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Seismic Walkdown Checklis	t (SWC)	Status: Y N U
Equipment ID No.:		
	(20) Instrumentation and Control Panels and Cabinets	
Equipment Description:		
	ject: CCNPP 1 SWEL	
	ea): AUX, 45.00 ft, CAL-AB-405	
Manufacturer/Mc		
SWEL. The space below each findings. Additional space is p	document the results of the Seismic Walkdown of an item of on of the following questions may be used to record the results provided at the end of this checklist for documenting other con	of judgments and
Anchorage 1. Is anchorage configura	ation verification required (i.e., is the item one of the 50%	Yes
of SWEL items requiri		163
2. Is the anchorage free	of bent, broken, missing or loose hardware?	Yes
3. Is the anchorage free	of corrosion that is more than mild surface oxidation?	Yes
4. Is the anchorage free	of visible cracks in the concrete near the anchors?	Yes
This question only app configuration verification Anchorage used deta	iguration consistent with plant documentation? (Note: plies if the item is one of the 50% for which an anchorage on is required.) ails that are not shown on the drawing, but are judged to s-built on drawing G1992 SH0004 Rev. 9. CR-2012-	No
potentially adverse se The anchorage detai	nchorage evaluations, is the anchorage free of ismic conditions? I deviations do not adversely affect the cabinet's there is no potential seismic	Yes
concern. This is simp	le a documentation issue.	

ATTACHMENT 3

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WALKDOWN CHECKLISTS

	Equipment ID No :		
	Equipment ID No.:		
		(20) Instrumentation and Control Panels and Cabinets	
	Equipment Description: ction Effects	ENGINEERING SAFEGUARDS CONTROL	
		m impact by nearby equipment or structures?	Ν
	a concern. The Met. ca weigh less than 200#. Based on NUREG CR Using 1 Hz, 5% Dampi From AE045D5N – Sa Dmax (tip over) = 0.15'	ng and max. friction coefficient of 0.8. =0.19g and AE045DEE – Sa=0.21g (use this) ', Theta max = 0.04 Deg. pha = tan^-1 (12/39) = 17 Deg >> Theta max, therefore	
8.	Recommend moving it. Are overhead equipme masonry block walls no	all on back of panel or may strike strip recorder. CR-2012-008387 nt, distribution systems, ceiling tiles and lighting, and ot likely to collapse onto the equipment? diffusers, need details to determine seismic adequacy.	Ye
	-	identified as Y on drawing A-259, is located behind the fety-related and thus seismically rated per IE Bulletin	
9.		adequate flexibility to avoid damage?	Ye
10.		ismic interaction evaluations, is equipment free of smic interaction effects?	Ye
	A.L		
Other	Adverse Conditions Have you looked for an	d found no adverse seismic conditions that could	Ye

<u>Comments</u>

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Seismic Walkdo	wn Checklist	(SWC)		Status: Y	NU
Equip	ment ID No.:	1PNL1C10			
Equi	pment Class:	(20) Instrumentation and Control Panels and	d Cabinets		
Equipment Description:		ENGINEERING SAFEGUARDS CONTROL	:		
Evaluated by:	A. Ka	A. Karavoussianis	Date:	11/09/2012	
	tort	that			
	· · ·	C. Figliolini	<u></u>	11/09/2012	

Photos



1PNL1C10 8-14-12 106



1PNL1C10 8-14-12 108



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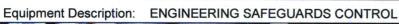
1PNL1C10 8-14-12 107



Seismic Walkdown Checklist (SWC)

Equipment ID No.: 1PNL1C10

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





1PNL1C10 8-14-12 110



Status: Y N U

1PNL1C10 8-14-12 111



1PNL1C10 8-14-12 112



Seismic Walkdown Checklist (SWC)

Equipment ID No.:	1PNL1C10
Equipment Class:	(20) Instrumentation and Control Panels and Cabinets
Equipment Description:	ENGINEERING SAFEGUARDS CONTROL

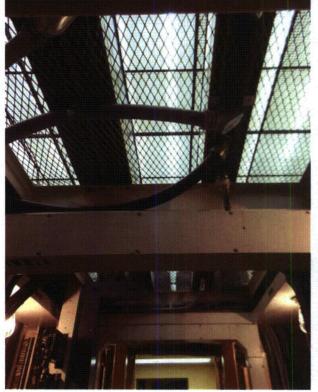


1PNL1C10 8-14-12 116

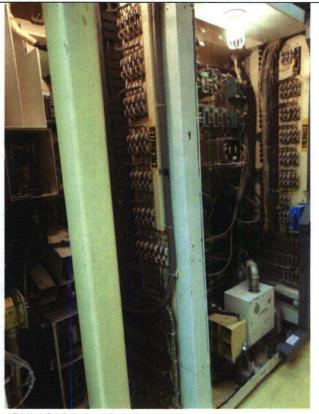
1PNL1C10 8-14-12 117

Seismic Walkdown Checklist (SWC)

Equipment ID No.:	1PNL1C10
Equipment Class:	(20) Instrumentation and Control Panels and Cabinets
Equipment Description:	ENGINEERING SAFEGUARDS CONTROL



1PNL1C10 8-14-12 118



1PNL1C10 8-14-12 119

Seismic Walkdown Checklist (SWC)

 Equipment ID No.:
 1PNL1C1

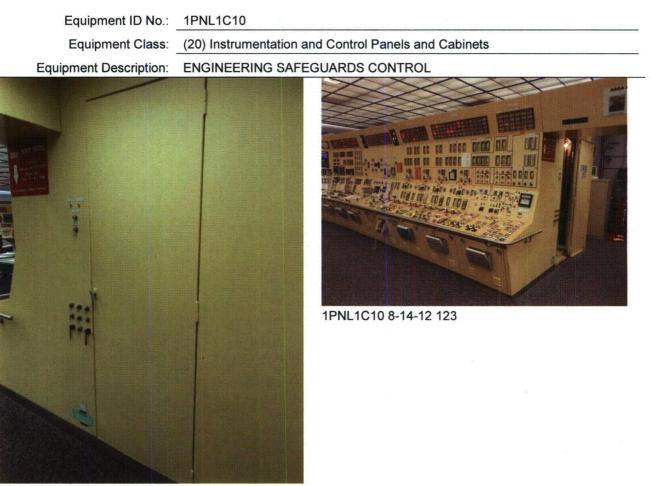
 Equipment Class:
 (20) Instrumentation and Control Panels and Cabinets

 Equipment Descriptio:
 ENGINEERING SAFEGUARDS CONTROL

1PNL1C10 8-14-12 120

1PNL1C10 8-14-12 121

Seismic Walkdown Checklist (SWC)



1PNL1C10 8-14-12 122

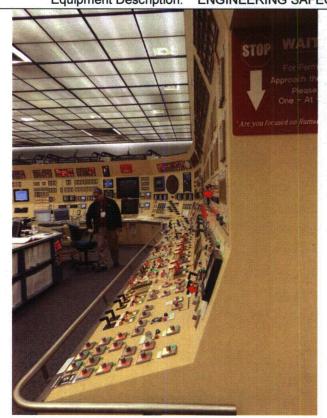
Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 1PNL1C10

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

Equipment Description: ENGINEERING SAFEGUARDS CONTROL





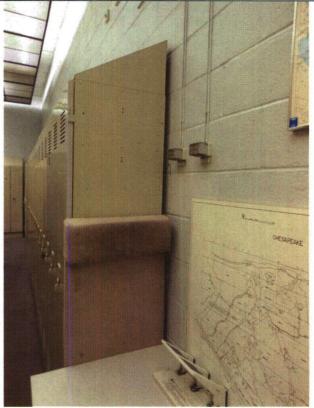
1PNL1C10 8-14-12 126

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.:	1PNL1C10
Equipment Class:	(20) Instrumentation and Control Panels and Cabinets
Equipment Description:	ENGINEERING SAFEGUARDS CONTROL

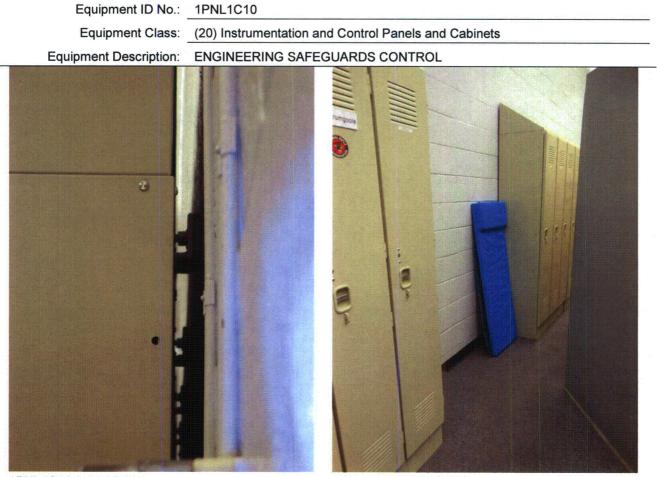




1PNL1C10 8-14-12 128

Status: Y N U

Seismic Walkdown Checklist (SWC)



