

## **Area Walk-By Checklists**

Table C-1: Summary of Area Walk-By Check Lists Completed by Ginna Personnel			
Area Number	Location	Elevation	Page
17	Auxiliary Building CVCS Waste Holdup Tank Room	235'	C-2
25	Auxiliary Building, Sub-Basement, RHR Pit	219'	C-6
26a	Containment, Pressurizer Cubicle	274'-6"	C-10
26b	Containment, B RCP/SG Cubicle	252'	C-16
26c	Containment, Basement Level, North	235'-8"	C-22
26d	Containment, Intermediate Level North-East	253'-3"	C-30
26e	Containment, Post Accident Charcoal Filter Plenum	300'-4"	C-34
27	Auxiliary Building, Former Boric Acid Evaporator Room	235'	C-38

		Status: Y N U U
Area V	Valk-By Checklist (AWC)	
	Location (Bldg, Elev, Room/Area): CVCS Waste Tank Room, Auxiliary Building	g, 235', Area 17
Instruc	tions for Completing Checklist	
the follo	ecklist may be used to document the results of the Area Walk-By near one or more Stowing questions may be used to record the results of judgments and findings. Additionally a	
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 □
	Inspected anchorage of B CVCS waste hold-up tank only. Dose from other 2 tanks prevents complete inspection of anchorage	
2.	Does anchorage of equipment in the area appear to be free of significant degraded conditions?	Y ⊠ N □ U □ N/A □
		ı
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)?	Y ⊠ N □ U □ N/A □
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 □

		Sta	utus: Y 🖾 N 🗌 U 🗌	
Area W	alk-By Checklist (AWC)			
	Location (Bldg, Elev, Room/Area): CVCS Waste Tank Room, Auxiliary Bu	ilding, 23	35', Area 17	
6.	Does it appear that the area is free of potentially adverse seismic interactions the could cause a fire in the area?	at	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)?		Y ⊠ N □ U □ N/A □	
	Temporary camera and stand mounted on flat baseplate. Could topple over in seismic event. No soft targets noted			
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	Y ⊠ N □ U □	
	Equipment in area is not credited to perform the 5 safety functions listed in EP. 1025286. Area walk-by conducted for SFP drain down concern	RI		
Commo	ents ·			
Suppler	mental pictures taken using remote monitoring cameras to minimize dose during	walkdow	n	
Evalua	ed by: Jeffy Sandi	Date:	12/10/2012	
	Fuft	Date:	12/10/2012	
		,		

#### AREA WALK-BY CHECKLISTS

Status: Y N U U

#### Area Walk-By Checklist (AWC)

Location (Bldg, Elev, Room/Area): CVCS Waste Tank Room, Auxiliary Building, 235', Area 17









Status: Y N U U

#### Area Walk-By Checklist (AWC)

Location (Bldg, Elev, Room/Area): CVCS Waste Tank Room, Auxiliary Building, 235', Area 17









	•	Status: Y ☐ N ⊠ U ☐	
Area W	alk-By Checklist (AWC)		
	Location (Bldg, Elev, Room/Area): Auxiliary Building Sub-Basement, 219', Area	25	
Instruc	tions for Completing Checklist		
the follo	ecklist may be used to document the results of the Area Walk-By near one or more SW owing questions may be used to record the results of judgments and findings. Additional cklist 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)?	Y 🛮 N 🗍 U 🗍 N/A 🗍	
·			
2.	Does anchorage of equipment in the area appear to be free of significant degraded conditions?	Y □ N ⊠ U □ N/A □	J
	More than minor surface corrosion on Unistrut mounted on floor, CR-2012-008409		
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)?	Y ⊠ N □ U □ N/A □	
	Camera tied off, lighting supported by rigid metal conduit	3	
			•
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 □	

		Status: Y ☐ N ⊠ U ☐
Area W	alk-By Checklist (AWC)	•
	Location (Bldg, Elev, Room/Area): Auxiliary Building Sub-Basement, 219', Area	ea 25
	No fire suppression system in area.	· · · · · · · · · · · · · · · · · · ·
		•
6.	Does it appear that the area is free of potentially adverse seismic interactions that could cause a fire in the area?	Y ⊠ N □ U □ N/A □
		,
7.	Does it appear that the area is free of potentially adverse seismic interactions associated with housekeeping practices, storage of portable equipment, and temporary installations (e.g., scaffolding, lead shielding)?	Y □ N ⊠ U □ N/A □
	Ladders leaning on wall. Team relocated ladders to floor to minimize interaction concern. CR-2012-006918 was written	
8.	Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment in the area?	YNDUD
•		
Comm	ents ,	
Evalua	ed by: Jeffy Santi De	ate: 12/10/2012
	Luft	ate: 12/10/2012

Status: Y ☐ N ⊠ U ☐

#### Area Walk-By Checklist (AWC)

Location (Bldg, Elev, Room/Area): Auxiliary Building Sub-Basement, 219', Area 25



Status: Y N N U

#### Area Walk-By Checklist (AWC)

Location (Bldg, Elev, Room/Area): Auxiliary Building Sub-Basement, 219', Area 25





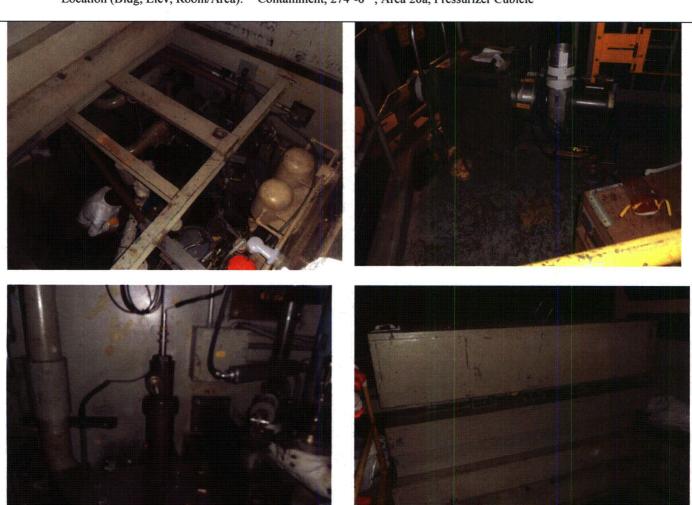


		Status: Y 🛛 N 🔲 U 🗍
Area W	/alk-By Checklist (AWC)	•
	Location (Bldg, Elev, Room/Area): Containment, 274'-6", Area 26a, Pressurizer	Cubicle
Instruc	tions for Completing Checklist	
the follo	ecklist may be used to document the results of the Area Walk-By near one or more Stowing questions may be used to record the results of judgments and findings. Additionally a	
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?	Y ⊠ N □ U □ N/A □
3.	Based on a visual inspection from the floor, do the cable/conduit raceways and HVAC ducting appear to be free of potentially 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 ☒
	Lack of cable trays and HVAC ducting, cubicle concrete blocks removed for maintenance, reconfigured in accordance with procedure A-3.1 for power operation.	
4.	Does it appear that the area is free of potentially adverse seismic spatial interactions with other equipment in the area (e.g., ceiling tiles and lighting)?	Y ⊠ N □ U □ N/A □
	Lighting fixtures supported from wall by embedded unistrut.	
5.	Does it appear that the area is free of potentially adverse seismic interactions that	Y ⊠ N □ U □ N/A □

	· •	Status: Y⊠N □ U □
Area W	alk-By Checklist (AWC)	
	Location (Bldg, Elev, Room/Area): Containment, 274'-6", Area 26a, Pressurizer	Cubicle
	could cause flooding or spray in the area?	
	No fire suppression system in area.	•
6.	Does it appear that the area is free of potentially adverse seismic interactions that could cause a fire in the area?	Y⊠n□u□n/a□
7.	Does it appear that the area is free of potentially adverse seismic interactions associated with housekeeping practices, storage of portable equipment, and temporary installations (e.g., scaffolding, lead shielding)?	Y ⊠ N □ U □ N/A □
	Maintenance job box and HEPA unit at top of cubicle. Removed during power operation via containment closeout procedure Handrail prevents carts from falling into cubicle. Stacked blocks may be adverse, but are installed and secured in accordance with calculation DA-CE-94-053 and A-3.1 during power operation	
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 □
Comm	<u>ents</u>	
Evalua	ed by: Jeffy Santi Dar	te: 12/10/2012
	In Day	te: 12/10/2012

Status: Y ⊠ N □ U □

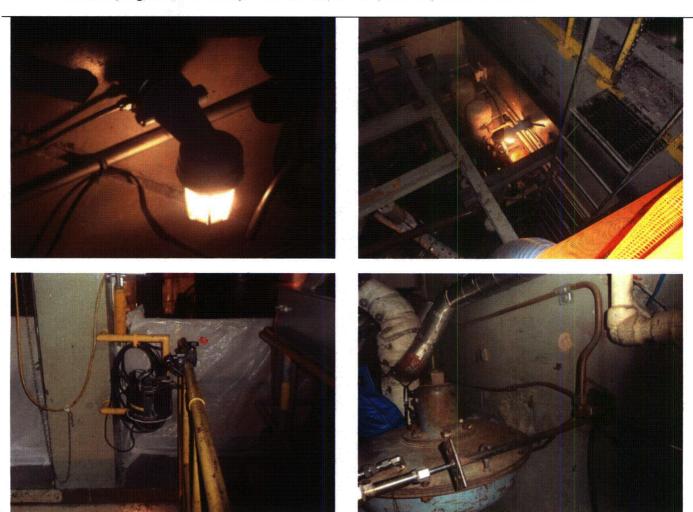
#### Area Walk-By Checklist (AWC)



#### AREA WALK-BY CHECKLISTS

Status: Y N D U

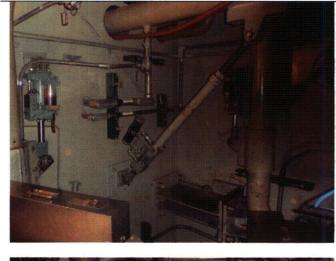
#### Area Walk-By Checklist (AWC)



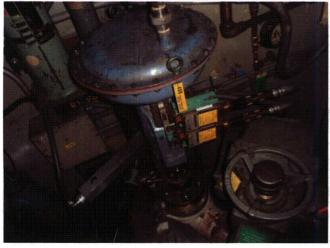
#### AREA WALK-BY CHECKLISTS

Status: Y N U U

#### Area Walk-By Checklist (AWC)









#### AREA WALK-BY CHECKLISTS

Status: Y N D U

Area Walk-By Checklist (AWC)

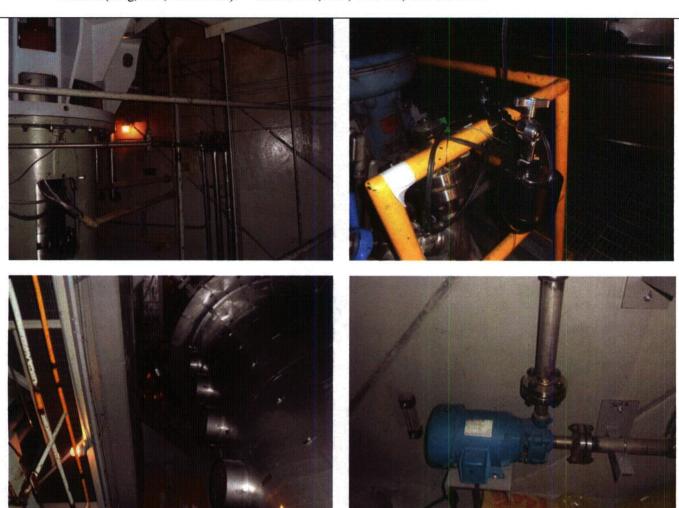


		Status: Y⊠N ☐ U ☐
Area V	/alk-By Checklist (AWC)	
	Location (Bldg, Elev, Room/Area): Containment, 253', Area 26b, RCP B Cubicle	,
Instruc	tions for Completing Checklist	
the follo	ecklist may be used to document the results of the Area Walk-By near one or more SV owing questions may be used to record the results of judgments and findings. Additional cklist 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)?	Y ⊠ N □ U □ N/A □
; 2.	Does anchorage of equipment in the area appear to be free of significant degraded conditions?	Y ⊠ N □ U □ N/A □
3.	Based on a visual inspection from the floor, do the cable/conduit raceways and HVAC ducting appear to be free of potentially 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 🗍
	Lack of cable trays, minimal ventilation ducting in room. HVAC ductwork not supported below penetrations but judged acceptable by team.	
4.	Does it appear that the area is free of potentially adverse seismic spatial interactions with other equipment in the area (e.g., ceiling tiles and lighting)?	Y ⊠ N □ U □ N/A □
	Lighting fixtures supported from wall by embedded unistrut.	
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 □
	No fire suppression system in area.	,
6.	Does it appear that the area is free of potentially adverse seismic interactions that	Y ⊠ N □ U □ N/A □

			Status:	Y⊠N□U□
Area W	'alk-By Checklist (AWC)			
	Location (Bldg, Elev, Room/Area): Con	tainment, 253', Area 26b, RCP	B Cubicle	
	could cause a fire in the area?			
		:		
7.	Does it appear that the area is free of poten associated with housekeeping practices, sto temporary installations (e.g., scaffolding, le	orage of portable equipment, an		] N 🗌 U 📄 N/A 📄
	Shielding removed per A-3.1 and stored in	box, box chained to adjoining	handrail	
8.	Have you looked for and found no other se affect the safety functions of the equipment		versely	Y⊠n□u□
	`	·	•	
Comm	<u>ents</u>			
Evaluat	ted by:	Sardi	Date:	12/10/2012
	Furf		·	12/10/2012

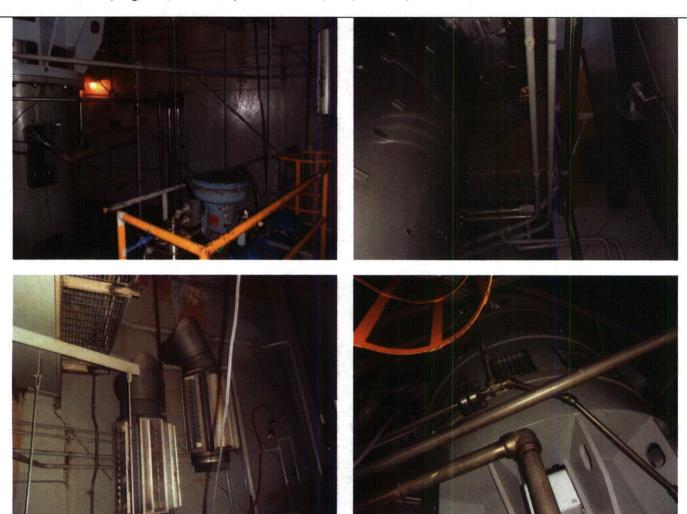
Status: Y N U U

#### Area Walk-By Checklist (AWC)



Status: Y N U U

#### Area Walk-By Checklist (AWC)



Status: Y N U U

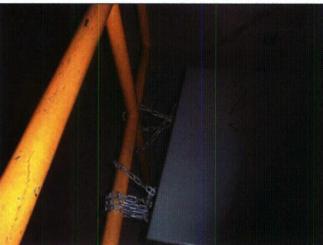
#### Area Walk-By Checklist (AWC)



