0.00218	0.00263
#2	0.086	56	0.0744	0.0648	0.0667	0.0031	0.0037
#3*	0.099	48	0.0855	0.0741	0.0764	0.00406	0.00487
#4	0.112	40	0.0958	0.0822	0.0849	0.00496	0.00604
#5	0.125	40	0.1088	0.0952	0.0979	0.00672	0.00796
#6	0.138	32	0.1177	0.1008	0.1042	0.00745	0.00909
#8	0.164	32	0.1437	0.1268	0.1302	0.01196	0.014
#10	0.19	24	0.1629	0.1404	0.1449	0.0145	0.0175
#12*	0.216	24	0.1889	0.1664	0.1709	0.0206	0.0242
1/4	0.25	20	0.2175	0.1905	0.1959	0.0269	0.0318
5/16	0.3125	18	0.2764	0.2464	0.2524	0.0454	0.0524
3/8	0.375	16	0.3344	0.3005	0.3073	0.0678	0.0775
7/16	0.4375	14	0.3911	0.3525	0.3602	0.0933	0.1063
1/2	0.5	13	0.45	0.4084	0.4167	0.1257	0.1419
9/16	0.5625	12	0.5084	0.4633	0.4723	0.162	0.182
5/8	0.625	11	0.566	0.5168	0.5266	0.202	0.226
3/4	0.75	10	0.685	0.6309	0.6417	0.302	0.334
7/8	0.875	9	0.8028	0.7427	0.7547	0.419	0.462
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2	2	4.5	1.8557	1.7353	1.7594	2.3	2.5
21/4	2.25	4.5	2.1057	1.9853	2.0094	3.02	3.25
21/2	2.5	4	2.3376	2.2023	2.2294	3.72	4
2¾	2.75	4	2.5876	2.4523	2.4794	4.62	4.93
3	3	4	2.8376	2.7023	2.7294	5.62	5.97
31/4	3.25	4	3.0876	2.9523	2.9794	6.72	7.1
31/2	3.5	4	3.3376	3.2023	3.2294	7.92	8.33
33/4	3.75	4	3.5876	3.4523	3.4794	9.21	9.66
4	4	4	3.8376	3.7023	3.7294	10.61	11.08

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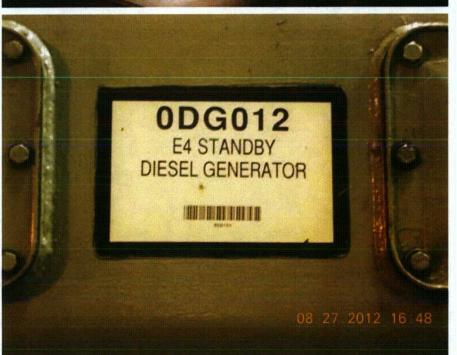
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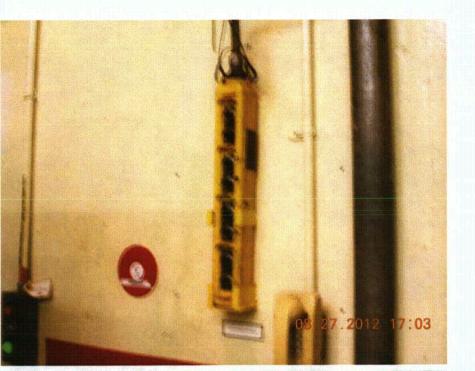


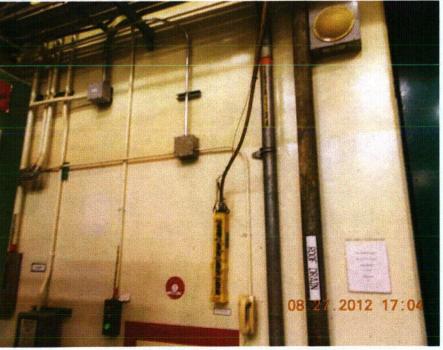


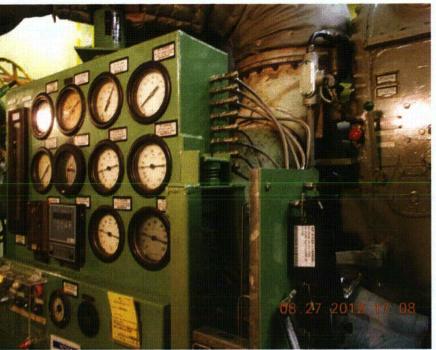


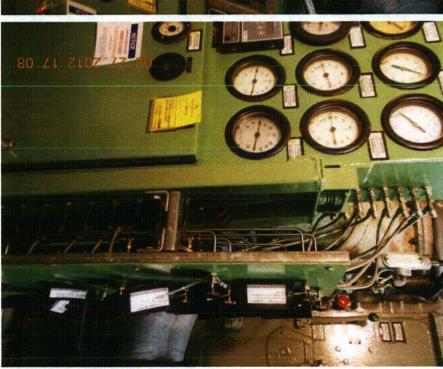












060 KI 8/27/12	
Equipment ID No. ODP167 Equip. Class 12 (05) Horizontal Pum	os .
Equipment Description E4 D/G Lube Oil Transfer Pump	
Location: Bldg. <u>Diesel Generator</u> Floor El. <u>127 +2+ 1647-165</u> Room, Area <u>D</u> <u>Building</u> 127 11/8/12	/G-9
Manufacturer, Model, Etc. (optional but recommended)	
Instructions for Completing Checklist	
This checklist may be used to document the results of the Seismic Walkdown of SWEL. The space below each of the following questions may be used to record a findings. Additional space is provided at the end of this checklist for documenting the space is provided at the end of this checklist for documenting the space is provided at the end of this checklist for documenting the space.	the results of judgments and
Anchorage	·
1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?	Y UY
2. Is the anchorage free of bent, broken, missing or loose hardware?	YE NO UO N/AO
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	YU NO UO N/AO
4. Is the anchorage free of visible cracks in the concrete near the anchors?	YE NO UO N/AO
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 UU UU N/A
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	¥ N□ U□

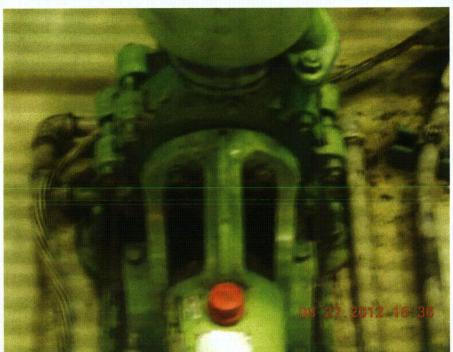
¹² Enter the equipment class name from Appendix B: Classes of Equipment.

. 4.

Equipment ID No. ODP162 (Marizontal Pum) Equipment ID No. ODP162 (Marizontal Pum)	ps	
Fuel Equipment Description E4 D/G Luke Oil Transfer Pump		
Interaction Effects		
7. Are soft targets free from impact by nearby equipment or structures? NO SOFT TARGETS	YO'NO UO N/AO	۳.
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	YE NO UO N/AO	or a halfed Look a har
9. Do attached lines have adequate flexibility to avoid damage?	YE NO UO N/AO	in order had
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	YU NO UO	in districtive Karalisa Africa
Other Adverse Conditions		. 47
11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment?	YEYNO UO	
Comments (Additional pages may be added as necessary)		en e
N/A		
Evaluated by: Game Waggin	Date: 9/17/2012	
Evaluated by: Gank Wiggin	9117/2012	





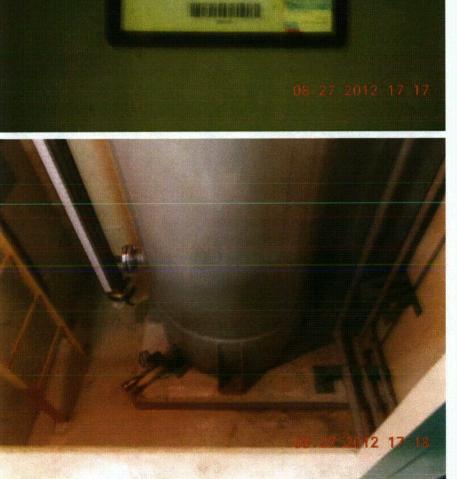


Equipment ID No. <u>0DT40</u> Equip. Class ¹² (21) Tanks or Heat E	xchangers (Vertical)
Equipment Description E4 Diesel Generator Fuel Oil Day Tank	·
Location: Bldg. <u>Diesel Generator</u> Floor El. <u>127</u> Room, Area <u>D. Building</u>	/G-9
Manufacturer, Model, Etc. (optional but recommended)	[81 3. 1
Instructions for Completing Checklist	
This checklist may be used to document the results of the Seismic Walkdown of SWEL. The space below each of the following questions may be used to record findings. Additional space is provided at the end of this checklist for documenting the space is provided at the end of this checklist for documenting the space is provided at the end of this checklist for documenting the space is provided at the end of this checklist for documenting the space is provided at the end of this checklist for documenting the space is provided at the end of this checklist for documenting the space is provided at the end of this checklist for documenting the space is provided at the end of this checklist for documenting the space is provided at the end of this checklist for documenting the space is provided at the end of this checklist for documenting the space is provided at the end of this checklist for documenting the space is provided at the end of this checklist for documenting the space is provided at the end of this checklist for documenting the space is provided at the end of this checklist for documenting the space is provided at the end of this checklist for documenting the space is provided at the end of this checklist for documenting the space is provided the space i	the results of judgments and
Anchorage	
1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?	YEND
2. Is the anchorage free of bent, broken, missing or loose hardware?	YE NO UO N/AO
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	YE NO UO N/AO
4. Is the anchorage free of visible cracks in the concrete near the anchors?	YM NO UO N/AO
To Assist the Committee of the Committee	
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.)	YO'NO UO N/AO
CONFIGURATION MATCHES DWO 11905763, REV. 7	
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	YE NO UO

 $^{^{12}}$ Enter the equipment class name from Appendix B: Classes of Equipment.

Equipment ID No. <u>0DT40</u> Equip. Class ¹² (21) Tanks or Heat E	exchangers (Vertical)
Equipment Description E4 Diesel Generator Fuel Oil Day Tank	
Interaction Effects	
7. Are soft targets free from impact by nearby equipment or structures?	YM U NA
NO SOFT TARBETS	
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	YM NO UO N/AO
9. Do attached lines have adequate flexibility to avoid damage?	YM NO UO N/AO
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	YE NO UO
Other Adverse Conditions	
11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment?	YE NO UO
Comments (Additional pages may be added as necessary)	
N/A	
Evaluated by:	Date: 8/28/2012
X. De	8/28/2017





Equipment ID No. ODV091 Equip. Class ¹² (09) Fans	
Equipment Description D/G Building Vent Supply Fan	
Location: Bldg. <u>Diesel Generator</u> Floor El. <u>151</u> Room, Area <u>D</u> <u>Building</u>	/G-20
Manufacturer, Model, Etc. (optional but recommended)	
Instructions for Completing Checklist	
This checklist may be used to document the results of the Seismic Walkdown of SWEL. The space below each of the following questions may be used to record findings. Additional space is provided at the end of this checklist for documenting the space is provided at the end of this checklist for documenting the space is provided at the end of this checklist for documenting the space is provided at the end of this checklist for documenting the space is provided at the end of this checklist for documenting the space is provided at the end of this checklist for documenting the space is provided at the end of this checklist for documenting the space is provided at the end of this checklist for documenting the space is provided at the end of this checklist for documenting the space is provided at the end of this checklist for documenting the space is provided at the end of this checklist for documenting the space is provided at the end of this checklist for documenting the space is provided at the end of this checklist for documenting the space is provided at the end of this checklist for documenting the space is provided at the end of this checklist for documenting the space is provided at the end of this checklist for documenting the space is provided the space i	the results of judgments and
Anchorage	
1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?	YEA NO
Verified per dag 6280-5-980-0 Rev 015,	rect 10(1)
2. Is the anchorage free of bent, broken, missing or loose hardware?	YAND UD N/AD
3. Is the anchorage free of corrosion that is more than mild surface oxidation? Mild surface oxidation is accept	yzno uo n/ao otable
4. Is the anchorage free of visible cracks in the concrete near the anchors?	YANO UO N/AO
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.)	YA NO UO N/AO
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	YAND UD

 $^{^{12}\,\}mathrm{Enter}$ the equipment class name from Appendix B: Classes of Equipment.

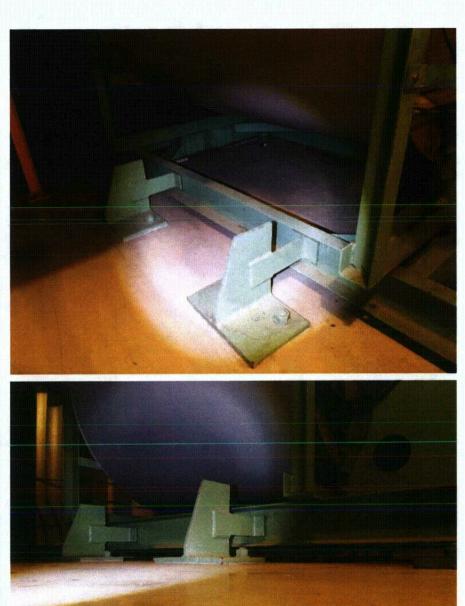
Equipment ID No. ODV091 Equip. Class ¹² (09) Fans	
Equipment Description <u>D/G Building Vent Supply Fan</u>	
Interaction Effects	
7. Are soft targets free from impact by nearby equipment or structures? No soft targets which is a	YN NO UO N/AO
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? **The Concurrence of the equipment of the equipm	YAND UD N/AD
9. Do attached lines have adequate flexibility to avoid damage?	YAND UD N/AD
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	YZ NO UO
Other Adverse Conditions	
11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment?	NO UO
Comments (Additional pages may be added as necessary)	
	· .
Evaluated by: An Don	Date: 9/12/12
Ben Fy	9/13/12

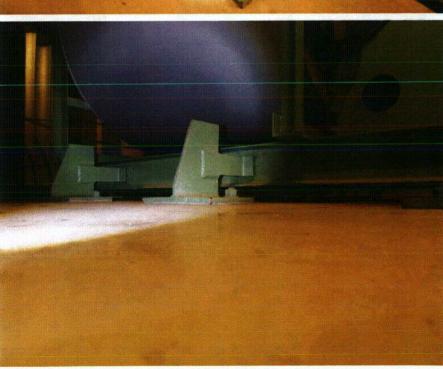




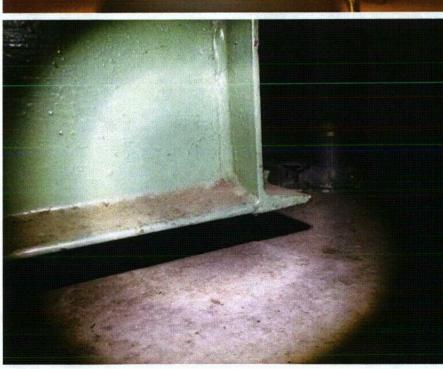


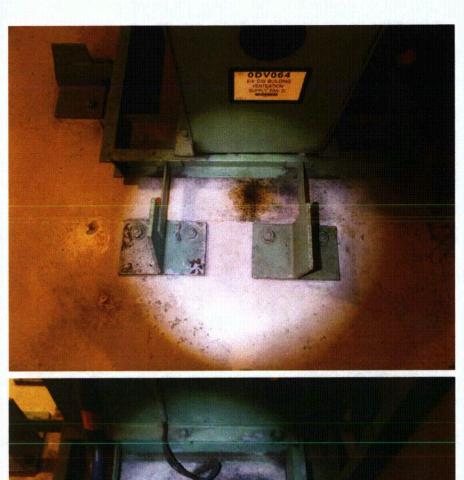






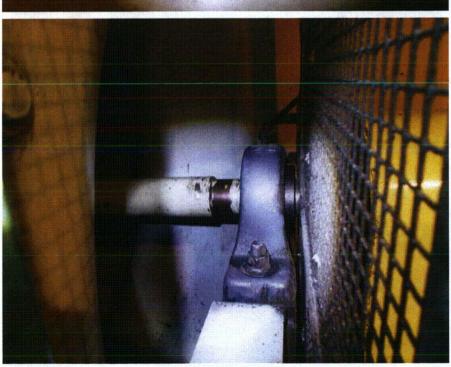












	Equipment ID No. 0HT95 Equip. Class ¹² (21) Tanks or Heat	Exchangers (Vertical)
	Equipment Description E4 Diesel Generator Starting Air Reservoir	<u></u>
•	Location: Bldg. <u>Diesel Generator</u> Floor El. <u>127</u> Room, Area <u>Building</u>	D/G-9
	Manufacturer, Model, Etc. (optional but recommended)	
•	Instructions for Completing Checklist	
_	This checklist may be used to document the results of the Seismic Walkdown of SWEL. The space below each of the following questions may be used to record findings. Additional space is provided at the end of this checklist for documents	the results of judgments and
•	Anchorage	
	1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?	YX NO
	2. Is the anchorage free of bent, broken, missing or loose hardware?	YD NO UO N/AO
		·
	3. Is the anchorage free of corrosion that is more than mild surface oxidation?	Y□∕N□ U□ N/A□
	4. Is the anchorage free of visible cracks in the concrete near the anchors?	YD N U N/A
mu	ones not Dwa. # 6280-E5-11-6 (Rev. 6); as-built control instead of specified 344 anchor bolts. Judged occuptable for a per ottached evaluation. 6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? DISCREFANCY WAS EVALUATED PER NCR P900148 AN	XX NO UO
	BE ACCEPTABLE RE 11/5/2012	100000

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¹² Enter the equipment class name from Appendix B: Classes of Equipment.