1PNL1C10 8-14-12 129

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Seismic Walkdown Checklist (SWC)	Status: Y N U
Equipment ID No.: 1PNL1C18A	
Equipment Class: (20) Instrumentation and Control Panels and Cabinets	
Equipment Description: 1A-DG 4KV AND 480V CONTROL	
Project: CCNPP 1 SWEL	
Location (Bldg, Elev, Room/Area): AUX, 45.00 ft, CAL-AB-405	·
Manufacturer/Model:	
Instructions for Completing Checklist	
This checklist may be used to document the results of the Seismic Walkdown of an item of easy SWEL. The space below each of the following questions may be used to record the results of findings. Additional space is provided at the end of this checklist for documenting other comm	of judgments and
Anchorage	
 Is anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? 	Yes
2. Is the anchorage free of bent, broken, missing or loose hardware?	Yes
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	Yes
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Yes
5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) SWE opened the front of the cabinet lineup and only C18A of the rear, because there are anchored bookcase that need to be unanchored and moved out of the way. The only anchorage observed was one ½" CEA in the front and rear of C18A and one in the rear of C18B. No other anchor bolts were observed due to interferences with cables and the inaccessibility of the rear.	No
The anchorage is not consistent with SP-0715. SP-0715 shows expansion anchors on the sides of the cabinets not along the front or rear. However, SP- 0715 does not indicate the anchor bolt size. CR-2012-009708	

ATTACHMENT 3

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WALKDOWN CHECKLISTS

Seismic Walkdown Checklist (SWC)	Status: Y N U
Equipment ID No.: 1PNL1C18A	
Equipment Class: (20) Instrumentation and Control Panels and Cabinets	
Equipment Description: 1A-DG 4KV AND 480V CONTROL 6. Based on the above anchorage evaluations, is the anchorage free of	
potentially adverse seismic conditions?	
Interaction Effects	
7. Are soft targets free from impact by nearby equipment or structures?	Yes
Trash and recycling bin up against back of cabinets, however there is nothing mounted on back of the panel, therefore they will not cause inadvertent actuation of any device. Judged no to be a seismic concern. Also, there are bookcases adjacent to the panel, the bookcase are bolted to floor at corners, therefore judged no to be a seismic concern.	
 Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Drop ceiling with light diffusers, need details to determine seismic adequacy. 10/3/12 - The control room ceiling has been previously evaluated by CCNPP and was determined to not be a credible seismic concern. 	Yes
9. Do attached lines have adequate flexibility to avoid damage?	Yes
Opened cabinets and observed internal cables with adequate flexibility.	
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	Yes
Other Adverse Conditions	
11. Have you looked for and found no adverse seismic conditions that could adversely affect the safety functions of the equipment?	Yes
Comments	
Evaluated by: A. Karavaunimin A. Karavaussianis Data:	
Evaluated by: A. Karavoussianis Date:	11/09/2012

ATTACHMENT 3

WALKDOWN CHECKLISTS

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 1PNL1C18A

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

Equipment Description: 1A-DG 4KV AND 480V CONTROL

C. Figliolini

11/09/2012

Status: Y N U

Photos



1PNL1C18A 8-14-12 131



Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.:	1PNL1C18A
Equipment Class:	(20) Instrumentation and Control Panels and Cabinets
Equipment Description:	1A-DG 4KV AND 480V CONTROL



1PNL1C18A 8-14-12 133

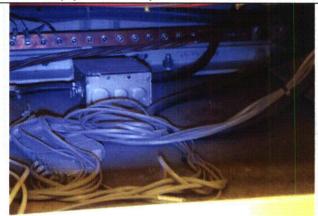
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Seismic Walkdown Checklist (SWC)

Equipment	ID N	No.:	1PNL1C18A

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





1PNL1C18A 8-14-12 135



1PNL1C18A 8-14-12 136

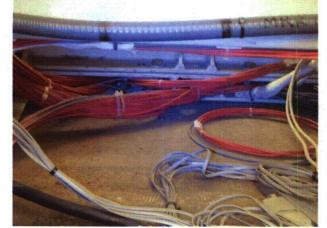
Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 1PNL1C18A

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

Equipment Description: 1A-DG 4KV AND 480V CONTROL



1PNL1C18A 8-14-12 137



1PNL1C18A 8-14-12 138

Seismic Walkdown Checklist (SWC)

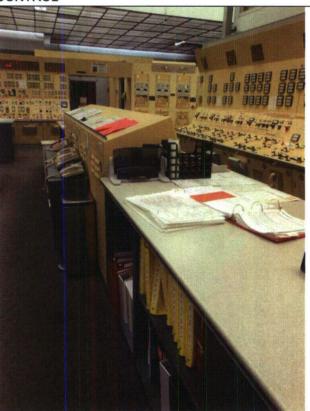
Equipment ID No.: 1PNL1C18A

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

Equipment Description: 1A-DG 4KV AND 480V CONTROL



1PNL1C18A 8-14-12 139

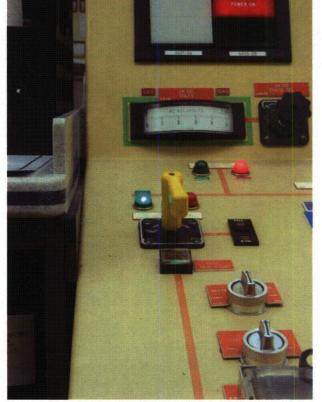


1PNL1C18A 8-14-12 140

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.:	1PNL1C18A
Equipment Class:	(20) Instrumentation and Control Panels and Cabinets
Equipment Description:	1A-DG 4KV AND 480V CONTROL



1PNL1C18A 8-14-12 141

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Seismic Walkdown Checklist (SWC)	U
Equipment ID No.: 1PNL1C18B	
Equipment Class: (20) Instrumentation and Control Panels and Cabinets	_
Equipment Description: 1B DG 4KV AND 480V CONTROL	—
Project: CCNPP 1 SWEL	
Location (Bldg, Elev, Room/Area): AUX, 45.00 ft, CAL-AB-405	—
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	
 Is anchorage configuration verification required (i.e., is the item one of the 50% No of SWEL items requiring such verification)? 	Э
2. Is the anchorage free of bent, broken, missing or loose hardware? Yes	s
3. Is the anchorage free of corrosion that is more than mild surface oxidation? Yes	S
4. Is the anchorage free of visible cracks in the concrete near the anchors? Yes	s
 Is the anchorage configuration consistent with plant documentation? (Note: Not Applicable This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) 	e
6. Based on the above anchorage evaluations, is the anchorage free of Yes potentially adverse seismic conditions?	s

ATTACHMENT 3

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WALKDOWN CHECKLISTS

Seismic V	Valkdown Checklist	(SWC)	Status: Y N U
	Equipment ID No.:	1PNL1C18B	
	Equipment Class:	(20) Instrumentation and Control Panels and Cabinets	
	ipment Description:	1B DG 4KV AND 480V CONTROL	
7. Ar	e soft targets free fro	m impact by nearby equipment or structures?	Yes
mo ac Al:	ounted on back of the tuation of any device so, there are bookcas	n up against back of cabinets, however there is nothing panel, therefore they will not cause inadvertent Judged no to be a seismic concern. ses adjacent to the panel, the bookcase are bolted to re judged no to be a seismic concern.	
8. Ar ma <i>L</i> 10	e overhead equipme asonry block walls no Drop ceiling with light V/3/12 - The control ro	nt, distribution systems, ceiling tiles and lighting, and t likely to collapse onto the equipment? diffusers, need details to determine seismic adequacy. om ceiling has been previously evaluated by CCNPP not be a credible seismic concern.	Yes
9. Do	attached lines have	adequate flexibility to avoid damage?	Yes
C	Dpened cabinets and	observed internal cables with adequate flexibility.	
		ismic interaction evaluations, is equipment free of mic interaction effects?	Yes
Other Adv	verse Conditions		,,
	•	d found no adverse seismic conditions that could ety functions of the equipment?	Yes
Comment	<u>s</u>		
Evaluated	by: A. Kan	the second se	09/2012

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Status: Y N U

Seismic Walkdown Checklist (SWC)

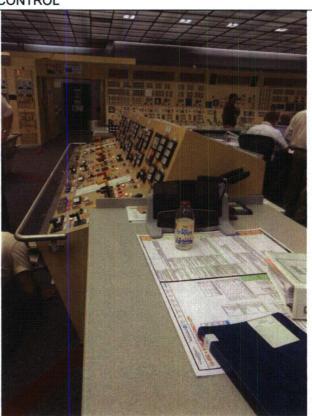
Equipment ID No.: 1PNL1C18B

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

Equipment Description: 1B DG 4KV AND 480V CONTROL



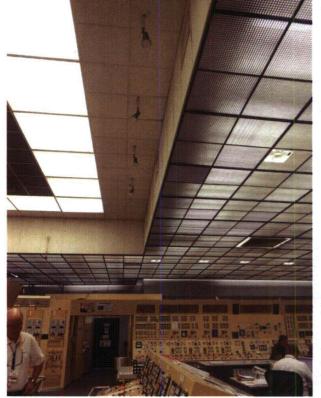
1PNL1C18B 8-14-12 131



Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.:	1PNL1C18B
Equipment Class:	(20) Instrumentation and Control Panels and Cabinets
Equipment Description:	1B DG 4KV AND 480V CONTROL