Status: Y N U U

#### Area Walk-By Checklist (AWC)





		Status: Y⊠N ☐ U ☐
Area W	/alk-By Checklist (AWC)	
	Location (Bldg, Elev, Room/Area): Containment, 235', Area 26c, Basement Level	l, North
Instruc	tions for Completing Checklist	
the follo	ecklist may be used to document the results of the Area Walk-By near one or more SW owing questions may be used to record the results of judgments and findings. Addition cklist 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)?	Y ⊠ N □ U □ N/A □
2.	Does anchorage of equipment in the area appear to be free of significant degraded conditions?	Y ⊠ N □ U □ N/A □
3.	Based on a visual inspection from the floor, do the cable/conduit raceways and HVAC ducting appear to be free of potentially 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□
	Cable trays are lightly loaded, lateral restraints provided for trays. Large ductwork suspended by rod-hangers	· · · · · · · · · · · · · · · · · · ·
4.	Does it appear that the area is free of potentially adverse seismic spatial interactions with other equipment in the area (e.g., ceiling tiles and lighting)?	Y 🖾 N 🗌 U 🗎 N/A 🗍
·	Lighting fixtures supported from wall by embedded unistrut.	
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□

	s	Status:	Y⊠N□U□	
Area W	alk-By Checklist (AWC)			
	Location (Bldg, Elev, Room/Area): Containment, 235', Area 26c, Basement Level	l, North		
6.	Does it appear that the area is free of potentially adverse seismic interactions that could cause a fire in the area?	Υ⊠	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)?	Υ⊠	N 🗌 U 🗌 N/A 🗍	
	Several carts, tools, scaffold components scattered about. This equipment is removed/secured via containment closeout procedure A-3.1. Scaffold components secured in seismically qualified racks during power operation.			
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 🗌	
Comm	<u>ents</u>	·		
Evalua	ed by: Jeffy Santi Date	e:	12/10/2012	,
	Juffel Date	<b>e</b> :	12/10/2012	

Status: Y N N U U

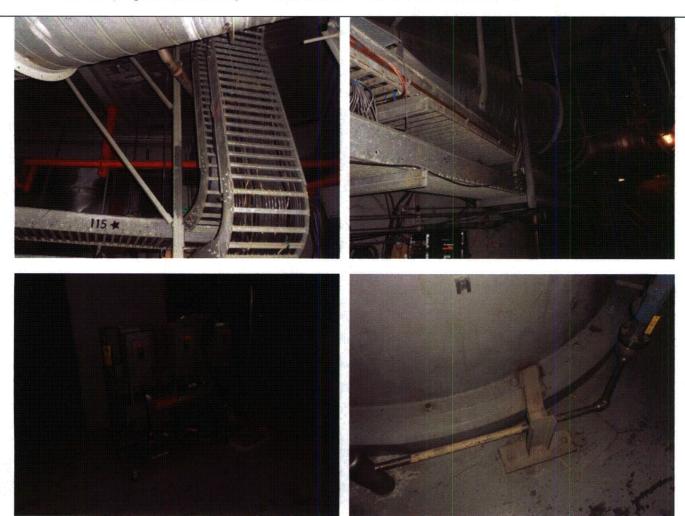
#### Area Walk-By Checklist (AWC)



#### AREA WALK-BY CHECKLISTS

Status: Y ⊠ N □ U □

#### Area Walk-By Checklist (AWC)

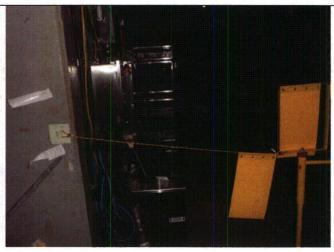


#### AREA WALK-BY CHECKLISTS

Status: Y ⊠ N □ U □

#### Area Walk-By Checklist (AWC)









#### AREA WALK-BY CHECKLISTS

Status: Y N U U

#### Area Walk-By Checklist (AWC)







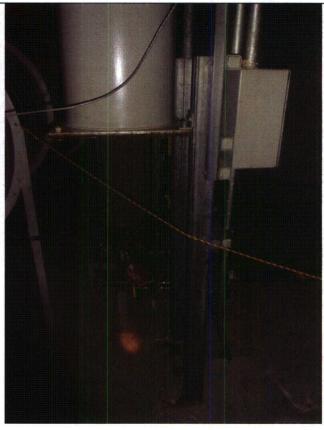


### AREA WALK-BY CHECKLISTS

Status: Y N D U

#### Area Walk-By Checklist (AWC)





Status: Y N N U

#### Area Walk-By Checklist (AWC)





		Status: Y N U U
Area W	Valk-By Checklist (AWC)	
	Location (Bldg, Elev, Room/Area): Containment, 253', Area 26d, Intermediate L	evel North-East
Instruc	tions for Completing Checklist	
the follo	ecklist may be used to document the results of the Area Walk-By near one or more Sowing questions may be used to record the results of judgments and findings. Additionally, and the comments of the comments of the comments.	
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?	Y ⊠ N □ U □ N/A □
3.	Based on a visual inspection from the floor, do the cable/conduit raceways and HVAC ducting appear to be free of potentially 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)?	Y ⊠ N □ U □ N/A □
	Abandoned heating unit, identified under SWC for 8608A. No adverse condition noted	
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 □

		Status:	Y 🖾 N 🗌 U 🗌	
Area W	alk-By Checklist (AWC)			
	Location (Bldg, Elev, Room/Area): Containment, 253', Area 26d, Intermediate L	evel North	-East	
6.	Does it appear that the area is free of potentially adverse seismic interactions that could cause a fire in the area?	Υ⊠	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)?	Υ⊠	N 🗌 U 🗌 N/A 🗌	-
	Laundry bag & barrel, removed from containment prior to startup, via containment closeout procedure A-3.1	·	N.	,
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 🗌	
				,
Comm	<u>ents</u>			
Evalua	ted by: Jeffy Sandi Da	ate: 	12/10/2012	
	Juffer Da	ate:	12/10/2012	
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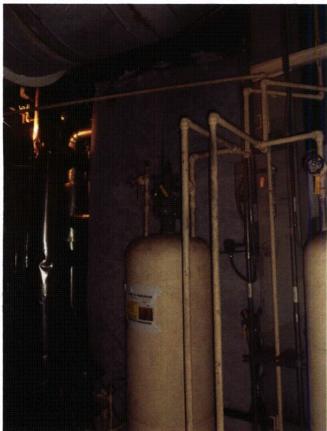
Status: Y N U U

#### Area Walk-By Checklist (AWC)

Location (Bldg, Elev, Room/Area): Containment, 253', Area 26d, Intermediate Level North-East







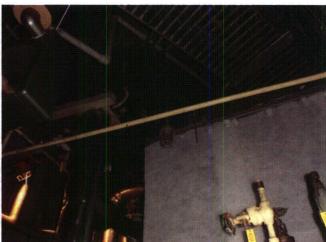


Status: Y ⊠ N □ U □

Area Walk-By Checklist (AWC)

Location (Bldg, Elev, Room/Area): Containment, 253', Area 26d, Intermediate Level North-East







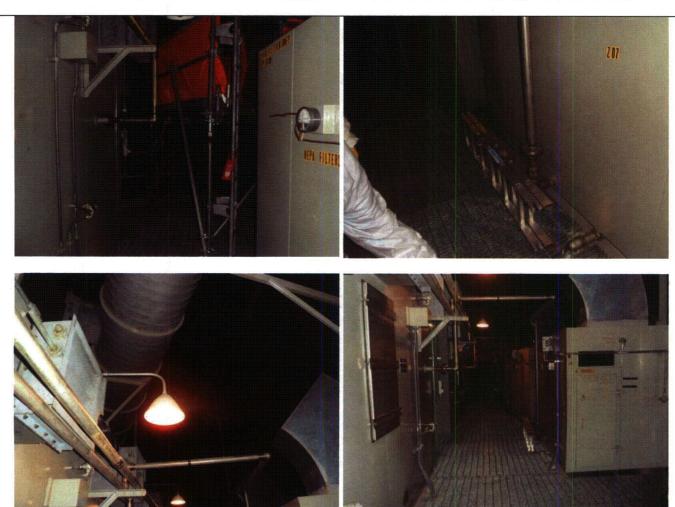
\$	Status: Y⊠N ☐ U ☐							
Area Walk-By Checklist (AWC)								
Location (Bldg, Elev, Room/Area): Containment, 300'-4", Area 26e, Post Accident Charcoal Filter Platform								
Instructions for Completing Checklist								
This checklist may be used to document the results of the Area Walk-By near one 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.								
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 □							
Does anchorage of equipment in the area appear to be free of significant degraded conditions?	Y⊠n⊡u□n/a□							
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□							
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)?  Cantilever lights could be interaction, no soft targets in area	Y ⊠ N □ U □ N/A □							
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 □							
	Location (Bldg, Elev, Room/Area): Containment, 300'-4", Area 26e, Post Accide Etions for Completing Checklist ecklist may be used to document the results of the Area Walk-By near one or more SW owing questions may be used to record the results of judgments and findings. Additions of rodcumenting other comments.  Does anchorage of equipment in the area appear to be free of potentially adverse seismic conditions (if visible without necessarily opening cabinets)?  Does anchorage of equipment in the area appear to be free of significant degraded conditions?  Does anchorage of equipment in the area appear to be free of significant degraded conditions?  Does anchorage of equipment in 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)?  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)?  Cantilever lights could be interaction, no soft targets in area							

		Status:	Y⊠N□U□	/
Area W	Valk-By Checklist (AWC)			
	Location (Bldg, Elev, Room/Area): Containment, 300'-4", Area	26e, Post Accident Char	coal Filter Platform	
- <b>6</b> .	Does it appear that the area is free of potentially adverse seismic integral could cause a fire in the area?	eractions that Y	Ŋ N	
			,	
7.	Does it appear that the area is free of potentially adverse seismic into associated with housekeeping practices, storage of portable equipme temporary installations (e.g., scaffolding, lead shielding)?		N □ U □ N/A □	
	Ladder on platform, removed from containment via containment clo procedure. Scaffold is seismically qualified permanently installed p modification. Scaffold is anchored to platform		·	;
8.	Have you looked for and found no other seismic conditions that cou affect the safety functions of the equipment in the area?	ld adversely	Y⊠N□U□	
	•			
<u>Comm</u>	<u>ents</u>			
			<i>y</i> .	
Evalua	ted by: Jeffy Sandi	Date:	12/10/2012	
	Fuft		12/10/2012	
			·	

Status: Y N D U

#### Area Walk-By Checklist (AWC)

Location (Bldg, Elev, Room/Area): Containment, 300'-4", Area 26e, Post Accident Charcoal Filter Platform



Status: Y N U U

Area Walk-By Checklist (AWC)

Location (Bldg, Elev, Room/Area): Containment, 300'-4", Area 26e, Post Accident Charcoal Filter Platform



	Status: Y⊠N □ U □
Area Walk-By Checklist (AWC)	
Location (Bldg, Elev, Room/Area): Area 27 -Auxiliary Building, 235', Former Bo	oric Acid Evaporator Room
Instructions for Completing Checklist	
This checklist may be used to document the results of the Area Walk-By near one or more SW the following questions may be used to record the results of judgments and findings. Addition checklist for documenting other comments.	
<ol> <li>Does anchorage of equipment in the area appear to be free of potentially adverse seismic conditions (if visible without necessarily opening cabinets)?</li> </ol>	Y 🛛 N 🗌 U 🗌 N/A 🗍
2. Does anchorage of equipment in the area appear to be free of significant degraded conditions?	Y ⊠ N □ U □ N/A □
3. Based on a visual inspection from the floor, do the cable/conduit raceways and HVAC ducting appear to be free of potentially 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)?	Y⊠N□U□N/A□
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 □

## AREA WALK-BY CHECKLISTS

		Status:	$Y \boxtimes N \square U \square$	
Area V	Valk-By Checklist (AWC)			
	Location (Bldg, Elev, Room/Area): Area 27 - Auxiliary Building, 235', Form	er Boric Ac	id Evaporator Room	
6.	Does it appear that the area is free of potentially adverse seismic interactions that could cause a fire in the area?	t Y 🖸	N U N/A	
	Compressed bottles are argon gas(non flammable) and are secured at 2 points of bottle.	ef		
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)?	ΥD	☑ N □ U □ N/A □	
	Scaffolding barrier removed from area, however carts are stored in the area. Seismic qualified equipment is mounted on a platform approximately 2' above floor, so it is not adverse. Cabinet closest to camera is not connected to plant equipment at this time.		•	
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 🗆	
Comm	nents			
Evalu	ated by: Jeffy Sami	Date:	12/10/2012	
	Fuffe		12/10/2012	
		`		
	•			

Pictures:

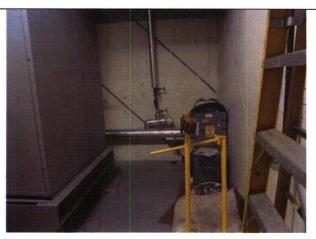
### AREA WALK-BY CHECKLISTS

Status: Y N U U

#### Area Walk-By Checklist (AWC)

Location (Bldg, Elev, Room/Area): Area 27 - Auxiliary Building, 235', Former Boric Acid Evaporator Room







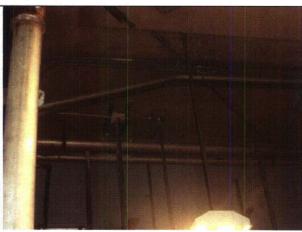


Status: Y N N U

Area Walk-By Checklist (AWC)

Location (Bldg, Elev, Room/Area): Area 27 - Auxiliary Building, 235', Former Boric Acid Evaporator Room







# **SWC's for Supplemental Internal Inspections of Electrical Cabinets**

Equipment Class	Component ID	Description	Page
1	MS@V3505A (42/3505A)	MOTOR STARTER FOR MOV-3505A	D-2
14	ACPDPAB10	PRESSURIZER HEATERS AC POWER DISTRIBUTION PANEL 1A1 (480 VAC)	D-5
14	DCPDPCB01A	DC DISTRIBUTION PANEL (BATTERY A MAIN DISCONNECT PANEL)	D-18
14	DCPDPCB02A	DC POWER DISTRIBUTION PANEL CB 02 A (MAIN FUSE CAB A)	D-22
14	DCPDPCB03A	DC POWER DISTRIBUTION PANEL CB 03 A (MAIN DC PNL 1A)	D-25
16	BYCA	BATTERY CHARGER A	D-10
16	BYCA1	BATTERY CHARGER A1	D-13
16	INVTCVTA	INVERTER INVTA / CONSTANT VOLTAGE TRANSFORMER CVTA CABINET	D-29
20	MCB	MAIN CONTROL BOARD	D-34
20	R1	REACTOR PROTECTION INSTRUMENT RACK CHANNEL 1 RED 1	D-39
20	RA2	AUXILIARY RELAY RACK 2	D-46
20	SA	SAFETY INJECTION/AUX COOLANT RACK	D-51
20	SAFWPCIP	STANDBY AUXILIARY FEEDWATER PUMP C INSTRUMENT PANEL	D-59
20	SIA1	SAFEGUARDS INITIATION RACK A1	D-64
20	Y1	REACTOR PROTECTION INSTRUMENT RACK CHANNEL 4 YELLOW 1	D-68