Equipment ID No. 0HT95 Equip. Class ¹² (21) Tanks or Heat E	exchangers (V	ertical)
Equipment Description E4 Diesel Generator Starting Air Reservoir		· · · · · · · · · · · · · · · · · · ·
Interaction Effects		
7. Are soft targets free from impact by nearby equipment or structures? NO SOFT TARGETS	YD ND U	I□ N/A□
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	Y NI U	V ∏ N/A∏ sitte av Nasy tale
FLUBRESCENT-TUBES - WITHOUT-CASES FALLING IN	deed to	
BE CREDIBLE BUT NOT SIGNIFICANT		
9. Do attached lines have adequate flexibility to avoid damage?	YO NO U	J□ N/A□
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	YE NO U	V□ — Albert State Albert State
Other Adverse Conditions		, , , , ,
11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment?	א טא אט א	I □ State granat
Comments (Additional pages may be added as necessary) See adached evolution		e fut luit
Evaluated by: Gones Wiggin	_ Date:	117/2012
X. A.L	•	117/2012

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Coarse Thread UNC Series

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Design Home Screw Threads Thread System Unified Screw Threads **UNC** Coarse UNF Fine UNEF Extra Fine Unified Standard Series Tap Drill Constant Pitch Series Metric Screw Threads Torque in Bolts Introduction Torque Calculator Resources Bibliography,

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Size	Major Dia	Threads Per Inch	Pitch Dia	Minor Dia External) Minor Dia Internali	Minor Dia Area	Tensile Stress Area
	inch	20 4 (6)	incli	iliteli 1	Teachad leading Divers	sorinch	Signalis
#1*	0.073	64	0.0629	0.0544	0.0561	0.00218	0.00263
#2	0.086	56	0.0744	0.0648	0.0667	0.0031	0.0037
#3*	0.099	48	0.0855	0.0741	0.0764	0.00406	0.00487
#4	0,112	40	0.0958	0.0822	0.0849	0.00496	0.00604
#5	0.125	40	0.1088	0.0952	0.0979	0.00672	0.00796
#6	0.138	32	0.1177	0.1008	0.1042	0.00745	0.00909
#8	0.164	32	0.1437	0.1268	0.1302	0.01196	0.014
#10	0.19	24	0.1629	0.1404	0.1449	0.0145	0.0175
#12*	0.216	24	0.1889	0.1664	0.1709	0.0206	0.0242
1/4	0.25	20	0.2175	0.1905	0.1959	0.0269	0.0318
5/16	0.3125	18	0.2764	0.2464	0.2524	0.0454	0.0524
3/8	0.375	16	0.3344	0.3005	0.3073	0.0678	0.0775
7/16	0.4375	14	0.3911	0.3525	0.3602	0.0933	0.1063
1/2	0.5	13	0.45	0.4084	0.4167	0.1257	0.1419
9/16	0.5625	12	0.5084	0.4633	0.4723	0.162	0.182
5/8	0.625	11	0.566	0.5168	0.5266	0.202	0.226
3/4	0.75	10	0.685	0.6309	0.6417	0.302	0.334
7/8	0.875	9	0.8028	0.7427	0.7547	0.419	0.462
1	1	8	0.9188	0.8512	0.8647	0.551	0.606
1- 1/8	1.125	7	1.0322	0.9549	0.9704	0.693	0.763
1¼	1.25	7	1.1572	1.0799	1.0954	0.89	0.969
1-							

3/8	1.375	6	1.2667	1.1766	1.1946	1.054	1.155
11/2	1.5	6	1.3917	1.3016	1.3196	1.294	1.405
1¾	1.75	5	1.6201	1,5119	1.5335	1.74	1.9
2	2	4.5	1.8557	1.7353	1.7594	2.3	2.5
21/4	2.25	4.5	2.1057	1.9853	2.0094	3.02	3.25
21/2	2.5	4	2.3376	2.2023	2.2294	3.72	4
2¾	2.75	4	2.5876	2.4523	2.4794	4.62	4.93
3	3	4	2.8376	2.7023	2.7294	5.62	5.97
31/4	3.25	4	3.0876	2.9523	2.9794	6.72	7.1
31/2	3.5	4	3.3376	3.2023	3.2294	7.92	8.33
3¾	3.75	4	3.5876	3.4523	3.4794	9.21	9.66
4	4	4	3.8376	3,7023	3.7294	10.61	11.08

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Equipment ID No. A0-33-0241D Equip. Class ¹² (07) Fluid (Air/Hyd) Valves
Equipment Description ESW Outlet Block Valve from Diesel Generator E4 Coolers
Location: Bldg. <u>Diesel Generator</u> Floor El. <u>127</u> Room, Area <u>D/G-9</u> <u>Building</u>
Manufacturer, Model, Etc. (optional but recommended)
Instructions for Completing Checklist
This checklist may be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.
Anchorage
1. Is the anchorage configuration verification required (i.e., is the item one Y□ N of the 50% of SWEL items requiring such verification)?
2. Is the anchorage free of bent, broken, missing or loose hardware? Y ✓ N ∪ N/A □
3. Is the anchorage free of corrosion that is more than mild surface Y N U N/A□ oxidation?
4. Is the anchorage free of visible cracks in the concrete near the anchors? YMND UD N/AD ANCHORED TO STRUCTURAL STEEL WHICH IS ANCHORED TO CRACK - FREE CONCRETE
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□ V□ N/A
6. Based on the above anchorage evaluations, is the anchorage free of YXN□ U□ potentially adverse seismic conditions? • See offoched evaluation for acceptance of independent
anchorage for oir operator

 $^{^{12}\,\}mbox{Enter}$ the equipment class name from Appendix B: Classes of Equipment.

inite AA, J

Equipment ID No. A0-33-0241D Equip. Class ¹² (07) Fluid (Air/Hyd)	Valves						
Equipment Description ESW Outlet Block Valve from Diesel Generator E4 Coolers							
Interaction Effects 7. Are soft targets free from impact by nearby equipment or structures? \$10 \int \text{SOFT} \ TARGETS	Y☑ N□ U□ N/A□						
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Allow & 179/17	YM NO UO N/AO						
9. Do attached lines have adequate flexibility to avoid damage?	YE NO UO N/AO						
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	ער אם עם						
Other Adverse Conditions 11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment?	אל אם טם						
Comments (Additional pages may be added as necessary) N/A							
Evaluated by: Yerry Wiggin	Date: 9/24/2012						

Purpose

The lateral stiffnesses of the vertical support (two structural angles) attached to the operator of Air-Operated Valve AO-0-33-0241D and the pipe support (square structural tubing) attached downstream of the valve at the pipe elbow are calculated. The lateral stiffnesses of the supports are compared to help judge whether the valve being supported at two different locations (the diesel room wall and the top of the diesel engine base frame) could potentially cause damage to the valve during a seismic event.

Data

$$h_{angle} := 7ft$$

$$t_{angle} := 0.25in$$

$$L_{box,1} := 6in$$

$$L_{box,2} := 4in$$

2.

1860 1 487 N

5

$$t_{box} := 0.25in$$

$$h_{box.1} := 3.5ft$$

$$h_{box,2} := 2ft$$

$$I_{angle} := 1.23 in^4$$

$$I_{box.1} := 30.3 in^4$$

$$I_{box.2} := 8.22 in^4$$

$$E_{st} := 29 \times 10^6 psi$$

Stiffness Calculations

$$k_{angle} \coloneqq \frac{3 \cdot E_{st} \cdot I_{angle}}{h_{angle}}$$

Length of angle leg (from walkdown)

$$k_{angle} = 180.545 \frac{lbf}{in}$$

$$k_{box,1} := \frac{3 \cdot E_{st} \cdot I_{box,1}}{h_{box,1}}$$

$$k_{box.1} = 3.558 \times 10^4 \frac{lbf}{in}$$

$$k_{box.2} \coloneqq \frac{3 \cdot E_{st} \cdot I_{box.2}}{h_{box.2}^{3}}$$

$$k_{box.2} = 5.173 \times 10^4 \frac{lbf}{in}$$

$$k_{box} := \frac{k_{box,1} \cdot k_{box,2}}{k_{box,1} + k_{box,2}}$$

$$k_{box} = 2.108 \times 10^4 \frac{lbf}{in}$$

$$\frac{k_{box}}{2k_{angle}} = 58$$

Note that angle stiffness is multiplied by two since there are two supports.

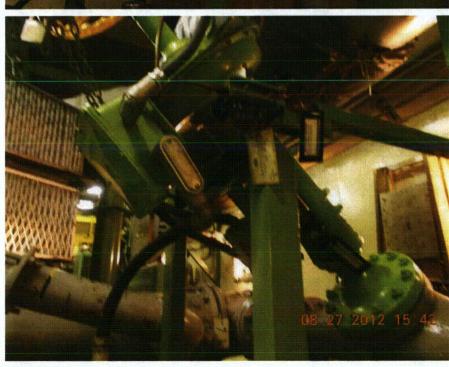
Conclusions

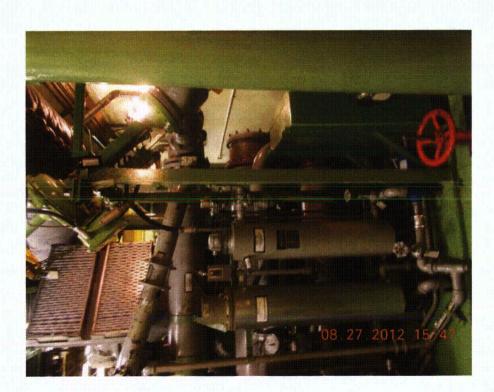
The lateral stiffness of the pipe support is an order of magnitude stiffer than the support at the valve operator. Thus, if there is any differential motion between the wall of the diesel room and the diesel engine base frame during a seismic event, the support at the valve operator will easily displace without imparting significant load to the valve operator. Additionally, a structural joint was not observed between the floor of the diesel room and the wall of the diesel room so any differential displacement between these two locations will be very small. The diesel engine baseframe is securely attached to the floor, and the base frame is very stiff, so the top of the base frame (where the operator support is anchored) should displace with the floor.









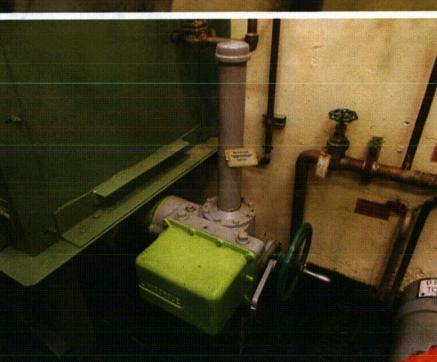


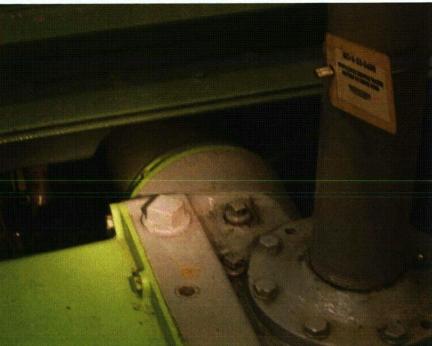
Mo-0-33-0498 GMF 8/p-2/cr Equipment ID No. MO-33-0498 GMF Equip. Class ¹² (08a) Motor Operate	d Valves	·
Equipment Description ESW Return to Discharge Pond		
Location: Bldg. <u>Diesel Generator</u> Floor El. <u>121 127 11/8/12</u> Room, Area <u>D</u> <u>Building</u>)/G-2	
Manufacturer, Model, Etc. (optional but recommended)		
Instructions for Completing Checklist		
This checklist may be used to document the results of the Seismic Walkdown of SWEL. The space below each of the following questions may be used to record findings. Additional space is provided at the end of this checklist for documenting the space is provided at the end of this checklist for documenting the space is provided at the end of this checklist for documenting the space is provided at the end of this checklist for documenting the space is provided at the end of this checklist for documenting the space is provided at the end of this checklist for documenting the space is provided at the end of this checklist for documenting the space is provided at the end of this checklist for documenting the space is provided at the end of this checklist for documenting the space is provided at the end of this checklist for documenting the space is provided at the end of this checklist for documenting the space is provided at the end of this checklist for documenting the space is provided at the end of this checklist for documenting the space is provided at the end of this checklist for documenting the space is provided at the end of this checklist for documenting the space is provided at the end of this checklist for documenting the space is provided at the end of this checklist for documenting the space is provided to the space i	the results of	judgments and
Anchorage		
1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?	Y NX	
2. Is the anchorage free of bent, broken, missing or loose hardware?	Y K ND U	JO N/ART 8/12/
A STATE OF THE STA		MO 8/27/1
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	Y N N	
	. •	MO
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Y NO U	J□ N/A 8/21/1
5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)	Y NO U	J□ N/A⊠
•		
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	Y M N□ U	ים

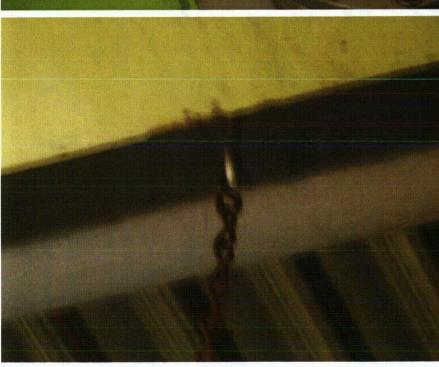
 $^{^{12}\,\}mathrm{Enter}$ the equipment class name from Appendix B: Classes of Equipment.

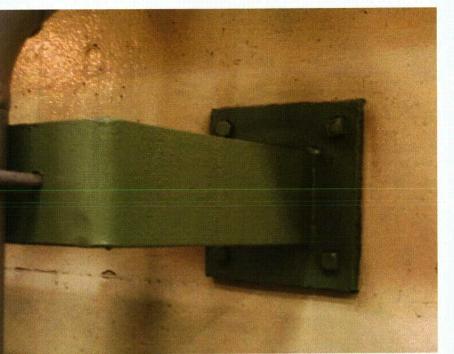
Equipment ID No. MO-33-0498 Equip. Class ¹² (08a) Motor Operated Valves
Equipment Description ESW Return to Discharge Pond
Interaction Effects
7. Are soft targets free from impact by nearby equipment or structures? Y⋈ N□ U□ N/A□ no soft +argets,
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, Y⊠ N□ U□ N/A□ and masonry block walls not likely to collapse onto the equipment?
- Overhead Cardox lines have threaded connections. Fluid is carbon dioxide and not a concern.
diskide and not a concern. - there is no concern if light bulbs fall during seismic event No ceiling tiles or masonry block. 9. Do attached lines have adequate flexibility to avoid damage? YN NU UU N/AU
7. Do attached lines have adequate hexiolity to avoid damage:
10. Based on the above seismic interaction evaluations, is equipment free Y⊠ N□ U□ of potentially adverse seismic interaction effects?
Other Adverse Conditions
11. Have you looked for and found no other seismic conditions that could Y⊠ N□ U□ adversely affect the safety functions of the equipment?
Comments (Additional pages may be added as necessary) IPEEE - An approximate 1" radial gap is present between radiation element and MOV motor and appears to be adequate.
Evaluated by: Moghbae Date: 8/27/12
Ben Fry 8/29/12
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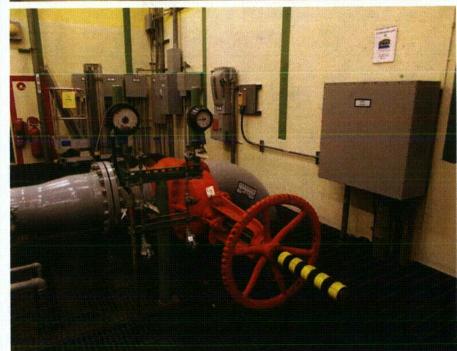








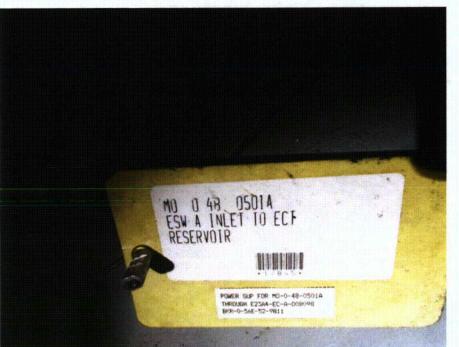


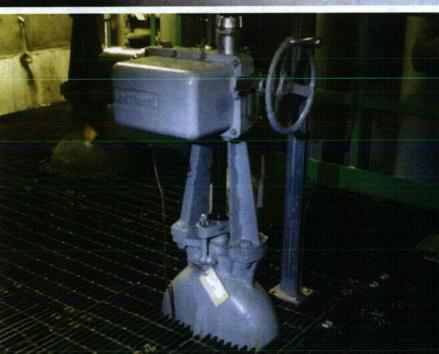


Equipment ID No. MO-48-0501A Equip. Class ¹² (08a) Motor Operate	d Valves
Equipment Description ESW A Inlet to ECT Reservoir	
Location: Bldg. <u>Emergency</u> Floor El. <u>114</u> Room, Area <u>E</u> . <u>Cooling Towers</u>	CT-1
Manufacturer, Model, Etc. (optional but recommended)	10.7.39
Instructions for Completing Checklist	
This checklist may be used to document the results of the Seismic Walkdown of SWEL. The space below each of the following questions may be used to record findings. Additional space is provided at the end of this checklist for documenting	the results of judgments and
Anchorage	
1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?	AD NIX
2. Is the anchorage free of bent, broken, missing or loose hardware? Line mounted component	Y⊠ N□ U□ N/A□
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	YN UU N/AU
4. Is the anchorage free of visible cracks in the concrete near the anchors?	YK NO UO N/AO
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 NO UO N/AX
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	YN UU

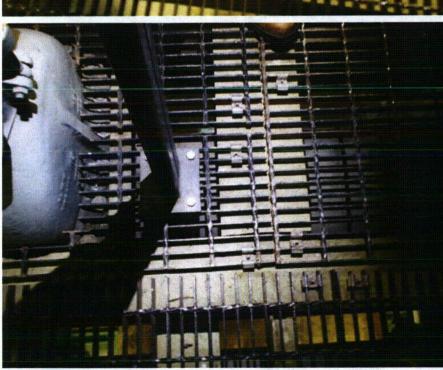
¹² Enter the equipment class name from Appendix B: Classes of Equipment.

Equipment ID No. MO-48-0501A Equip. Class ¹² (08a) Motor Operate	d Valves
Equipment Description ESW A Inlet to ECT Reservoir	
Interaction Effects	
7. Are soft targets free from impact by nearby equipment or structures? No 50f+ target3	YX NO UO N/AO
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	YM NO UO N/AO
Falling light bulbs not titlety to cause damage to equipment Lightling properly secured with closed 5-hooks.	nt.
9. Do attached lines have adequate flexibility to avoid damage?	YM NO UO N/AO
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	YN NO UO
Other Adverse Conditions	
11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment?	YX NO UO
	·
Comments (Additional pages may be added as necessary)	
	·
	,
m. alboe	a /2 8/12
Evaluated by: Meghbae	Date: 8/28/12
Ben Jug	8/28/12











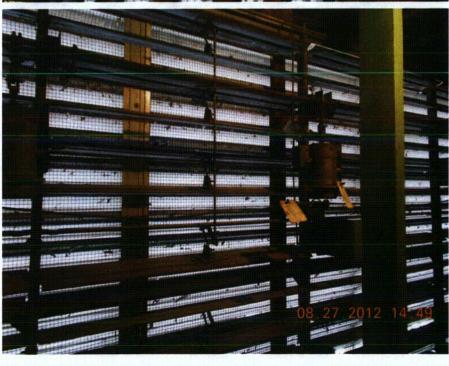


P0 - 0 - 40 F - 00272 - 01 No PO - 00275-1 Equip. Class 12 (10) Air Handlers	
Equipment Description Master for Ex EDG Building Vent Supply Fan Outside	Air Damper
Location: Bldg. <u>Diesel Generator</u> Floor El. <u>151</u> Room, Area <u>D</u> <u>Building</u>	/G-19
Manufacturer, Model, Etc. (optional but recommended)	
Instructions for Completing Checklist	
This checklist may be used to document the results of the Seismic Walkdown of SWEL. The space below each of the following questions may be used to record findings. Additional space is provided at the end of this checklist for documenting	the results of judgments and
Anchorage	
1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?	Y□ N
2. Is the anchorage free of bent, broken, missing or loose hardware?	YU NO UO N/AO
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	YM NO UO N/AO
4. Is the anchorage free of visible cracks in the concrete near the anchors?	YE NO UO N/AO
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.)	YO NO UO N/AX
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	YX NO UO

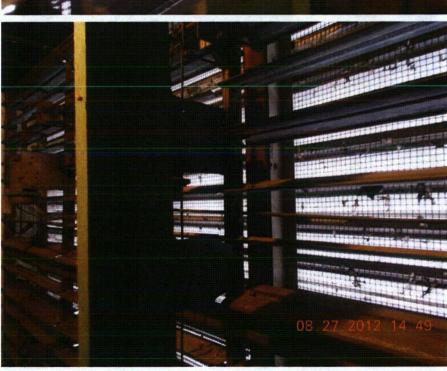
¹² Enter the equipment class name from Appendix B: Classes of Equipment.