1PNL1C18B 8-14-12 133

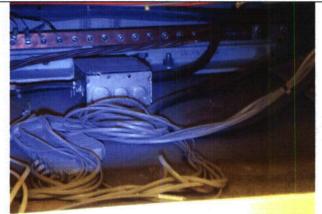


Seismic Walkdown Checklist (SWC)

Equipmen	t ID	No.:	1PNL1C18B
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Equipment Class: (20) Instrumentation and Control Panels and Cabinets

Equipment Description: 1B DG 4KV AND 480V CONTROL



1PNL1C18B 8-14-12 135



1PNL1C18B 8-14-12 136

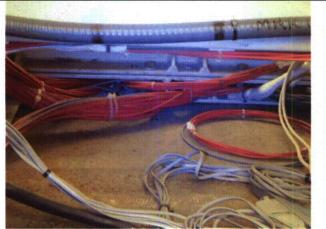
Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment	ID No .:	1PNL1C18B	

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

Equipment Description: 1B DG 4KV AND 480V CONTROL





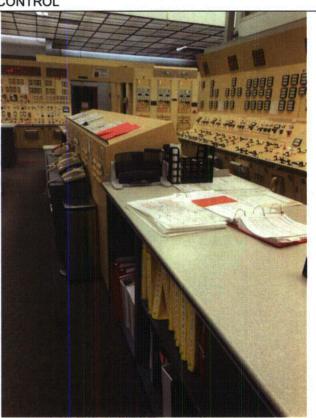
1PNL1C18B 8-14-12 138

Seismic Walkdown Checklist (SWC)

Equipment ID No.:	1PNL1C18B
Equipment Class:	(20) Instrumentation and Control Panels and Cabinets
Equipment Description:	1B DG 4KV AND 480V CONTROL



1PNL1C18B 8-14-12 139



1PNL1C18B 8-14-12 140

Seismic Walkdown Checklist (SWC)

Equipment ID No .:	1PNL1C18B
Equipment Class:	(20) Instrumentation and Control Panels and Cabinets
Equipment Description:	1B DG 4KV AND 480V CONTROL



1PNL1C18B 8-14-12 141



1PNL1C18B 8-14-12 142

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Seismi	ic Walkdown Checklist (SWC)	Status:	YNU
	Equipment ID No.: 1PNL1C62B		
	Equipment Class: (20) Instrumentation and Control Panels and Cabinets		
	Equipment Description: 1B DG LOCAL CONTROL PANEL	<u></u>	
	Project: CCNPP 1 SWEL		
Locatio	on (Bldg, Elev, Room/Area): AUX, 45.00 ft, CAL-AB-421		
	Manufacturer/Model:		
Instruc	ctions for Completing Checklist		
SWEL.	necklist may be used to document the results of the Seismic Walkdown of an item of ed. The space below each of the following questions may be used to record the results o s. Additional space is provided at the end of this checklist for documenting other comm	f judgmei	
<u>Ancho</u>	prage		
1.	Is anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?		Yes
2.	Is the anchorage free of bent, broken, missing or loose hardware? Anchorage is inaccessible.		No
3.	Is the anchorage free of corrosion that is more than mild surface oxidation?		No
	Anchorage is inaccessible.		
4.	Is the anchorage free of visible cracks in the concrete near the anchors?		No
	Anchorage is inaccessible.		
5.	Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) <i>Anchorage is inaccessible.</i>		No
6.	Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? <i>Anchorage is inaccessible.</i>		No

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Seismic Walkdown	Checklist (SWC)	Status: Y N U
Equipmer	nt ID No.: 1PNL1C62B	
	ent Class: (20) Instrumentation and Control Panels and Cabinet	s
Equipment De		
	ets free from impact by nearby equipment or structures?	No
	contact with conduit. Need to determine if this condition is acceptable. CR-2012-009670	
masonry bloo An overhea 10/3/12 - Ove their lightweig	d equipment, distribution systems, ceiling tiles and lighting, and ck walls not likely to collapse onto the equipment? ad light is in zone of influence of relay, gage and switches. erhead lights were deemed not a credible seismic concern due to ight and to typical construction practices. Also, they have been valuated by CCNPP and found seismically acceptable.	Yes
	lines have adequate flexibility to avoid damage?	Yes
potentially ac	e above seismic interaction evaluations, is equipment free of dverse seismic interaction effects?	Yes
Other Adverse Con		
adversely aff	oked for and found no adverse seismic conditions that could fect the safety functions of the equipment? Inaccessible for internal inspection.	No
<u>Comments</u>		
Evaluated by: /	A. Karavoussianis Date Date C. Figliolini	e: 11/09/2012 11/09/2012

Photos

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Seismic Walkdown Checklist (SWC)

Equipment ID No.: 1PNL1C62B

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

Equipment Description: 1B DG LOCAL CONTROL PANEL



1PNL1C62B 8-13-12 127



Status: Y N U

1PNL1C62B 8-13-12 128



1PNL1C62B 8-13-12 129



1PNL1C62B 8-13-12 130

Seismic Walkdown Checklist (SWC)

	(0110)
Equipment ID No.:	1PNL1C62B
Equipment Class:	(20) Instrumentation and Control Panels and Cabinets
Equipment Description:	1B DG LOCAL CONTROL PANEL
IPNL1C62B 8-13-12 131	<image/> <image/>

Status: Y N U

Seismic Walkdown Checklist	(SWC)
Equipment ID No.:	1PNL1C62B
Equipment Class:	(20) Instrumentation and Control Panels and Cabinets
Equipment Description:	1B DG LOCAL CONTROL PANEL
IPNL1C62B 8-13-12 133	Image: Provide state st

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Seismic Walkdown Checklist (SWC)	NU
Equipment ID No.: 1PNL1C62C	
Equipment Class: (20) Instrumentation and Control Panels and Cabinets	
Equipment Description: 1B DG LOCAL CONTROL PANEL	
Project: CCNPP 1 SWEL	
Location (Bldg, Elev, Room/Area): AUX, 45.00 ft, CAL-AB-421	
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 a findings. Additional space is provided at the end of this checklist for documenting other comments.	
Anchorage	
 Is anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? 	No
2. Is the anchorage free of bent, broken, missing or loose hardware? Anchorage is inaccessible.	No
3. Is the anchorage free of corrosion that is more than mild surface oxidation? Anchorage is inaccessible.	No
4. Is the anchorage free of visible cracks in the concrete near the anchors? Anchorage is inaccessible.	No
 Is the anchorage configuration consistent with plant documentation? (Note: Not Applie This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) 	cable
Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	No

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Seismic Walkdown	Checklist (SWC)	YNU
Equipmer	nt ID No.: 1PNL1C62C	
	nt Class: (20) Instrumentation and Control Panels and Cabinets	
	scription: 1B DG LOCAL CONTROL PANEL	, <u> </u>
	ets free from impact by nearby equipment or structures?	Yes
masonry bloc An overhead 10/3/12 - Ove their lightweig	equipment, distribution systems, ceiling tiles and lighting, and k walls not likely to collapse onto the equipment? d lighting in zone of influence of gages and switches. erhead lights were deemed not a credible seismic concern due to ght and to typical construction practices. Also, they have been	Yes
	raluated by CCNPP and found seismically acceptable. lines have adequate flexibility to avoid damage?	Yes
	above seismic interaction evaluations, is equipment free of lowerse seismic interaction effects?	Yes
Other Adverse Cond	ditions	
11. Have you loo adversely affe	ked for and found no adverse seismic conditions that could ect the safety functions of the equipment? naccessible for internal inspection.	No
Comments	· · · · · · · · · · · · · · · · · · ·	
Evaluated by: /	A. Karavoussianis Date: 11/09/2012	
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Seismic Walkdown Checklist (SWC)

Equipment ID No.:	1PNL1C62C
Equipment Class:	(20) Instrumentation and Control Panels and Cabinets
Equipment Description:	1B DG LOCAL CONTROL PANEL
Image: Arrow of the second	

1PNL1C62C 8-13-12 136

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No .:	1PNL1C62C
Equipment Class:	(20) Instrumentation and Control Panels and Cabinets
	1B DG LOCAL CONTROL PANEL





¹PNL1C62C 8-13-12 138

1PNL1C62C 8-13-12 137

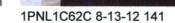
Status: Y N U

Seismic Walkdown Checklist (SWC)