Seismic Walkdown Checklist		Status:	Y 🖾 N 🗆 U 🗀
	12/3505A		
	1) Motor Control Centers	,	
	MOTOR STARTER FOR MOV-3505A		
· · · · · · · · · · · · · · · · · · ·	ject: Ginna SWEL 1 (Supplemental Interi	nal Inspection	of Cabinet)
Location (Bldg, Elev, Room/A			. ,
Manufacturer/Mo			
Instructions for Completing (			
on the SWEL. The space below	locument the results of the Seismic Walkdow each of the following questions may be uponal space is provided at the end of this ch	ised to record	the results of
<b>Anchorage</b>			
<ol> <li>Is anchorage configura of SWEL items requiring</li> </ol>	tion verification required (i.e., is the item or ig such verification)?	ne of the 50%	Y 🗌 N 🖾
_	of bent, broken, missing or loose hardware anchors for concrete block are visible in the	_	N 🗌 U 📋 N/A 🗀
Is the anchorage free oxidation?	of corrosion that is more than mild surface	Y 🖾 r	N 🗌 U 🗌 N/A 🗀
anchors?	of visible cracks in the concrete near the ock surrounding the box	Y ⊠ N	N
(Note: This question or	guration consistent with plant documentationly applies if the item is one of the 50% for onfiguration verification is required.)	on? Y∐N	N □ U □ N/A ⊠

Seism	ic Walkdown Checkl	Status	ı:	Y⊠N□U□
	Equipment ID No.:	entropy of the state of the sta		
		(1) Motor Control Centers		
Ec	quipment Description:	MOTOR STARTER FOR MOV-3505A		
6.		anchorage evaluations, is the anchorage free of		YNDUD
Interac	ction Effects			
7.	Are soft targets free	from impact by nearby equipment or structures?	$Y \boxtimes V$	
				,
8.		nent, distribution systems, ceiling tiles and y block walls not likely to collapse onto the	Y⊠N	I □ U □ N/A □
		5l, 972-6l and 972-7l were seismically qualified		
9.	Do attached lines ha	ve adequate flexibility to avoid damage?	Y□N	N □ U □ N/A ⊠
10.		seismic interaction evaluations, is equipment verse seismic interaction effects?		Y⊠N□U□
Other	Adverse Conditions		***************************************	
11.		and found no adverse seismic conditions that coul safety functions of the equipment?	d	Y⊠N□U□
Comm	<u>ients</u>			
Evalua	ated by:	Jeffy Sardi	_ Date:	12/10/2012
	<del> </del>	Fufle		12/10/2012

#### SUPPLEMENTAL INTERNAL INSPECTIONS OF ELECTRICAL CABINETS

Status:

 $Y \boxtimes N \square U \square$ 

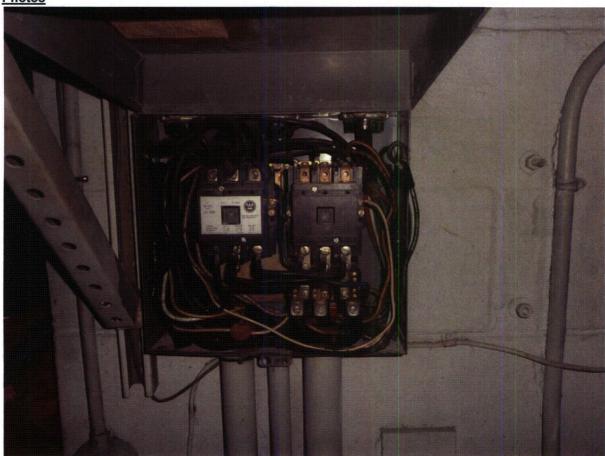
#### Seismic Walkdown Checklist (SWC)

Equipment ID No.: 42/3505A

Equipment Class: (1) Motor Control Centers

Equipment Description: MOTOR STARTER FOR MOV-3505A

#### **Photos**



			Status:	Y 🛮 N 🗆 U 🗆
Seismic Walkdown Checkli	ist (SWC)			46 46 47 47 47 47 47 47 47 47 47 47 47 47 47
Equipment ID No.:	42/3505A	Constants are properties		
Equipment Class:	(1) Motor	Control Centers		
Equipment Description:	MOTOR	STARTER FOR MOV-350	)5A	
				6
Seismic Walkdown Checklis			Status:	Y⊠N□U□
Equipment ID No.:			A Production of the Control of the C	
Equipment Class:		bution Panels RIZER HEATERS AC PO	WER DISTRIBUTION	PANFI 1A1
Equipment Description:	(480 VAC		WEIGH BOTTON	. ,
Pr	oject: Gin	nna SWEL 1 (Supplement	al Internal Inspection of	of Cabinet)
Location (Bldg, Elev, Room/A	Area): Au	xiliary Building, 253.00 ft,	Area 21	. 1915   State
Manufacturer/N	flodel:			
Instructions for Completing	Checklist			
This checklist may be used to the SWEL. The space below judgments and findings. Addi comments.	each of the	e following questions may	be used to record the	results of
<u>Anchorage</u>				
<ol> <li>Is anchorage configure of SWEL items require</li> </ol>		cation required (i.e., is the erification)?	e item one of the 50%	Y 🗆 N 🗆
	•	cabinet internals. Anchor r previous Seismic Walkd		

Salam	io Walkdown Chackli		tatus:	$Y \boxtimes N \square U \square$
Seisiii	ic Walkdown Checklis	er (344C)		
	Equipment ID No.:	ACPDPAB10		
	Equipment Class:	(14) Distribution Panels		
E	quipment Description:	PRESSURIZER HEATERS AC POWER DIS (480 VAC)	STRIB	JTION PANEL 1A1
2.		of bent, broken, missing or loose hardware		Y 🗌 N 🔲 U 🗌 N/A 🗍
	N/A Supplemental ins	spection of cabinet internals.		
3.	Is the anchorage free oxidation?	of corrosion that is more than mild surface		Y 🗌 N 🗌 U 🗎 N/A 🗌
	N/A Supplemental ins	spection of cabinet internals.		
4.	Is the anchorage free anchors?	of visible cracks in the concrete near the		Y
	N/A Supplemental ins	spection of cabinet internals.		
5.	(Note: This question of	figuration consistent with plant documentation only applies if the item is one of the 50% for warration verification is required.)		Y
	N/A Supplemental ins	spection of cabinet internals.		
6.	potentially adverse se	anchorage evaluations, is the anchorage free eismic conditions? Spection of cabinet internals.	of	YONOUO
Interac	tion Effects	•		
7.	Are soft targets free f	rom impact by nearby equipment or structure	s?	Y 🗌 N 🔲 U 🗌 N/A 🗌
	N/A Supplemental ins	spection of cabinet internals.	e *	
8.	and masonry block w	ent, distribution systems, ceiling tiles and lighalls not likely to collapse onto the equipment?	•	Y 🗆 N 🗆 U 🗀 N/A 🗀
	Cappiomomal me			
9.	Do attached lines have	re adequate flexibility to avoid damage?		Y 🗌 N 🗍 U 🗎 N/A 🗎

Seismic Walkdown Checkli	Status:	Y	$\boxtimes$ N $\square$ U $\square$		
Seisinic Walkdown Checkii	St (344C)		,		
Equipment ID No.:	ACPDPAB10				
Equipment Class:	(14) Distribution Panels				
Equipment Description:	PRESSURIZER HEATERS AC POWER DISTRIB (480 VAC)	UTION PA	NEL 1A1		
	spection of cabinet internals.		-		
10. Based on the above of potentially adverse  N/A Supplemental ins  Other Adverse Conditions  11. Have you looked for	seismic interaction evaluations, is equipment free eseismic interaction effects?  Spection of cabinet internals.  and found no adverse seismic conditions that could		NU		
adversely affect the safety functions of the equipment? Supplemental internal inspection: Cabinet contains circuit breakers, unable to inspect further without disassembly or removal of power.					
<u>Comments</u>					
Evaluated by:	Jeffy Sandi	Date:	12/10/2012		
	Infle.	-	12/10/2012		
			r		
	•				
<u>Photos</u>					

#### SUPPLEMENTAL INTERNAL INSPECTIONS OF ELECTRICAL CABINETS

Status:

 $Y \boxtimes N \square U \square$ 

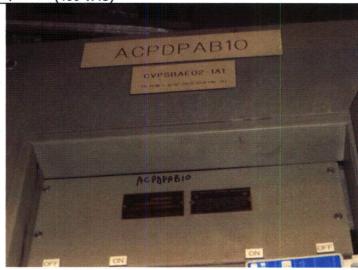
Seismic Walkdown Checklist (SWC)

Equipment ID No.: ACPDPAB10

Equipment Class: (14) Distribution Panels

PRESSURIZER HEATERS AC POWER DISTRIBUTION PANEL 1A1

Equipment Description: (480 VAC)





#### SUPPLEMENTAL INTERNAL INSPECTIONS OF ELECTRICAL CABINETS

Status:

 $Y \boxtimes N \square U \square$ 

Seismic Walkdown Checklist (SWC)

Equipment ID No.: ACPDPAB10

Equipment Class: (14) Distribution Panels

PRESSURIZER HEATERS AC POWER DISTRIBUTION PANEL 1A1

Equipment Description: (480 VAC)



		Status	s: Y⊠N□U□
Seism	ic Walkdown Checklist (SV	<b>VC</b> )	
	Equipment ID No.: BYC	Α	
	Equipment Class: (16)	Battery Chargers and Inverters	
E	quipment Description: BAT	TERY CHARGER 1	
	Project:	Ginna SWEL 1 (Supplemental Internal In	spection of Cabinet)
Locati	on (Bldg, Elev, Room/Area):	Control Building, 253.00 ft, Area 01	
	Manufacturer/Model:		
Instruc	ctions for Completing Chec	cklist	
on the judgme	SWEL. The space below ea ents and findings. Additional ents.	ment the results of the Seismic Walkdown on the following questions may be used to space is provided at the end of this checklist.	o record the results of
Ancho	*		
1.	of SWEL items requiring su	verification required (i.e., is the item one of ich verification)?	the 50% Y ☐ N ☐
	* *	on of cabinet internals. Anchorage is extern under previous Seismic Walkdown Report	al to the
2.	Is the anchorage free of be	nt, broken, missing or loose hardware	Y 🗌 N 🗌 U 🗍 N/A 🗍
	N/A Supplemental inspection	on of cabinet internals.	
3.	Is the anchorage free of co oxidation?	rrosion that is more than mild surface	Y 🗌 N 🗎 U 🗌 N/A 🗍
	N/A Supplemental inspection	on of cabinet internals.	
4.	Is the anchorage free of vis anchors?	sible cracks in the concrete near the	Y 🗌 N 🗌 U 🔲 N/A 🗍
	N/A Supplemental inspection	on of cabinet internals.	
5.		tion consistent with plant documentation? pplies if the item is one of the 50% for which verification is required.)	Y
	N/A Supplemental inspection	on of cabinet internals.	

Seismic Wal	Status (SWC)	éi k	$Y \boxtimes N \square U \square$
	The state of the s		
	uipment ID No.: BYCA		
Eq	quipment Class: (16) Battery Chargers and Inverters		
	ent Description: BATTERY CHARGER 1		
	ed on the above anchorage evaluations, is the anchorage free of entially adverse seismic conditions?		Y D N D U
	Supplemental inspection of cabinet internals.		
Interaction E	<u>Effects</u>		
7. Are s	soft targets free from impact by nearby equipment or structures?	Υ□	N 🗌 U 🔲 N/A 🔲
N/A	Supplemental inspection of cabinet internals.		
	or comments of the control of the co		
	overhead equipment, distribution systems, ceiling tiles and lighting, masonry block walls not likely to collapse onto the equipment?	Υ□	N 🗌 U 🗌 N/A 🗌
N/A	Supplemental inspection of cabinet internals.		
9. Do a	attached lines have adequate flexibility to avoid damage?	Υ□	N 🗌 U 🗌 N/A 🗍
N/A	Supplemental inspection of cabinet internals.		
	Programme and the second of th		
	ed on the above seismic interaction evaluations, is equipment free		Y D N D U
or po	otentially adverse seismic interaction effects?		
N/A	Supplemental inspection of cabinet internals.		
Other Adver	rse Conditions		
	e you looked for and found no adverse seismic conditions that could	ĺ	$Y \boxtimes N \square U \square$
	ersely affect the safety functions of the equipment?		
	plemental internal inspection: Recently replaced, well-routed cabine rnal modifications noted. Inspected live, same model as BYCA1	∌l, 110	
******	==		
Comments			
	A 11		
Evaluated by	yeffy Sardi	Date:	12/10/2012
Evaluated by		- Date.	12/10/2012
	Full		12/10/2012
		<u>-</u>	12/10/2012

#### SUPPLEMENTAL INTERNAL INSPECTIONS OF ELECTRICAL CABINETS

Status:

 $Y \boxtimes N \square U \square$ 

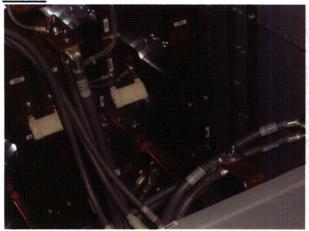
#### Seismic Walkdown Checklist (SWC)

Equipment ID No.: BYCA

Equipment Class: (16) Battery Chargers and Inverters

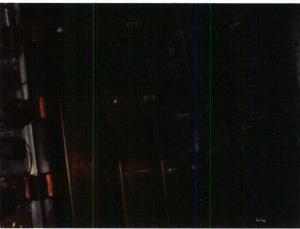
Equipment Description: BATTERY CHARGER 1

#### **Photos**









	Statu	ıs: Y⊠N□U□
Seismic Walkdown Checklist (SV	VC)	
Equipment ID No.: BYCA	A1	
Equipment Class: (16) E	Battery Chargers and Inverters	
Equipment Description: BATT	ERY CHARGER A1	
Project:	Ginna SWEL 1 (Supplemental Internal In	spection of Cabinet)
Location (Bldg, Elev, Room/Area):	Control Building, 253.00 ft, Area 01	
Manufacturer/Model:		
on the SWEL. The space below ea	cklist Iment the results of the Seismic Walkdown Iment the following questions may be used I space is provided at the end of this checkl	to record the results of
<u>Anchorage</u>		
<ol> <li>Is anchorage configuration of SWEL items requiring st</li> </ol>	verification required (i.e., is the item one or uch verification)?	f the 50% Y □ N □
• • • • • • • • • • • • • • • • • • • •	on of cabinet internals. Anchorage is exter under previous Seismic Walkdown Report	
2. Is the anchorage free of be	ent, broken, missing or loose hardware	Y 🗌 N 🗌 U 🗌 N/A 🗍
N/A Supplemental inspecti	on of cabinet internals.	
3. Is the anchorage free of cooxidation?	rrosion that is more than mild surface	Y 🗌 N 🗌 U 🗍 N/A 🗍
N/A Supplemental inspecti	on of cabinet internals.	
4. Is the anchorage free of vis anchors?	sible cracks in the concrete near the	Y 🗌 N 🗎 U 🗎 N/A 🗌
N/A Supplemental inspecti	on of cabinet internals.	
(Note: This question only a	tion consistent with plant documentation? pplies if the item is one of the 50% for uration verification is required.)	Y 🗌 N 🗌 U 🗌 N/A 🗀
N/A Supplemental inspecti	on of cabinet internals.	