PO-0-40f - 00272-01 MO 10/23/12 Equipment ID No PO-00276-1 Equip. Class ¹² (10) Air Handlers - 2 × 17 × 17 × 17 × 17 × 17 × 17 × 17 ×	
Equipment Description Master for ExEDG Building Vent Supply Fan Outside A	ir Damper
Interaction Effects	
	YE NO UO NAO
NO SOFT TARGETS	
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	YE'NO UO N/AO
NO OVERHEAD EQUIPMENT	
9. Do attached lines have adequate flexibility to avoid damage?	YN UN N/AN.
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	YE NO UO
	:
Other Adverse Conditions	
11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment?	YE NO UO
CLISE SPACING BUT WEEN AYDRAMIC AUTHATOR AND COULD RESULT IN RATTLE, BUT WILL NOT AFF 1-09	D SUPPORT PLATE T SAFOTY FUNCTION
Comments (Additional pages may be added as necessary)	
NA	
Evaluated by: Janus Wiggin	Date: 9/17/2012
Evaluated by: Yang Wagun,	Plate: 7/17/2012











PO-0-40f-00272-02 Mo 10/23/12 Equipment ID NoPO-00278-2- Equip. Class ¹² (10) Air Handlers	
Equipment Description Master for E#EDG Building Vent Supply Fan Return A	ir Damper
Location: Bldg. <u>Diesel Generator</u> Floor El. <u>151</u> Room, Area <u>D</u>	/G-19
Manufacturer, Model, Etc. (optional but recommended)	
Instructions for Completing Checklist	
This checklist may be used to document the results of the Seismic Walkdown of SWEL. The space below each of the following questions may be used to record findings. Additional space is provided at the end of this checklist for documenting the space is provided at the end of this checklist for documenting the space is provided at the end of this checklist for documenting the space is provided at the end of this checklist for documenting the space is provided at the end of this checklist for documenting the space is provided at the end of this checklist for documenting the space is provided at the end of this checklist for documenting the space is provided at the end of this checklist for documenting the space is provided at the end of this checklist for documenting the space is provided at the end of this checklist for documenting the space is provided at the end of this checklist for documenting the space is provided at the end of this checklist for documenting the space is provided at the end of this checklist for documenting the space is provided at the end of this checklist for documenting the space is provided at the end of this checklist for documenting the space is provided at the end of this checklist for documenting the space is provided the space is provided to the sp	the results of judgments and
Anchorage	
1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?	Y NA
2. Is the anchorage free of bent, broken, missing or loose hardware?	YE NO UO N/AO
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	YE NO UO N/AO
4. Is the anchorage free of visible cracks in the concrete near the anchors?	YM NO UO N/AO
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 UU UU N/AX
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	YX NO UO
Charles for the state of the st	1924 J

 $^{^{12}\,\}mathrm{Enter}$ the equipment class name from Appendix B: Classes of Equipment.

PO - 0-40F - 00272 - 02 $\frac{MO}{10/23/12}$ Equipment ID No $\frac{PO-00275-2}{2}$ Equip. Class ¹² (10) Air Handlers	
Equipment Description Master for E# EDG Building Vent Supply Fan Return A	ir Damner
Interaction Effects	
7. Are soft targets free from impact by nearby equipment or structures? NO SOFT TARBUTS	YEND UD N/AD
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	YE NO UO N/AO
9. Do attached lines have adequate flexibility to avoid damage?	Y N U U N/A
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	ענט אר עניץ
Other Adverse Conditions	•
11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment?	YM UO
Comments (Additional pages may be added as necessary)	٠,
N/A	
<u> </u>	
Evaluated by: Janus Wiggin	Date: 9/17/2012
Evaluated by: January Wiggin,	9/17/2012







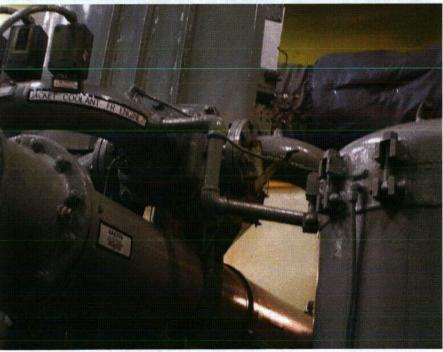
Equipment ID No. $\frac{TCV-0-52E-7239A}{8/31/12}$ Equip. Class ¹² (07) Fluid (Air/Hyd)	Valves
Equipment Description D/G Jacket Coolant 3-Way Thermostatic Control Valve	
Location: Bldg. <u>Diesel Generator</u> Floor El. <u>127</u> Room, Area <u>D. Building</u>	/G-3
Manufacturer, Model, Etc. (optional but recommended)	<u>. wia nana </u>
Instructions for Completing Checklist	
This checklist may be used to document the results of the Seismic Walkdown of SWEL. The space below each of the following questions may be used to record t findings. Additional space is provided at the end of this checklist for documenting	he results of judgments and
Anchorage	•
1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?	Y NZ
	·
2. Is the anchorage free of bent, broken, missing or loose hardware?	YA NO UO N/AO
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	YKÍN□ U□ N/A□
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Y_ N_ U_ N/A K
Anchored to OAE376 EI D/6 Jacket Coolant re	poler underneath value
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 NU UNAPA
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	YM NO UO

¹² Enter the equipment class name from Appendix B: Classes of Equipment.

TCV-0-52E-7239A

Equipment ID No. TCV-52E 7239A Equip. Class ¹² (07) Fluid (Air/Hyd)	Valve	<u>s</u>	·	
Equipment Description D/G Jacket Coolant 3-Way Thermostatic Control Valve			· · ·	
Interaction Effects				
7. Are soft targets free from impact by nearby equipment or structures?	Υ¤	N	U	N/A□
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	ΥØ	N□	υ🗆	N/A □ 747 - 144
Falling light bulbs during seismic will not have credible dan	rage.			
9. Do attached lines have adequate flexibility to avoid damage?	ΥØ	N□	U[]	N/A□
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	Υ Ž	N□	U	in and the second secon
Other Adverse Conditions			4 3	
11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment?	ΥØ	N□	U	
			·	
Comments (Additional pages may be added as necessary)			1.0	1111
Evaluated by: Bon Jay	_ Date	:	9/3	25/12
Evaluated by: Bur Jay			9/.	25/12
V			1	,





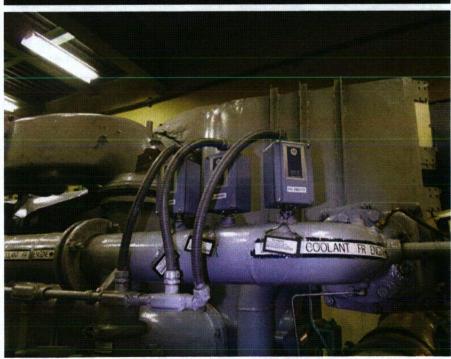


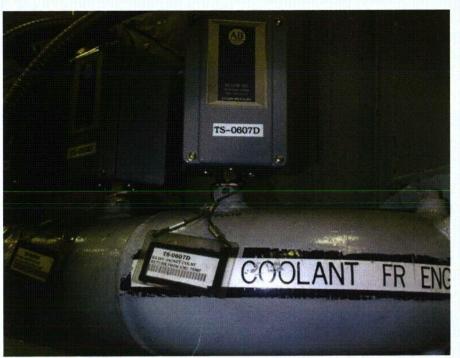
Equipment ID No. 13-0607D Equip. Class ¹² (19) Temperature	Sensors
Equipment Description E4 D/6 Jacket (polant Tenperatu)	+ Sensor
Location: Bldg. EDG Floor El. LA Room, Area 0/6-9 Manufacturer Model Etc. (optional but recommended)	
Manufacturer, Model, Etc. (optional but recommended)	
Instructions for Completing Checklist	
This checklist may be used to document the results of the Seismic Walkdown of SWEL. The space below each of the following questions may be used to record t findings. Additional space is provided at the end of this checklist for documenting the space is provided at the end of this checklist for documenting the space is provided at the end of this checklist for documenting the space is provided at the end of this checklist for documenting the space is provided at the end of this checklist for documenting the space is provided at the end of this checklist for documenting the space is provided at the end of this checklist for documenting the space is provided at the end of this checklist for documenting the space is provided at the end of this checklist for documenting the space is provided at the end of this checklist for documenting the space is provided at the end of this checklist for documenting the space is provided at the end of this checklist for documenting the space is provided at the end of this checklist for documenting the space is provided at the end of this checklist for documenting the space is provided at the end of this checklist for documenting the space is provided at the end of this checklist for documenting the space is provided at the end of this checklist for documenting the space is provided to the space is provided the s	he results of judgments and
Anchorage	•
1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?	Y NX
Line mounted confonent	·
2. Is the anchorage free of bent, broken, missing or loose hardware?	Y☑ N□ U□ N/A□
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	Y໘ N□ U□ N/A□
4. Is the anchorage free of visible cracks in the concrete near the anchors?	YN UU U/AU
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 NO UO N/ANZ
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	YN NO UO

 12 Enter the equipment class name from Appendix B: Classes of Equipment.

Equipment ID No. <u>T5-0607D</u> Equip. Class ¹² (19) Temperature	Sensors
Equipment ID No. <u>T5-0607D</u> Equip. Class ¹² (19) Temperature Equipment Description <u>E4 0/6 Jacket Loolant Jemperature</u>	re scugor
Interaction Effects	
7. Are soft targets free from impact by nearby equipment or structures? No soft fayet	YN NO UO N/AO
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	YN N U N/A
9. Do attached lines have adequate flexibility to avoid damage?	YM N□ U□ N/A□
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	YEND UD
Other Adverse Conditions	
11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment?	DU DN EAK
<u>Comments</u> (Additional pages may be added as necessary)	
Evaluated by: Ben Fr	Date:
Mille	Date: 10/8/12









Below are the names and signatures of the personnel who performed the area walk-bys.

Ben Frazier

Kevin Gantz

Mojtaba Oghbaei

Craig Swanner

James Wiggin

Caroline Schlaseman

The order of the Area Walk-By Checklists (AWC) for Unit 3 is shown in Table D-1 below and the order of the AWCs for Unit 0 (common) is shown in Table D-2.

Note: Photos for the AWCs are included in the base component SWC in Appendix C.

Table D-1. Unit 3 Area Walk-By Checklists (AWCs)

AWC- Ux-YY	Building	Elevation	Location	Component ID
U3-1	Turbine	135	T3-172	3DD03
U3-2	Turbine	135	T3-74	30D37
U3-3	Pump Structure	112	P/H-9	P030223-4
U3-4	Reactor	88	R3-15	30C87
U3-5	Turbine	135	T3-171	30X133
U3-6	Reactor	91	R3-11	LS3-23-91A
U3-7	Reactor	165	R3-40	3AC65
U3-8	Reactor	88	R3-13	30P033, 30P038
U3-9	Turbine	135	T3-170	3CD03
U3-10	Turbine	135	T3-169	3DD01
U3-11	Reactor	88	R3-9	3AP037
U3-12	Reactor	88	R3-14	30P036 & 30S038
U3-13	Reactor	135	R3-22	AO3-03-33
U3-14	Reactor	135	R3-29	30Y35
U3-15	Turbine	135	Recirc mg set room	30B324
U3-16	Reactor	91	R3-5	3AP035
U3-17	Reactor	116	R3-5	3AE058
U3-18	Reactor	91	R3-7	MO3-10-013C
U3-19	Reactor	116	R3-17	3CE24
U3-20	Reactor	116	R3-21	PT-5805
U3-21	Turbine	135	T3-70	3CD001
U3-22	Turbine	150	T3-81	30Y050
U3-23	Reactor	165	R3-116	30X030
U3-24	Reactor	165	R3-41	30X033
U3-25	Screen House	116	S/H-4	MO3-30- 3233A

potential	ly adverse seism cabinets)?		appear to be free of visible without nece	ssarily		
	·	•				
degraded	chorage of equip		appear to be free of	significant Y	N□ U□ N/A□	A 関連を対象 A TO
raceways	s and HVAC du conditions (e.g.,	cting appear to be condition of supp	or, do the cable/cond free of potentially ports is adequate and de acceptable limits	adverse I fill	s g] (1) (2) (2) (2) (3) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4

¹³ 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.

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Area Walk-By Checklist (AWC)

Location: Bldg. Turbine Floor El. 135 Room, Area 13 T3-15	72
5. Does it appear that the area is free of potentially adverse seismic interactions that could cause flooding or spray in the area? Threaded Fire piping is a double interlock pre (dry piping) per DBD No. P-5-51, Rev. 10	YX NO UO N/AO :
6. Does it appear that the area is free of potentially adverse seismic interactions that could cause a fire in the area?	YN UU N/AU
	A.
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)? No demonstry or portable equipment.	YX NO UO N/AO
8. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment in the area? Block wolls 40-4,-10,-17 and -19 are safety specification No. M-701, Rev. 1	Y)X/NO UO PBAPS
Comments (Additional pages may be added as necessary) Open S-hook condition recorded in IR #	01413285
Evaluated by: Of Officer	Date: <u>9/24/2018</u>
De Gr	9/24/2017

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Area Walk-By Checklist (AWC)

	Does anchorage of equipment in the area appear to be free of potentially adverse seismic conditions (if visible without necessarily opening cabinets)?		םט םו	N/A□ (a tan (a a tan a a a a
2. Land schape para land Land schape and para land Land schape	Does anchorage of equipment in the area appear to be free of significan degraded conditions?	t. YX N	ם עם	N/A □ (2, 8) (2, 2, 3) (3) (3) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4
3. And the second secon	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)? Soveral stacked colde trays, but all lightly supported		en gebere.	N/A
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	NX(N	םט םי	N/A (10 to 10 to 1

¹³ 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.

Area Walk-By Checklist (AWC)

Location: Bldg. Turbine Floor El. 135 Room, Area 13 T3-74		**
5. Does it appear that the area is free of potentially adverse seismic interactions that could cause flooding or spray in the area? Throded five piping is a double-interlock pre-action per DBD No. P-5-51 Rev. 10 Broken pipe clamp observed on vent line for A See Comments for resolution	Y NX U N/A Piping) Herex Air Cooler 3AE014	· •
6. Does it appear that the area is free of potentially adverse seismic interactions that could cause a fire in the area?	YM N□ U□ N/A□ (d) (d)	· •;
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)? Several tool carts in area, but all have locked	YX NO UO N/AO HA AN	SI I Selo
A CONTRACTOR OF THE SECOND SECOND	• .	
8. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment in the area?	YX NO UE 12 98 to see	i e
Comments (Additional pages may be added as necessary) Broken pipe clamp condition recorded in IR #1	41365Z	
Evaluated by: Jenry Wiggin	Date: 4/24/2012	
7- 9x	9/24/2012	

Location: Bldg. Pump Shrooton El. 112 Room, Area 13 P/H-9
Instructions for Completing Checklist
This checklist may be used to document the results of the Area Walk-By near one or more SWEL items. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.
1. Does anchorage of equipment in the area appear to be free of y N□ U□ N/A□ potentially adverse seismic conditions (if visible without necessarily opening cabinets)?
2. Does anchorage of equipment in the area appear to be free of significant YN NO UO N/AO degraded conditions? Moderate to severe corresion on one pump base plate bolt judged occeptable, but should be checked per Aging Monograment Plan ADDRESSED IN IR # 01410116. KG 194117 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)?

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)?

¹³ 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.

Location: Bldg. Pump Structure Floor El. 112 Room, Area 13 9/H-	7 : : ;
Location. Ding. 1 orth 2 1000 Et. 110 Koom, Area. 211	7
5. Does it appear that the area is free of potentially adverse seismic interactions that could cause flooding or spray in the area?	YXX NO UO N/AO
6. Does it appear that the area is free of potentially adverse seismic interactions that could cause a fire in the area?	YX NO UO N/AO
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	YX NO UO N/AO
shielding? . Scattolding securely built or in-progress'	,
8. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment in the area?	YX NO UO
Comments (Additional pages may be added as necessary)	
N/A	•
*	
Evaluated by: Jany Wagnin	Date: 8/29/2012
7. Js	8/29/2012

Location: Bldg. Room, Area 13 R3-15	- 149 x
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 c	f judgments and findings.
Does anchorage of equipment in the area appear to be free of potentially adverse seismic conditions (if visible without necessarily opening cabinets)?	YX NO UO N/AO ACMART SE
2. Does anchorage of equipment in the area appear to be free of significant degraded conditions?	YX NO UO N/AO CARA CARA CARA CARA CARA CARA CARA CA
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)?	YX NO UO N/AO NO NA
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 U N/A 40 40 40 40 40 40 40 40 40 40 40 40 40

¹³ 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.

5. Does it appear that the area is free of potentially adverse seismic interactions that could cause flooding or spray in the area?	YΧ	N	י טו	N/A[]	 -9,1 -2,-41,1
	,	•				•
	<u> </u>					,
· Andrew Market (1997)			•	٠		
6. Does it appear that the area is free of potentially adverse seismic interactions that could cause a fire in the area?	YX	N	U <u>n</u> :	N/A[]	ते । पृष्ठ्य हैं रक्ष फर्स बरे
			•			
7. Does it appear that the area is free of potentially adverse seismic	Y)X(N	יםט	N/A[] : _:::* .	41 MG 43
interactions associated with housekeeping practices, storage of portable equipment, and temporary installations (e.g., scaffolding, lead						
shielding)? . Scattolding mounted to structural stool				-: : ;	řđ.	
				,		
	•					
8. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment in the area?	YX	N				Pas (Com No. 100 m No. 100 m
	Υ <mark>X</mark> X	N				
adversely affect the safety functions of the equipment in the area?	y X X			<u>.</u>	esc _i y a	
	y X			<u>.</u>	esc _i y a	- W ₁ O ₂ · ·
adversely affect the safety functions of the equipment in the area?	* <u>X</u> X			<u>.</u>	esc _i y a	- W ₁ O ₂ · ·
adversely affect the safety functions of the equipment in the area?	y X			<u>.</u>	esc _i y a	- W ₁ O ₂ · ·
adversely affect the safety functions of the equipment in the area?	v X				Xiga a	- W ₁ O ₂ · ·

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Area	Walk-By	Checklist	(AWC)
MAN	TTUIN WY	Olicoviist	(~ ~ ~ ~)

	Locati	on: Bldg. Turbine Floor El. 135 Room, Area 13 T3-15	<u> </u>	
Faul	This cl	hecklist may be used to document the results of the Area Walk-By near on below each of the following questions may be used to record the results of onal space is provided at the end of this checklist for documenting other c	judgments	
The Control	1.	Does anchorage of equipment in the area appear to be free of potentially adverse seismic conditions (if visible without necessarily opening cabinets)?	YX NO	U □ N/A □ 3 74 97 1, 11 12 1, 173
Barolin 1840 Handilan Maria Handilan 1948		Does anchorage of equipment in the area appear to be free of significant degraded conditions?	Ŋ Ź N□	U □ N/A □
e e e garagement Tagan Albagan a Salah Iyayan Salah	r d	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)?	YX NO	U N/A 3
en general de la companya de la comp	. 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)?	YX N	U N/A

≺ C-5 **≻**

¹³ 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.

