Seismic Walkdown Checklist (SWC)	Status: Y N U
Equipment ID No.: 1MOV4142OP	
Equipment Class: (8) Motor-Operated and Solenoid-Operated Valve	
Equipment Description: REFUELING WATER TANK DISCHARGE	
Project: CCNPP 1 SWEL	
Location (Bldg, Elev, Room/Area): AUX, 45.00 ft, CAL-AB-439	
Manufacturer/Model:	
Instructions for Completing Checklist	
This checklist may be used to document the results of the Seismic Walkdown of a SWEL. The space below each of the following questions may be used to record t findings. Additional space is provided at the end of this checklist for documenting	he results of judgments and
Anchorage	
 Is anchorage configuration verification required (i.e., is the item one of the of SWEL items requiring such verification)? 	e 50% No
2. Is the anchorage free of bent, broken, missing or loose hardware?	Not Applicable
3. Is the anchorage free of corrosion that is more than mild surface oxidation	n? Not Applicable
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Not Applicable
 Is the anchorage configuration consistent with plant documentation? (Note This question only applies if the item is one of the 50% for which an anchor configuration verification is required.) 	
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	Yes

Seism	ic Walkdown Checklis	t (SWC)	Status: Y N U		
Coloni			·		
	Equipment ID No.				
	• •	(8) Motor-Operated and Solenoid-Operated Valves			
	Equipment Description Are soft targets free f	REFUELING WATER TANK DISCHARGE om impact by nearby equipment or structures?	Yes		
,.	Are suit targets free f	om impact by hearby equipment of structures?	165		
8.		ent, distribution systems, ceiling tiles and lighting, and ot likely to collapse onto the equipment?	Yes		
9.	Do attached lines hav	e adequate flexibility to avoid damage?	Yes		
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?					
Other	Adverse Conditions				
11.	•	nd found no adverse seismic conditions that could afety functions of the equipment?	Yes		
Comm	<u>ients</u>				
Evalua	ited by: A. A.	A. Karavoussianis Date:			
		C. Figliolini	11/09/2012		
Photo	<u></u> <u>S</u>				

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 1MOV4142OP

Equipment Class: (8) Motor-Operated and Solenoid-Operated Valves

Equipment Description: REFUELING WATER TANK DISCHARGE





1MOV4142OP 8-13-12 269

1MOV4142OP 8-13-12 268

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 1MOV4142OP

Equipment Class: (8) Motor-Operated and Solenoid-Operated Valves

Equipment Description: REFUELING WATER TANK DISCHARGE



1MOV4142OP 8-13-12 271



1MOV4142OP 8-13-12 273



1MOV4142OP 8-13-12 272

Seismic Walkdown Checklist (S	WC)	Status: Y N U
Equipment ID No.: 1	MOV4516	
Equipment Class: (8	3) Motor-Operated and Solenoid-Operated Valves	
Equipment Description: 1	1 SG FW ISOL	
Project	CCNPP 1 SWEL	
Location (Bldg, Elev, Room/Area):	AUX, 27.00 ft, CAL-AB-315	
Manufacturer/Model:		
SWEL. The space below each of	ecklist ument the results of the Seismic Walkdown of an item of e the following questions may be used to record the results ded at the end of this checklist for documenting other com	of judgments and
<u>Anchorage</u>		
 Is anchorage configuration of SWEL items requiring s 	n verification required (i.e., is the item one of the 50% such verification)?	No
2. Is the anchorage free of b	ent, broken, missing or loose hardware?	Not Applicable
3. Is the anchorage free of c	orrosion that is more than mild surface oxidation?	Not Applicable
4. Is the anchorage free of vi	isible cracks in the concrete near the anchors?	Not Applicable
	ation consistent with plant documentation? (Note: if the item is one of the 50% for which an anchorage s required.)	Not Applicable
Based on the above anche potentially adverse seismi	orage evaluations, is the anchorage free of c conditions?	Yes