Statu Seismic Walkdown Checklist (SWC)	us: Y 🖾 N 🗌 U 🗍
Equipment ID No.: BYCA1	
Equipment Class: (16) Battery Chargers and Inverters	
Equipment Description: BATTERY CHARGER A1	
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	Y DN DU
N/A Supplemental inspection of cabinet internals.	·
Interaction Effects	
7. Are soft targets free from impact by nearby equipment or structures?	Y 🗌 N 🗍 U 🗌 N/A 🗍
N/A Supplemental inspection of cabinet internals.	
8. Are overhead equipment, distribution systems, ceiling tiles and lighting and masonry block walls not likely to collapse onto the equipment?	g, Y 🗌 N 🗌 U 🗌 N/A 🗍
N/A Supplemental inspection of cabinet internals.	
9. Do attached lines have adequate flexibility to avoid damage?	Y 🗌 N 🗍 U 🗌 N/A 🗎
N/A Supplemental inspection of cabinet internals.	
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	e Y 🗌 N 🗍 U 🗍
N/A Supplemental inspection of cabinet internals.	
Other Adverse Conditions	
11. Have you looked for and found no adverse seismic conditions that cound adversely affect the safety functions of the equipment?  Supplemental internal inspection: Recently replaced, well-routed cabin internal modifications noted. Inspected live, same model as BYCA	
<u>Comments</u>	
Evaluated by:  Afty Santi-	Date: 12/10/2012
Fufet	12/10/2012

#### SUPPLEMENTAL INTERNAL INSPECTIONS OF ELECTRICAL CABINETS

Status:

YNDUD

Seismic Walkdown Checklist (SWC)

Equipment ID No.: BYCA1

Equipment Class: (16) Battery Chargers and Inverters

Equipment Description: BATTERY CHARGER A1

#### **Photos**







### SUPPLEMENTAL INTERNAL INSPECTIONS OF ELECTRICAL CABINETS

Status:

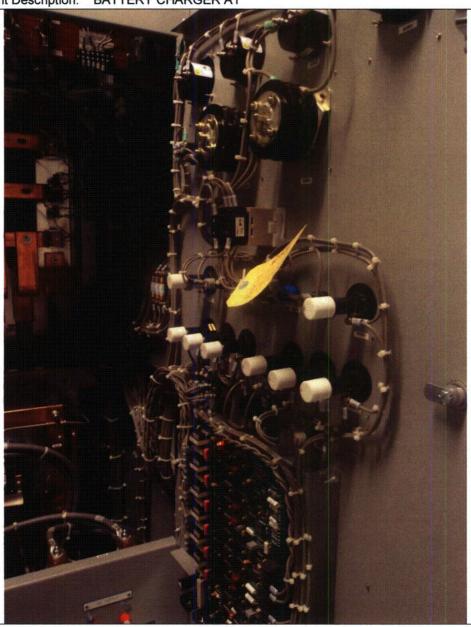
 $Y \boxtimes N \square U \square$ 

Seismic Walkdown Checklist (SWC)

Equipment ID No.: BYCA1

Equipment Class: (16) Battery Chargers and Inverters

Equipment Description: BATTERY CHARGER A1



#### SUPPLEMENTAL INTERNAL INSPECTIONS OF ELECTRICAL CABINETS

Status:

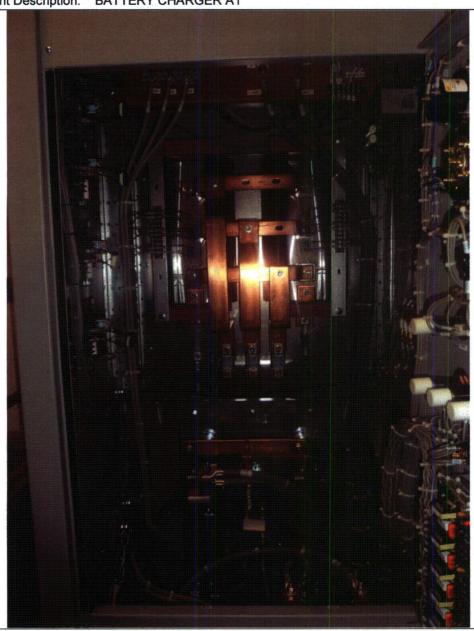
YNDUD

Seismic Walkdown Checklist (SWC)

Equipment ID No.: BYCA1

Equipment Class: (16) Battery Chargers and Inverters

Equipment Description: BATTERY CHARGER A1



Seismic Walkdown Checklist (SW		Status: Y N U U			
	,				
Equipment ID No.: DCPI	· · · · · · · · · · · · · · · · · · ·				
· · · · · · · · · · · · · · · · · · ·	Distribution Panels				
Equipment Description: DC D	ISTRIBUTION PANEL (BATTERY A				
Project:	Ginna SWEL 1 (Supplemental Inter	nal Inspection of Cabinet)			
Location (Bldg, Elev, Room/Area):	Control Building, 253.00 ft, Area 01				
Manufacturer/Model:	•				
Instructions for Completing Chec					
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.					
<u>Anchorage</u>	·				
<ol> <li>Is anchorage configuration of SWEL items requiring sur</li> </ol>	verification required (i.e., is the item o ch verification)?	ne of the 50% Y N N			
	N/A Supplemental inspection of cabinet internals. Internal cabinet anchorage is not credited in seismic analysis of cabinet mounting.				
2. Is the anchorage free of ber	nt, broken, missing or loose hardware	Y 🗌 N 🗎 U 🗌 N/A 🗎			
N/A Supplemental inspection of cabinet internals.					
3. Is the anchorage free of coroxidation?	rosion that is more than mild surface	, Y □ N □ U □ N/A □			
N/A Supplemental inspection	n of cabinet internals.				
4. Is the anchorage free of visit anchors?	ble cracks in the concrete near the	Y 🗌 N 🗎 U 🗎 N/A 🗎			
N/A Supplemental inspection	n of cabinet internals.				
(Note: This question only ap	ion consistent with plant documentation polices if the item is one of the 50% for uration verification is required.)	on? Y N N U N/A			
N/A Supplemental inspection	n of cabinet internals.				

Seism	ic Walkdown Checkli	st (SWC)	Status:	Y ⊠ N □ U □
	Equipment ID No.:	DCPDPCB01A		
	Equipment Class:	(14) Distribution Panels	•	
Eo	uipment Description:	DC DISTRIBUTION PANEL (BATT	ERY A MAIN DIS	SCONNECT PANEL \
6.	· · · · · · · · · · · · · · · · · ·	anchorage evaluations, is the ancho		Y N U
	potentially adverse so		•	-
14		spection of cabinet internals.		
interac	tion Effects	rom impact by pacify aguinment or	atrusturas?	/ [] NI [] LI [] NI/A []
7.	Are soil largets free i	rom impact by nearby equipment or	structures?	′ 🗌 N 🗎 U 🗌 N/A 🗍
	N/A Supplemental in	spection of cabinet internals.	,	
	•			
8.	Are overhead equipm	ent, distribution systems, ceiling tile	s and Y	′ 🗌 N 🔲 U 🔲 N/A 🗍
	• •	block walls not likely to collapse on		
	equipment?			
	N/A Supplemental in	spection of cabinet internals.		
	www.cappiomomarine	pooler or outsine internale.		
9.	Do attached lines have	e adequate flexibility to avoid dama	ige? Y	′ 🗌 N 🔲 U 🗋 N/A 🗍
	N/A Supplemental in:	spection of cabinet internals.		, ^
40	Daniel and the above			V = V = V =
10.		seismic interaction evaluations, is ed erse seismic interaction effects?	quipment	Y 🗌 N 🗌 U 🗌
	noo or potentially dat	order describe interaction enector		,
	N/A Supplemental in	spection of cabinet internals.		
Other .	Adverse Conditions			
11.		and found no adverse seismic condi	tions that could	$Y \boxtimes N \square U \square$
		afety functions of the equipment? I inspection: Cabinet contains single	o dissonnast swit	oh
	• •	al anchorage not verified as it is not		•
	analysis of cabinet m	_	,	
Comments				
		011 - 9 4 -		
Evalua	ted by:	Jeffy Dardin	Date:	12/10/2012
		100		
		tuft	•	12/10/2012

### SUPPLEMENTAL INTERNAL INSPECTIONS OF ELECTRICAL CABINETS

Status:

 $Y \boxtimes N \square U \square$ 

#### Seismic Walkdown Checklist (SWC)

Equipment ID No.: DCPDPCB01A

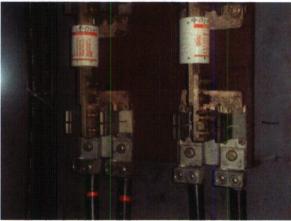
Equipment Class: (14) Distribution Panels

Equipment Description: DC DISTRIBUTION PANEL (BATTERY A MAIN DISCONNECT PANEL)

#### **Photos**







#### SUPPLEMENTAL INTERNAL INSPECTIONS OF ELECTRICAL CABINETS

Status:

YNDUD

Seismic Walkdown Checklist (SWC)

Equipment ID No.: DCPDPCB01A

Equipment Class: (14) Distribution Panels

Equipment Description: DC DISTRIBUTION PANEL (BATTERY A MAIN DISCONNECT PANEL)





St	atus: Y⊠N □ U □			
Seismic Walkdown Checklist (SWC)				
Equipment ID No.: DCPDPCB02A				
Equipment Class: (14) Distribution Panels		,		
Equipment Description: DC POWER DISTRIBUTION PANEL CB 02	A (MAIN FUSE CAB A)			
Project: Ginna SWEL 1 (Supplemental Interna	l Inspection of Cabinet)			
Location (Bldg, Elev, Room/Area): Control Building, 253.00 ft, Area 01				
Manufacturer/Model:				
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 anchorage configuration verification required (i.e., is the item one of SWEL items requiring such verification)?	e of the 50% Y N N			
N/A Supplemental inspection of cabinet internals. Anchorage is excabinet and was inspected under previous Seismic Walkdown Repo		·		
2. Is the anchorage free of bent, broken, missing or loose hardware	Y			
N/A Supplemental inspection of cabinet internals.				
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	Y 🗌 N 🔲 U 🗌 N/A 🗀			
N/A Supplemental inspection of cabinet internals.				
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Y 🗌 N 🗎 U 🗌 N/A 🗎			
N/A Supplemental inspection of cabinet internals.				
<ol> <li>Is the anchorage configuration consistent with plant documentation (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)</li> </ol>	? Y 🗆 N 🗆 U 🗆 N/A 🗆			
N/A Supplemental inspection of cabinet internals.				

	Status: Y [	<b>⋈</b> N □ U □			
Seismic Walkdown Checklist (SWC)					
Equipment ID No.: DCPDPCB02A					
Equipment Class: (14) Distribution Panels					
Equipment Description: DC POWER DISTRIBUTION PANEL CB 0					
6. Based on the above anchorage evaluations, is the anchorage fre potentially adverse seismic conditions? AVA Symptomental incompliance of achieve intermeda.	e of Y L	] N [] U []			
N/A Supplemental inspection of cabinet internals.  Interaction Effects					
7. Are soft targets free from impact by nearby equipment or structur	es? Y \( \bar{N} \)	U 🗌 N/A 🗍			
N/A Supplemental inspection of cabinet internals.					
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	Y 🗆 N 🗔	U 🗌 N/A 🗌			
N/A Supplemental inspection of cabinet internals.					
9. Do attached lines have adequate flexibility to avoid damage?	Y 🗆 N 🗀	U 🗌 N/A 🔲			
N/A Supplemental inspection of cabinet internals.					
Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	Y [	] N 🗆 U 🗆			
N/A Supplemental inspection of cabinet internals.					
Other Adverse Conditions					
11. Have you looked for and found no adverse seismic conditions that adversely affect the safety functions of the equipment? Supplemental internal inspection: Cabinet contains fusible discount unable to inspect further without disassembly or removal of power.	nnects,	<b>3</b> N □ U □			
<u>Comments</u>					
Evaluated by:  Pethy Sashi  1 7000	,	Date: 12/10/2012			
Fuffe	`	12/10/2012			

#### SUPPLEMENTAL INTERNAL INSPECTIONS OF ELECTRICAL CABINETS

Status:

 $Y \boxtimes N \square U \square$ 

#### Seismic Walkdown Checklist (SWC)

Equipment ID No.: DCPDPCB02A

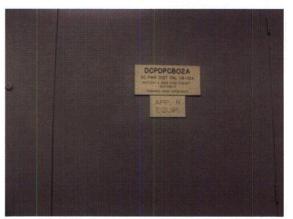
Equipment Class: (14) Distribution Panels

Equipment Description: DC POWER DISTRIBUTION PANEL CB 02 A (MAIN FUSE CAB A)

#### **Photos**









	Status: Y ⋈ N ☐ U ☐
Seismic Walkdown Checklist (SWC)	
Equipment ID No.: DCPDPCB03A	
Equipment Class: (14) Distribution Panels	·
Equipment Description: DC POWER DISTRIBUTION PANEL	CB 03 A (MAIN DC PNL 1A)
Project: Ginna SWEL 1 (Supplementa	al Internal Inspection of Cabinet)
Location (Bldg, Elev, Room/Area): Control Building, 253.00 ft, Ar	rea 01 <sup>-</sup>
Manufacturer/Model:	
Instructions for Completing Checklist	
This checklist may be used to document the results of the Seismic space below each of the following questions may be used to record is provided at the end of this checklist for documenting other comm	I the results of judgments and findings. Additional spa
<u>Anchorage</u>	
<ol> <li>Is anchorage configuration verification required (i.e., is the of SWEL items requiring such verification)?</li> </ol>	item one of the 50% Y ☐ N ☐
N/A Supplemental inspection of cabinet internals. Anchora cabinet and was inspected under previous Seismic Walkdo	• .
2. Is the anchorage free of bent, broken, missing or loose hard	dware Y 🗌 N 🗍 U 🔲 N/A 🗍
N/A Supplemental inspection of cabinet internals.	) ,
3. Is the anchorage free of corrosion that is more than mild su oxidation?	ırface Y 🗌 N 🔲 U 🗌 N/A 🗍
N/A Supplemental inspection of cabinet internals.	
4. Is the anchorage free of visible cracks in the concrete near anchors?	the Y N U N/A
N/A Supplemental inspection of cabinet internals.	
<ol> <li>Is the anchorage configuration consistent with plant documents.         (Note: This question only applies if the item is one of the 50 which an anchorage configuration verification is required.)     </li> </ol>	
N/A Supplemental inspection of cabinet internals.	
6. Based on the above anchorage evaluations, is the anchora potentially adverse seismic conditions?	ge free of Y N D'U

<b>.</b>			Status:	ΥØ	] N □ U □
Seism	ic Walkdown Checkl				
	Equipment ID No.:			-	
		(14) Distribution Panels			
E0	quipment Description:	DC POWER DISTRIBUTION PANEL spection of cabinet internals.	L CB 02 A (MAIN	FUSE CA	AB A)
		spection of capinet internals.		•••	
	ction Effects	·	t		
7.	_	from impact by nearby equipment or s	tructures? Y		J 🗌 N/A 🗌
	N/A Supplemental in	spection of cabinet internals.			
8.		nent, distribution systems, ceiling tiles y block walls not likely to collapse onto		□ N □ L	J 🗌 N/A 🗌
	N/A Supplemental in	spection of cabinet internals.	•		
	•				
9.	Do attached lines ha	ve adequate flexibility to avoid damag	e? Y	□N□L	J 🗌 N/A 🗍
	N/A Supplemental in	spection of cabinet internals.			
<b>10.</b>		seismic interaction evaluations, is equiverse seismic interaction effects?	ipment	<b>Y</b> [	IN 🗆 U 🗆
N/A Supplemental inspection of cabinet internals.					
	1844				
<u>Other</u> . 11.	adversely affect the s	and found no adverse seismic conditions after the safety functions of the equipment? The all inspection: Cabinet contains fusible ther without disassembly or removal or safety.	disconnects,	Υ⊠	IN 🗆 U 🗀
Comm	<u>ients</u>				
Evalua	ted by:	Jeffy Sandi		Date:	12/10/2012
		Fuft			12/10/2012