NGER

Equipment ID No.:	1PNL1C62C
Equipment Class:	(20) Instrumentation and Control Panels and Cabinets
Equipment Description:	1B DG LOCAL CONTROL PANEL

1PNL1C62C 8-13-12 139



Seismic Walkdown Checklist (SWC)

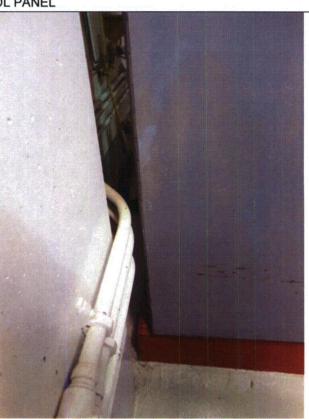
 Equipment ID No.:
 1PNL1C62C

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

Equipment Description: 1B DG LOCAL CONTROL PANEL



1PNL1C62C 8-13-12 142



Status: Y N U

1PNL1C62C 8-13-12 143

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	N U
Seismic Walkdown Checklist (SWC)	
Equipment ID No.: 1PNL1C67	
Equipment Class: (20) Instrumentation and Control Panels and Cabinets	
Equipment Description: ESFAS ACT LOGIC & RELAY CAB A	
Project: CCNPP 1 SWEL	
Location (Bldg, Elev, Room/Area): AUX, 27.00 ft, CAL-AB-306	
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 th SWEL. The space below each of the following questions may be used to record the results of judgments ar findings. Additional space is provided at the end of this checklist for documenting other comments.	
Anchorage	
 Is anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? 	Yes
2. Is the anchorage free of bent, broken, missing or loose hardware?	Yes
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	Yes
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Yes
 Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) Anchorage is consistent with calculation CA02066. 	Yes
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	Yes

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ATTACHMENT 3

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WALKDOWN CHECKLISTS

Seismic Walkdown (Status: Y N U
Equipmen		
	nt Class: (20) Instrumentation and Control Panels and Cabinets	
Equipment Des	scription: ESFAS ACT LOGIC & RELAY CAB A	
7. Are soft targe	ets free from impact by nearby equipment or structures?	Yes
	equipment, distribution systems, ceiling tiles and lighting, and k walls not likely to collapse onto the equipment?	Yes
9. Do attached l	lines have adequate flexibility to avoid damage?	Yes
	above seismic interaction evaluations, is equipment free of verse seismic interaction effects?	Yes
Other Adverse Cond	litions	
-	ked for and found no adverse seismic conditions that could ect the safety functions of the equipment?	Yes
<u>Comments</u>		
Evaluated by:	A. Karavoussianis Date: 11/4	09/2012
·	C. Figliolini	09/2012
Photos	·	

Seismic Walkdown Checklist (SWC)

Equipment ID No .:	1PNL1C67
Equipment Class:	(20) Instrumentation and Control Panels and Cabinets
Equipment Description:	ESFAS ACT LOGIC & RELAY CAB A



1PNL1C67 8-14-12 074



Status: Y N U

1PNL1C67 8-14-12 075



1PNL1C67 8-14-12 076



1PNL1C67 8-14-12 077

Seismic Walkdown Checklist (SWC)

Equipment ID No.:	1PNL1C67
Equipment Class:	(20) Instrumentation and Control Panels and Cabinets
Equipment Description:	ESFAS ACT LOGIC & RELAY CAB A

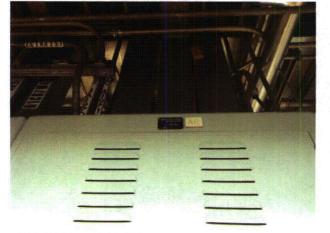




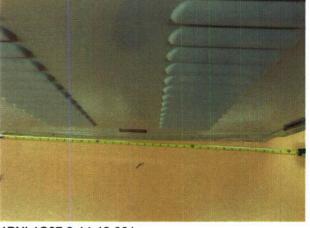
Status: Y N U

1PNL1C67 8-14-12 079

1PNL1C67 8-14-12 078



1PNL1C67 8-14-12 080



1PNL1C67 8-14-12 081

Seismic Walkdown Checklist (SWC)

Equipment ID No.:	1PNL1C67
Equipment Class:	(20) Instrumentation and Control Panels and Cabinets
Equipment Description:	ESFAS ACT LOGIC & RELAY CAB A





Status: Y N U

1PNL1C67 8-14-12 082



1PNL1C67 8-14-12 084

1PNL1C67 8-14-12 083

ATTACHMENT 3

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WALKDOWN CHECKLISTS

Sciemic Walkdown Checklict (SWC)	Status: Y N U
Seismic Walkdown Checklist (SWC)	
Equipment ID No.: 1PNL1D11	
Equipment Class: (2) Low Voltage Switchgear	
Equipment Description: 125VDC PNL DC11 1D11	
Project: CCNPP 1 SWEL	
Location (Bldg, Elev, Room/Area): AUX, 27.00 ft, CAL-AB-306	
Manufacturer/Model:	· ·
Instructions for Completing Checklist This checklist may be used to document the results of the Seismic Walkdown of an item of e SWEL. The space below each of the following questions may be used to record the results findings. Additional space is provided at the end of this checklist for documenting other com	of judgments and
Anchorage	
 Is anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? 	Yes
2. Is the anchorage free of bent, broken, missing or loose hardware?	No
Anchorage is inaccessible.3. Is the anchorage free of corrosion that is more than mild surface oxidation?	No
Anchorage is inaccessible.	· No
4. Is the anchorage free of visible cracks in the concrete near the anchors? Anchorage is inaccessible.	No
 Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) Anchorage is inaccessible. 	No
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? <i>Anchorage is inaccessible.</i>	No

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Seismic Walkdown Checklist (SWC)	Status:	YNU
Equipment ID No.: 1PNL1D11		
		·
Equipment Class: (2) Low Voltage Switchgear		
Equipment Description: 125VDC PNL DC11 1D11 7. Are soft targets free from impact by nearby equipment or structures?		Yes
Observed a 3/8" clearance to 1D01 that is behind 1D11 and 3/8" to 1B13 adjacent to 1D11. This cabinet 1D11 is 14.5"x64"x90" high. Evaluated this condition using 8Hz and 2% damping. The resulting displacement is 0.147", which is less than 3/8", therefore the gap is acceptable.		
 Using response spectrum AB027D2N.dat Sa = 0.3g d = 2*1.6*0.3*386.4/(8*2pi)^2 = 0.147" < 0.375" : OK. 8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? 		Yes
9. Do attached lines have adequate flexibility to avoid damage?		Yes
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?		Yes
Other Adverse Conditions		
Other Adverse Conditions 11. Have you looked for and found no adverse seismic conditions that could adversely affect the safety functions of the equipment? Cabinet is inaccessible for internal inspection.		No
Comments		
traffetter.	11/09/2012	
	11/03/2012	

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Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.:	1PNL1D11
Equipment Class:	(2) Low Voltage Switchgear
Equipment Description:	125VDC PNL DC11 1D11

Photos

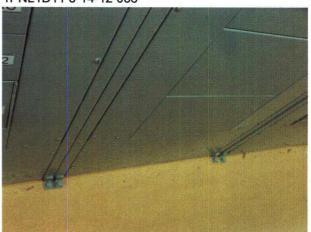


1PNL1D11 8-14-12 085



1PNL1D11 8-14-12 086





C-385

Seismic Walkdown Checklist (SWC)

Equipment ID No.:	1PNL1D11
Equipment Class:	(2) Low Voltage Switchgear
Equipment Description:	125VDC PNL DC11 1D11
1PNL1D11 8-14-12 087	1PNL1D11 8-14-12 088



1PNL1D11 8-14-12 089



Status: Y N U

1PNL1D11 8-14-12 090



1PNL1D11 8-14-12 092

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Statu Seismic Walkdown Checklist (SWC)	s: Y N U
Equipment ID No.: 1PO5432	
Equipment Class: (10) Air Handlers	
Equipment Description: DIESEL RM 1B SUPPLY DAMPER	
Project: CCNPP 1 SWEL	
Location (Bldg, Elev, Room/Area): AUX, 45.00 ft, CAL-AB-421	
Manufacturer/Model:	
Instructions for Completing Checklist This checklist may be used to document the results of the Seismic Walkdown of an item of equipmer SWEL. The space below each of the following questions may be used to record the results of judg findings. Additional space is provided at the end of this checklist for documenting other comments.	ments and
Anchorage	
 Is anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? The damper and associated duct work are supported off the walls. 	Yes
2. Is the anchorage free of bent, broken, missing or loose hardware?	Yes
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	Yes
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Yes
5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) Need plant documentation to determine if anchorage is consistent with as- built sketch. CR-2012-009738	No
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	No