Seismic Walkdown Checklist (SWC)					
Equipment ID No.: 1MOV4516					
Equipment Class: (8) Motor-Operated and Solenoid-Operated Valves					
Equipment Description: 11 SG FW ISOL 7. Are soft targets free from impact by nearby equipment or structures?	es				
7. Are soit targets free from impact by hearby equipment of structures?	. 				
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	es/es				
9. Do attached lines have adequate flexibility to avoid damage?	⁄es				
There is a conduit is touching the operator. The conduit is supported on a unistrut frame that is anchored to the ceiling above and floor below. The differential motion between the ceiling and floor and the valve movement are minimal, therefore this condition is judged acceptable.					
Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	es /es				
Other Adverse Conditions					
11. Have you looked for and found no adverse seismic conditions that could adversely affect the safety functions of the equipment?	⁄es				
Comments					
Evaluated by: A. Karavoussianis Date: 11/09/2012					
C. Figliolini 11/09/2012					
Photos Photos					

Status: Y N U

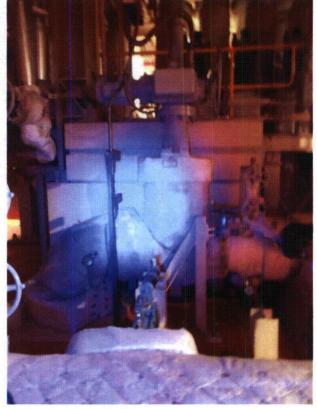
Seismic Walkdown Checklist (SWC)

Equipment ID No.: 1MOV4516

Equipment Class: (8) Motor-Operated and Solenoid-Operated Valves



1MOV4516 8-8-12 001



1MOV4516 8-8-12 002

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 1MOV4516

Equipment Class: (8) Motor-Operated and Solenoid-Operated Valves



1MOV4516 8-8-12 003



1MOV4516 8-8-12 004

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 1MOV4516

Equipment Class: (8) Motor-Operated and Solenoid-Operated Valves



1MOV4516 8-8-12 005



1MOV4516 8-8-12 006



1MOV4516 8-8-12 007



1MOV4516 8-8-12 018

WALKDOWN CHECKLISTS

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 1MOV4516

Equipment Class: (8) Motor-Operated and Solenoid-Operated Valves



1MOV4516 8-8-12 019



1MOV4516 8-8-12 021



1MOV4516 8-8-12 020

Seismic Walkdown Checklist (SV	NC)	Status: Y N U
Equipment ID No.: 1N		
) Motor-Operated and Solenoid-Operated Valves	
· · · ———	SG FW ISOL	
Project:	CCNPP 1 SWEL	
Location (Bldg, Elev, Room/Area):	AUX, 27.00 ft, CAL-AB-315	
Manufacturer/Model:		
Instructions for Completing Che	cklist	
SWEL. The space below each of t	ument the results of the Seismic Walkdown of an item of the following questions may be used to record the results ded at the end of this checklist for documenting other con	of judgments and
<u>Anchorage</u>		
 Is anchorage configuration of SWEL items requiring something something 	verification required (i.e., is the item one of the 50% uch verification)?	No
2. Is the anchorage free of be	ent, broken, missing or loose hardware?	Not Applicable
3. Is the anchorage free of co	orrosion that is more than mild surface oxidation?	Not Applicable
4. Is the anchorage free of vi	sible cracks in the concrete near the anchors?	Not Applicable
	ation consistent with plant documentation? (Note: if the item is one of the 50% for which an anchorage required.)	Not Applicable
Based on the above anchoronte potentially adverse seismic	orage evaluations, is the anchorage free of c conditions?	Yes

Seismic Walkdown Checkli	et (SWC)	Status: Y N U
Equipment ID No	: 1MOV4517	
• •	: (8) Motor-Operated and Solenoid-Operated Valves	
Equipment Description	12 SG FW ISOL	
7. Are soft targets free	rom impact by nearby equipment or structures?	Yes
	ent, distribution systems, ceiling tiles and lighting, and not likely to collapse onto the equipment?	Yes
9. Do attached lines ha	re adequate flexibility to avoid damage?	Yes
displacement is judg the condition is not a There is conduit sup box. Minor scrapes (nort unistrut frame in contact with valve body's insulation on the unistrut frame were observed. The frame has and the valve piping is supported nearby, therefore not a	
10. Based on the above	seismic interaction evaluations, is equipment free of eismic interaction effects?	Yes
Other Adverse Conditions		
•	and found no adverse seismic conditions that could afety functions of the equipment?	Yes
<u>Comments</u>		
Evaluated by:	A. Karavoussianis Date	11/09/2012
	C. Figliolini	11/09/2012