#### SUPPLEMENTAL INTERNAL INSPECTIONS OF ELECTRICAL CABINETS

Status:

YNDUD

Seismic Walkdown Checklist (SWC)

Equipment ID No.: DCPDPCB02A

Equipment Class: (14) Distribution Panels

Equipment Description: DC POWER DISTRIBUTION PANEL CB 02 A (MAIN FUSE CAB A)

#### **Photos**



## SUPPLEMENTAL INTERNAL INSPECTIONS OF ELECTRICAL CABINETS

Status:

 $Y \boxtimes N \square U \square$ 

Seismic Walkdown Checklist (SWC)

Equipment ID No.: DCPDPCB02A

Equipment Class: (14) Distribution Panels

Equipment Description: DC POWER DISTRIBUTION PANEL CB 02 A (MAIN FUSE CAB A)



Sciemia Walkdown Chacklist (SWC)	Status:	Y ⊠ N □ U □	
Seismic Walkdown Checklist (SWC)			
Equipment ID No.: INVTCVTA			_
Equipment Class: (16) Battery Chargers and Inverters INVERTER INVTA / CONSTANT VOL	TACE TRANSE	OPMED CV/TA	-
Equipment Description: CABINET	TAGE TRANSF	ORIVIER CV IA	·
Project: Ginna SWEL 1 (Supplemental	on of Cabinet)	_	
Location (Bldg, Elev, Róom/Area): Control Building, 253.00 ft, Are	a 01		_
Manufacturer/Model:			
Instructions for Completing Checklist			
This checklist may be used to document the results of the Seismic W space below each of the following questions may be used to record t is provided at the end of this checklist for documenting other comme	he results of jud		
Anchorage			
<ol> <li>Is anchorage configuration verification required (i.e., is the ite of SWEL items requiring such verification)?</li> </ol>	em one of the 50	9% Y□N□	
N/A Supplemental inspection of cabinet internals. Anchorage cabinet and was inspected under previous Seismic Walkdow		he	
2. Is the anchorage free of bent, broken, missing or loose hards	ware Y[	_ N _ U _ N/A _	
N/A Supplemental inspection of cabinet internals.			
Is the anchorage free of corrosion that is more than mild surf oxidation?	ace Y [	□ N □ U □ N/A □	
N/A Supplemental inspection of cabinet internals.			
4. Is the anchorage free of visible cracks in the concrete near the anchors?	ne Y[	□ N □ U □ N/A □	
N/A Supplemental inspection of cabinet internals.			
<ol> <li>Is the anchorage configuration consistent with plant documer (Note: This question only applies if the item is one of the 50% which an anchorage configuration verification is required.)</li> </ol>		_ N	
N/A Supplemental inspection of cabinet internals.			
Based on the above anchorage evaluations, is the anchorage potentially adverse seismic conditions?	e free of	Y 🗆 N 🗆 U 🗆	

0-!		atus:	YNDUD
Seism	ic Walkdown Checklist (SWC)		
	Equipment ID No.: DCPDPCB02A		
	Equipment Class: (14) Distribution Panels		and the second s
Ed	uipment Description: DC POWER DISTRIBUTION PANEL CB 02	A (MAIN FUS	SE CAB A)
	N/A Supplemental inspection of cabinet internals.		
	ction Effects		
7.	Are soft targets free from impact by nearby equipment or structures	? Y 🗆 N	N 🗌 U 🗎 N/A 🗌
	N/A Supplemental inspection of cabinet internals.		
8.	Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the	Y 🗆 1	N 🗌 U 🗎 N/A 🗌
	equipment?		
	N/A Supplemental inspection of cabinet internals.		
9.	Do attached lines have adequate flexibility to avoid damage?	Y 🗆 Y	N 🗌 U 🔲 N/A 🗌
	N/A Supplemental inspection of cabinet internals.		
10.	Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?		Y D N D U
	N/A Supplemental inspection of cabinet internals.	-	
A	Adverse Conditions		
11.	Have you looked for and found no adverse seismic conditions that of adversely affect the safety functions of the equipment?  Supplemental internal inspection: Recently replaced, well-routed cannot be adversely affect.		YNDUD
	internal modifications noted. Inspected live, maintenance performe during inspection		
Comm	ents		7 3
Evalua	ted by:	Date:	12/10/2012
	Fuffe		12/10/2012

## SUPPLEMENTAL INTERNAL INSPECTIONS OF ELECTRICAL CABINETS

Status:

YNDUD

Seismic Walkdown Checklist (SWC)

Equipment ID No.: DCPDPCB02A

Equipment Class: (14) Distribution Panels

Equipment Description: DC POWER DISTRIBUTION PANEL CB 02 A (MAIN FUSE CAB A)

#### **Photos**



## SUPPLEMENTAL INTERNAL INSPECTIONS OF ELECTRICAL CABINETS

Status:

YNDUD

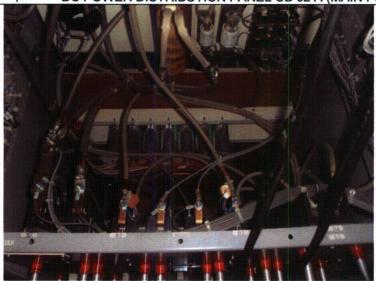
Seismic Walkdown Checklist (SWC)

Equipment ID No.: DCPDPCB02A

Equipment Class: (14) Distribution Panels

Equipment Description:

DC POWER DISTRIBUTION PANEL CB 02 A (MAIN FUSE CAB A)



## SUPPLEMENTAL INTERNAL INSPECTIONS OF ELECTRICAL CABINETS

Status:

 $Y \boxtimes N \square U \square$ 

Seismic Walkdown Checklist (SWC)

Equipment ID No.: DCPDPCB02A

Equipment Class: (14) Distribution Panels

Equipment Description: DC POWER DISTRIBUTION PANEL CB 02 A (MAIN FUSE CAB A)



	S	tatus: Y ⊠ N □ U □
Seismic Walkdown Checklist (S)	NC)	V.
Equipment ID No.: MCI	3	
Equipment Class: (20)	Instrumentation and Control Panels and	l Cabinets
Equipment Description: MAI	N CONTROL BOARD	
Project	Ginna SWEL 1 (Supplemental Interna	al Inspection of Cabinet)
Location (Bldg, Elev, Room/Area)	Control Building, 289.00 ft, Area 04	· · ·
Manufacturer/Model		•
Instructions for Completing Che	cklist	
on the SWEL. The space below en judgments and findings. Additional comments.	ument the results of the Seismic Walkdo ach of the following questions may be us I space is provided at the end of this che	sed to record the results of
	verification required (i.e., is the item on	e of the 50% Y N
of SWEL items requiring s	uch verification)?	
	ion of cabinet internals. Anchorage is ex I under previous Seismic Walkdown Rep	
2. Is the anchorage free of be	ent, broken, missing or loose hardware	Y 🗌 N 🗌 U 🗌 N/A 🗍
N/A Supplemental inspect	ion of cabinet internals.	
3. Is the anchorage free of cooxidation?	prrosion that is more than mild surface	Y 🗌 N 🗎 U 🗆 N/A 📑
N/A Supplemental inspect	ion of cabinet internals.	
4. Is the anchorage free of via anchors?	sible cracks in the concrete near the	Y 🗌 N 🗍 U 🗌 N/A 🗍
N/A Supplemental inspect	ion of cabinet internals.	2
(Note: This question only a	ation consistent with plant documentation applies if the item is one of the 50% for guration verification is required.)	n? Y 🗌 N 🗍 U 🗎 N/A 📑
N/A Supplemental inspect	ion of cabinet internals.	

		Status:	Υ	$\boxtimes$ N $\square$ U $\square$
Seism	ic Walkdown Checkli	st (SWC)		
	Equipment ID No.:	МСВ		
•	Equipment Class:	(20) Instrumentation and Control Panels and Cabin	nets	
	quipment Description:	MAIN CONTROL BOARD		
6.	Based on the above potentially adverse s	anchorage evaluations, is the anchorage free of	Y	□ N □ U □
	-	spection of cabinet internals.		
Intera	tion Effects			
7.	Are soft targets free	from impact by nearby equipment or structures?	Y 🗌 N [	] U [] N/A []
	N/A Supplemental in	spection of cabinet internals.		
8.		nent, distribution systems, ceiling tiles and lighting, valls not likely to collapse onto the equipment?	Y 🗆 N [	] U [] N/A []
	N/A Supplemental in	spection of cabinet internals.		
9.	Do attached lines ha	ve adequate flexibility to avoid damage?	Y 🗌 N 🛚	] U [] N/A []
	N/A Supplemental in	spection of cabinet internals.		
10.		seismic interaction evaluations, is equipment free seismic interaction effects?	Υ	□ N □ U □
	N/A Supplemental in	spection of cabinet internals.		
Other_	Adverse Conditions			
11.	adversely affect the s Cantilever strip chart cantilevered from fro	and found no adverse seismic conditions that could safety functions of the equipment? recorders and similar controllers and instruments at and rear faces of the board. Cantilever recorders under SQUG walkdown. No missing hardware note		<b>⊠</b> N □ U □
Comm	ents			
Evalua	ted by:	Jeffy Sardi	Date: _1	2/10/2012
		Fuft	1	2/10/2012

## SUPPLEMENTAL INTERNAL INSPECTIONS OF ELECTRICAL CABINETS

Status:

YNDUD

#### Seismic Walkdown Checklist (SWC)

Equipment ID No.: MCB

Equipment Class: (20) Instrumentation and Control Panels and Cabinets

Equipment Description:

MAIN CONTROL BOARD

#### **Photos**



## SUPPLEMENTAL INTERNAL INSPECTIONS OF ELECTRICAL CABINETS

Status:

YNDUD

Seismic Walkdown Checklist (SWC)

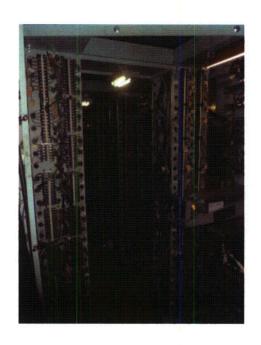
Equipment ID No.: MCB

Equipment Class: (20) Instrumentation and Control Panels and Cabinets

Equipment Description: MAIN CONTROL BOARD







## SUPPLEMENTAL INTERNAL INSPECTIONS OF ELECTRICAL CABINETS

Status:

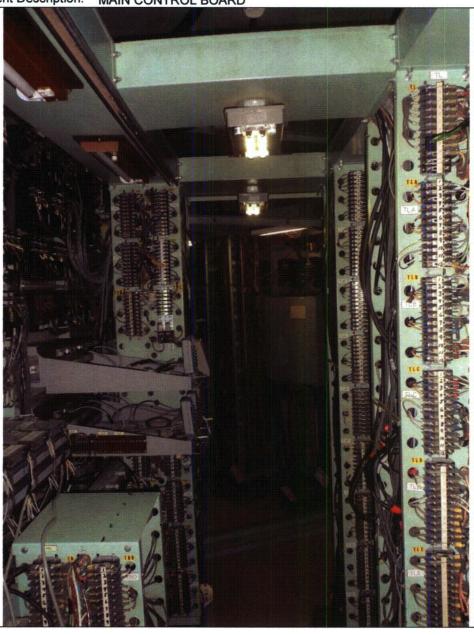
YNDUD

#### Seismic Walkdown Checklist (SWC)

Equipment ID No.: MCB

Equipment Class: (20) Instrumentation and Control Panels and Cabinets

Equipment Description: MAIN CONTROL BOARD



Ontomio Malladaran Obsahilat (O)		atus:	Y 🗌 N 🖾 U 🗌
Seismic Walkdown Checklist (S)	wc)	~	
Equipment ID No.: R1			
Equipment Class: (20)	Instrumentation and Control Panels and	Cabinets	
Equipment Description: REA	ACTOR PROTECTION INSTRUMENT RA	ACK CHANNE	L 1 RED 1
Project	Ginna SWEL 1 (Supplemental Internal	I Inspection of	Cabinet)
Location (Bldg, Elev, Room/Area)	Control Building, 289.00 ft, Area 04	<u> </u>	
Manufacturer/Model	:		
Instructions for Completing Che	cklist		
the SWEL. The space below each judgments and findings. Additional comments.	ument the results of the Seismic Walkdow of the following questions may be used t Il space is provided at the end of this cheo	to record the re	esults of
<u>Anchorage</u>			
<ol> <li>Is anchorage configuration of SWEL items requiring s</li> </ol>	verification required (i.e., is the item one uch verification)?	of the 50%	Y   N
• • • • • • • • • • • • • • • • • • • •	ion of cabinet internals. Anchorage is ext I under previous Seismic Walkdown Repo		
2. Is the anchorage free of be	ent, broken, missing or loose hardware	Y□N	□ U □ N/A □
N/A Supplemental inspect	ion of cabinet internals.		
3. Is the anchorage free of coordation?	prrosion that is more than mild surface	Υ□N	□ U □ N/A □
N/A Supplemental inspect	ion of cabinet internals.		
4. Is the anchorage free of vi anchors?	sible cracks in the concrete near the	Υ□N	U N/A
N/A Supplemental inspect	ion of cabinet internals.		
(Note: This question only a	ation consistent with plant documentation? applies if the item is one of the 50% for guration verification is required.)	? Y□N	□ U □ N/A □
N/A Supplemental inspect	ion of cabinet internals.		