Location: Bldg. Turbing Floor El. 135 Room, Area 13 17	,	÷ .	· 't
5. Does it appear that the area is free of potentially adverse seismic interactions that could cause flooding or spray in the area? Threaded Fire piping is a double-interlock pre (dry piping) per DBD No. P-5-51, Rev. 10		on system	
6. Does it appear that the area is free of potentially adverse seismic interactions that could cause a fire in the area?	YX	מט בא (N/A DF - 656 w
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)? No temporary or portable equipment		מט בוא)	N/A Programme grammer of the section for all the section for all the section for all the section
8. Have you looked for and found no other seismic conditions that could	ber	PBAP5	
Comments (Additional pages may be added as necessary) N/A	A AO		
Evaluated by: Ormy Wiggin	Dat	e: <u>9/1</u> 2	12013

AWC-U3-6 Sheet 1 of 2 Status: Ø N U

Area Walk-By Checklist (AWC)

	This cl	ctions for Completing	o document the cowing questions	may be used to	record the re	esults of	judgments	and findings.	in the SA
Solver So	1.	onal space is provided Does anchorage of ed potentially adverse so opening cabinets)?	quipment in the a	area appear to be s (if visible with	e free of out necessa			U N/A	Androne for
	igoria (19 Nga Tangan	Does anchorage of edegraded conditions		area appear to b	e free of sign	nificant	YXNO	U □ N/A □	
五人 原境期	nji sa matura. Prispla sa judi	Based on a visual ins raceways and HVAC seismic conditions (e conditions of cable to	ducting appear e.g., condition of	to be free of por supports is ade	entially adv quate and fil	erse		भ । अधिकारिकाल स्टेड्स्ट्रेस	ing the first purchase the region of the transfer of the first tight of the first
	4.	Does it appear that the interactions with oth lighting)?					₩		o o o o o o o o o o o o o o o o o o o

¹³ 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.

Location: Bldg. Records Floor El. 9 Room, Area 13 R3-11	J
5. Does it appear that the area is free of potentially adverse seismic interactions that could cause flooding or spray in the area?	YX NO UO N/AO
6. Does it appear that the area is free of potentially adverse seismic interactions that could cause a fire in the area?	YX NO UO N/AO - #PACAS
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)? No temporary or portable equipment.	YM NO UO N/AO A A A A A A A A A A A A A A A A A A
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□
Comments (Additional pages may be added as necessary)	Ex an an an in the second
Evaluated by: Grand Wagum 2- Gla	Date: 9/10/2012

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Locati	tion: Bldg. Reactor Floor El. 165 Room, Area 13 R3-40	
5+	uctions for Completing Checklist	
space	checklist may be used to document the results of the Area Walk-By near one or more SWEL items. The below each of the following questions may be used to record the results of judgments and findings. tional space is provided at the end of this checklist for documenting other comments.	* *
	Does anchorage of equipment in the area appear to be free of potentially adverse seismic conditions (if visible without necessarily opening cabinets)? Leose cover panel bolt on ponel 30 CDD1 judged acceptable since one other bolt (tight) will prevent cover panel motion.	·
	since one other bolt (tight) will proved cover panel motion.	
(SIZBLE 🐧 REL)	SSUE ADDRESSED IN TR # 1474737 K& 10115117 2. Does anchorage of equipment in the area appear to be free of significant YX N□ U□ N/A□ dégraded conditions?	Virtuga 8 in 2007 1 in 1
3. Part of the control Part of the control	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)? Cable 4005 1 2114 1000cc	gas Naj rechter a
4.	H. Does it appear that the area is free of potentially adverse seismic spatial YNN UNAL interactions with other equipment in the area (e.g., ceiling tiles and lighting)? Black wolls 410-6 through 410-10 safety-related per PBAPS specification No. M-701, Rev. 1 Temperary barriers judged not a credible throat to area SSCs due to broad, heavy base	Re Victor

¹³ 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.

Location: Bldg. Resolut Floor El. 165 Room, Area R3 - 40) · · · · · · · · · · · · · · · · · · ·
5. Does it appear that the area is free of potentially adverse seismic interactions that could cause flooding or spray in the area? Normal Waste Drain line w/ victoulic couplings of portion not a Credible flooding threat since value full of water	you NO UD N/AD and rusted workical system without normally
6. Does it appear that the area is free of potentially adverse seismic interactions that could cause a fire in the area?	Y NO UO N/AO y an accept to
7. Does it appear that the area is free of potentially adverse seismic	YM NO UO N/AO - TO AT MARK S
interactions associated with housekeeping practices, storage of portable equipment, and temporary installations (e.g., scaffolding, lead shielding)? Tool Cart and hose wheel have lacked wheel	Provide the Common State of the Common State o
8. Have you looked for and found no other seismic conditions that could	VALNET HEL
adversely affect the safety functions of the equipment in the area?	NO UD Company of early was a second of the company of the compan
Comments (Additional pages may be added as necessary)	Same to the second
N/A	
Evaluated by: Wingy	Date: 9/11/2012
Evaluated by: Janus Wiggin. X. Jan	9/11/2017

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Location: Bldg. Reactor Floor El.	Room, Area ¹²	R3-13		· .
Instructions for Completing Checklis	t ·	*	s	
This checklist may be used to document space below each of the following quest Additional space is provided at the end	tions may be used to record	the results of judg	gments and fi	
MANAGEMENT ISSUE ADDRESS 2. Does anchorage of equipment in	itions (if visible without ne B Cooler SAV23 (both 05-huith continual, Rev. 0 and jud ED IN IR #1411581. Kf	scessarily to moly 3AEO54) d gurotion wo	lors not s evolus c. Configui	motel tod in
degraded conditions?		14 () 15 () 16		s y when
्राहर अनुस्थान की स्वाहर्य है। इस्ते असे पुरुष १९०			New York	s to the second
3. Based on a visual inspection from raceways and HVAC ducting apseismic conditions (e.g., conditions of cable trays appear	pear to be free of potentiall on of supports is adequate a	y adverse and fill	(N□ U□	N/A

4. Does it appear that the area is free of potentially adverse seismic spatial Y N U N/A

interactions with other equipment in the area (e.g., ceiling tiles and

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lighting)?

¹³ 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.

Area Walk-By Checklist (AWC)

Location: Bldg. Receiver Floor El. 98 Room, Area 13 R3-13	
5. Does it appear that the area is free of potentially adverse seismic interactions that could cause flooding or spray in the area?	YX NO UO N/AO
and the second of the second o	
to the figure of the control of the state of	
6. Does it appear that the area is free of potentially adverse seismic interactions that could cause a fire in the area?	YX NO UO N/AO taga. ee laga t
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)?	YX NO UO N/AO, EDIVERNINE PER PER PER PER PER PER PER PER PER PE
. Tool carts have locked wheels. Other temperary equipment stored a significant dis	stance from SSCs
8. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment in the area?	YX NO UD Promo 1 Websell
Comments (Additional pages may be added as necessary)	To a Michigan Santa.
NIA	
Evaluated by: Janey Waggin	Date: 9/11/2012
2 ft	

AWC - U3 - 9 Sheet 1 of 2 Status: (Y) N U

Area Walk-By Checklist (AWC)

space	hecklist may be used to document the results of the Area Walk-By near on below each of the following questions may be used to record the results of onal space is provided at the end of this checklist for documenting other co	judgments and findings.
	Does anchorage of equipment in the area appear to be free of potentially adverse seismic conditions (if visible without necessarily opening cabinets)?	
Albania Albania	Does anchorage of equipment in the area appear to be free of significant degraded conditions?	YX NO UO N/AO CA CA ACA ACA ACA ACA ACA ACA ACA ACA
र प्रोक्षेत्रकोतं वर्षात्रकः ॥ १ प्रोक्षेत्रकोतं वर्षात्रकः ॥	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 NO UNA CONTRACTOR OF THE CON
1 8 1 9 2 1 1 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 NO UO N/AO COMO SERVICIONE SERV

¹³ 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.

Location: Bldg. Turbine Floor El. 135 Room, Area 13 T3-1	70	- ,
5. Does it appear that the area is free of potentially adverse seismic interactions that could cause flooding or spray in the area? Threaded fire piping is a devole-interlock pre-add (dry piping) per DBD No. P-5-51, Rev. 10	yon system	
6. Does it appear that the area is free of potentially adverse seismic interactions that could cause a fire in the area?	YX NO UO N/AO	y Solve - Egyptic Printer (Solve)
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)? No temporary or portable equipment	YX NO UO N/AC	gradi Pasar Alaman Di Bada
	- -	
8. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment in the area? Black walls 40-5,-11,-19 and -21 are safe PBAPS specification No. M-701, Rev. 1	th-usqueg bec AX N□ n□	The Residence of the Control of the
Comments (Additional pages may be added as necessary) N/A	Allen and Allen	**************************************
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	This space	checklist may be used to document the results of the Area Walk-By near one or more SWEL items. The below each of the following questions may be used to record the results of judgments and findings.
	,	tional space is provided at the end of this checklist for documenting other comments. 1. Does anchorage of equipment in the area appear to be free of potentially adverse seismic conditions (if visible without necessarily opening cabinets)?
: 1 ,	kinse. Ng	2. Does anchorage of equipment in the area appear to be free of significant YX N U N/A OF THE ACTION
er mener e saa Gebeur de Langue Gebeur de Langue		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)? Vertical clamp on one conduit support (suspended) judged acceptable due to law weight and presence of other supports
e line	entario de Signo de P	4. Does it appear that the area is free of potentially adverse seismic spatial YX N□ U□ N/A□ interactions with other equipment in the area (e.g., ceiling tiles and lighting)?

¹³ 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.

Area Walk-By Checklist (AWC)

	e area is free of potentially adverse seismic d cause flooding or spray in the area?	Y∭ N□ U□ N/A□
	general (1973) - General (1974) - Genera	۸.
	e area is free of potentially adverse seismic d cause a fire in the area?	YXND UD N/AD V 1 180 V 4
		•
Does it appear that the interactions associate equipment, and temporary	e area is free of potentially adverse seismic d with housekeeping practices, storage of portable orary installations (e.g., scaffolding, lead	YN NO UO N/AO - ; - FT 1 22 - FT 1 -
shielding)? . No demperory	er partable equipment	
	THE PERSON AND THE PROPERTY.	
Q Uave you looked for		VM NIC TIC
adversely affect the s	and found no other seismic conditions that could afety functions of the equipment in the area? wolls 40-12 and 40-22 are color No. M-701, Rev. 1	y¤ N□ U□
adversely affect the s Block BBAPS Specific Comments (Additional pages	and found no other seismic conditions that could afety functions of the equipment in the area? wolls 40-12 and 40-22 are control No. M-701, Rev. 1	
adversely affect the s PRAPS Specific Comments (Additional pages	and found no other seismic conditions that could afety functions of the equipment in the area? walls 40-12 and 40-22 are control No. M-701, Rev. 1	sately-moded per
adversely affect the s PRAPS Specific Comments (Additional pages	and found no other seismic conditions that could afety functions of the equipment in the area? wolls 40-12 and 40-22 are control No. M-701, Rev. 1	sately-related per
adversely affect the s Block BBAPS Specific Comments (Additional pages	and found no other seismic conditions that could afety functions of the equipment in the area? wolls 40-12 and 40-22 are control No. M-701, Rev. 1	sately-moded per
adversely affect the s PRAPS Specific Comments (Additional pages	and found no other seismic conditions that could afety functions of the equipment in the area? wolls 40-12 and 40-22 are control No. M-701, Rev. 1	sately-related per

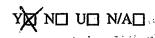
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degraded conditions?

structions for Completing Checkl	list	•	*	en e
nis checklist may be used to docume ace below each of the following que				
dditional space is provided at the en		ng other comme	nts.	aga yasa,
dditional space is provided at the en-	d of this checklist for documenting	YX	<u></u>	N/A

2. Does anchorage of equipment in the area appear to be free of significant YX N U V/A ...

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)?



4. Does it appear that the area is free of potentially adverse seismic spatial YNN UNAL interactions with other equipment in the area (e.g., ceiling tiles and lighting)?

Operator for volve CV-3-14A-5070 has < 0.5" the clearance to wall on 2.5" confilerer; value is non-safety related... no concern

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¹³ 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.

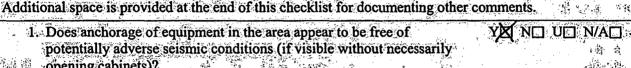
Area Walk-By Checklist (AWC)

Location: Bldg. Reactor Floor El. 91 Room, Area 13 R3-9	
5. Does it appear that the area is free of potentially adverse seismic interactions that could cause flooding or spray in the area?	YM N□ U□ N/A□
n termination of the second of	•
The state of the s	•
6. Does it appear that the area is free of potentially adverse seismic interactions that could cause a fire in the area?	YX NO UO N/AO SAPART RAS RAS RAS LABORATORA
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)?	YX NO UD N/AD CAMAR CANA CONTRACTOR AND CANA CONTRACTOR AND CANA CONTRACTOR OF CANADA
shielding)? No temporary or partable equipment	
8. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment in the area?	YX N□ U□ - R T P P P P P P P P P P P P P P P P P P
Comments (Additional pages may be added as necessary)	sample was standards as the
N/A	.*
Evaluated by: Gomes W.gam	Date: 9/10/7012
X GL	9/10/2012

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	The second secon
Location: Bldg. Rector Floor El. 88	Room, Area 13 R3-14
Bocation. Diug. 1.001 Div. 30	TOOLING TO COMPANY TO THE PROPERTY OF THE PROP
	The second remarkable of the second of
Instructions for Completing Checklist	ET AND THE TOTAL TRANSPORTERS AND THE TIME TO AN ADMINISTRATION AND THE TOTAL TRANSPORTERS AND THE TRANSPORTERS AN
	of the Area Walk-By near one or more SWEL items. The
space below each of the following questions may b	e used to record the results of 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)?



2. Does anchorage of equipment in the area appear to be free of significant degraded conditions? 部分操作



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)?



materials of an Hall out

4. Does it appear that the area is free of potentially adverse seismic spatial YX NE UE N/A interactions with other equipment in the area (e.g., ceiling tiles and

·Block wall # 16-2 satisfy-related per PBAPS spreit without No. M-701, Rev. 1

¹³ 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.

Location: Bldg. Room, Area Room, Area Room, Area Room, Area R3-14	
5. Does it appear that the area is free of potentially adverse seismic interactions that could cause flooding or spray in the area?	YX NO UO N/AO
「MANATA MANATA	
6. Does it appear that the area is free of potentially adverse seismic interactions that could cause a fire in the area?	YX NO UO N/AO BAYYAA AA
7. Does it appear that the area is free of potentially adverse seismic interactions associated with housekeeping practices, storage of portable	YX NO UO N/AO (BEAGAS ABA
equipment, and temporary installations (e.g., scaffolding, lead shielding)? Scaffolding securely mounted to Arrectural	and the second s
8. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment in the area?	YX NO UD (a) A (b) De (k) d' ; to d'A (b) by by fille d'
Comments (Additional pages may be added as necessary)	
N/A	
Evaluated by: Genus Wiggin	Date: 9/11/2012
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i	Location:	Bldg. RB	Floor El. 13	Roo	m, Area ¹³	/Vear	JC VCPVI	discharge
	Instruction	ns for Complet	ing Checklist					
	space belov	w each of the fo	to document the llowing question ed at the end of t	s may be used	to record the	results of	judgment	s and findings.
. (4) - 4, (1) 	- pote	entially adverse	equipment in the seismic condition Ekcepk	ns (if visible v	vithout neces	sarily fo		5V3-3
	2. Doe	es anchorage of raded condition	equipment in the	area appear t	o be free of si	gnificant	YE NE] U_ N/A_
; . v:				And were		et e grae		
1 1/2 K	race	eways and HVA	nspection from the C ducting appear (e.g., condition contrays appear to be	r to be free of of supports is a	potentially acidequate and	iverse fill	Y M -NC	U N/A
		475.4				ta e e	re. It	
:	ng Pygara Sa	45 2 34 3	a en		A Company of the Comp			and the second
je uni e Linda se			the area is free o				YE NE	U N/A
	1.7		ther equipment in		= .		٨	• •

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¹³ 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.

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Area Walk-By Checklist (AWC)

Location: Bldg.	RB	Floor El.	13.5 Roo	m, Area ¹³ _	near	SCR.	4M Dirch	19 KO	
interaction N	ns that could	cause floodings SEIS mic	of potentially a ng or spray in a lines	he area?			od 4	1	
6. Does it ap		area is free (of potentially a	dverse seism	ic , ; ;	YE NE	U N/AC	3 82 - 41 - 44 - 44	h t
interaction equipmen shielding) 8. Have you	ns associated t, and tempor of the second tempor of tempor	with housek cary installate diver, to the hot careful and found no fety function	other seismic o	es, storage of folding, lead has he	f portable	odjae t ca	J VD	HCU advers	र भू । अर्थी
Comments (Addi	target	3.		3 00	chamto	(byt		A sair	gir ⁱ s
Evaluated by:	<u> </u>		and the second s				9/25/12		

Location: Bldg. RB Floor El. 135 Room, Area 13 Near 30 V 035
Instructions for Completing Checklist This checklist may be used to document the results of the Area Walk-By near one or more SWEL items. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.
1. Does anchorage of equipment in the area appear to be free of potentially adverse seismic conditions (if visible without necessarily opening cabinets)? Can Tubing + ray support +0 3BCOGI adjacent to 3BCOGS; bouth anchor is exposed due to concret. Spawing, Administration where one chair judged to be adequate Remaining BMF 10/15/12
2. Does anchorage of equipment in the area appear to be free of significant YNN UNAL degraded conditions? Minor or detail of not a concern. Almor spawling of concrete in corner on groot Pad of 3A5051 is noted a deemed to be acceptable as-is. 3. Based on a visual inspection from the floor, do the cable/conduit YNN UNAL

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)?

Notation

Concerns idea to find.

seismic conditions (e.g., condition of supports is adequate and fill conditions of cable trays appear to be inside acceptable limits)?

1 Garage

¹³ 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.