ATTACHMENT 3

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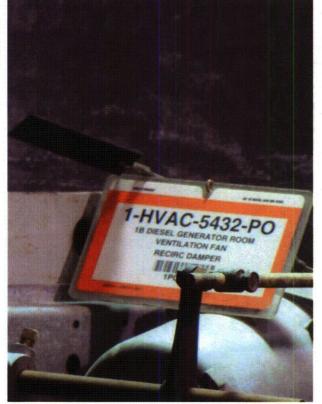
WALKDOWN CHECKLISTS

Seismic Walkdowr	Stat	us: YNU
	ent ID No.: 1P05432	·
	nent Class: (10) Air Handlers	
Equipment D		No.
7. Are soft tar	gets free from impact by nearby equipment or structures?	Yes
	ad equipment, distribution systems, ceiling tiles and lighting, and ock walls not likely to collapse onto the equipment?	Yes
9. Do attached	d lines have adequate flexibility to avoid damage?	Yes
	ne above seismic interaction evaluations, is equipment free of adverse seismic interaction effects?	Yes
Other Adverse Co	nditions	
•	ooked for and found no adverse seismic conditions that could ffect the safety functions of the equipment?	Yes
<u>Comments</u>		
Evaluated by:	17. Karavoussianis Date: 11/09/2	012
-	C. Figliolini 11/09/2	012
Photos		

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Seismic Walkdown Checklist (SWC)

Equipment ID No.:	1PO5432
Equipment Class:	(10) Air Handlers
Equipment Description:	DIESEL RM 1B SUPPLY DAMPER



1PO5432 8-13-12 149



1PO5432 8-13-12 151



Status: Y N U

1PO5432 8-13-12 150



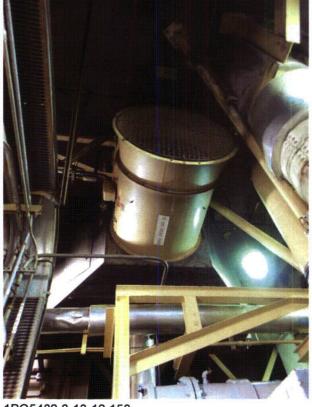
1PO5432 8-13-12 152

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 1PO5432 Equipment Class: (10) Air Handlers Equipment Description: DIESEL RM 1B SUPPLY DAMPER



1PO5432 8-13-12 154



1PO5432 8-13-12 158



Status: Y N U

1PO5432 8-13-12 157



1PO5432 8-13-12 161

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.:	1PO5432
Equipment Class:	(10) Air Handlers
Equipment Description:	DIESEL RM 1B SUPPLY DAMPER
1PO5432 8-13-12 162	
1PO5432 8-13-12 165	1PO5432 8-13-12 166

1PO5432 8-13-12 165

1PO5432 8-13-12 166

Seismic Walkdown Checklist	(SWC) Status: Y	NU
Equipment ID No.:	1PO5432	
	(10) Air Handlers	
	DIESEL RM 1B SUPPLY DAMPER	
1P05432 8-13-12 167	<image/> <image/>	
1P05432 8-13-12 167	1PO5432 8-13-12 168	
Seismic Walkdown Checklist		NU
Equipment ID No.:	(SWC) 1PT5313A	NU
Equipment ID No.: Equipment Class:	(SWC) 1PT5313A (20) Instrumentation and Control Panels and Cabinets	NU
Equipment ID No.: Equipment Class: Equipment Description:	(SWC) 1PT5313A (20) Instrumentation and Control Panels and Cabinets CONTAINMENT PRESSURE TO SIAS	N U
Equipment ID No.: Equipment Class: Equipment Description: Proje	IPT5313A (20) Instrumentation and Control Panels and Cabinets CONTAINMENT PRESSURE TO SIAS ect: CCNPP 1 SWEL	N U
Equipment ID No.: Equipment Class: Equipment Description: Proje	IPT5313A (20) Instrumentation and Control Panels and Cabinets CONTAINMENT PRESSURE TO SIAS ect: CCNPP 1 SWEL ea): AUX, 45.00 ft, CAL-AB-429	N U
Equipment ID No.: Equipment Class: Equipment Description: Proje Location (Bldg, Elev, Room/Are	IPT5313A (20) Instrumentation and Control Panels and Cabinets CONTAINMENT PRESSURE TO SIAS ect: CCNPP 1 SWEL ea): AUX, 45.00 ft, CAL-AB-429 del:	
Equipment ID No.: Equipment Class: Equipment Description: Proje Location (Bldg, Elev, Room/Are Manufacturer/Moo Instructions for Completing O This checklist may be used to o SWEL. The space below each	IPT5313A (20) Instrumentation and Control Panels and Cabinets CONTAINMENT PRESSURE TO SIAS ect: CCNPP 1 SWEL ea): AUX, 45.00 ft, CAL-AB-429 del:	
Equipment ID No.: Equipment Class: Equipment Description: Proje Location (Bldg, Elev, Room/Are Manufacturer/Moo Instructions for Completing O This checklist may be used to o SWEL. The space below each	IPT5313A (20) Instrumentation and Control Panels and Cabinets CONTAINMENT PRESSURE TO SIAS ect: CCNPP 1 SWEL ea): AUX, 45.00 ft, CAL-AB-429 del: Comment the results of the Seismic Walkdown of an item of equipment on the of the following questions may be used to record the results of judgments and the seismic walkdown of the results of judgments and the seismic walkdown of the results of judgments and the results of judgments and the seismic walkdown of the results of judgments and the seismic walkdown of the results of judgments and the seismic walkdown of the results of judgments and the seismic walkdown of the results of judgments and the seismic walkdown of the results of judgments and the seismic walkdown of the results of judgments and the seismic walkdown of the results of judgments and the seismic walkdown of the results of judgments and the seismic walkdown of the results of judgments and the seismic walkdown of the results of judgments and the seismic walkdown of the results of judgments and the seismic walkdown of the results of judgments and the seismic walkdown of the seismic	
Equipment ID No.: Equipment Class: Equipment Description: Proje Location (Bldg, Elev, Room/Are Manufacturer/Mod Instructions for Completing of This checklist may be used to of SWEL. The space below each findings. Additional space is pr Anchorage	IPT5313A (20) Instrumentation and Control Panels and Cabinets CONTAINMENT PRESSURE TO SIAS ect: CCNPP 1 SWEL ea): AUX, 45.00 ft, CAL-AB-429 del: Checklist document the results of the Seismic Walkdown of an item of equipment on the of the following questions may be used to record the results of judgments arrovided at the end of this checklist for documenting other comments. ttion verification required (i.e., is the item one of the 50%	

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Seism	ic Walkdown Checklist (SWC)	Status:	YNU
	Equipment ID No.: 1PT5313A		
	Equipment Class: (20) Instrumentation and Control Panels and Cabinets		<u>-</u>
	Equipment Description: CONTAINMENT PRESSURE TO SIAS		
3.	Is the anchorage free of corrosion that is more than mild surface oxidation?		Yes
4.	Is the anchorage free of visible cracks in the concrete near the anchors?		Yes
5.	Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) Anchorage is 13/16 F-F bolt pattern c/c 4.5" x 6.5", vertical weld		No
6.	approximately 2" long. Anchorage verified by drawings 65944 and 91005 (J- 104). The web of the support channel is not fully welded to the wall anchor plates as shown on 91005. CR-2012-009678 Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?		No
Interac	ction Effects		
7.	Are soft targets free from impact by nearby equipment or structures?		Yes
8.	Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?		Yes
9.	Do attached lines have adequate flexibility to avoid damage?		Yes

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ATTACHMENT 3

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WALKDOWN CHECKLISTS

Seismic Walkdov	wn Checklist (SWC)			Status:	YNU
Equip	ment ID No.: 1PT5313/	A			
Equip	oment Class: (20) Instru	mentation and Control Panels ar	nd Cabinets		
Equipment	Description: CONTAIN	IMENT PRESSURE TO SIAS			
	the above seismic intera y adverse seismic interac	ction evaluations, is equipment fi tion effects?	ree of		Yes
•		adverse seismic conditions that on a sof the equipment?	could		Yes
Comments					
Evaluated by:	A. Kanvann	A. Karavoussianis	Date:	11/09/2012	
	frage fut	C. Figliolini		11/09/2012	

<u>Photos</u>

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Seismic Walkdown Checklist (SWC)

Status: Y N U

Equipment ID No.:	1PT5313A
Equipment Class:	(20) Instrumentation and Control Panels and Cabinets
Equipment Description:	CONTAINMENT PRESSURE TO SIAS
1-PT-53 CONTAINMENT PRI TO SIAS & R 1PT5313A 8-8-12 097	IZA ESSURE

1PT5313A 8-8-12 098

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.:	1PT5313A
Equipment Class:	(20) Instrumentation and Control Panels and Cabinets
Equipment Description:	CONTAINMENT PRESSURE TO SIAS