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 1MOV4517

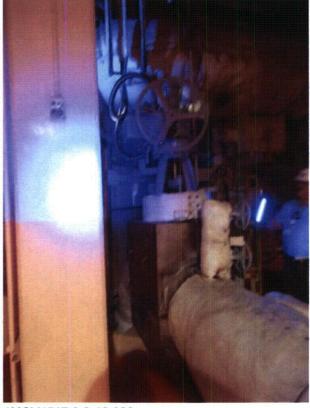
Equipment Class: (8) Motor-Operated and Solenoid-Operated Valves

Equipment Description: 12 SG FW ISOL

Photos



1MOV4517 8-8-12 008



1MOV4517 8-8-12 009

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 1MOV4517

Equipment Class: (8) Motor-Operated and Solenoid-Operated Valves



1MOV4517 8-8-12 010



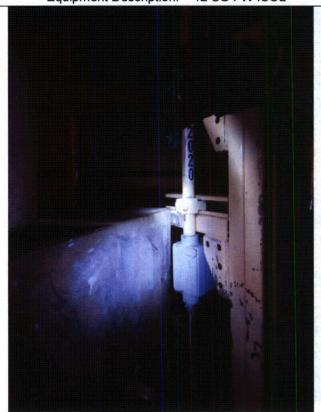
1MOV4517 8-8-12 011

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 1MOV4517

Equipment Class: (8) Motor-Operated and Solenoid-Operated Valves







1MOV4517 8-8-12 013

WALKDOWN CHECKLISTS

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 1MOV4517

Equipment Class: (8) Motor-Operated and Solenoid-Operated Valves

Equipment Description:

12 SG FW ISOL



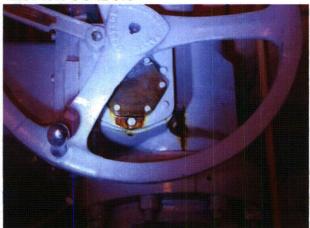
1MOV4517 8-8-12 014



1MOV4517 8-8-12 016



1MOV4517 8-8-12 015



1MOV4517 8-8-12 017

Status: Y N U

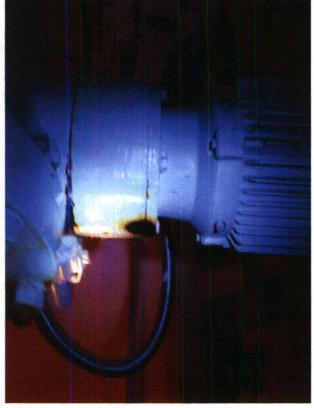
Seismic Walkdown Checklist (SWC)

Equipment ID No.: 1MOV4517

Equipment Class: (8) Motor-Operated and Solenoid-Operated Valves



1MOV4517 8-8-12 022



1MOV4517 8-8-12 023

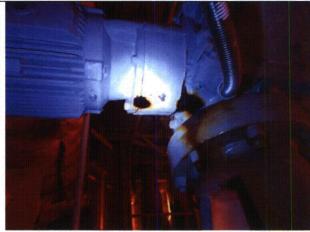
WALKDOWN CHECKLISTS

Status: Y N U

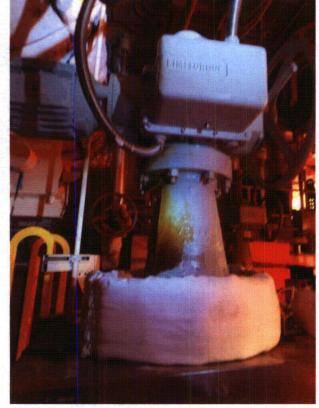
Seismic Walkdown Checklist (SWC)