Area Walk-By Checklist (AWC)

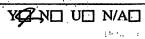
	ion: Bldg. <u>RB</u>	Floor El. 135 Room, Area ¹³	near 30%	135
5.	interactions that coul	ne area is free of potentially adverse sei		N U N/A
		stection line 15 proposes in 15		
.) ·:	The State of the S	ne area is free of potentially adverse sei		•
. 0.	interactions that cou	d cause a fire in the area?	SITUE ,	
		d cause a fire in the area?		
7.	interactions associate equipment, and temp	ne area is free of potentially adverse sei ed with housekeeping practices, storage orary installations (e.g., scaffolding, le	of portable ad	N U N/A DESPESSO DE LA COMPANSION DE LA
	1.0037.	e de la companya de	· · · · · · · · · · · · · · · · · · ·	
	<u> </u>	and found no other seismic conditions safety functions of the equipment in the		NO UE A A A WEW ASSIS SOME A STRAIGH
,		·		
Comn	nents (Additional pages	s may be added as necessary)		The second of th
Comn	nents (Additional pages	may be added as necessary)		
<u>Com</u> n	nents (Additional pages			
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	nents (Additional pages		Date	· · · · · · · · · · · · · · · · · · ·
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Location:	Bldg. Turb	WASTEFloor El	135	Room, Area ¹³	Recic.	MG	Sot.	:
								

Instructions for Completing Checklist

This checklist may be used to document the results of the Area Walk-By near one or more SWEL items. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

1. Does anchorage of equipment in the area appear to be free of potentially adverse seismic conditions (if visible without necessarily opening cabinets)?



2. Does anchorage of equipment in the area appear to be free of significant Y ▶ N□ U□ N/A□ → S space of anchor bolt penetrating wall near 308324 has no capacity because anchor mechanism does not engage any concrete. Other Adjacent room is Reducent degraded conditions? Backside confirmed not to any safety equipments topears to be not in

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)?

4. Does it appear that the area is free of potentially adverse seismic spatial Y N□ U□ N/A□ interactions with other equipment in the area (e.g., ceiling tiles and

II/I concerns. Overhead lighting Secure.

¹³ 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.

Area Walk-By Checklist (AWC) Turbine BME 9/12/12		2	\$
Location: Bldg. Party Floor El. 135 Room, Area 1901.	le Su	ut	
5. Does it appear that the area is free of potentially adverse seismic interactions that could cause flooding or spray in the area? Ned to Verry fire protection system in representation for Utsan ter section lage 2-4,	line	15 cset coor	, e
6. Does it appear that the area is free of potentially adverse seismic interactions that could cause a fire in the area?	WZ NI	UE NA	The Sept of the
		• .	
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)? Cart with blocks is adequated	le.	u n/a	TO SERVICE THE PROPERTY OF THE
A Maria M Maria Maria Ma			
8. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment in the area?	AG N	ָּטָט בּייַט	A CONTRACTOR
Comments (Additional pages may be added as necessary)		alotte South	
Andrew Committee			
		·	
Evaluated by: Ber Fry	Date: _	10/8/12	
Market		10/8/13	<u> </u>
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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 or Additional space is provided at the end of this checklist for documenting other or an area of the complete or area.	f judgments and findings.
Does anchorage of equipment in the area appear to be free of potentially adverse seismic conditions (if visible without necessarily opening cabinets)?	YAD UD N/AD COME SERVICE SERVI
2. Does anchorage of equipment in the area appear to be free of significant degraded conditions?	YAND UD N/AD
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)?	YEND UD NAD the state of the st
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)? No II / I 155005 (4.0) (free)	VE NO UP N/AD JUNE 1 TRE

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¹³ 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.

Locati	on: Bldg.	R.B	Floor El. 4	Room, Are	a ¹³ RHR	inia	r A	Pump
5.	interactions	that could	cause flooding	or spray in the area (w45)	2 5.	YA NO	U N/A	A D
		,		in and a second	at and an are the second of th		:	
6.				potentially adverse s he area?	seismic	YA NO	U N/A	
	· <u>-</u>		•					
7.	interactions	associated	with housekeep	potentially adverse sping practices, stora s (e.g., scaffolding,	ge of portable	YK NO	 	And the second of the contraction of the contractio
8.	adversely at	ooked for a	nd found no oth	er seismic condition	ns that could he area?	YP NO	A:	Donald Company
			nc thi	ited area	. Dovni	x4% 25	911	<u>.</u>
Comn	nents (Additio	onal pages n	nay be added as n	necessary)			er de	
Evalua	ated by:	Cray C	Defin			Date:	9/11/1	2
		Ber	fy_				9/12/1	12_

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Location: Bldg. Reactor Boll Proport El. Ale Room, Area 13 RHR A/C Rear 3AE058

Instructions for Completing Checklist

This checklist may be used to document the results of the Area Walk-By near one or more SWEL items. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

1. Does anchorage of equipment in the area appear to be free of potentially adverse seismic conditions (if visible without necessarily opening cabinets)? See 5 we for 3AE058. (This is answered for all office Gripments).

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)?

XXX ND ND N/AD

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)? No II/I issues identical.

YA NO UO N/AO WARA

¹³ 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.

Location: Bldg. KB Fi	oor El. 116 Room, Area 13	RHR A/C	near 3+	5058
interactions that could cau	ea is free of potentially adverse seisn use flooding or spray in the area?	nic YAN	UU NÄË]
No fire protect	ion line identifical	2 C 2	:	
	The second secon			•
6. Does it appear that the are interactions that could cau	ea is free of potentially adverse seismose a fire in the area?		U N/A] (25% ta (14% ta
7. Does it appear that the are	ea is free of potentially adverse seisn	nic YX	U UNAC] [448.9
	th housekeeping practices, storage o	f portable		14:00
equipment, and temporary	/ installations (e.g., scaffolding, lead		4, 4	s spirit
equipment, and temporary shielding)? Lead b	installations (e.g., scaffolding, lead ankets installed se		hained	40
shielding)? Lead bl	of blankots from		hamed	to no
shielding)? Lead bl patiel Loteral motion be a concern	of blankots from	corely & c		
shielding)? Lead blacked Lateral motion 100 a concern 8. Have you looked for and	of blankots from	overely & could you		
shielding)? Lead bladiel Lateral motion Oc a concern 8. Have you looked for and	of blankets from found no other seismic conditions the	overely & could you		
shielding)? Lead bladiel Loteral motion Oc a concern 8. Have you looked for and	of blankets from found no other seismic conditions the	overely & could you		
shielding)? Lead blacked Lateral motion be a concern 8. Have you looked for and adversely affect the safety	of blackets from found no other seismic conditions the functions of the equipment in the a	overely & could you		to no
shielding)? Lead blackiel Lateral motion Oc a concern 8. Have you looked for and adversely affect the safety	of blackets from found no other seismic conditions the functions of the equipment in the a	overely & could you		
shielding)? Lead blackiel Lateral motion Oc a concern 8. Have you looked for and adversely affect the safety	found no other seismic conditions the functions of the equipment in the a	overely & could you		
shielding)? Lead bleadile Loteral motion Oc a concern 8. Have you looked for and adversely affect the safety	found no other seismic conditions the functions of the equipment in the a	overely & could you		
shielding)? Lead blustiel Loteral motion Oc a concern 8. Have you looked for and	found no other seismic conditions the functions of the equipment in the a	overely & could you		

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Status: N U

Area Walk-By Checklist (AWC)	
	MO3-10-013
Location: Bldg. Room, Area 13 RHR C	non Mo-
Instructions for Completing Checklist	
This checklist may be used to document the results of the Area Walk-By near on 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 tha	judgments and findings.
1. Does anchorage of equipment in the area appear to be free of	YAND UD N/AD: 5
potentially adverse seismic conditions (if visible without necessarily	10.75
opening cabinets)?	* · · · · · · · · · · · · · · · · · · ·
	,
2. Does anchorage of equipment in the area appear to be free of significant	YA NO UO NAO
degraded conditions?Mild oxidation judged	to not be
an issue.	
	No.
3. Based on a visual inspection from the floor, do the cable/conduit	YEND UD N/AD
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)?	and the second of the second o
·	
	,
	•

4. Does it appear that the area is free of potentially adverse seismic spatial YAND UD N/AD interactions with other equipment in the area (e.g., ceiling tiles and lighting)?

¹³ 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.

Area Walk-By Checklist (AWC)	
Location: Bldg. Room, Area R Room, Area R R R	M03-10-013 C near 4013 A
5. Does it appear that the area is free of potentially adverse seismic interactions that could cause flooding or spray in the area? No nin Seismic Imas ideatific	VELNO UO N/AO
tier van de state van de fant de state van de De state van de sta	
6. Does it appear that the area is free of potentially adverse seismic interactions that could cause a fire in the area?	YEND UD N/AD 19 day 6
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)? Scaffolding Second.	YZ NO UO N/AO COMO CO
大型,在1000年代,1000年代的1000年代,1000年代第二人的1000年代	
8. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment in the area?	YEND UD the constant of the
Comments (Additional pages may be added as necessary)	
- A. A/	
Evaluated by:	Date: 9/11//2

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Area Walk-By Checklist (AWC)

	onal space is provided at the end of this checklist for documenting other components of equipment in the area appear to be free of	YN NU UU	N/A□
en, n,e	potentially adverse seismic conditions (if visible without necessarily opening cabinets)?	, - , ,	n Carrier et Sport et le c
	Does anchorage of equipment in the area appear to be free of significant degraded conditions?	YD NO UO	N/A □
A SAMPLE SALES	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)?		Arthur Arthur
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)? Lighting second Via conducts	y k n□ u□	N/A D

¹³ 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.

Location: Bldg: Room, Area Real Republic	C/A NEM MO3-10-89C
5. Does it appear that the area is free of potentially adverse seismic interactions that could cause flooding or spray in the area?	YAND UD N/AD
No fire protection lines or other concerns identified.	spiay
6. Does it appear that the area is free of potentially adverse seismic interactions that could cause a fire in the area?	Y NO UE N/AO COM
7. Does it appear that the area is free of potentially adverse seismic interactions associated with housekeeping practices, storage of portal equipment, and temporary installations (e.g., scaffolding, lead shielding)?	VIN U□ N/A□ *** ble
	*
8. Have you looked for and found no other seismic conditions that coul adversely affect the safety functions of the equipment in the area?	d YX NO UO . V FILL S
Comments (Additional pages may be added as necessary)	
Evaluated by:	Date:
Bur Fry "	9/12/12

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space below each of the following	Checklist ocument the results of the Area Walk-By near on a guestions may be used to record the results of the end of this checklist for documenting other of the control of the checklist for documenting other or checklist for documenting other or checklist for documenting other or checklist for document of the checklist for document or checklist for	f judgments		
Does anchorage of equipotentially adverse seisr	oment in the area appear to be free of nic conditions (if visible without necessarily		U N/A	Superior Control
2. Does anchorage of equipment of degraded conditions?	oment in the area appear to be free of significant	YZ NO	U□ N/A□	क है के इंड एक
raceways and HVAC du seismic conditions (e.g.,	etion from the floor, do the cable/conduit acting appear to be free of potentially adverse condition of supports is adequate and fill appear to be inside acceptable limits)?	•	U □ N/A □	n mysteleten tool
interactions with other e	rea is free of potentially adverse seismic spatial equipment in the area (e.g., ceiling tiles and	Ϋ́Ϋ́Ν□	UE N/AE	

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¹³ 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.

		T5805
5. Does it appear that the area is free of potentially adverse seismic interactions that could cause flooding or spray in the area? No work non-Carb I p.p.ns dealtifled	YAND UD 1	√A □
6. Does it appear that the area is free of potentially adverse seismic	YZ NO UO 1	√A∏
interactions that could cause a fire in the area?		બહુજીન છે.
	•	
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)?	YZNO UO 1	N/A
and the second s	٠.	
8. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment in the area?	YKNU UU	
	,	
Comments (Additional pages may be added as necessary)		A TOP STORY
Comments (Additional pages may be added as necessary)		Web Johnson
Comments (Additional pages may be added as necessary)		W. J. S.
A of a state of the state of th	Date: _9/11/	1/2
Comments (Additional pages may be added as necessary) Evaluated by: San A	06.	1/2

Location: Bldg. TURB Floor El. 135 Room, Area ¹³ 3A-C	BATT	Room
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 c	f judgments	and findings.
Does anchorage of equipment in the area appear to be free of potentially adverse seismic conditions (if visible without necessarily opening cabinets)?	YM N□	U N/A N/A
	*	
2. Does anchorage of equipment in the area appear to be free of significant degraded conditions? MILD OXIDATTON ON 3ADDO I BATT R - CONSIDERED OK	Y⊠ N□ ACKS	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 adverse seismic conditions (e.g., condition of supports is adequate and fill conditions of cable trays appear to be inside acceptable limits)?	AM NO	U □ N/A □ *
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)? NO OPEN S-MOCKS ON LIGHTS	уД ип	U□ N/A□
		•

¹³ 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.

Location: Bldg. TUNG Floor El. 135 Room, Area 13 34-6	BATTERY A	loon
5. Does it appear that the area is free of potentially adverse seismic interactions that could cause flooding or spray in the area? FIRE PIPING BA DOUBLE-INTERLOCK PRE ORY PIPING PER DBD NO. P. 3-51, RO EYE WABH STATION SHORT/SRUNT— JUDGED TO NOT BE TIPPING SUDING CO	_	
6. Does it appear that the area is free of potentially adverse seismic interactions that could cause a fire in the area?	YIZ NO Û	
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)?	YZY N□ U	J□ N/A□: 28 4 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6
8. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment in the area?	YN ND U	PD We A A A A A A A A A A A A A A A A A A
Comments (Additional pages may be added as necessary) N/A	P c	
Evaluated by: Ben Jay	Date:/2	0/8/12
affice	_ ' '	10-8-2012

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Area Walk-By Checklist (AWC)	494	•	•	
<u> </u>		::	1	
Location: Bldg Floor El Room, Area ¹³	Cable	Special	ms Ream	_
Instructions for Completing Checklist				,
This checklist may be used to document the results of the Area Walk space below each of the following questions may be used to record the Additional space is provided at the end of this checklist for document	he results	of judgments		ie
 Does anchorage of equipment in the area appear to be free of potentially adverse seismic conditions (if visible without necessity)? 	essarily	Y NO	U N/A 4.	
oponing duoitous).				
	•			
		,		
2. Does anchorage of equipment in the area appear to be free of degraded conditions?	f significan	t YZ NO	U N/A	
The first of the second of the	· · ·	•		•
The description of the property of the propert			`.	
3Based-on-a-visual-inspection from the floor, do the cable/cond	duit	v A -ND	U N/A	
raceways and HVAC ducting appear to be free of potentially		الله السواد		
seismic conditions (e.g., condition of supports is adequate and conditions of cable trays appear to be inside acceptable limits Cable Lings are not overfilled.			1 (50 g) 1 (30 g)	
. *				
4. Does it appear that the area is free of potentially adverse seisminteractions with other equipment in the area (e.g., ceiling tile		I YEND	U N/A	
lighting)?	. No		,	

¹³ 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.

Area Walk-By Checklist (AWC) V3): 11 <u>)</u>	
Location: Bldg. 18 Floor El. 50 Room, Area 13 Cable	Spreading	
5. Does it appear that the area is free of potentially adverse seismic interactions that could cause flooding or spray in the area? No weeker limes.	YZZ NO UO N	/A□
6. Does it appear that the area is free of potentially adverse seismic interactions that could cause a fire in the area? Cordex free Supersion.	¥¶N□ U□ N	/A⊡ ne et d Avagit i j
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)?	YE NO UO N	/A □
8. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment in the area?	ND UD	** * * * * * * * * * * * * * * * * * * *
John Parke Se	etile gifti i	
Comments (Additional pages may be added as necessary)	, - , -	
and the first of the second		
Evaluated by: Ben In	Date: 9/25	/12
De Blanco	Date: $\frac{9/25}{9/25}$	5//z_

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	Instructions for (Completing Ch		Room, Area ¹³			
	This checklist may space below each	be used to doc of the following	ument the result questions may	s of the Area Walk- be used to record the	e results of	judgments ar	
proprincipal de la proprincipal de La proprincipal de la proprincipal		adverse seismic	conditions (if v	ppear to be free of visible without nece	ssarily	YZNO U	N/A O
				(
primity admin Linguista Linguista	degraded c	orage of equipm onditions?	ent in the area a	ppear to be free of	3 · · · · · · · · · · · · · · · · · · ·		N/A : 1
more than	3. Based on a raceways a seismic conditions	nd HVAC duct nditions (e.g., co	ing appear to be ondition of supp	free of potentially a orts is adequate and	ndverse I fill	Y ⊠ N□ U	N/A □
·		•		·		• .	
A Maria	intomostion	a with athou àcu	immant in the or	ntially adverse seismea (e.g., ceiling tile	a and		

¹³ 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.

Area Walk-By Checklist (AWC)

Location: Bldg. Rb Floor El. 195 Room, Area 13 Negr	E134
5. Does it appear that the area is free of potentially adverse seismic interactions that could cause flooding or spray in the area?	YE NO UO N/AO
No water lines identified. 6. Does it appear that the area is free of potentially adverse seismic interactions that could cause a fire in the area?	YØ N□ U□ N/A□
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)? Cart 4 bift are second.	YX N□ U□ N/A□: 1:-2 0.2 0.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1
8. Have you looked for and found no other seismic conditions that could	YA NO UO
adversely affect the safety functions of the equipment in the area?	
Comments (Additional pages may be added as necessary)	Esta visit in visit se
Evaluated by:	Date: 10/3/12

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This cl space	ctions for Completing Checklist hecklist may be used to document the results of the Area Walk-By near on below each of the following questions may be used to record the results of onal space is provided at the end of this checklist for documenting other co	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)?	YEND UD N/AD	•
2.	Does anchorage of equipment in the area appear 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)?	YÆN□ U□ N/A□	
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)? Masonry wells world for Mo 11/8/12 verification with the area selectory related per Spec. M-701, R	YANO UO N/AO Livells ev.l.	_

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¹³ 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.

Location: Bldg. RB Floor El. 165 Room, Area 13 MAG	30×033
5. Does it appear that the area is free of potentially adverse seismic interactions that could cause flooding or spray in the area? No fines identified	YZENO UO N/AO
6. Does it appear that the area is free of potentially adverse seismic interactions that could cause a fire in the area?	YØN□U□N/A□
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)? Housekeeping Hoist second and had of	YÉ NO UO N/AO
8. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment in the area?	YE NO UO
Comments (Additional pages may be added as necessary)	A SA
1.3/	
Evaluated by: Sha College	Date: 10/8/12

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^{4.} Does it appear that the area is free of potentially adverse seismic spatial YN NO UNA interactions with other equipment in the area (e.g., ceiling tiles and lighting)?

| Unlatched tool cohinet out of range of oreo SSCs

¹³ 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.