1PT5313A 8-8-12 101

1PT5313A 8-8-12 099



1PT5313A 8-8-12 102



1PT5313A 8-8-12 103

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Status: Y N	U
Equipment ID No.: 1PT5313B	
Equipment Description: CONTAINMENT PRESSURE TO SIAS	
Project: CCNPP 1 SWEL	
Location (Bldg, Elev, Room/Area): AUX, 45.00 ft, CAL-AB-429	
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	
 Is anchorage configuration verification required (i.e., is the item one of the 50% Not solve the solve of SWEL items requiring such verification)? 	С
2. Is the anchorage free of bent, broken, missing or loose hardware? Ye	s
3. Is the anchorage free of corrosion that is more than mild surface oxidation? Ye	s
There is some surface oxidation on wall plate < 1/32" and it is not near weld. The plate stresses in the vicinity of the oxidation are judged to be small, therefore not a seismic concern.	
4. Is the anchorage free of visible cracks in the concrete near the anchors? Ye	s
 Is the anchorage configuration consistent with plant documentation? (Note: Not Applicable This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) 	8
 Based on the above anchorage evaluations, is the anchorage free of Ye potentially adverse seismic conditions? 	s

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ATTACHMENT 3

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WALKDOWN CHECKLISTS

Seismic Walkdown Checklis	t (SWC)	Status: Y N U
Equipment ID No.:	1PT5313B	
	(20) Instrumentation and Control Panels and Cabinets	
Equipment Description:	CONTAINMENT PRESSURE TO SIAS	
7. Are soft targets free fr	om impact by nearby equipment or structures?	Yes
	ent, distribution systems, ceiling tiles and lighting, and ot likely to collapse onto the equipment?	Yes
9. Do attached lines have	e adequate flexibility to avoid damage?	Yes
	eismic interaction evaluations, is equipment free of smic interaction effects?	Yes
Other Adverse Conditions		
11. Have you looked for a	nd found no adverse seismic conditions that could fety functions of the equipment?	Yes
<u>Comments</u>		
Evaluated by:	tipeta .	1/09/2012

Photos

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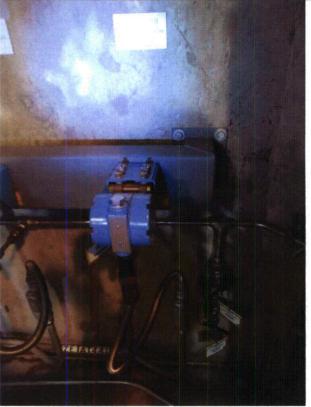
Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.:	1PT5313B
Equipment Class:	(20) Instrumentation and Control Panels and Cabinets
Equipment Description:	CONTAINMENT PRESSURE TO SIAS



1PT5313B 8-8-12 091



1PT5313B 8-8-12 092

Seismic Walkdown Checklist (SWC)

Equipment ID No .:	1PT5313B
Equipment Class:	(20) Instrumentation and Control Panels and Cabinets
Equipment Description:	CONTAINMENT PRESSURE TO SIAS



1PT5313B 8-8-12 093



Status: Y N U

1PT5313B 8-8-12 094

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.:	1PT5313B	
Equipment Class:	(20) Instrumentation and Control Panels and Cabinets	
Equipment Description:	CONTAINMENT PRESSURE TO SIAS	





1PT5313B 8-8-12 096

1PT5313B 8-8-12 095

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Seismic Walkdown Checklis	t (SWC)	Status: Y N U
Equipment ID No.:	1PT5315C	
	(20) Instrumentation and Control Panels and Cabinets	
Equipment Description:		
· · · · · · · · · · · · · · · · · · ·	ect: CCNPP 1 SWEL	
Location (Bldg, Elev, Room/Ar	ea): AUX, 45.00 ft, CAL-AB-423	
Manufacturer/Mo	del:	
Instructions for Completing	Checklist	
SWEL. The space below each findings. Additional space is p	document the results of the Seismic Walkdown of an item of of the following questions may be used to record the results rovided at the end of this checklist for documenting other com	of judgments and
Anchorage		
 Is anchorage configuration of SWEL items requiring the second seco	ation verification required (i.e., is the item one of the 50% na such verification)?	No
. ·		
2. Is the anchorage free	of bent, broken, missing or loose hardware?	No
The upper left anchoi 2012-009320 & CR-20	r bolt on the left side of the anchor plate is missing. CR- 012-009333	
3. Is the anchorage free	of corrosion that is more than mild surface oxidation?	Yes
4. Is the anchorage free of	of visible cracks in the concrete near the anchors?	Yes
-	guration consistent with plant documentation? (Note: lies if the item is one of the 50% for which an anchorage on is required.)	Not Applicable
Based on the above an potentially adverse sei	nchorage evaluations, is the anchorage free of smic conditions?	No

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ATTACHMENT 3

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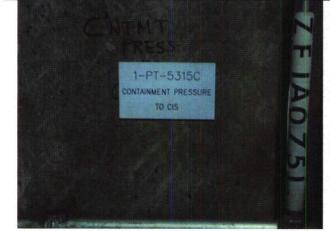
WALKDOWN CHECKLISTS

Seismic Walkdown Checklist (SWC)	Status:	YNU
Equipment ID No.: 1PT5315C		
Equipment Class: (20) Instrumentation and Control Panels and Cabinets		
Equipment Description: CONTAINMENT PRESSURE TO CIS 7. Are soft targets free from impact by nearby equipment or structures?		Yes
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?		Yes
9. Do attached lines have adequate flexibility to avoid damage?		Yes
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?		Yes
Other Adverse Conditions		
11. Have you looked for and found no adverse seismic conditions that could adversely affect the safety functions of the equipment?		Yes
Comments		
Evaluated by: A. Karavoussianis Date:	11/09/2012	
C. Figliolini	11/09/2012	
Photos		

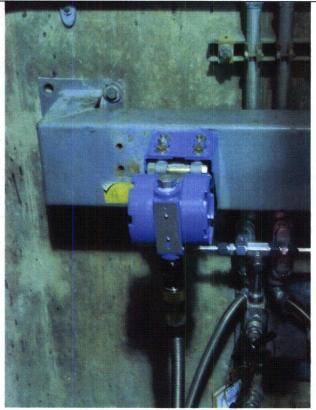
Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.:	1PT5315C
Equipment Class:	(20) Instrumentation and Control Panels and Cabinets
Equipment Description:	CONTAINMENT PRESSURE TO CIS



1PT5315C 8-7-12 001



1PT5315C 8-7-12 002

Seismic Walkdown Checklist (SWC)

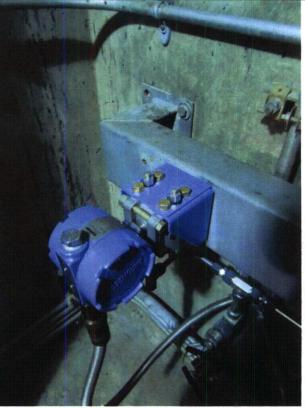
Equipment ID No.: 1PT5315C

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

Equipment Description: CONTAINMENT PRESSURE TO CIS



1PT5315C 8-7-12 003



Status: Y N U

1PT5315C 8-7-12 004

ATTACHMENT 3

WALKDOWN CHECKLISTS

Seismic Walkdown Checklist (SWC)	Status: Y N U
Equipment ID No.: 1PT5315D	
Equipment Class: (20) Instrumentation and Control Panels and Cabinets	
Equipment Description: CONTAINMENT PRESSURE TO CIS	
Project: CCNPP 1 SWEL	<u></u>
Location (Bldg, Elev, Room/Area): AUX, 45.00 ft, CAL-AB-423	
Manufacturer/Model:	
Instructions for Completing Checklist	
This checklist may be used to document the results of the Seismic Walkdown of an item of ea SWEL. The space below each of the following questions may be used to record the results of findings. Additional space is provided at the end of this checklist for documenting other comm	of judgments and
Anchorage	
 Is anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? 	Yes
2. Is the anchorage free of bent, broken, missing or loose hardware?	No
The better right anchor belt is not engaged CP 2012 000221	
The bottom right anchor bolt is not engaged. CR-2012-009321	
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	Yes
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Yes
 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.) Measured 3/4" F-F anchor bolt nuts and 4-1/2" x 6 3/8" c/c bolting pattern. 	Yes
Walkdown as-built anchorage sketch is consistent with drawings 65578 sheet 2 and 91005 (J-104).	
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	No

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Status: Y N U Seismic Walkdown Checklist (SWC) Equipment ID No.: 1PT5315D Equipment Class: (20) Instrumentation and Control Panels and Cabinets Equipment Description: CONTAINMENT PRESSURE TO CIS Yes 7. Are soft targets free from impact by nearby equipment or structures? 8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and Yes masonry block walls not likely to collapse onto the equipment? 9. Do attached lines have adequate flexibility to avoid damage? Yes 10. Based on the above seismic interaction evaluations, is equipment free of Yes potentially adverse seismic interaction effects? **Other Adverse Conditions** 11. Have you looked for and found no adverse seismic conditions that could Yes adversely affect the safety functions of the equipment? Comments A. Karavoussianis Evaluated by: Date: 11/09/2012 C. Figliolini 11/09/2012