		Status:		Y 🗆 N 🖾 U 🗀
Seismic Walkdown Check	ist (SWC)	•		•
Equipment ID No.:	R1			
Equipment Class:	(20) Instrumentation and Control Panels a	ınd Cabii	nets	
Equipment Description:	REACTOR PROTECTION INSTRUMENT		CHANN	EL 1 RED 1
<ol><li>Based on the above potentially adverse s</li></ol>	anchorage evaluations, is the anchorage fre	ee of		Y 🗌 N 🗌 U 🗌
· · · · · · · · · · · · · · · · · · ·	spection of cabinet internals.			
Interaction Effects		10		
7. Are soft targets free	from impact by nearby equipment or structu	res?	Υ□I	N 🗌 U 🗌 N/A 🗌
N/A Supplemental in	aspection of cabinet internals.			•
	ment, distribution systems, ceiling tiles and ry block walls not likely to collapse onto the	)	Y 🗆 1	N 🔲 U 🗍 N/A 🗍
N/A Supplemental in	spection of cabinet internals.			
V			·	
<ol><li>Do attached lines had</li></ol>	ive adequate flexibility to avoid damage?		YUI	N 🗌 U 🔲 N/A 🗀
N/A Supplemental in	spection of cabinet internals.			
	seismic interaction evaluations, is equipment e seismic interaction effects?	nt free		Y   N   U
N/A Supplemental in	espection of cabinet internals.			
Other Adverse Conditions				
adversely affect the Supplemental intern maintenance, contro	and found no adverse seismic conditions the safety functions of the equipment? all inspection: Inspected live during performablers on front of rack, terminal deck in rear. 16, TT-405A-1, TM-405-0 each missing one of the same terminal deck in rear.	ance of	nt	Y 🗆 N 🖾 U 🗆
<u>Comments</u>				
Evaluated by:	Jeffy Sardi		Date:	12/10/2012
•	Fuffe			12/10/2012

## SUPPLEMENTAL INTERNAL INSPECTIONS OF ELECTRICAL CABINETS

Status:

 $Y \square N \boxtimes U \square$ 

Seismic Walkdown Checklist (SWC)

Equipment ID No.: R1

Equipment Class: (20) Instrumentation and Control Panels and Cabinets

Equipment Description: REACTOR PROTECTION INSTRUMENT RACK CHANNEL 1 RED 1

**Photos** 



## SUPPLEMENTAL INTERNAL INSPECTIONS OF ELECTRICAL CABINETS

Status:

YUNDU

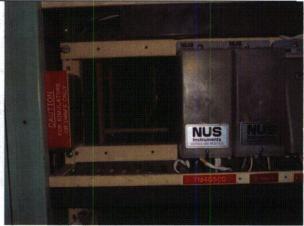
Seismic Walkdown Checklist (SWC)

Equipment ID No.: R1

Equipment Class: (20) Instrumentation and Control Panels and Cabinets

Equipment Description: REACTOR PROTECTION INSTRUMENT RACK CHANNEL 1 RED 1





## SUPPLEMENTAL INTERNAL INSPECTIONS OF ELECTRICAL CABINETS

Status:

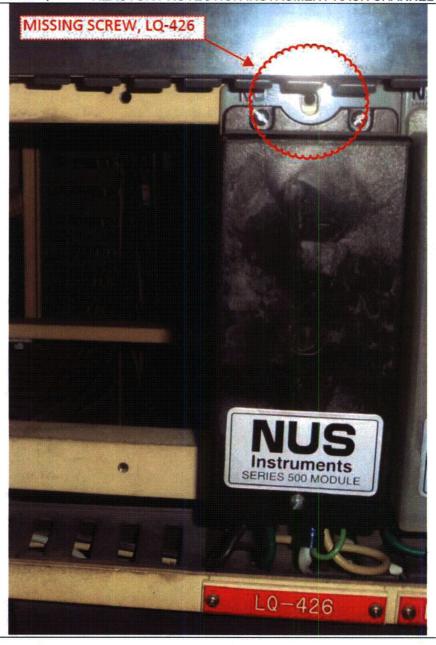
YUNDU

#### Seismic Walkdown Checklist (SWC)

Equipment ID No.: R1

Equipment Class: (20) Instrumentation and Control Panels and Cabinets

Equipment Description: REACTOR PROTECTION INSTRUMENT RACK CHANNEL 1 RED 1



## SUPPLEMENTAL INTERNAL INSPECTIONS OF ELECTRICAL CABINETS

Status:

 $Y \square N \boxtimes U \square$ 

#### Seismic Walkdown Checklist (SWC)

Equipment ID No.: R1

Equipment Class: (20) Instrumentation and Control Panels and Cabinets

Equipment Description: REACTOR PROTECTION INSTRUMENT RACK CHANNEL 1 RED 1



## SUPPLEMENTAL INTERNAL INSPECTIONS OF ELECTRICAL CABINETS

Status:

Y 🗆 N 🖾 U 🗆

Seismic Walkdown Checklist (SWC)

Equipment ID No.: R1

Equipment Class: (20) Instrumentation and Control Panels and Cabinets

Equipment Description: REACTOR PROTECTION INSTRUMENT RACK CHANNEL 1 RED 1



				Status:	$Y \boxtimes N \square U \square$
Seismic	Walkdown Checkli	st (SWC	<b>6)</b>		~
	Equipment ID No.:	RA2			•
	Equipment Class:	(20) In:	strumentation and Control Panels a	nd Cabinets	
Equ	ipment Description:	AUXIL	IARY RELAY RACK 2		
	I	Project:	Ginna SWEL 1 (Supplemental Inte	ernal Inspectio	n of Cabinet)
Location	on (Bldg, Elev, Room	n/Area):	Control Building, 271.00 ft, Area 0	3	
	Manufacturer	/Model:			
Instruct	ions for Completing	g Check	list		
on the S	WEL. The space be its and findings. Add	low eacl	ent the results of the Seismic Walkon of the following questions may be pace is provided at the end of this c	used to record	I the results of
Anchora	age ·	•		•	
	ls anchorage configu of SWEL items requi		erification required (i.e., is the item of	one of the 50%	Y 🗆 N 🗀
		•	n of cabinet internals. Anchorage is nder previous Seismic Walkdown R		
2. I	s the anchorage free	of bent	, broken, missing or loose hardware	• Y□	N 🗌 U 🗎 N/A 🗍
,	N/A Supplemental in	spection	of cabinet internals.		
	ls the anchorage free oxidation?	e of corre	osion that is more than mild surface	Y 🗆	N 🗌 U 🔲 N/A 🗌
	N/A Supplemental in	spection	of cabinet internals.		
_	ls the anchorage free anchors?	e of visib	le cracks in the concrete near the	Υ□	N 🗌 U 🗎 N/A 🗀
	N/A Supplemental in	spection	of cabinet internals.		
	(Note: This question	only app	on consistent with plant documentation of the 50% for ation verification is required.)		N 🗌 U 🗎 N/A 🗌
	N/A Supplemental in	spection	of cabinet internals.		

Seism	ic Walkdown Checkli		Status:	Y⊠N□U□
	Equipment ID No.:			
		(20) Instrumentation and Control Panels ar	nd Cabinets	Maria Ma Maria Maria Ma Maria Maria
Ec	uipment Description:	AUXILIARY RELAY RACK 2		
6.	Based on the above potentially adverse s	anchorage evaluations, is the anchorage fre	e of	Y
Interac	ction Effects			
7.	Are soft targets free	from impact by nearby equipment or structur	res? Y 🔲	N 🗌 U 🗌 N/A 🗌
	N/A Supplemental in	spection of cabinet internals.		
8.		nent, distribution systems, ceiling tiles and y block walls not likely to collapse onto the	Y	N 🗌 U 🗌 N/A 🗌
	N/A Supplemental in	spection of cabinet internals.		
9.	Do attached lines ha	ve adequate flexibility to avoid damage?	Y	N 🗌 U 🗌 N/A 🗀
	N/A Supplemental in	spection of cabinet internals.		
10.		seismic interaction evaluations, is equipmer verse seismic interaction effects?	nt	YDNDUD
	N/A Supplemental in	spection of cabinet internals.		
Other	Adverse Conditions			
11.		and found no adverse seismic conditions the safety functions of the equipment?	at could	YNDUD
	Supplemental international noted.	al inspection: Inspected live, no adverse co	nditions	
Comm	<u>ients</u>			
Evalua	ited by:	Jeffy Sardi	Date:	12/10/2012
		Fuft		12/10/2012

## SUPPLEMENTAL INTERNAL INSPECTIONS OF ELECTRICAL CABINETS

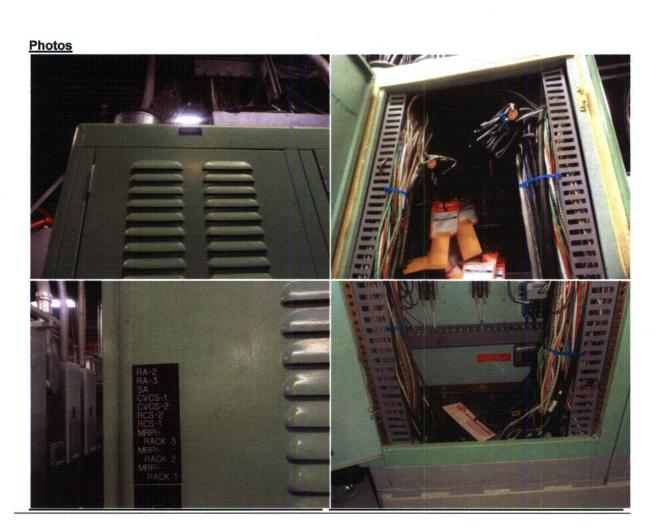
Status:

YNDUD

#### Seismic Walkdown Checklist (SWC)

Equipment ID No.: RA2

Equipment Class: (20) Instrumentation and Control Panels and Cabinets



## SUPPLEMENTAL INTERNAL INSPECTIONS OF ELECTRICAL CABINETS

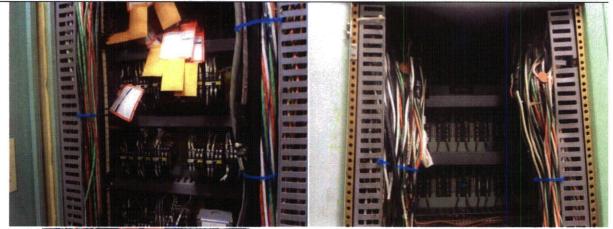
Status:

 $Y \boxtimes N \square U \square$ 

#### Seismic Walkdown Checklist (SWC)

Equipment ID No.: RA2

Equipment Class: (20) Instrumentation and Control Panels and Cabinets







## SUPPLEMENTAL INTERNAL INSPECTIONS OF ELECTRICAL CABINETS

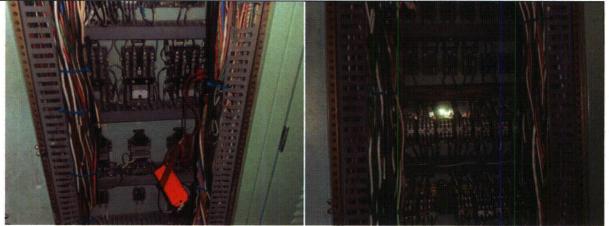
Status:

 $Y \boxtimes N \square U \square$ 

Seismic Walkdown Checklist (SWC)

Equipment ID No.: RA2

Equipment Class: (20) Instrumentation and Control Panels and Cabinets



	Statu	us: Y□N⊠U□
Seismic Walkdown Checklist (SWC	<i>·</i>	
Equipment ID No.: SA		
Equipment Class: (20) In:	strumentation and Control Panels and Ca	abinets
Equipment Description: AUXIL	IARY RELAY RACK 2	
Project: _	Ginna SWEL 1 (Supplemental Internal I	nspection of Cabinet)
Location (Bldg, Elev, Room/Area):	Control Building, 271.00 ft, Area 03	
Manufacturer/Model:		
Instructions for Completing Check		
on the SWEL. The space below each	ent the results of the Seismic Walkdown h of the following questions may be used pace is provided at the end of this checkl	to record the results of
<u>Anchorage</u>		
<ol> <li>Is anchorage configuration ventors of SWEL items requiring such</li> </ol>	erification required (i.e., is the item one of hyperification)?	f the 50% Y □ N □
• • • • • • • • • • • • • • • • • • • •	n of cabinet internals. Anchorage is exten nder previous Seismic Walkdown Report	
2. Is the anchorage free of bent	, broken, missing or loose hardware	Y 🗌 N 🗎 U 🗌 N/A 🗎
N/A Supplemental inspection	of cabinet internals.	•
3. Is the anchorage free of corre oxidation?	osion that is more than mild surface	Y 🗌 N 🗎 U 🗌 N/A 🗍
N/A Supplemental inspection	of cabinet internals.	
4. Is the anchorage free of visib anchors?	le cracks in the concrete near the	Y 🗌 N 🗎 U 🗌 N/A 🗍
N/A Supplemental inspection	of cabinet internals.	
•	on consistent with plant documentation? plies if the item is one of the 50% for ration verification is required.)	Y
N/A Supplemental inspection	of cabinet internals.	

Saism	iic Walkdown Checkl	ict (SWC)	Status:	Y 🗌 N 🖾 U 🗍
3613111		•		
	Equipment ID No.:	SA		
	Equipment Class:	(20) Instrumentation and Control Panels a	and Cabinets	
	quipment Description:	AUXILIARY RELAY RACK 2		
6.	potentially adverse s	anchorage evaluations, is the anchorage fr	ee of	Y 🗌 N 🗍 U 🗍
	· ·	espection of cabinet internals.		
<u>Intera</u>	ction Effects			
7.	Are soft targets free	from impact by nearby equipment or structu	ıres? Y 🗌	N 🗆 U 🗆 N/A 🗆
	N/A Supplemental in	spection of cabinet internals.		
8.		ment, distribution systems, ceiling tiles and y block walls not likely to collapse onto the	Υ□	N 🗌 U 🗌 N/A 🗍
	N/A Supplemental in	espection of cabinet internals.		·
9.	Do attached lines ha	ve adequate flexibility to avoid damage?	Υ□	N 🗌 U 🗌 N/A 🗍
	N/A Supplemental in	spection of cabinet internals.		
10.		seismic interaction evaluations, is equipme verse seismic interaction effects?	nt	Y 🗆 N 🗆 U 🗆
	N/A Supplemental in	spection of cabinet internals.		
	Adverse Conditions			
11.	•	and found no adverse seismic conditions the safety functions of the equipment?	nat could	Y 🗌 N 🖾 U 🗍
		al inspection: Inspected live, one of two so D. CR-2012-008208 initiated	rews missing	
Comm	nents	N		
Evalua	ated by:	Jeffy Sardi	Date:	12/10/2012
		Infle	,	12/10/2012

## SUPPLEMENTAL INTERNAL INSPECTIONS OF ELECTRICAL CABINETS

Status:

Y 🗆 N 🖾 U 🗀

#### Seismic Walkdown Checklist (SWC)

Equipment ID No.: SA

Equipment Class: (20) Instrumentation and Control Panels and Cabinets

Equipment Description: AUXILIARY RELAY RACK 2

#### **Photos**



## SUPPLEMENTAL INTERNAL INSPECTIONS OF ELECTRICAL CABINETS

Status:

 $Y \square N \boxtimes U \square$ 

#### Seismic Walkdown Checklist (SWC)

Equipment ID No.: SA

Equipment Class: (20) Instrumentation and Control Panels and Cabinets



## SUPPLEMENTAL INTERNAL INSPECTIONS OF ELECTRICAL CABINETS

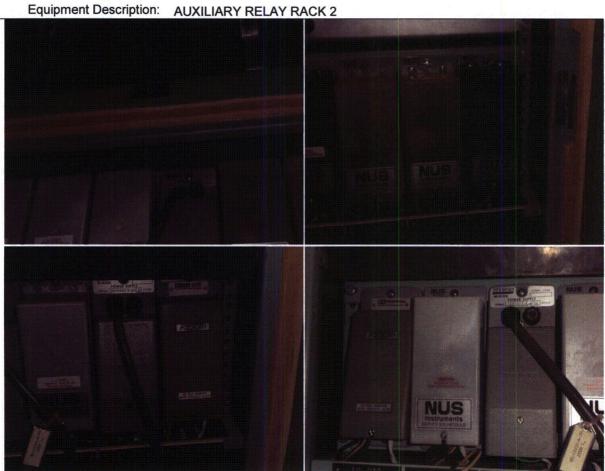
Status:

YUNDU

## Seismic Walkdown Checklist (SWC)

Equipment ID No.: SA

Equipment Class: (20) Instrumentation and Control Panels and Cabinets



## SUPPLEMENTAL INTERNAL INSPECTIONS OF ELECTRICAL CABINETS

Status:

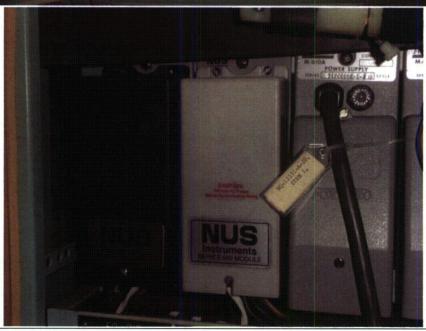
 $Y \square N \boxtimes U \square$ 

#### Seismic Walkdown Checklist (SWC)

Equipment ID No.: SA

Equipment Class: (20) Instrumentation and Control Panels and Cabinets





## SUPPLEMENTAL INTERNAL INSPECTIONS OF ELECTRICAL CABINETS

Status:

YUNDU

Seismic Walkdown Checklist (SWC)

Equipment ID No.: SA

Equipment Class: (20) Instrumentation and Control Panels and Cabinets



## SUPPLEMENTAL INTERNAL INSPECTIONS OF ELECTRICAL CABINETS

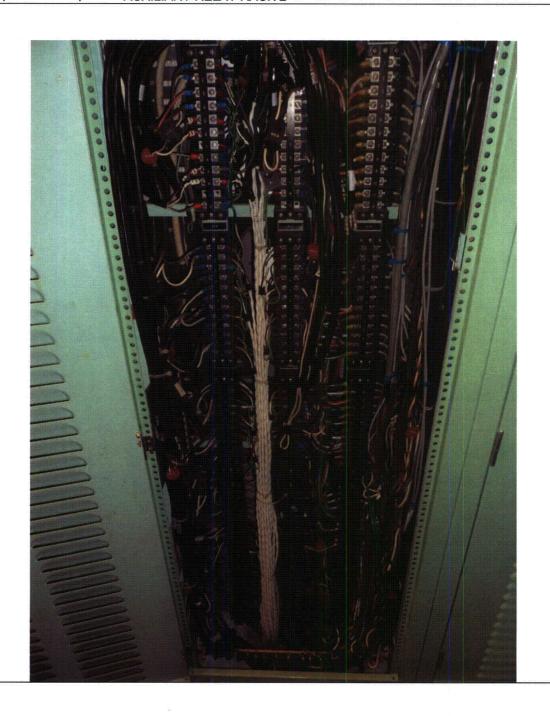
Status:

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Seismic Walkdown Checklist (SWC)

Equipment ID No.: SA

Equipment Class: (20) Instrumentation and Control Panels and Cabinets



Seismi	ic Walkdown Checkli	st (SW		atus:	YNDUD
Ocisiii		•			
	Equipment ID No.:		· · · · · · · · · · · · · · · · · · ·		
		(20) lr	nstrumentation and Control Panels and	Cabinets	
Eq	uipment Description:	Stand	by Auxiliary Feedwater Pump C Instrum	ent Panel	· · · · · · · · · · · · · · · · · · ·
	. Р	roject:	Ginna SWEL 1 (Supplemental Internal	I Inspection o	of Cabinet)
Locati	on (Bldg, Elev, Room/	Area):	Auxiliary Feedwater, 271.00 ft, Area 1	4	
~,	Manufacturer/N	Model:			
Instruc	ctions for Completing	Chec	klist		
on the	SWEL. The space be ents and findings. Add	low ead	nent the results of the Seismic Walkdow ch of the following questions may be use space is provided at the end of this chec	ed to record t	he results of
Ancho	rage				
1.	Is anchorage configu of SWEL items requir		verification required (i.e., is the item one ch verification)?	of the 50%	Υ□N□
	* *	•	n of cabinet internals. Anchorage is ext under previous Seismic Walkdown Repo		·
2.	Is the anchorage free	of ber	nt, broken, missing or loose hardware	Υ□N	□ U □ N/A □
	N/A Supplemental in:	spectio	n of cabinet internals.		
3.	Is the anchorage free oxidation?	e of cor	rosion that is more than mild surface	Υ□N	□ U □ N/A □
	N/A Supplemental in:	spectio	n of cabinet internals.		
4.	Is the anchorage free anchors?	of visi	ble cracks in the concrete near the	Υ□N	□ U □ N/A □
	N/A Supplemental in	spectio	n of cabinet intemals.		
5.	(Note: This question	only ap	on consistent with plant documentation? plies if the item is one of the 50% for ration verification is required.)	? Y□N	□ U □ N/A □

Solem	nic Walkdown Checklist (SWC)	Status:	Y⊠N□U□
Jeisiii			
	Equipment ID No.: SAFWPCIP		
	Equipment Class: (20) Instrumentation and Control Panels a	and Cabinets	
Ed	quipment Description: Standby Auxiliary Feedwater Pump C Ins	trument Pane	1
	N/A Supplemental inspection of cabinet internals.		
6.	Based on the above anchorage evaluations, is the anchorage from potentially adverse seismic conditions?  N/A Supplemental inspection of cabinet internals.	ree of	YUNDUD
Intera	ction Effects	,	
7.	Are soft targets free from impact by nearby equipment or structu	ures? Y 🗌	] N 🗌 U 🗎 N/A 🗎
,	N/A Supplemental inspection of cabinet internals.		
8.	Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	Y	] N 🗌 U 🔲 N/A 🗍
	N/A Supplemental inspection of cabinet internals.		
9.	Do attached lines have adequate flexibility to avoid damage?	Υ□	] N
	N/A Supplemental inspection of cabinet internals.		
10.	Based on the above seismic interaction evaluations, is equipme free of potentially adverse seismic interaction effects?	ent	YDNDUD
	N/A Supplemental inspection of cabinet internals.		
Other	Adverse Conditions		
11.	Have you looked for and found no adverse seismic conditions the adversely affect the safety functions of the equipment?	nat could	Y⊠N□U□
	Relatively empty cabinet, no components mounted to door, no to cabinet noted. All components mounted to unistrut structural cabinet.		
Comm	<u>ients</u>		
Evalua	ated by: Refly Sardi	Date:	12/10/2012

#### SUPPLEMENTAL INTERNAL INSPECTIONS OF ELECTRICAL CABINETS

Status:

YNDUD

Seismic Walkdown Checklist (SWC)

Equipment ID No.: SAFWPCIP

Equipment Class: (20) Instrumentation and Control Panels and Cabinets

**Equipment Description:** 

Standby Auxiliary Feedwater Pump C Instrument Panel

12/10/2012

#### **Photos**





## SUPPLEMENTAL INTERNAL INSPECTIONS OF ELECTRICAL CABINETS

Status:

YNDUD

#### Seismic Walkdown Checklist (SWC)

Equipment ID No.: SAFWPCIP

Equipment Class: (20) Instrumentation and Control Panels and Cabinets

Equipment Description: Standby Auxiliary Feedwater Pump C Instrument Panel









## SUPPLEMENTAL INTERNAL INSPECTIONS OF ELECTRICAL CABINETS

Status:

YNDUD

Seismic Walkdown Checklist (SWC)

Equipment ID No.: SAFWPCIP

Equipment Class: (20) Instrumentation and Control Panels and Cabinets

Equipment Description: Standby Auxiliary Feedwater Pump C Instrument Panel





0.1			status:	$Y \boxtimes N \square U \square$				
Seism	ic Walkdown Checklist (SW	(C)						
	Equipment ID No.: SIA1	· · · · · · · · · · · · · · · · · · ·						
	Equipment Class: (20) I	nstrumentation and Control Panels and	Cabinets					
Eq	Equipment Description: SAFEGUARDS INITIATION RACK A1							
	Project:	Ginna SWEL 1						
Locati	ion (Bldg, Elev, Room/Area):	Control Building, 271.00 ft, Area 03		· · · · · · · · · · · · · · · · · · ·				
*	Manufacturer/Model:							
•	ctions for Completing Chec		•					
on the	SWEL. The space below earents and findings. Additional	ment the results of the Seismic Walkdo ch of the following questions may be us space is provided at the end of this che	sed to record	the results of				
Ancho								
1.	Is anchorage configuration of SWEL items requiring sur	verification required (i.e., is the item on characteristics)?	e of the 50%	Y [] N []				
		n of cabinet internals. Anchorage is ex under previous Seismic Walkdown Rep ,						
2.	Is the anchorage free of ber	nt, broken, missing or loose hardware	Y 🗌 I	N 🗌 U 🗎 Ņ/A 🗀				
	N/A Supplemental inspection	n of cabinet internals.						
3.	Is the anchorage free of coroxidation?	rosion that is more than mild surface	Υ□I	N 🗌 U 🗍 N/A 🗍				
	N/A Supplemental inspection	n of cabinet internals.		, ,				
. <b>4</b> .,	Is the anchorage free of vision anchors?	ble cracks in the concrete near the	ı □ Y	N 🗌 U 🔲 N/A 🗌				
	N/A Supplemental inspection	n of cabinet internals.						
5.	(Note: This question only ap	ion consistent with plant documentation oplies if the item is one of the 50% for uration verification is required.)	n? Y∐I	N 🗌 U 🔲 N/A 🗌				
	N/A Supplemental inspection	n of cabinet internals.						

Seism	sic Walkdown Checklist (SWC)	tatus:	Y⊠N□U□
-	Equipment ID No.: SIA1		
Equipment Class: (20) Instrumentation and Control Panels and Cabinets			
6.	quipment Description: SAFEGUARDS INITIATION RACK A1  Based on the above anchorage evaluations, is the anchorage free	of	YUNUU
-	potentially adverse seismic conditions?		
N/A Supplemental inspection of cabinet internals.			
Interaction Effects			
7.	Are soft targets free from impact by nearby equipment or structure	s? Y [	] N 🗌 U 🗌 N/A 🗌
	N/A Supplemental inspection of cabinet internals.		
		_	
8.	Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the	ΥL	] N
	equipment?		
	oquips.ii.		
	N/A Supplemental inspection of cabinet internals.		
		–	
9.	Do attached lines have adequate flexibility to avoid damage?	ΥĻ	] N 🗌 U 🗎 N/A 🗀
	N/A Supplemental inspection of cabinet internals.		
10.	Based on the above seismic interaction evaluations, is equipment		Y 🗌 N 🗌 U 🔲
	free of potentially adverse seismic interaction effects?		
	N/A Supplemental inspection of cabinet internals.		
	C Cappionerial inspection of capinot internals.		
Other Adverse Conditions			
11.	Have you looked for and found no adverse seismic conditions that		$Y \boxtimes N \square U \square$
	could adversely affect the safety functions of the equipment?		
	Supplemental internal inspection: Inspected live, front door is light loaded with original equipment	tly	
<u>Comments</u>			
	111 - 0 -		
Evaluated by:		Date:	12/10/2012
•	1	<del></del>	
	tuft		12/10/2012

### SUPPLEMENTAL INTERNAL INSPECTIONS OF ELECTRICAL CABINETS

Status:

 $Y \boxtimes N \square U \square$ 

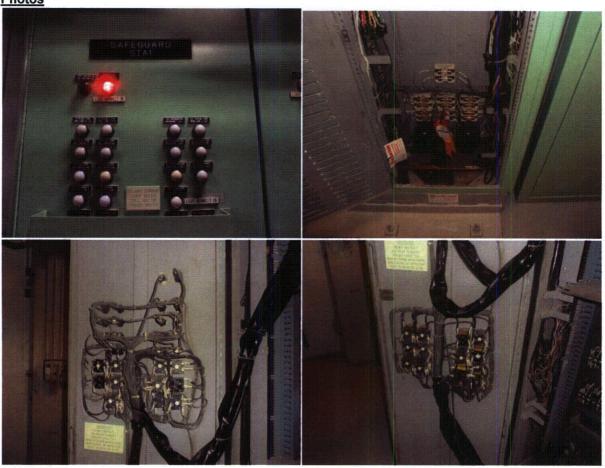
#### Seismic Walkdown Checklist (SWC)

Equipment ID No.: SIA1

Equipment Class: (20) Instrumentation and Control Panels and Cabinets

Equipment Description: SAFEGUARDS INITIATION RACK A1

#### **Photos**



### SUPPLEMENTAL INTERNAL INSPECTIONS OF ELECTRICAL CABINETS

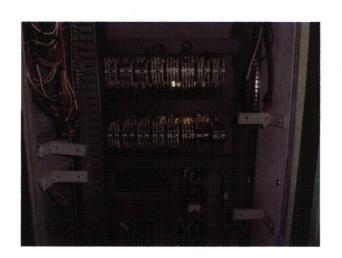
Status:

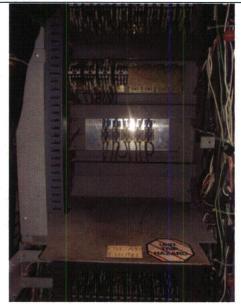
YNDUD

### Seismic Walkdown Checklist (SWC)

Equipment ID No.: SIA1

Equipment Class: (20) Instrumentation and Control Panels and Cabinets









# SUPPLEMENTAL INTERNAL INSPECTIONS OF ELECTRICAL CABINETS

Saiam	io Malkdown Chacklist (S)A		Status:	$Y \square N \boxtimes U \square$
Seisili	ic Walkdown Checklist (SW	<b>(</b> )		<i>(</i>
	Equipment ID No.: Y1			
	<del></del>	nstrumentation and Control Panels and	d Cabinets	
Ec	quipment Description: REAC	TOR PROTECTION INSTRUMENT F	RACK CHANN	IEL 4 YELLOW 1
	Project:	Ginna SWEL 1 (Supplemental Intern	al Inspection	of Cabinet)
Locati	ion (Bldg, Elev, Room/Area):	Control Building, 289.00 ft, Area 04		
	Manufacturer/Model:			
	ctions for Completing Chec			
on the judgme	SWEL. The space below eacents and findings. Additional ents.	nent the results of the Seismic Walkdoch of the following questions may be uspace is provided at the end of this ch	sed to record	the results of
Ancho	<del></del>			
1.	Is anchorage configuration of SWEL items requiring such	verification required (i.e., is the item on ch verification)?	e of the 50%	Y   N
	• •	n of cabinet internals. Anchorage is e under previous Seismic Walkdown Rep		
2.	Is the anchorage free of ber	nt, broken, missing or loose hardware	Y 🗆 1	N 🗌 U 🔲 N/A 🗀
	N/A Supplemental inspection	n of cabinet internals.		
3.	Is the anchorage free of coroxidation?	rosion that is more than mild surface	Y 🗆 1	N 🗌 U 🔲 N/A 🗀
	N/A Supplemental inspection	n of cabinet internals.		
4.	Is the anchorage free of visi anchors?	ble cracks in the concrete near the	Y □ Y	N 🗌 U 🗌 N/A 🗍
	N/A Supplemental inspectio	n of cabinet internals.	-	
5.	(Note: This question only ap	on consistent with plant documentation plies if the item is one of the 50% for tration verification is required.)	n? Y□N	N 🗌 U 🗌 N/A 🗍
	N/A Supplemental inspectio	n of cabinet internals.		