Location: Bldg.Screenhouge Floor El. 116 Room, Area 13 5/H-4	
5. Does it appear that the area is free of potentially adverse seismic interactions that could cause flooding or spray in the area?	YN UU N/A
6. Does it appear that the area is free of potentially adverse seismic interactions that could cause a fire in the area?	YX NO UO N/AO
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)?	YEND UD N/AD
·Unanchored lodder not credible threat ·Broom not credible threat to SSCs	COMM
8. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment in the area? Unholded Conduit covers at floor level threat to area GSCs	not credible
Comments (Additional pages may be added as necessary)	
MA UNANCHORED LADDER ADDRESSED IN IR # 0140627	2_
Evaluated by: Down Waggin	Date: <u>8/26/2012</u>
Evaluated by: Jews Waggins Z. Gel	8/28/2012

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Table D-2. Unit 0 Area Walk-By Checklists (AWCs)

AWC- Ux-YY	Building	Elevation	Location	Component ID
U0-1	Diesel Generator Building	121 & 127	D/G-1 & D/G-2	MO-0-33-0498
U0-2	Diesel Generator Building	121 & 127	D/G-3	0AP060
U0-3	Emergency Cooling Towers	195	ECT-6	0BK032
U0-4	Emergency Cooling Towers	114	ECT-1	MO-48-0501A
U0-5	Emergency Cooling Towers	114	ECT-1	MO-3-48-3804B
U0-6	Turbine	165	T2-100 & T3-100 (East Corridor)	00C29B
U0-7	Turbine	165	T2-100 & T3-100 (Main Floor)	30C004C
U0-8	Turbine	165	Fan Room	0BV030
U0-9	Diesel Generator Building	151	D/G-19	0AV064
U0-10	Radwaste	165	R/W-32	0AV036
U0-11	Diesel Generator Building	121 & 127	D/G-9	0DE377
U0-12	Diesel Generator Building	151	D/G-20	0DV064
U0-13	Pump Structure	112	U2 HPSW pump room	00B061

	1	1 . (14)2	-
Location: Bldg. Diesel Gen. Floor El. 1	2 1 \$127 Room, Area ¹³ 0/6-2	+ D/G-1 DME 10/23/12	• 2
Instructions for Completing Checklist		2	÷
This checklist may be used to document the space below each of the following questions Additional space is provided at the end of the	may be used to record the results o	f judgments and findings.	:
Does anchorage of equipment in the potentially adverse seismic condition opening cabinets)?		Y⊠ N□ U□ N/A□	- - -
2. Does anchorage of equipment in the degraded conditions?		Y⊠ N□ U□ N/A□	:
3. Based on a visual inspection from the raceways and HVAC ducting appear seismic conditions (e.g., condition of conditions of cable trays appear to be	to be free of potentially adverse supports is adequate and fill	YØ N□ U□ N/A□	
	*		
4. Does it appear that the area is free of interactions with other equipment in lighting)?	the area (e.g., ceiling tiles and	YX NO UO N/AO	. 1. s. ;
One open Shook found a	m lighting fixture al	nove HV-0-48-50	3B
USW Booster pump suctions of the open 5 books should be	MO 11/8/12 I f the 5-hook	detached, it is	-1078/1
not plausible for the light fixture would be from any equipment.	ght rixtore to darroge be supported by the remo	rining chain and away	•
¹³ If the room in which t	the SWEL item is located is very large (e.g. ibed. This selected area should be based on	Turbine Hall), the area	

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Location: Bldg. Diesel Gen. Floor El. 121+127 Room, Area 3 D/G1 -	2+D/G-1	
5. Does it appear that the area is free of potentially adverse seismic interactions that could cause flooding or spray in the area?] U□ N/A□
Fire protection system uses carbon dioxide, liping connections but is not a concern.	has th	readed
connections but is not a concur,		
6. Does it appear that the area is free of potentially adverse seismic interactions that could cause a fire in the area?	YØ N]. U⊡ N/A⊡ (196 29 (1969)
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)? Scaffolding installed around cardex equipment. Sca and ready for use. Scaffolding #M12-0208,		U N/A
8. Have you looked for and found no other seismic conditions that could	YX N	
adversely affect the safety functions of the equipment in the area?	~,	
	•	
Comments (Additional pages may be added as necessary)		
Evaluated by: Moghbai	Date:	8/29/12
Ben Faz		-
		8/29/12

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ocation: Bldg. Diesel Gen. Floor El. 121-127 Room, Area 13 D/G-3	
nstructions for Completing Checklist	
this checklist may be used to document the results of the Area Walk-By near one pace 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 conditions.	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□
2. Does anchorage of equipment in the area appear to be free of significant degraded conditions?	YKLN□ 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 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□
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)? Light bulb fixtures viewed from the floor appear to secure. Potential light bulb fall during seismic will have credible damage.	, ,

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¹³ 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.

Location: Bldg. Diese Floor El. 121-127 Room, Area 13 D/6-3		
5. Does it appear that the area is free of potentially adverse seismic interactions that could cause flooding or spray in the area?	YX N	U N/A
	•	
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
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	YX NO	U N/A
shielding)? Scaffolding located at dissel cooling water exp Scaffolding to complete and ready for use, LT-02	pansion 47.	tank.
8. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment in the area?	YJZ N	U
Comments (Additional pages may be added as necessary)		
Evaluated by: Mozhbani	Date:	8/28/12
Ba For		8/28/12 8/31/12
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HWC-UB-3 Status: Y N U

Area Walk-By Checklist (AWC)

	This	cl e t	ctions for Completing Checklist necklist may be used to document the results of the Area Walk-By near or below each of the following questions may be used to record the results of conal space is provided at the end of this checklist for documenting other c	judgments		
the the		1.	Does anchorage of equipment in the area appear to be free of potentially adverse seismic conditions (if visible without necessarily opening cabinets)?	YEZ NO	U	N/A□
					•	
operalis Benedictions Benedictions		2.	Does anchorage of equipment in the area appear to be free of significant degraded conditions?	Y⊠ N□	U	N/A□
数 各种 等。 净点 设置	·A	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□
e e e	, care	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 I Z N□	U[]	N/A□

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41. 67. 444. 4 15.

¹³ 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.

Area Walk-By Checklist (AWC)

Location: Bldg. ECT Floor El. 195 Room, Area 13 E. Coolu	ig Towe-Rost (BJ-6)
5. Does it appear that the area is free of potentially adverse seismic interactions that could cause flooding or spray in the area?	YN UU N/AU
6. Does it appear that the area is free of potentially adverse seismic interactions that could cause a fire in the area?	YMNUNAU seal gar a
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)?	YM NO UD N/AD - A Now Client 27 with Name of the
	•
8. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment in the area?	YM N□ U□ · · · · · · · · · · · · · · · · · ·
Comments (Additional pages may be added as necessary)	A CONTRACTOR OF THE STATE OF TH
Evaluated by: Hogham	Date:
- vom jug	1/20/10

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Area Walk-By Checklist (AWC)

	and the
Location: Bldg. ECT Floor El. 114 Room, Area 13 ECT -	· 105
Instructions for Completing Checklist This checklist may be used to document the results of the Area Walk-By near on 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 contents.	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)?	YX N□ U□ N/A□
2. Does anchorage of equipment in the area appear to be free of significant degraded conditions?	YX NO UO N/AO S
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)?	YN NO UO N/AO . de et es
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)? No ceiling tiles. Observed lighting fixtures properly secured	YN N□ U□ N/A□ with S-hooks

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¹³ 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.

Area Walk-By Checklist (AWC)

Locati	ion: Bldg. ECT	Floor El. 114 Room, Area ¹³ ECT-1		•
5.		area is free of potentially adverse seismic cause flooding or spray in the area?	YZCN U N/A	•
· · · · · · · · · · · · · · · · · · ·				
		· · · · · · · · · · · · · · · · · · · ·		
6.	Does it appear that the interactions that could of	area is free of potentially adverse seismic	YX N UE N/A H 194	
	\$	•		
7.	interactions associated	area is free of potentially adverse seismic with housekeeping practices, storage of portable ary installations (e.g., scaffolding, lead	YIX NO UO N/AC 18 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	gers co
•	ν,	er gangere file filese.	:	
8.		d found no other seismic conditions that could ety functions of the equipment in the area?	YX N□ U□ · · · · · · · · · · · · · · · · · ·	
Comr	nents (Additional pages m	ay be added as necessary)		a" (v
٠.				
Evalu	ated by:	globai	_ Date: _ 8/28/12	
	Ber	Try	8/28/12	
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	aros:	·	м	21	и.	-H1	/ I h		ue			w	f - 1	
	ni ca:			ca i			V - VIII	SUR	n e	144		**	~ 1	
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		e jan et en i	<u></u>		ECT-	
Location: Bldg.	ECT	FloorEl:_	<i>įįų</i> p	Room, Area ¹³	Valve P	
	y be used of the foll	to document to	ons may be us	sed to record	the results o	one or more SWEL items. The of judgments and findings.
	adverse s	quipment in t eismic condit				YØ N⊡ U□ N/A□
degraded Anche 5 how 0 Hs 3. Based on raceways seismic co	conditions orage for is mine in ful mine a visual in and HVAC onditions (T c fipe su c cosco: vrl: sucface	proof of the corrosion the floor, do ear to be free to free to free to free to free to free the free to free the free to free the	north in the many on note of the cable/coro of potentially is adequate as	vall for lead to had to	YX NO UO NAO PERU TO ECT PIPE A degraled condita YX NO UO NAO
lighting)? Lalder No cei	ns with oth proper ling fil	er equipment y secura	in the area (e	eg, ceiling ti	les and	YAQ N□ U□ N/A□ K S=hooks.

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¹³ 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.

Location: Bldg. ECT Floor El. 114 Room, Area 13 ECT - 1	Value	P.+
Location. Didg Floor Et Rooth, Area		
5. Does it appear that the area is free of potentially adverse seismic interactions that could cause flooding or spray in the area?	YX NE] U□ N/A□
	·	
6. Does it appear that the area is free of potentially adverse seismic interactions that could cause a fire in the area?	YN NE] U[] N/A[]
•		
	•	
7. Does it appear that the area is free of potentially adverse seismic interactions associated with housekeeping practices, storage of portable	AM VE] U[] N/A[]
equipment, and temporary installations (e.g., scaffolding, lead shielding)?		
ladden properly secured to wall.		•
8. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment in the area?	A X NE	בט נ
Comments (Additional pages may be added as necessary)		
		;
	• .	
Evaluated by: M-oghbaei	Date: _	8/28/12
Ben For		100/00/
		8/24/12

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Area Walk-By Checklist (AWC)

Instru	ctions for	Completin	g Checklist	<u> </u>	<u>.</u>			*
space	below eac	h of the foll	owing questi	ons may be	used to reco		of judgments	SWEL items. The and findings.
1.	potential		quipment in t eismic condit				YM NO	UO NAO
					4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4			
2:		chorage of e I conditions		he area appo	ear to be fre	e of significa	nt Y⊠ N□	U□ N⁄A□
3.	raceway: seismic	s and HVAC conditions (spection from Cducting app a.g., condition rays appear to	ear to be fre a of support	e of potenti is adequat	ally adverse e and fill	YÇX, NC	U⊡ N/A□
A.				147.00 Me 147.		1 Tans		
4.		ons with oth	ne area is free er equipment			seismic spatii g tiles and	il YESNE	U N/A

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¹³ 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.

Area Walk-By Checklist (AWC)

		KUN 101	Control Room.
5. Does it appear that the area is free contractions that could cause flooding		Y⊠ N□ U	□ N/A□
No water piping			
	and the second s		•
6. Does it appear that the area is free of interactions that could cause a fire interactions that could cause a fire interactions.		ע ⊡ע עקצ	☑ N/A□t Halfstyr ja ja kisterts vids
equipment, and temporary installati	of potentially adverse seismic eeping practices, storage of portable	Y⊠ N□ U	DINA CARROLLARIO DE
shielding)?			
	engal terretari di		
8. Have you looked for and found no adversely affect the safety function		YIZI NO U	E desira cassilla a consequentia
		•	
Comments (Additional pages may be added a	as necessary)		ignation of the second of
•			
Evaluated by: Maghbai		_ Date:	21/12

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Location: Bldg. Turbine Bldz. Floor El. 165 Room, Area 13 Control	Roon	
Instructions for Completing Checklist This checklist may be used to document the results of the Area Walk-By near on 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 contents.	judgments	
1. Does anchorage of equipment in the area appear to be free of potentially adverse seismic conditions (if visible without necessarily opening cabinets)?	YN N	U□ N/A□ · · · · · · · · · · · · · · · · · · ·
2. Does anchorage of equipment in the area appear to be free of significant degraded conditions?	ÀTÉ 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 adverse seismic conditions (e.g., condition of supports is adequate and fill conditions of cable trays appear to be inside acceptable limits)?	YØ N□	U N/A
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)? MCK Celling consistent with Cale 26-5/2 Cale 6-106-1 would at be located. See I	,	U□ N/A□ ***********************************

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¹³ 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.

Location: Bldg. Turbine 1314 Floor El. 165 Room, Area 13 Control	Room	
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□	
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□	$\begin{array}{ccc} \alpha(a) & & \alpha(b) \\ \gamma(b) & & & \alpha_a \end{array}$
	·	
7. Does it appear that the area is free of potentially adverse seismic	YX NO UO N/AO:	enger jang di
interactions associated with housekeeping practices, storage of portable equipment, and temporary installations (e.g., scaffolding, lead shielding)?	A Property of the Contract of	er burg 1 (de let) Proposition
smortang).		
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□	The Control of the Co
·		
Comments (Additional pages may be added as necessary)	i granda (ngsana)	in the contraction of
	:	
Evaluated by: Bur Fry	Date: 10/19/12	
Evaluated by: Ber Ty	Date: 10/19/12	

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٠ , .	Location: Bldg. Turbine Floor El. 165 Room, Area 13 Fan Room
• • * •	Instructions for Completing Checklist
·	This checklist may be used to document the results of the Area Walk-By near one or more SWEL items. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.
	1. Does anchorage of equipment in the area appear to be free of potentially adverse seismic conditions (if visible without necessarily opening cabinets)?
: :	OBVOIG and OAVO29 are movated on vibration isolators with no means to support lateral motion due to a seismic event. These compositions vere verified to not be safety related
তৰ্মানুধিক হৈছিল। ১৯ মূলক পাৰ্যা ১৮ ১৮ মাল সমূলীক	2. Does anchorage of equipment in the area appear to be free of significant YN NO UNA degraded conditions? Missing not for anchorage of OAF 042. Component verified be non-safety related, and determined to be adequate as found.
TO SEE THE WAY OF THE SEE THE	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)?
2 77 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	4. Does it appear that the area is free of potentially adverse seismic spatial Y♠ N□ U□ N/A□ interactions with other equipment in the area (e.g., ceiling tiles and lighting)?

¹³ 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.

Location: Bldg. Turbine 1	Floor El. 165 Room, Area 13 Fan Room	m
	rea is free of potentially adverse seismic ause flooding or spray in the area?	YN UU N/AU
and the state of the second	en e	·
estate and the second of the s	and the second of the second	
	and the state of t	·
6. Does it appear that the a	rea is free of potentially adverse seismic	YX NO UO N/AO. 1984 6 /
interactions that could c		the Argent Profession
7. Does it appear that the a	rea is free of potentially adverse seismic with housekeeping practices, storage of portable	YN NO UO N/AO SA ASTÁRA
equipment, and tempora	ry installations (e.g., scaffolding, lead	in the second second Second second
shielding)?		50 水質。
•		
	and the state of the state of the state of	•
	I found no other seismic conditions that could ty functions of the equipment in the area?	YN UD
<u>Comments</u> (Additional pages ma	y be added as necessary)	entre de la companya del companya de la companya del companya de la companya de l
Evaluated by: Ben for	iy	Date: 9/25/12
M.oghl	naei	9/25/12
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Location: Bldg. DIESEC CON.	Floor El. 15	Room, A	rea ¹³ DIG - I	9	
Instructions for Completing This checklist may be used to space below each of the follow Additional space is provided	document the ro ving questions r	nay be used to re	cord the results	of judgments and	
1. Does anchorage of equentially adverse sei opening cabinets)?	ipment in the a	rea appear to be f	ree of	YM N□ UE) N/AC
2. Does anchorage of equipment of degraded conditions?	iipment in the a	rea appear to be f	ree of significar	nt YZYN□ UC] N/ACI
3. Based on a visual inspraceways and HVAC seismic conditions (e.g. conditions of cable tra	ducting appear to g., condition of s	o be free of poten supports is adequ	tially adverse ate and fill	YE'ND UC	J N⁄A□
nouc					
NAT TO	equipment in the state of the s	ne area (e.g., ceili An Open Addu Allen Fixy n Ixture Did E	ng tiles and	RATION JUDGE	

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¹³ 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.

Location: Bldg. Diese Floor El. 151 Room, Area 13 D/6-1	9
5. Does it appear that the area is free of potentially adverse seismic interactions that could cause flooding or spray in the area?	YE NO UO N/AO
6. Does it appear that the area is free of potentially adverse seismic interactions that could cause a fire in the area?	YE NO UO N/AO
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)?	YE NO UO N/AO
8. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment in the area?	YE NO UO
<u>Comments</u> (Additional pages may be added as necessary)	
N/A	
Evaluated by: James	Date: 8/27/2012
Evaluated by: James W. A. B.	Date: $\frac{8/27/2012}{8/27/2012}$

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Area Walk-By Checklist (AWC)

Location: Bldg. Roducete Floor El. 165 Room, Area 13 R/W-32
Instructions for Completing Checklist
This checklist may be used to document the results of the Area Walk-By near one or more SWEL items. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.
1. Does anchorage of equipment in the area appear to be free of YNNU UNAD potentially adverse seismic conditions (if visible without necessarily opening cabinets)? Fons OAWO7 and OBOO7 do not have lateral Anchorage for vibration isolators—non-safety related equipment, not supports for vibration isolators—non-safety related equipment, not in range of other area SSLs
2. Does anchorage of equipment in the area appear to be free of significant YN UN N/A
2. Does another age of equipment in the area appear to be need of significant. 2. Although degraded conditions? A Mail and A Mail a
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)? Several coble trays in one both oll odequately supported

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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)?

YN UU N/A

¹³ 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.

Location: Bldg. Rodward Floor El. 165 Room, Area R/W-	32		
	•	oysh ents	
6. Does it appear that the area is free of potentially adverse seismic interactions that could cause a fire in the area?	У М	□	N/A□ aprika Cartaa redga
	•		
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)? Tool cost chained to structuro! support	YX N	ם טֹם	N/A⊡ হল্ হ শম্মির বৈশ্ ভারতিকারণ ক বুল বিশ্ বুল
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 X (N	o vo	e Electrica de la Novembra de la Nov
Comments (Additional pages may be added as necessary) N[A		6	ig yak in sigara w
Evaluated by: Gram	_ Date:	8/3	6/20/2
To Go		813 <u>0</u>	0(2012

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Area Walk-By Checklist (AWC)
121 & 10/31/12
Location: Bldg. 1969 Floor El. 127 Room, Area 13 DIG-9 DIG-10
Instructions for Completing Checklist
This checklist may be used to document the results of the Area Walk-By near one or more SWEL items. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.
1. Does anchorage of equipment in the area appear to be free of Y N U N/A potentially adverse seismic conditions (if visible without necessarily opening cabinets)?
AIR RESERVOIR OCTO95 HAS 1/2 & ANCHOR BOLTS AND IS DESIGNED
TO HAVE 3/4" O POLTS (THE TANK IS THE SAME AS OHTOGS). THE SMALLER NG INSIZ
ANCHOR BOLTS ARE SUBSCIDED TO BE ACCEPTABLE. SEE ATTACHED CALCULATION TO THE THIS IS EVALUATED AS ACCEPTABLE FOR NCR PAGIND, KG 118112 2. Does anchorage of equipment in the area appear to be free of significant YMN UMN/AMONTO ONTOGE ONTOGE TO THE TROP.
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)?
4. Does it appear that the area is free of potentially adverse seismic spatial Y N U N/A interactions with other equipment in the area (e.g., ceiling tiles and lighting)?
UNCACUD FLUORUSCUM MENTS judged credible but
not significant throat to area SSCs.