Photos

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.:	1PT5315D
Equipment Class:	(20) Instrumentation and Control Panels and Cabinets
Equipment Description:	CONTAINMENT PRESSURE TO CIS



1PT5315D 8-7-12 005



1PT5315D 8-7-12 006

Seismic Walkdown Checklist (SWC)

Equipment	ID	No.:	1PT5315D

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

Equipment Description: CONTAINMENT PRESSURE TO CIS



1PT5315D 8-7-12 008



Status: Y N U

1PT5315D 8-7-12 009



1PT5315D 8-7-12 010



1PT5315D 8-7-12 011

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Seismic Walkdown Checklist (SWC)	Status: YNU
Equipment ID No.: 1PUMPAFWMD13	
Equipment Class: (5) Horizontal Pumps	
Equipment Description: 13 AUX FW MTR DRIVEN PP	
Project: CCNPP 1 SWEL	· · · · · · · · · · · · · · · · · · ·
Location (Bldg, Elev, Room/Area): AUX, 5.00 ft, CAL-AB-226	
Manufacturer/Model:	
Instructions for Completing Checklist	·
This checklist may be used to document the results of the Seismic Walkdown of an item of equ SWEL. The space below each of the following questions may be used to record the results of findings. Additional space is provided at the end of this checklist for documenting other comm	judgments and
Anchorage	
 Is anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? 	No
2. Is the anchorage free of bent, broken, missing or loose hardware?	Yes
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	Yes
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Yes
5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)	Not Applicable
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	Yes

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Seismic Walkdown Checkl	st (SWC)	Status: Y N U
Equipment ID No		
	s: (5) Horizontal Pumps	
Equipment Description 7. Are soft targets free	n: 13 AUX FW MTR DRIVEN PP from impact by nearby equipment or structures?	Yes
8. Are overhead equipr	nent, distribution systems, ceiling tiles and lighting, and not likely to collapse onto the equipment?	Yes
	ve adequate flexibility to avoid damage? as flex conduit having adequate flexibility, therefore no	Yes
tubing spans 8" betw motion between the judged not to advers 10. Based on the above	is supported from a pipe support above pump. The een small bore piping and its support. The differential pump that is supported on the floor and floor above is ely effect the tube, therefore not a seismic concern. seismic interaction evaluations, is equipment free of eismic interaction effects?	Yes
-	and found no adverse seismic conditions that could safety functions of the equipment?	Yes
Commonts		
<u>Comments</u>		
Evaluated by: A. M.	A. Karavoussianis Date:	11/09/2012 11/09/2012

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.:	1PUMPAFWMD13
Equipment Class:	(5) Horizontal Pumps
Equipment Description:	13 AUX FW MTR DRIVEN PP

Photos



1PUMPAFWMD13 8-16-12 059

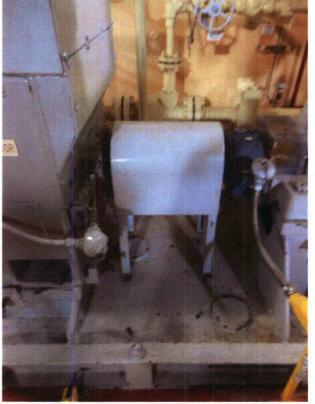


Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.:	1PUMPAFWMD13
Equipment Class:	(5) Horizontal Pumps
Equipment Description:	13 AUX FW MTR DRIVEN PP





1PUMPAFWMD13 8-16-12 062

Seismic Walkdown Checklist (SWC)

Equipment ID No.:	1PUMPAFWMD13
Equipment Class:	(5) Horizontal Pumps

Equipment Description: 13 AUX FW MTR DRIVEN PP



1PUMPAFWMD13 8-16-12 063



Status: Y N U

Seismic Walkdown Checklist (SWC)

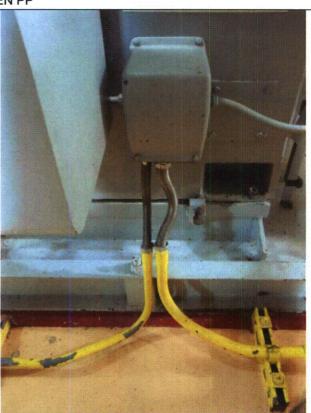
Equipment ID No.:	1PUMPAFWMD13
Equipment Class:	(5) Horizontal Pumps

Equipment Description: 13 AUX FW MTR DRIVEN PP





1PUMPAFWMD13 8-16-12 066



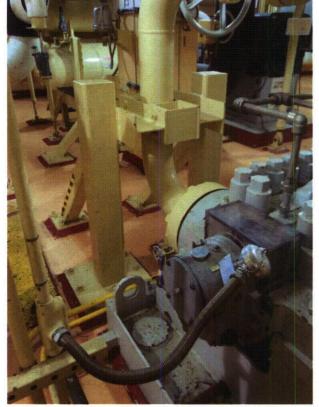
1PUMPAFWMD13 8-16-12 067

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.:	1PUMPAFWMD13
Equipment Class:	(5) Horizontal Pumps

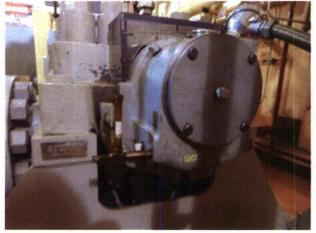
Equipment Description: 13 AUX FW MTR DRIVEN PP





1PUMPAFWMD13 8-16-12 069

1PUMPAFWMD13 8-16-12 068



Status: Y N U Seismic Walkdown Checklist (SWC) Equipment ID No.: 1PUMPAFWTD11 Equipment Class: (5) Horizontal Pumps Equipment Description: AUX FEED PUMP 11 Project: CCNPP 1 SWEL Location (Bldg, Elev, Room/Area): TURB, 12.00 ft, CAL-AFWPR-603 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 the 50% No of SWEL items requiring such verification)? 2. Is the anchorage free of bent, broken, missing or loose hardware? Yes 3. Is the anchorage free of corrosion that is more than mild surface oxidation? Yes 4. Is the anchorage free of visible cracks in the concrete near the anchors? Yes 5. Is the anchorage configuration consistent with plant documentation? (Note: Not Applicable This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) 6. Based on the above anchorage evaluations, is the anchorage free of Yes potentially adverse seismic conditions?

ATTACHMENT 3

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WALKDOWN CHECKLISTS

Seismic Walkdowi	n Checklist (SWC)	us: YNU
	ent ID No.: 1PUMPAFWTD11	
	nent Class: (5) Horizontal Pumps	
Equipment D		
	gets free from impact by nearby equipment or structures?	Yes
8. Are overhea	ad equipment, distribution systems, ceiling tiles and lighting, and	Yes
Need to do 10/3/12 - O their lightwo	ock walls not likely to collapse onto the equipment? determine if overhead light mounting is seismically adequate. Overhead lights were deemed not a credible seismic concern due to eight and to typical construction practices. Also, they have been evaluated by CCNPP and found seismically acceptable.	
Lines atta	d lines have adequate flexibility to avoid damage? ched to equipment consist of flex conduit and flexible tubing, both quate flexibility, therefore no seismic concern.	Yes
	he above seismic interaction evaluations, is equipment free of adverse seismic interaction effects?	Yes
Other Adverse Co		
	ooked for and found no adverse seismic conditions that could affect the safety functions of the equipment?	Yes
<u>Comments</u>		
Evaluated by:	A. Karavoussianis Date: 11/09/20	012
·	C. Figliolini 11/09/20	012

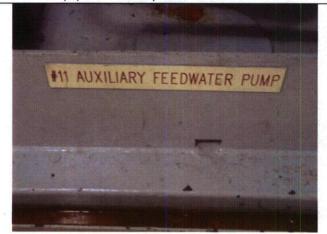
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Photos

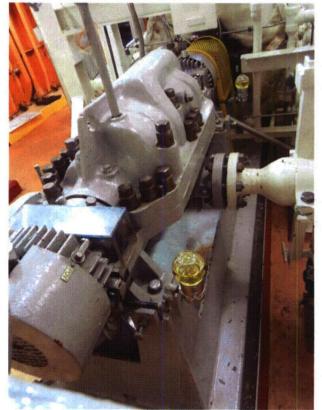
Seismic Walkdown Checklist (SWC)

Status: Y N U

Equipment ID No.:	1PUMPAFWTD11
Equipment Class:	(5) Horizontal Pumps
Equipment Description:	AUX FEED PUMP 11