# SUPPLEMENTAL INTERNAL INSPECTIONS OF ELECTRICAL CABINETS

Solem	nic Walkdown Checklist (SWC)	Status:	Y ⊠ N □ U □
Seisiii			
,	Equipment ID No.: SIA1		
	Equipment Class: (20) Instrumentation and Control Panels ar	nd Cabi	nets
	quipment Description: SAFEGUARDS INITIATION RACK A1		
6.	Based on the above anchorage evaluations, is the anchorage fre	e of	Y 🗌 N 🗌 U 🗍
	potentially adverse seismic conditions?  N/A Supplemental inspection of cabinet internals.		
Intera	ction Effects		
7.	Are soft targets free from impact by nearby equipment or structur	es?	Y 🗌 N 🔲 U 🗎 N/A 🗌
	N/A Supplemental inspection of cabinet internals.		
			•
8.	Are overhead equipment, distribution systems, ceiling tiles and		Y 🗌 N 🗎 U 🗍 N/A 🗍
	lighting, and masonry block walls not likely to collapse onto the equipment?		
٠	- Squipmont:		
	N/A Supplemental inspection of cabinet internals.		
9.	Do attached lines have adequate flexibility to avoid damage?		Y 🗌 N 🗌 U 🗍 N/A 🗌
	N/A Supplemental inspection of cabinet internals.		
10.	Based on the above seismic interaction evaluations, is equipmen	t	Y □ N □ U □
	free of potentially adverse seismic interaction effects?		
	N/A Supplemental inspection of cabinet internals.	ſ	
Other	Adverse Conditions		
11.	Have you looked for and found no adverse seismic conditions that	t could	Y □ N ⊠ U □
	adversely affect the safety functions of the equipment?		
	Supplemental internal inspection: Inspected live during performs		
	maintenance, controllers on front of rack, terminal deck in rear. It screw on terminal deck, CR-2012-008137 written	viissing	
Comm			
Comm	·		
	allow Santo		
Evalua	ated by:	_ Date:	12/10/2012
	1 9		
	Tufet		12/10/2012

### SUPPLEMENTAL INTERNAL INSPECTIONS OF ELECTRICAL CABINETS

Status:

YNDUD

#### Seismic Walkdown Checklist (SWC)

Equipment ID No.: SIA1

Equipment Class: (20) Instrumentation and Control Panels and Cabinets



# SUPPLEMENTAL INTERNAL INSPECTIONS OF ELECTRICAL CABINETS

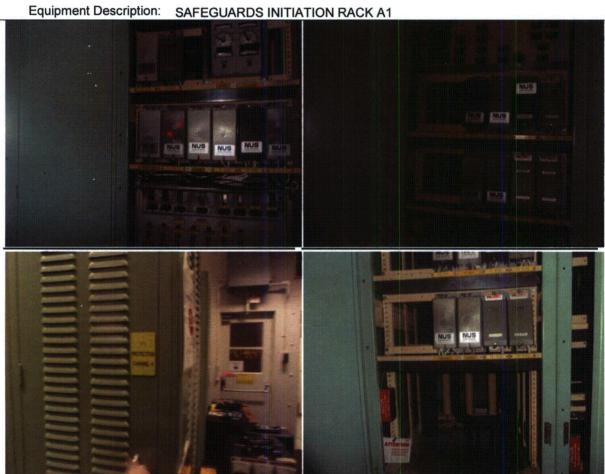
Status:

 $Y \boxtimes N \square U \square$ 

#### Seismic Walkdown Checklist (SWC)

Equipment ID No.: SIA1

Equipment Class: (20) Instrumentation and Control Panels and Cabinets



# SUPPLEMENTAL INTERNAL INSPECTIONS OF ELECTRICAL CABINETS

Status:

 $Y \boxtimes N \square U \square$ 

Seismic Walkdown Checklist (SWC)

Equipment ID No.: SIA1

Equipment Class: (20) Instrumentation and Control Panels and Cabinets



# SUPPLEMENTAL INTERNAL INSPECTIONS OF ELECTRICAL CABINETS

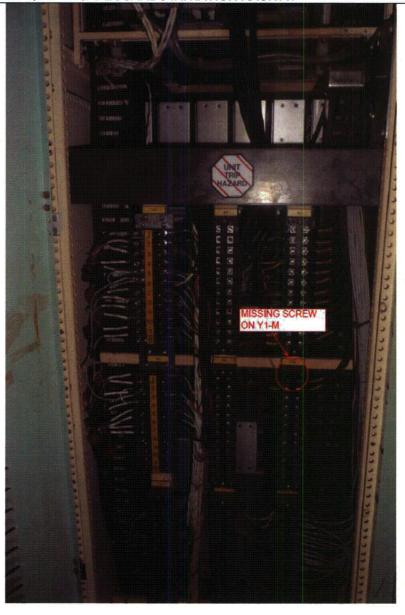
Status:

 $Y \boxtimes N \square U \square$ 

Seismic Walkdown Checklist (SWC)

Equipment ID No.: SIA1

Equipment Class: (20) Instrumentation and Control Panels and Cabinets



U. S. Nuclear Regulatory Commission Washington, DC 20555

ATTENTION:

**Document Control Desk** 

**SUBJECT:** 

Calvert Cliffs Nuclear Power Plant

Unit Nos. 1 & 2; Docket Nos. 50-317 & 50-318

First Annual Amendment to Application for License Renewal

**REFERENCE:** 

(a) Letter from Mr. C. H. Cruse (BGE) to NRC Document Control Desk, dated April 8, 1998, "Application for License Renewal"

Reference (a) forwarded Baltimore Gas and Electric Company's (BGE's) application for the renewal of the operating license for Calvert Cliffs Nuclear Power Plant Units 1 and 2. Included herein, Attachment (1) provides the first annual amendment to the BGE License Renewal Application (LRA), as required by 10 CFR Part 54.

Attachment (1) covers BGE LRA Attachment (1) Appendix A Chapters 2.1 through 6.4 and Appendix B, Updated Final Safety Analysis Report Supplement, as required by 10 CFR 54.21, "Contents of application - technical information," subpart (b). Attachment (1) also contains changes to the BGE LRA stemming from recent interactions with Nuclear Regulatory Commission staff and is arranged by Chapter, with the Chapter numbers corresponding to the BGE LRA. Attachment (1) items are categorized as either: (1) Request for additional information clarification; (2) plant modifications; (3) Integrated Plant Assessment changes; or (4) errata. In some cases, there were no changes required for a Chapter of the BGE LRA.

#### FIRST ANNUAL AMENDMENT TO APPLICATION FOR LICENSE RENEWAL

- Page 5.6-16, remove the second and third sentences in the second paragraph (Discovery) under Group 2 Methods to Manage Aging;
- Page 5.6-17, delete the paragraph at the bottom of the page that continues at the top of the next page;
- Page 5.6-18, delete this page entirely;
- Page 5.6-19, delete the first paragraph;
- Page 5.6-20, delete the third bullet item;
- Page 5.6-21, delete the fifth row item for CCNPP M-571G-1(2) in Table 5.6-3.

#### Chapter 5.7 - Diesel Fuel Oil System

No changes to this Chapter of the BGE LRA are required for the annual amendment.

#### **Chapter 5.8 - Emergency Diesel Generator System**

No changes to this Chapter of the BGE LRA are required for the annual amendment.

#### **Chapter 5.9 - Feedwater System**

No changes to this Chapter of the BGE LRA are required for the annual amendment.

#### **Chapter 5.10 - Fire Protection System**

#### Errata

• Page 5.10-1, replace the second sentence under 5.10.1 - Scoping, to state the following:

"All components required for FP in 26 of these systems are included within their respective SR system or structural AMR or in a commodity evaluation, hence they are fully addressed in other Chapters of the BGE LRA."

#### **Chapter 5.11A - Auxiliary Building Heating and Ventilation System**

#### <u>Errata</u>

The following changes reflect the addition of heating and ventilation (H&V) equipment that was inadvertently removed from the scope of the Auxiliary Building H&V System AMR.

- Page 5.11A-10, in Table 5.11-2, add a "√(2)" under the column for device type DAMP for "Elastomer Degradation" and "Wear."
- Page 5.11A-17, add the words "and preventative maintenance procedures" after the words "Routine system walkdowns" in the first sentence of the first paragraph under the title, Discovery."
- Page 5.11A-18, add the following to the top of the page:

#### Preventive Maintenance Program

The Calvert Cliffs Nuclear Power Plant (CCNPP) Preventive Maintenance (PM) Program has been established to maintain plant equipment, structures, systems, and components in a reliable condition for normal operation and emergency use, minimization of equipment failure, and extension of equipment and plant life. The program covers all PM activities for nuclear power

plant structures and equipment within the plant, including the Auxiliary Building H&V System components within the scope of license renewal. [Reference 17] Guidelines drawn from industry experience and utility best practices were used in the development and enhancement of this program.

Calvert Cliffs MPM01159, Inspect/Lubricate Spent Fuel Pool Exhaust Fan Filter Bypass Damper, is currently performed every 6 months with Repetitive Task 00322003, which directs the user to inspect the damper gasket material for signs of deterioration. [References 18, 19] This inspection would discover elastomer degradation and/or wear of the damper seal gasket material if it were Corrective actions are taken in accordance with the CCNPP Corrective Actions Program.

The plant maintenance program has numerous levels of management review, all the way down to the specific implementation procedures. For example, there are specific responsibilities assigned to BGE personnel for evaluating and upgrading the PM Program. [Reference 17] The PM Program has also undergone evaluation by the NRC as part of their routine licensee assessment activities. These assessments and controls provide reasonable assurance that the PM Program will continue to be an effective method of managing the effects of elastomer degradation and wear for the damper gasket seals.

- Page 5.11A-18, add the following bullet under the Group 2 Demonstration of Aging Management:
  - Existing routine PM activities to periodically inspect the Spent Fuel Pool Exhaust Fan Filter Bypass Dampers will provide reasonable assurance that the effects of elastomer degradation and wear on the damper gasket seals would be detected.
- Page 5.11A-21, add the following to Table 5.11A-3:

**Table 5.11A-3** AGING MANAGEMENT PROGRAMS FOR THE PRIMARY CONTAINMENT H&V SYSTEM

	Program	Credited For
Existing	CCNPP Preventive Maintenance Program	
	• Preventive Maintenance Checklist MPM01159 with Repetitive Tasks 00322003	Discovery and management of the effects of elastomer degradation and wear of damper seals (Group 2)

- Page 5.11A-22, add the following to the reference section:
  - CCNPP Administrative Procedure MN-1-102, "Preventive Maintenance Program," 17. Revision 5, September 27, 1996
  - CCNPP Preventive Maintenance Checklist MPM01159, "Inspect/Lubricate Spent Fuel Pool 18. Exhaust Fan Filter Bypass Damper," Revision 0, January 08, 1992
  - CCNPP Repetitive Task 00322003, "Inspect/Lubricate 11/12 Spent Fuel Pool Exhaust Fan 19. Charcoal Filter Bypass Dampers"

# APPENDIX A - TECHNICAL INFORMATION 5.11A - AUXILIARY BUILDING HEATING AND VENTILATION SYSTEM

# TABLE 5.11A-2 POTENTIAL AND PLAUSIBLE ARDMs FOR THE AUXILIARY BUILDING H&V SYSTEM

	Auxiliary Building H&V System Device Types								
Potential ARDMs	DAMP	DUCT	FAN	FL	GD	HD	HV	HX	PDI
Cavitation Erosion									
Corrosion Fatigue					T				
Crevice Corrosion		√(1)						√(1)	
Dynamic Loading		•	√(3)						•
Erosion Corrosion									
Fatigue									
Fouling				·					
Galvanic Corrosion									
General Corrosion		√(1)						$\sqrt{(1)}$	
Hydrogen Damage		1						1	
Intergranular Attack									
Microbiologically-					T			í	
Induced Corrosion									
Particulate Wear									
Erosion									
Pitting		$\sqrt{(1)}$						√(1)	
Radiation Damage									
Elastomer degradation		$\sqrt{(2)}$			√(2)	√(2)		(	
Selective Leaching									
Stress Corrosion									
Cracking									
Stress Relaxation									
Thermal Embrittlement									
Wear		√(2)			√(2)	√(2)			

- $\sqrt{\ }$  indicates that the ARDM is plausible for component(s) within the device type
- (#) Indicates the Group in which this device type/ARDM combination is evaluated

Note: Not every component within the device types listed here may be susceptible to a given ARDM. This is because components within a device type are not always fabricated from the same materials or subjected to the same environments. Exceptions for each device type will be indicated in the aging management section for each ARDM discussed in this report.

The following is a discussion of the aging management demonstration process for each group identified above. It is presented by group and includes a discussion on materials and environment, aging mechanism effects, methods to manage aging, aging management program(s), and aging management demonstration.

# Group 1 (crevice corrosion, general corrosion, and pitting for duct and heat exchangers) - Materials and Environment

Group 1 is comprised of components that are potentially exposed to moist air and condensation. These include the ducting where the steel materials are exposed to the potentially moist air. The duct, fittings,

# APPENDIX A - TECHNICAL INFORMATION 5.11A - AUXILIARY BUILDING HEATING AND VENTILATION SYSTEM

Elastomer degradation and wear are plausible for the flexible collars since the elastomers will degrade at the joints in the HVAC equipment due to relative motion between vibrating equipment, pressure variations and turbulence, and exposure to temperature changes and oxygen. These stressors will result in eventual tearing of the boot. Elastomer degradation and wear are plausible for damper seals because the neoprene will degrade due to relative motion between the blade and sleeve during damper operation and exposure to temperature changes and oxygen. These stressors will result in eventual breakdown of the seal. [Reference 2, Attachment 6s] If left unmanaged, elastomer degradation and wear could eventually result in the loss of pressure boundary integrity of the duct flexible collars and damper seals under CLB design loading conditions.

# Group 2 (elastomer degradation and wear for non-metallic duct and damper parts) - Methods to Manage Aging

<u>Mitigation</u>: Elastomer degradation can be mitigated by utilizing materials that are less susceptible to heat and oxygen. Wear can be mitigated by minimizing operation of the dampers to slow degradation of the seating surfaces, which leads to a loss of leak tightness. [Reference 2, Attachment 7s]

<u>Discovery</u>: Periodic visual inspections can be performed for the Group 2 equipment to detect the effects of elastomer degradation and wear. Degradation of the flexible collars can be detected through periodic system walkdowns because the collars are readily accessible. Degradation of damper seals can be detected through continued inspections and walkdowns. If significant degradation is discovered, the flexible collars or damper seals can be repaired or replaced as appropriate. [Reference 2, Attachment 8]

# Group 2 (elastomer degradation and wear for non-metallic duct and damper parts) - Aging Management Program(s)

Mitigation: The system was designed to minimize vibration by using equipment support isolators and equipment-to-duct isolators, such as the flexible collars. Changes to materials or to system operating practices are not deemed necessary to mitigate the effects of these ARDMs. Implementing the discovery methods discussed below are adequate methods to manage these ARDMs. Since there are no additional methods beyond these design features for mitigating elastomer degradation and wear, there are no programs credited with mitigating the aging effects due to these ARDMs. [Reference 2, Attachment 6s and 8]

#### Discovery:

Routine system walkdowns would discover elastomer degradation and wear of the duct flexible collars and possibly of the damper seals. To assure that degradation of the damper seals is not threatening the capability of the dampers to provide the pressure boundary function they will be included in a new ARDI Program.

#### System Walkdowns

Procedure MN-1-319 provides for discovery of the effects of elastomer degradation and wear by providing for system walkdowns that include visual inspections, reporting the walkdown results, and initiating corrective action. Under this program, inspection items typically related to aging management include identifying poor housekeeping conditions (such as degraded paint), and identifying system and equipment stress or abuse (such as excessive vibrations, bent or broken component supports, etc.). Signs of cracking

# REGULATORY COMMITMENTS CONTAINED IN THIS CORRESPONDENCE

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The following table identifies actions committed to in this document by R.E. Ginna Nuclear Power Plant. Any other statements in this submittal are provided for information purposes and are not considered to be regulatory commitments.

REGULATORY COMMITMENT	DUE DATE
Submit seismic walkdown results to the NRC for supplemental internal inspections of DGAEC and FOXDGA1 as part of the response to the Fukushima Recommendation 2.3 Request for Information.	July 31, 2013
Submit seismic walkdown results to the NRC for supplemental internal inspections of MCCC and Bus14 as part of the response to the Fukushima recommendation 2.3 Request for Information.	January 31, 2016