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¹³ 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.

Area Walk-By Checklist (AWC)	
Location: Bldg. Diese Floor El. 127 Room, Area 13 DIG-9	C-10
5. Does it appear that the area is free of potentially adverse seismic interactions that could cause flooding or spray in the area?	YO NO UO N/AO
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□
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)? SCAFFOLD CART WIN JUNIO WHEYE	YM UD N/AD
8. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment in the area?	YE NO UO
advorsory arroot and surery randitions of the equipment in the distri-	
Comments (Additional pages may be added as necessary)	
N/A	· .
Evaluated by: Grown	Date: 8/28/2012
Xs Jos	8/28/2017

	•
Location: Bldg. <u>Biesal</u> Floor El. <u>151</u> Room, Area ¹³ NGC	00V0G4
Instructions for Completing Checklist	
This checklist may be used to document the results of the Area Walk-By near on 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 co	judgments and findings.
 Does anchorage of equipment in the area appear to be free of potentially adverse seismic conditions (if visible without necessarily opening cabinets)? 	YA NO UM N/A POPER STATE OF THE
2. Does anchorage of equipment in the area appear to be free of significant degraded conditions?	YK NO UO N/AO
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)?	NO UD N/AD 66 .
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)? No II/I concerns dentify lighting is the has long hooks to concern due short extension roda lateral motion is judged not to	ed. Overhead yebolt. Not a the fact that be capable

¹³ 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.

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. Area Walk-By Checklist (AWC)

Location: Bldg. Floor El. 3 [5] Room, Area 13 NGC C	DOUV	64		· · · · · · · · · · · · · · · · · · ·
5. Does it appear that the area is free of potentially adverse seismic interactions that could cause flooding or spray in the area?	YE	ט בוי	N/A	- 3 (4 (4) - 3 (4) - 4 (4)
interactions that could cause flooding or spray in the area? No water was dentified.			•	•
THE STATE OF THE SECOND STATE OF THE SECOND		:		
6. Does it appear that the area is free of potentially adverse seismic interactions that could cause a fire in the area?	XXII	ND: UD	N/A	e et dome. Nel don
Fire protection is CO2.				
en de la companya de La companya de la co		>		
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)?	KIZ 1		N/A⊡ % % -	e anna Entre
8. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment in the area?	¥EL.		Articles (Constitution of the Constitution of	নি হৈছে জীব ১৯১৯ ব্ৰীক
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Comments (Additional pages may be added as necessary)				
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Evaluated by: San Fry	_ Date:	9/	25/12	
a had		91	25/12	·
- Vin Justin - I was a second	-			1
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erre e e grade	Âddi	below each of the following questions may be used to record the results of ional space is provided at the end of this checklist for documenting other conditions of equipment in the area appear to be free of potentially adverse seismic conditions (if visible without necessarily opening cabinets)?	omments.	U N/A	
		opening caomers).		•	
. The street		. Does anchorage of equipment in the area appear to be free of significant degraded conditions?	YZZN] U	
entegra entre las					
(제한) (111 (제한) (최 (최한) 최 (제 (3 (최 (한) 제합)		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)?	YZ NC	U N/A	
	 2	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)? No II/I 191045 identified	YEA NE	I U[] N/A[]	in grand Kalandaria K
		, , , , , , , , , , , , , , , , , , , ,	4	ed_	

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¹³ 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.

Area Walk-By Checklist (AWC)

Location: Bldg. Pump Floor El. 112 Room, Area 13 UZ H	IPSW pump Room: P/H-6
5. Does it appear that the area is free of potentially adverse seismic interactions that could cause flooding or spray in the area? Fife protection was welded.	YEKNO UO N/AO
6. Does it appear that the area is free of potentially adverse seismic	YEND UD N/AD (1984)
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 porta equipment, and temporary installations (e.g., scaffolding, lead shielding)?	- 1 miles
shielding)? All temporary lequipment 7 out	
8. Have you looked for and found no other seismic conditions that cou adversely affect the safety functions of the equipment in the area?	
·	
Comments (Additional pages may be added as necessary)	64. 44. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.
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λ .	•
Evaluated by: M. Oghbae	Date:
1 son Don	Date: 10/8/12

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Plan for Walkdown of Inaccessible Equipment and Assessment of Electrical Cabinet Internal Inspections

E.1. PLAN FOR WALKDOWN OF INACCESSIBLE EQUIPMENT

As shown in the SWEL for PBAPS Unit 3 in Appendix B (Table B-3), 13 items have been deferred until the next refueling outage (RFO) or a future electrical bus outage. Table E-1 summarizes the reasons each item is inaccessible during normal plant operation and indicates the estimated milestone completion and tracking number.

Table E-1. Summary of Inaccessible Equipment

Component ID	Description	Reason for Inaccessibility	Milestone Completion	Tracking Number
00B094	480V Bus E13A4	Requires 4KV Bus Outage	6/2013	IR 01426027
30B037	480V Reactor Area MCC E234-R-B	Requires 4KV Bus Outage	10/2013	A1533874
30A015	Emergency 4kV Aux Switchgear E23	Requires 4KV Bus Outage	10/2013	A1535569
30B011	480V Load Center E234	Requires 4KV Bus Outage	10/2013	A1535775
A03-01-080A	Inboard Main Steam Isolation Valve A	Located in drywell	10/2013	A1863615
A03-01-080C	Inboard Main Steam Isolation Valve A	Located in drywell		
RV3-02-071D	Safety Relief Valve D	Located in drywell		
RV3-02-071F	Safety Relief Valve F	Located in drywell		
MO3-06-029A	Feedwater Stop Valve	Located in drywell		
MO3-23-015	HPCI Turbine Steam Line Inboard Isolation Valve	Located in drywell		
MO3-23-019	HPCI Discharge to Feedwater Line Valve	Located in main steam tunnel/MSIV room		
3BT540	Instrument N2 Accumulator	Located in drywell		
3KT545	Instrument N2 Accumulator	Located in drywell		

E.2. ASSESSMENT OF ELECTRICAL CABINET INTERNAL INSPECTIONS

All electrical cabinets on the SWEL require assessment of the need for inspections to address the potential for "other adverse seismic conditions" internal to the cabinet. This assessment is required due to an NRC clarification of their expectations for seismic walkdowns, which was received after the online seismic walkdowns were completed. Tables E-2 (for Unit 3) and E-3 (for Unit 0) list all electrical items that require assessment. Accessibility of equipment, basis for accessibility determination, completion date of internal inspections, tracking number (if internal inspection has not yet been performed) and inspection results are provided in these tables.

Table E-2. Assessment of Unit 3 Electrical Cabinet Internal Inspections

Component ID	Description	EPRI Equipment Class	Accessible (Y/N)	If Not Accessible, Why?	Milestone Completion	Tracking Number (IR Number)	Status / Inspection Results
30B324	MO-3-23-015 Motor Control Power Transfer Switch	(01) Motor Control Centers	Y	N/A	10/2013	A1863615	Scheduled
30B325	MO-3-13-15 Motor Control Starter Panel	(01) Motor Control Centers	Y	N/A	10/2013	A1863615	Scheduled
30B338	MO3-10-16A Auto Transfer Switch	(01) Motor Control Centers	N	Tools required for disassembly	Ņ/A	N/A	N/A
30B37	480V Reactor Area MCC E234-R-B	(01) Motor Control Centers	N	Tools required for disassembly	N/A	N/A	N/A
30B010	Emergency Aux Load Center E134 Switchgear	(02) Low Voltage Switchgears	N	Tools required for disassembly	N/A	N/A	N/A
30B013	Emergency Aux Load Center E434 Switchgear	(02) Low Voltage Switchgears	N	Tools required for disassembly	N/A	N/A	N/A
30B011	480V Load Center E234	(02) Low Voltage Switchgears	N	Tools required for disassembly	N/A	N/A	N/A
30A15	Emergency 4kV Aux Switchgear	(03) Medium Voltage Switchgears	N	Tools required for disassembly	N/A	N/A	N/A
30X030	Load Center E134 Transformer	(04) Transformers	N	Tools required for disassembly	N/A	N/A	N/A
30X033	Load Center E434 Transformer	(04) Transformers	N	Tools required for disassembly	N/A	N/A	N/A
30X133	Panel 30Y33 Transformer	(04) Transformers	N	Tools required for disassembly	N/A	N/A	N/A
30S703	120V Inst. Panel 30Y035 Transfer Switch	(14) Distribution Panels	Y	N/A	7/2014	A0668950	Scheduled
30Y050	120V AC Distribution Panel	(14) Distribution Panels	N	Energized Equipment; never out of service (diesel backed and battery backed)	N/A	N/A	N/A
30Y35	3PPD 125V DC Distribution Panel 3C	(14) Distribution Panels	N	Energized Equipment; never out of service (diesel backed, no PM)	N/A	N/A	N/A
3BD025	3B 125 VDC Distribution Panel	(14) Distribution Panels	N	Tools required for disassembly	N/A	N/A	N/A
3DC068	RPS SCRAM solenoid fuse panel D	(14) Distribution Panels	N	Tools required for disassembly	N/A	N/A	N/A
30D37	Static Inverter	(16) Battery Chargers and Inverters	N	Energized Equipment; never out of service (diesel backed, no PM)	N/A	N/A	N/A
3CD03	Battery Charger 3C	(16) Battery Chargers and Inverters	Y	N/A	3/2013	A1797035	Scheduled
3DD03	Battery Charger 3D	(16) Battery Chargers and Inverters	Y	N/A	4/2013	A1807622	Scheduled
30C003	Reactor and Containment Cooling and Isolation	(20) Control Panels & Cabinets	Y	N/A	9/2012	N/A	SAT
30C004C	RCIC Vertical Board	(20) Control Panels & Cabinets	Y	N/A	9/2012	N/A	SAT
30C005A	Reactor Manual Control Board	(20) Control Panels & Cabinets	Y	N/A	9/2012	N/A	SAT
30C032	Egr Safeguard Sub-Sys I	(20) Control Panels & Cabinets	Y	N/A	9/2012	N/A	SAT
30C033	Egr Safeguard Sub-Sys II	(20) Control Panels & Cabinets	Y	N/A	9/2012	N/A	SAT

Peach Bottom Atomic Power Station Unit 3 MPR-3812, Revision 3 Correspondence No.: RS-12-173

Table E-2. Assessment of Unit 3 Electrical Cabinet Internal Inspections

Component ID	Description	EPRI Equipment Class	Accessible (Y/N)	If Not Accessible, Why?	Milestone Completion	Tracking Number (IR Number)	Status / Inspection Results
30C034	RCIC Relay Panel	(20) Control Panels & Cabinets	Y	N/A	9/2012	N/A	SAT
30C722A	Accident Monitoring Instrumentation Panel	(20) Control Panels & Cabinets	Y	N/A	9/2012	N/A	IR# 01424662
30C722B	Accident Monitoring Instrumentation Panel	(20) Control Panels & Cabinets	Ý	N/A	9/2012	N/A	IR# 01424692
30D043	HPCI Aux Lube Oil Pump Starter	(20) Control Panels & Cabinets	N	Tools required for disassembly	N/A	N/A	N/A
3BC270	HPCI Steam Leak Detection Cabinet	(20) Control Panels & Cabinets	N	Tools required for disassembly	N/A	N/A	N/A
LI3-2-3-113	Reactor Water Level	(20) Control Panels & Cabinets	Y	N/A	9/2012	N/A	SAT
LI-9027	Torus Water Level	(20) Control Panels & Cabinets	Y	N/A	9/2012	N/A	SAT
LR/TR-9123B	Torus Water Level/Temperature Recorder	(20) Control Panels & Cabinets	Y	N/A	9/2012	N/A	SAT
PI3-6-90A	Reactor Wide Range Pressure Indicator	(20) Control Panels & Cabinets	Y	N/A	9/2012	N/A	SAT
PR/TR3-2-3-404B	Reactor Pressure	(20) Control Panels & Cabinets	Υ	N/A	9/2012	N/A	SAT
PR/TR-5805	Containment Pressure	(20) Control Panels & Cabinets	Y	N/A	9/2012	N/A	SAT

Table E-3. Assessment of Unit 0 Electrical Cabinet Internal Inspections

Component ID	Description	EPRI Equipment Class	Accessible (Y/N)	If Not Accessible, Why?	Milestone Completion	Tracking Number (IR Number)	Status / Inspection Results
00B061	Pump Structure MCC E224-P-A	(01) Motor Control Center	N	Tools required for disassembly	N/A	N/A	N/A
00B094	480V Bus E13A4	(02) Low Voltage Switchgears	N	Tools required for disassembly	N/A	N/A	N/A
00C29B	Emergency Protection Relay Board	(20) Control Panels & Cabinets	Y	N/A	9/2012	N/A	SAT
0AC097	Diesel Generator 0AG12 Control Panel	(20) Control Panels & Cabinets	Y	N/A	5/2015	A1620164	Scheduled

F

Peer Review Report

This appendix includes the Peer Review Team's report, including the signed Peer Review Checklist for SWEL from Appendix F of the EPRI Seismic Walkdown Guidance (Reference 1).

Peer Review Report

<u>for</u>

Near Term Task Force (NTTF) Recommendation 2.3 Seismic Walkdown of Peach Bottom Unit 3

Peer Reviewers:

Patrick Butler (Team Leader)

Craig Swanner

Caroline Schlaseman

Patrick Butler, P.E.		
Peer Review Team Leader Signature	Pakick Buller Date	10/15/2012

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F.1 Introduction

F.1.1 OVERVIEW

This report documents the independent peer review for the Near Term Task Force (NTTF) Recommendation 2.3 Seismic Walkdowns performed by MPR Associates, Inc. for Unit 3 of Peach Bottom Atomic Power Station (PBAPS). The peer review addresses the following activities:

- Review of the selection of the structures, systems, and components, (SSCs) that are included in the Seismic Walkdown Equipment List (SWEL),
- Review of a sample of the checklists prepared for the Seismic Walkdowns & Walk-Bys,
- Review of any licensing basis evaluations,
- Review of the decisions for entering the potentially adverse conditions in to the plant's Corrective Action Program (CAP), and
- Review of the final submittal report.

F.1.2 PEER REVIEWERS

The Peer Reviewers are Patrick Butler, Caroline Schlaseman and Craig Swanner. Mr. Butler is the Peer Review Team Leader, per the EPRI Seismic Walkdown Guidance (Reference 1). As Peer Review Team Leader, he was responsible for the entire peer review process, including completion of the final peer review documentation in this report. The Peer Reviewers' qualifications are briefly summarized as follows:

- Mr. Butler is a degreed mechanical engineer and has over twenty-five years of nuclear power experience. Mr. Butler and has been trained as a Seismic Capability Engineer (EPRI SQUG training) and is the primary author of EPRI SQUG Guidelines for the use of the SQUG Generic Implementation Procedure (GIP) for new and replacement components and equipment.
- Ms. Schlaseman is a degreed civil/structural engineer and has over 30 years of nuclear power experience. Ms. Schlaseman has been trained as a Seismic Capability Engineer and EPRI Seismic Walkdown Engineer (SWE), has performed USI A-46 (SQUG) seismic walkdowns for two stations, and is a principal investigator in (EPRI) document 1025286, "Seismic Walkdown Guidance: For Resolution of Fukushima Near-Term Task Force Recommendation 2.3: Seismic," which is the guidance document for performing the walkdowns documented in this report.

 Mr. Swanner is a degreed aerospace engineer with 20 years of nuclear plant experience. Mr. Swanner has been trained as a Seismic Capability Engineer and EPRI Seismic Walkdown Engineer (SWE).

Mr. Butler, Ms. Schlaseman and Mr. Swanner are registered professional engineers.

F.1.3 SWEL DEVELOPMENT

The SWEL development was performed by Mr. Benjamin Frazier. The initial peer review of the SWEL development was performed by Mr. Butler and Mr. Swanner, and was conducted between August 2, 2012 and August 16, 2012. There were no comments as noted on the SWEL Peer Review Checklist and no findings were cited. The completed SWEL Peer Review Checklist is found in Attachment 1. The discussion for the SWEL development peer review is provided in Section 2. Note that due to equipment accessibility including ALARA and electrical safety concerns, changes to the SWEL were made as the walkdowns were conducted. The Peer Review Team did review changes made during the walkdown and has reviewed the final SWEL included in Appendix B of the Walkdown Report. As noted in the SWEL Peer Review Checklist, there were no items from EPRI Equipment Classes 11, Chillers; 12, Air Compressors; or 13, Motor Generators. This was because there is no safety-related Seismic Class I equipment in these classes at PBAPS Unit 3. Also, due to the significant number of modifications performed in the late 1990's as part of the USI A-46 (SQUG) and IPEEE programs, PBAPS Unit 3 has not made significant modifications to Seismic Class I equipment within the last several years.

F.1.4 SEISMIC WALKDOWN

The on-site peer review of the seismic walkdowns was performed by Mr. Butler and Ms. Schlaseman on August 30, 2012. The on-site and follow-up reviews included approximately 26% of the total SWCs and approximately 50% of the total AWCs applicable to the equipment for Unit 3 and common, including checklists, photos, and drawings where applicable. Interviews were conducted with both teams of SWEs to assess conduct of the walkdowns and adherence to the EPRI Seismic Walkdown Guidance (Reference 1). The discussion of the review of the sample of Seismic Walkdown Checklists (SWCs) and Area Walk-By Checklists (AWCs) is provided in Section 3.

The assessment of Issue Reports (IRs) with respect to current licensing basis is provided in Sections 5 and 6 of the report. These assessments and their outcomes were also discussed with the SWE inspection team in order to completely understand the issues.

F.2

Peer Review - Selection of SSCs

F.2.1 Purpose

The purpose of this section is to describe the process to perform the peer review of the selected structures, systems, and components, (SSCs) that were included in the Seismic Walkdown Equipment List (SWEL).

F.2.2 PEER REVIEW ACTIVITY - SELECTION OF SSCs

The guidance in Section 3 of the EPRI Seismic Walkdown Guidance (Reference 1) was used as the basis for this review.