1PUMPAFWTD11 8-10-12 015



1PUMPAFWTD11 8-10-12 017



1PUMPAFWTD11 8-10-12 016

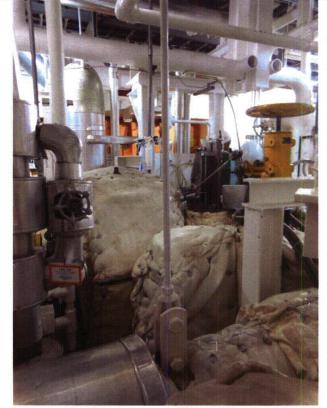


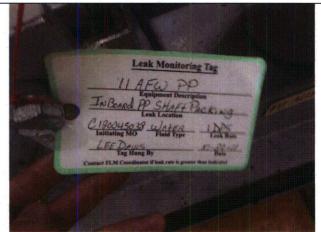
Seismic Walkdown Checklist (SWC)

Status: Y N U

Equipment ID No.:	1PUMPAFWTD11
Equipment Class:	(5) Horizontal Pumps

Equipment Description: AUX FEED PUMP 11





1PUMPAFWTD11 8-10-12 019

Seismic Walkdown Checklist (SWC)

Status: Y N U

1PUMPAFWTD11	
(5) Horizontal Pumps	e ²⁰ e
AUX FEED PUMP 11	
	Carma Sa Maria

1PUMPAFWTD11 8-10-12 021

Seismic Walkdown Checklist (SWC)

Equipment ID No.:	1PUMPAFWTD11
Equipment Class:	(5) Horizontal Pumps
ipment Description:	AUX FEED PUMP 11

Equipment Description:



1PUMPAFWTD11 8-10-12 023



1PUMPAFWTD11 8-10-12 025



Status: Y N U

1PUMPAFWTD11 8-10-12 024



ATTACHMENT 3

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WALKDOWN CHECKLISTS

Sciencie Welkdown Checklist (SWC)	NU
Seismic Walkdown Checklist (SWC)	
Equipment ID No.: 1PUMPAFWTD12	
Equipment Class: (5) Horizontal Pumps	
Equipment Description: AUX FEED PUMP 12	
Project: CCNPP 1 SWEL	
Location (Bldg, Elev, Room/Area): TURB, 12.00 ft, CAL-AFWPR-603	
Manufacturer/Model:	
Instructions for Completing Checklist	
This checklist may be used to document the results of the Seismic Walkdown of an item of equipment o SWEL. The space below each of the following questions may be used to record the results of judgment 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 the 50%	Yes
of SWEL items requiring such verification)?	
2. Is the anchorage free of bent, broken, missing or loose hardware?	Yes
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	Yes
	100
·	
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Yes
5. Is the anchorage configuration consistent with plant documentation? (Note:	Yes
This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)	
Anchorage is consistent with drawings 60207, 61595 and 61624.	
6 Pond on the above anaborane evolutions is the anaborane free of	Vee
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	Yes

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ATTACHMENT 3

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WALKDOWN CHECKLISTS

	nic Walkdown Checklist (SWC)	
	Equipment ID No.: 1PUMPAFWTD12	
	Equipment Class: (5) Horizontal Pumps	
	Equipment Description: AUX FEED PUMP 12	<u>, , , , , , , , , , , , , , , , , , , </u>
7.	Are soft targets free from impact by nearby equipment or structures?	
8.	Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Overhead light, if not 2/1, may strike sensitive equipment. 10/3/12 - Overhead lights were deemed not a credible seismic concern due to	
9.	their lightweight and to typical construction practices. Also, they have been previously evaluated by CCNPP and found seismically acceptable. Do attached lines have adequate flexibility to avoid damage?	
	Lines attached to equipment consist of flex conduit and flexible tubing, both having adequate flexibility, therefore no seismic concern.	
10.		
	Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	
	Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	
Other 11.	Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	
Other 11.	 Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? <u>r Adverse Conditions</u> Have you looked for and found no adverse seismic conditions that could adversely affect the safety functions of the equipment? 	11/09/2012

Photos

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Seismic Walkdown Checklist (SWC)

Status: Y N U

Equipment ID No.:	1PUMPAFWTD12
Equipment Class:	(5) Horizontal Pumps
	ALLY EEED DUMP 12



1PUMPAFWTD12 8-10-12 003



Seismic Walkdown Checklist (SWC)

Status: Y N U

Equipment ID No.:	1PUMPAFWTD12	
Equipment Class:	(5) Horizontal Pumps	
Equipment Description:	AUX FEED PUMP 12	

1PUMPAFWTD12 8-10-12 005

Seismic Walkdown Checklist (SWC)

Equipment ID No.:	1PUMPAFWTD12
Equipment Class:	(5) Horizontal Pumps
Equipment Description:	AUX FEED PUMP 12





Status: Y N U

1PUMPAFWTD12 8-10-12 008



1PUMPAFWTD12 8-10-12 010

1PUMPAFWTD12 8-10-12 007



Seismic Walkdown Checklist (SWC)

Equipment ID No.:	1PUMPAFWTD12
Equipment Class:	(5) Horizontal Pumps
Equipment Description:	AUX FEED PUMP 12





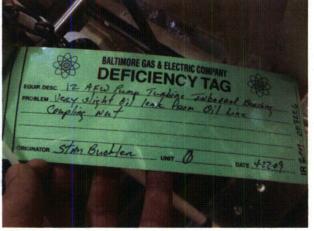
Status: Y N U

1PUMPAFWTD12 8-10-12 012

1PUMPAFWTD12 8-10-12 011



1PUMPAFWTD12 8-10-12 013



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Status: Y Seismic Walkdown Checklist (SWC)	NU
Equipment ID No.: 1PUMPCC12	
Equipment Class: (5) Horizontal Pumps	.
Equipment Description: 12 COMPONENT COOLING PUMP	
Project: CCNPP 1 SWEL	
Location (Bldg, Elev, Room/Area): AUX, 5.00 ft, CAL-AB-228	
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 a 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 the 50%	Yes
of SWEL items requiring such verification)?	
2. Is the anchorage free of bent, broken, missing or loose hardware?	Yes
2. Is the anchorage nee of bent, bloken, missing of loose hardware:	103
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	Yes
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Yes
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	Yes
configuration verification is required.)	
Anchorage is consistent with drawings FSK-C-92 and FSK-C-184.	
6. Based on the above anchorage evaluations, is the anchorage free of	Yes
potentially adverse seismic conditions?	

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ATTACHMENT 3

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WALKDOWN CHECKLISTS

Saiamia Walkday	own Checklist (SWC)	Status: Y N U
Equip	oment ID No.: 1PUMPCC12	
Equip	pment Class: (5) Horizontal Pumps	
	t Description: 12 COMPONENT COOLING PUMP	
7. Are soft to	targets free from impact by nearby equipment or structures?	Yes
	vall shielding adjacent to pump is judged well supported and therefore Ily adequate.	
	head equipment, distribution systems, ceiling tiles and lighting, and block walls not likely to collapse onto the equipment?	Yes
9. Do attach	hed lines have adequate flexibility to avoid damage?	Yes
	n the above seismic interaction evaluations, is equipment free of ly adverse seismic interaction effects?	Yes
Other Adverse C	Conditions	
11. Have you looked for and found no adverse seismic conditions that could Yes adversely affect the safety functions of the equipment?		
Comments		
Evaluated by:	A. Karavoussianis Date: 11	1/09/2012
	C. Figliolini 11	//09/2012
Photos		

Seismic Walkdown Checklist (SWC)

Equipment ID No.:	1PUMPCC12	
Equipment Class:	(5) Horizontal Pumps	

Equipment Description: 12 COMPONENT COOLING PUMP

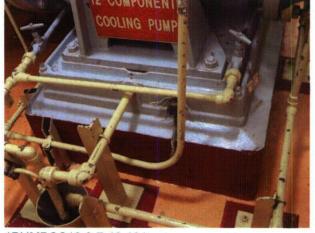


1PUMPCC12 8-7-12 179



Status: Y N U

1PUMPCC12 8-7-12 180



1PUMPCC12 8-7-12 181



1PUMPCC12 8-7-12 182

Seismic Walkdown Checklist (SWC)

Equipment ID No .:	1PUMPCC12
Equipment Class:	(5) Horizontal Pumps
Equipment Description:	12 COMPONENT COOLING PUMP



1PUMPCC12 8-7-12 183



1PUMPCC12 8-7-12 184

Seismic Walkdown Checklist (SWC)

Equipment ID No.:	1PUMPCC12
Equipment Class:	(5) Horizontal Pumps

Equipment Description: 12 COMPONENT COOLING PUMP





1PUMPCC12 8-7-12 186

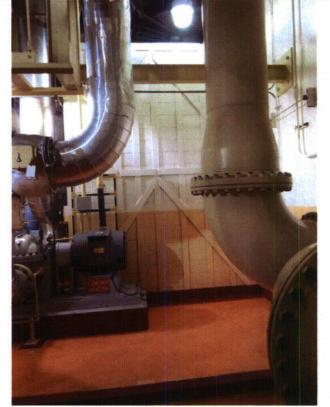
1PUMPCC12 8-7-12 185

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 1PUMPCC12

Equipment Class: (5) Horizontal Pumps

Equipment Description: 12 COMPONENT COOLING PUMP



1PUMPCC12 8-7-12 187