This peer review of SWEL 1 was based on reviews of preliminary documents provided by the SWEL preparer, Mr. Benjamin Frazier. Additionally, the Peer Reviewers, Mr. Butler and Mr. Swanner, interviewed Mr. Frazier. Reference 1 Appendix F: "Checklist for Peer Review of SSC Selection," was used by the Peer Reviewers to guide their review.

For SWEL 1 development, the following actions were completed in the peer review process:

- Verification that the SSCs selected represented a diverse sample of the equipment required to perform the following five safety functions:
 - Reactor Reactivity Control
 - Reactor Coolant Pressure Control
 - Reactor Coolant Inventory Control
 - Decay Heat Removal
 - Containment Function

This peer review determined that the SSCs selected for the seismic walkdowns represent a diverse sample of equipment required to perform the five safety functions.

- Verification that the SSCs selected include an appropriate representation of items having the following sample selection attributes:
 - Various types of systems
 - Major new and replacement equipment (there are none)
 - Various types of equipment
 - Various environments
 - o Equipment enhanced based on the findings of the IPEEE (or USI A-46)
 - Risk insight consideration

This peer review determined that the SSCs selected for the seismic walkdowns include an appropriate sample of items that represent each attribute/consideration identified above. The justification for this conclusion is: a) Based on a review of the UFSAR and SWEL 1 list, it was determined that an appropriate variety of equipment and systems are represented (e.g., HPCI, RCIC, Core Spray, RHR, CRD Scram Hydraulic, High Pressure Service Water, Batteries); b) The SWEL identifies that there are no "New and Replacement" equipment; c) A variety of location environments are included (e.g., Diesel Rooms, Reactor Building, Drywell, Turbine Building, Screen House, Pump Structure); d) The SWEL identifies several items of equipment that were enhanced as a result of IPEEE; and e) Risk Significant equipment items are identified on the SWEL. Additional details for these conclusions are presented in Attachment 1: Peer Review Checklist for SWEL.

There are no SWEL 2 items for PBAPS Unit 3. To confirm the appropriateness of this conclusion, the following actions were completed in the peer review process:

 Verification that spent fuel pool (SFP) related Seismic Class I SSCs were considered and appropriate justification was documented for why these items were not added to the SWEL 2.

This peer review determined that there are no spent fuel pool related items that are Seismic Class I.

 Verification that the potential for rapid drain down of the SFP was considered in accordance with the Reference 1 guidance, and appropriate justification was documented for no items being added to SWEL 2.

This peer review determined that appropriate consideration and justification were provided for there being no items identified that could result in rapid drain down. There are no SFP penetrations that could result in rapid draindown, and Fuel Pool Cooling and Cleanup piping includes holes specifically intended to prevent siphoning and draindown of the spent fuel pool (See Section 4.3 of the Report as well as Attachment 1 to this Appendix).

F.2.3 PEER REVIEW FINDINGS – SELECTION OF SSCs

This peer review found that the process for selecting SSCs that were added to the SWEL was consistent with the process outlined in Section 3 of Reference 1.

The Peer Review Checklist is attached to this document with additional observations documented as appropriate. There were no comments or observations on the SWEL. This peer review resulted in no findings.

F.2.4 RESOLUTION OF PEER REVIEW COMMENTS — SELECTION OF SSCs

All comments requiring resolution were incorporated prior to completion of this peer review.

F.2.5 CONCLUSION OF PEER REVIEW - SELECTION OF SSCs

This peer review concludes that the process for selecting SSCs to be included on the seismic walkdown equipment list appropriately followed the process outlined in Reference 1, Section 3: Selection of SSCs. It is further concluded that the SWEL sufficiently represents a broad population of plant Seismic Class I equipment and systems to meet the objectives of the NRC 50.54(f) Letter.

Peer Reviewer:	Pakick Butter	Date	10/15/2012	
	1.11			
Peer Reviewer:	(see Down	Date	10/23/2012	

F.3

Review of Sample Checklist & Area Walk-Bys

The on-site and follow-up peer reviews of the seismic walkdowns were performed for PBAPS Unit 3 by Mr. Patrick Butler, Ms. Caroline Schlaseman and Mr. Craig Swanner. The Peer Review Team reviewed Seismic Walkdown Checklists (SWC) and Area Walkby Checklists (AWC) that were performed for Peach Bottom Unit 3 and Common equipment, and interviewed the walkdown team members regarding details in checklists.

For Unit 3, there were two walkdown teams, which each consisted of two Seismic Walkdown Engineers (SWEs). The first team consisted of Mr. Benjamin Frazier and Mr. Mojtaba Oghbaei. The second team consisted of Mr. James Wiggin and Mr. Kevin Gantz. During the second week of walkdowns, Mr. Craig Swanner¹ replaced Mr. Oghbaei.

Table F.3-1 lists the Peach Bottom Unit 3 and Common SWC and AWC sampling during the on-site and follow-up reviews. The SWCs and AWCs reviewed represent approximately 26% of the SWCs and approximately 50% of the AWCs applicable to this equipment for Unit 3 and Common, which exceeds the EPRI Guidance (Reference 1) requirement of a 10% to 25% sample.

Table F.3-1. Table of SWC and AWC Samples from Seismic Walkdown

Equipment ID (Applicable Area Walkby)	Description	Equipment Class	Location	Observations
3AC65 (AWC U3-7)	RPS Instrument Rack	(18) Instruments on Racks/Not on Racks	Reactor Building, Room R3-40, El. 165'	No issues with the SWC or AWC applicable to this equipment or its conclusions were identified.
3AE55 (AWC U3-12)	RCIC Room Cooling Coil A	(10) Air Handlers	Reactor Building, Room R3-14, El. 91'	No issues with the SWC or AWC applicable to this equipment or its conclusions were identified.

¹ Mr. Craig Swanner replaced Mr. Oghbaei on the first team for the second week of walkdowns. Ms. Caroline Schlaseman (in addition to Mr. Butler) served as the second peer reviewer for these SWCs and AWCs. Six SWCs and one AWC were prepared at the end of the second week by Mr. Ben Frazier and Ms. Schlaseman, who replaced Mr. Swanner for one day. For these six SWCs and one AWC, Mr. Butler and Mr. Swanner served as the peer reviewers.

Table F.3-1. Table of SWC and AWC Samples from Seismic Walkdown

Equipment ID (Applicable Area Walkby)	Description	Equipment Class	Location	Observations
3AP037 (AWC U3-11)	Core Spray Pump A	(06) Vertical Pumps	Reactor Building, Room R3-9, El. 88'	No issues with the SWC or AWC applicable to this equipment or its conclusions were identified.
3AV083 (AWC U3-3)	HPSW Pump Room Exhaust Fan	(09) Fans	Pump Structure, Room P/H-9, El. 112'	No issues with the SWC or AWC applicable to this equipment or its conclusions were identified.
3BD01 (AWC U3-10)	125 VDC Battery 3B	(15) Batteries and Racks	Turbine Building, Room T3-169, El. 135'	No issues with the SWC or AWC applicable to this equipment or its conclusions were identified.
3BE57 (AWC U3-11)	Core Spray Room A Cooling Coil B	(10) Air Handlers	Reactor Building, Room R3-9, El. 91'	No issues with the SWC or AWC applicable to this equipment or its conclusions were identified.
3CD03 (AWC U3-9)	Battery Charger 3C	(16) Battery Chargers and Inverters	Turbine Building, Room T3-170, El. 135'	No issues with the SWC or AWC applicable to this equipment or its conclusions were identified
30D043 (AWC U3-8)	HPCI Aux Lube Oil Pump Starter	(20) Control Panels and Cabinets	Reactor Building, Room R3-13, El. 88'	No issues with the SWC or AWC applicable to this equipment or its conclusions were identified.

Table F.3-1. Table of SWC and AWC Samples from Seismic Walkdown

Equipment ID (Applicable Area Walkby)	Description	Equipment Class	Location	Observations
30X133 (AWC U3-5)	Panel 30Y33 Transformer	(04) Transformers	Turbine Building, T3-171, El. 135'	No issues with the SWC or AWC applicable to this equipment or its conclusions were identified.
30C087 (AWC U3-4)	HPCI Instrument Rack	(18) Instruments on Racks	Reactor Building, Room R3-15, El. 88'	No issues with the SWC or AWC applicable to this equipment or its conclusions were identified.
MO3-30-3233A (AWC U3-25)	Unit 3A Sluice Gate	(8A) Motor Operated Valves	Screenhouse, Room S/H-4, El. 116'	No issues with the SWC or AWC applicable to this equipment or its conclusions were identified.
H03-23C-5512 (AWC U3-8)	HPCI Turbine Governor Control Valve	(07) Fluid (Air/Hyd) Valves	Reactor Building, Room R3-13, El. 88'	No issues with the SWC or AWC applicable to this equipment or its conclusions were identified.
RV3-23-034 (AWC U3-8)	HPCI Pump Suction Header Relief Valve	(07) Fluid (Air/Hyd) Valves	Reactor Building, Room R3-13, El. 88'	No issues with the SWC or AWC applicable to this equipment or its conclusions were identified.
30B324 (AWC U3-15)	MO-3-23-015 Motor Control Power Transfer Switch	(01) Motor Control Centers	Turbine Building, MG Set Room, El. 135'	No issues with the SWC or AWC applicable to this equipment or its conclusions were identified.

Table F.3-1. Table of SWC and AWC Samples from Seismic Walkdown

Equipment ID (Applicable Area Walkby)	Description	Equipment Class	Location	Observations
30B013 (AWC U3-24)	Emergency Aux Load Center E434	r Switchgear Room R3-41, El. Si al el co		No issues with the SWC or AWC applicable to this equipment or its conclusions were identified.
30P033 & 30P038 (AWC U3-8)	HPCI Booster Pump and HPCI Pump	(05) Horizontal Pumps	Reactor Building, Room R3-13, El. 88'	No issues with the SWC or AWC applicable to this equipment or its conclusions were identified.
30Y050 (AWC U3-22)	120V AC Distribution Panel	(14) Distribution Panels	Turbine Building, Room T3-81, El. 150'	No issues with the SWC or AWC applicable to this equipment or its conclusions were identified.
0AV036 (AWC U0-10)	Battery Room Exhaust Fan A	(09) Fans	Radwaste Building, Room R/W-32, El. 165'	No issues with the SWC or AWC applicable to this equipment or its conclusions were identified.
0AP163 (AWC U0-1)	Emergency Service Water Booster Pump A	(05) Horizontal Pump	Diesel Generator Building, Room D/G-1, El. 121'	No issues with the SWC or AWC applicable to this equipment or its conclusions were identified.
MO-0-33-0498 (AWC U0-1)	ESW Return to Discharge Pond	(08a) Motor Operated Valves	Diesel Generator Building, Room D/G-2, El. 121'	No issues with the SWC or AWC applicable to this equipment or its conclusions were identified.

Table F.3-1. Table of SWC and AWC Samples from Seismic Walkdown

Equipment ID (Applicable Area Walkby)	Description	Equipment Class	Location	Observations
0AG012 (AWC U0-2)	E1 Standby Diesel Generator	(17) Engine Generators	Diesel Generator Building, Room D/G-3, El. 127'	No issues with the SWC or AWC applicable to this equipment or its conclusions were identified.
0AP060 (AWC U0-2)	E1 D/G Fuel Oil Transfer Pump	(05) Horizontal Pumps	Diesel Generator Building, Room D/G-3, El. 127'	No issues with the SWC or AWC applicable to this equipment or its conclusions were identified.
TCV-052E- 7239A (AWC U0-2)	D/G Jacket Water Coolant 3-Way Thermostatic Control Valves	(07) Fluid (Air/Hyd) Valves	Diesel Generator Building, Room D/G-3, El. 127'	No issues with the SWC or AWC applicable to this equipment or its conclusions were identified.
0AC097 (AWC U0-2)	Diesel Generator OAG12 Control Panel	(20) Control Panels & Cabinets	Diesel Generator Building, Room D/G-3, El. 127'	No issues with the SWC or AWC applicable to this equipment or its conclusions were identified.
0AT096 (AWC U0-2)	E1 Diesel Generator Lube Oil Storage Tank	(21) Horizontal Tanks or Heat Exchangers	Diesel Generator Building, Room D/G-3, El. 127'	No issues with the SWC or AWC applicable to this equipment or its conclusions were identified.
0BK032 (AWC U0-3)	Emergency Cooling Tower Fan B	(09) Fans	Emergency Cooling Towers, Room ECT-6, El. 195'	No issues with the SWC or AWC applicable to this equipment or its conclusions were identified.

Table F.3-1. Table of SWC and AWC Samples from Seismic Walkdown

Equipment ID (Applicable Area Walkby)	Description	Equipment Class	Location	Observations
MO-48-0501A (AWC U0-4)	ESW A Inlet to ECT Reservoir	(08a) Motor Operated Valves	Emergency Cooling Towers, Room ECT-1, El. 114'	No issues with the SWC or AWC applicable to this equipment or its conclusions were identified.
SV3-3-33 (AWC U3-13)	Instrument Air Solenoid Valve	(8b) Solenoid Operated Valves	Reactor Building, Room R3-22, El. 135'	No issues with the SWC or AWC applicable to this equipment or its conclusions were identified.

Peer Reviewer:	Valanch	Dutter	•	Date	10/15/2012	

F.4

Review of Licensing Basis Evaluations

There were no instances identified during the walkdowns where evaluated components could not readily be shown to meet the plant seismic licensing basis. Accordingly, no licensing basis evaluations to determine if equipment complied with current seismic licensing basis requirements were required. However, there were some anomalies or conditions adverse to quality identified during the walkdowns. Tables 5-2 and 5-3 in the main body of the report provide a list of the anomalies encountered during the Unit 3 seismic walkdown inspections and how they were addressed.

Peer Reviewer:	Date	10/15/2012
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F.5 References

1. EPRI Technical Report 1025286, Seismic Walkdown Guidance for Resolution of Fukushima Near-Term Task Force Recommendation 2.3: Seismic, dated June 2012.

Attachment 1: Peer Review Checklist for SWEL

Peer Review Checklist for SWEL - Peach Bottom Atomic Power Station Unit 3

In	stru	ections for Completing Checklist		
Eo in ar	quip this id ho	eer review checklist may be used to document the review of the Seismic Walkdown ment List (SWEL) in accordance with Section 6: Peer Review. The space below each checklist should be used to describe any findings identified during the peer review ow the SWEL may have changed to address those findings. Additional space is prove this checklist for documenting other comments.	ch ques proces	S
1.		ere the five safety functions adequately represented in the SWEL 1 selection? Five safety functions were included in the SWEL Selection.	Y⊠	N
2.		es SWEL 1 include an appropriate representation of items having the following san	nple	
	a.	Various types of systems? A wide variety of systems were represented including Residual Heat Removal, Reactor Core Isolation Cooling, Core Spray, High Pressure Coolant Injection, Control Drive Hydraulic, High Pressure Service Water, 125 VDC, 120 VAC, 480 VAC.	Y⊠	N□
	b.	Major new and replacement equipment? Due to the significant number of modifications performed in the late 1990's as part of the USI A-46 (SQUG) and IPEEE programs, PBAPS Unit 3 has not made significant modifications to Seismic Class I equipment within the last several years. Accordingly, SWEL 1 does not identify any new or replacement components.	Y⊠	N□
	c.	Various types of equipment? All of the EPRI equipment classes are represented with the exception of Classes #11 Chillers, #12 Air Compressors, and #13 Motor Generators. No Seismic Class I equipment in these three classes were identified at PBAPS Unit 3.	Y⊠	N□
	d.	Various environments? Equipment in various environments including the Reactor Building, Control Structure, Screen House, Pump Structure, Turbine Building, Diesel Generator Building and Drywell are included.	Y⊠	N□
	e.	Equipment enhanced based on the findings of the IPEEE (or equivalent) program? The Unit 3 SWEL includes a sample of equipment items that were enhanced based on findings of the USI A-46 (SQUG) and IPEEE programs (see Sections 4.2 and 7 of the Report).	Y⊠	N□

Peer Review Checklist for SWEL - Peach Bottom Atomic Power Station Unit 3

f. Were risk insights considered in the development of SWEL 1? The plant Probabilistic Risk Assessment (PRA) was reviewed and used to guide selection of the components on SWEL 1. Specifically, the relative risk significance of candidate components including the Risk Achievement Worth (RAW) and Fussell-Vesely importance for a Loss of Off-Site Power (LOOP) scenario from the internal plant PRA were used (See Section 4.2 of the report).	Y⊠ N□
3. For SWEL 2:	
a. Were spent fuel pool related items considered, and if applicable included in SWEL 2?	Y⊠ N□
Both parts of SWEL 2, assessment of Seismic Class I spent fuel pool (SFP) related equipment and equipment that could potentially result in rapid drain-down of the SFP were considered. There is no equipment in either category. See documentation of SFP item review in Section 4.3 of the Report.	
b. Was an appropriate justification documented for spent fuel pool related items not included in SWEL 2?	Y⊠ N□
As noted in Section 4.3 of the report, there is no Seismic Class I spent fuel pool related equipment.	
Section 4.3 also includes appropriate justification that there are no items of equipment that could cause rapid drain-down due to lack of penetrations within about 10 feet above the top of the fuel racks, and there are adequate anti-syphon features included in piping that terminate within a few feet of the tops of the fuel racks.	
4. Provide any other comments related to the peer review of the SWELs.	
The Peer Review team had no comments on the SWEL.	
	•
5. Have all many review comments been adequately addressed in the final SWEL 2	Y⊠ N□
5. Have all peer review comments been adequately addressed in the final SWEL?	

Peer Review Checklist for SWEL - Peach Bottom Atomic Power Station Unit 3

Patrick Butler, P.E.

Peer Reviewer

#1:

Patrick Butter

Date: 10/15/2012

Craig Swanner, P.E.

Peer Reviewer

#2:

(son Down

Date: 10/23/2012

U.S. Nuclear Regulatory Commission 180-Day Response to 50.54(f) Letter NTTF Recommendation 2.3: Seismic November 19, 2012 Page 7

Enclosure 3

SUMMARY OF REGULATORY COMMITMENTS

The following table identifies commitments made in this document. (Any other actions discussed in the submittal represent intended or planned actions. They are described to the NRC for the NRC's information and are not regulatory commitments.)

		COMMITTED	СОММІТМІ	ENT TYPE
	COMMITMENT	DATE OR "OUTAGE"	ONE-TIME ACTION (Yes/No)	PROGRAMMATIC (Yes/No)
1.	Exelon Generation Company, LLC (EGC) will complete the walkdown of the one (1) PBAPS Unit 2 item deferred due to inaccessibility.	3Q2013 (September 30, 2013)	Yes	No
2.	EGC will complete the supplemental inspections of the three (3) PBAPS Unit 2 electrical items identified in Tables E-2 and E-3.	May 31, 2015	Yes	No
3.	EGC will complete the walkdown of the thirteen (13) PBAPS Unit 3 items deferred due to inaccessibility.	P3R19 Fall 2013	Yes	No
4.	EGC will complete the supplemental inspections of the six (6) PBAPS Unit 3 electrical items identified in Tables E-2 and E-3.	May 31, 2015	Yes	No