Equipment ID No.: 1MOV4517

Equipment Class: (8) Motor-Operated and Solenoid-Operated Valves



1MOV4517 8-8-12 024



1MOV4517 8-8-12 025

WALKDOWN CHECKLISTS

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 1MOV4517

Equipment Class: (8) Motor-Operated and Solenoid-Operated Valves



1MOV4517 8-8-12 026



1MOV4517 8-8-12 027

Seismic Walkdown Checklist	(SWC)	Status: Y N U
Equipment ID No.:	1MOV508	
	(8) Motor-Operated and Solenoid-Operated Valves	
Equipment Description:	12 BAST GRAVITY FD	
Proje	ect: CCNPP 1 SWEL	
Location (Bldg, Elev, Room/Are	ea): AUX, 5.00 ft, CAL-AB-217	
Manufacturer/Mod	del:	
SWEL. The space below each	Checklist 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 configura of SWEL items requirin 	tion verification required (i.e., is the item one of the 50% ag such verification)?	No
2. Is the anchorage free o	of bent, broken, missing or loose hardware?	Yes
3. Is the anchorage free o	of corrosion that is more than mild surface oxidation?	Yes
4. Is the anchorage free o	of visible cracks in the concrete near the anchors?	Not Applicable
	guration consistent with plant documentation? (Note: lies if the item is one of the 50% for which an anchorage on is required.)	Not Applicable
potentially adverse seis	nchorage evaluations, is the anchorage free of smic conditions? ator are supported in all directions.	Yes

Saicmi	io Walkdown Chacklist	(SWC)			Status: Y] N U
Seism	ic Walkdown Checklist					
	Equipment ID No.:					
	Equipment Class:		rated and Solenoid-Opera	ated Valves		
	Equipment Description:	12 BAST GRA				
7.	Are soft targets free fro	m impact by nea	arby equipment or structu	res?		Yes
8.	masonry block walls no Tools were left on bea	ot likely to collaps am and temperas , but judged not	ystems, ceiling tiles and li se onto the equipment? ture controller, not a good an adverse seismic cond ly.	d		Yes
9.	9. Do attached lines have adequate flexibility to avoid damage? Yes					
10.	Based on the above se potentially adverse sein		n evaluations, is equipme effects?	nt free of		Yes
<u>Other</u>	Adverse Conditions					
11.	Have you looked for ar adversely affect the sa		erse seismic conditions th the equipment?	at could		Yes
Comm	ents					
	as been performed in th	is area.				
Evalua	ted by: A. land	avounium fet	A. Karavoussianis	Date:	11/09/2012	
	_//		C. Figliolini		11/09/2012	
Photos	<u> </u>				· -	

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 1MOV508

Equipment Class: (8) Motor-Operated and Solenoid-Operated Valves

Equipment Description: 12 BAST GRAVITY FD



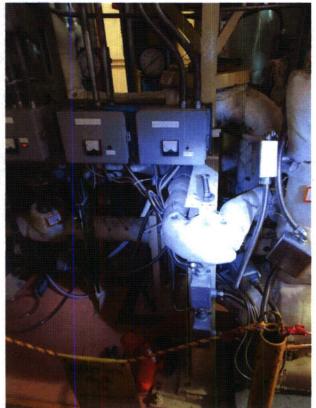
1MOV508 8-6-12 012



1MOV508 8-6-12 014



1MOV508 8-6-12 013



1MOV508 8-6-12 015

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 1MOV508

Equipment Class: (8) Motor-Operated and Solenoid-Operated Valves

Equipment Description: 12 BAST GRAVITY FD



1MOV508 8-6-12 016



1MOV508 8-6-12 018



1MOV508 8-6-12 017



1MOV508 8-6-12 019

Status: Y N U

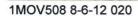
Seismic Walkdown Checklist (SWC)

Equipment ID No.: 1MOV508

Equipment Class: (8) Motor-Operated and Solenoid-Operated Valves

Equipment Description: 12 BAST GRAVITY FD







1MOV508 8-6-12 021

	Status: Y N U
Seismic Walkdown Checklist (SWC)	
Equipment ID No.: 1MOV509	
Equipment Class: (8) Motor-Operated and Solenoid-Operated Valves	
Equipment Description: 11 BAST GRAVITY FD	-
Project: CCNPP 1 SWEL	
Location (Bldg, Elev, Room/Area): AUX, 5.00 ft, CAL-AB-217	
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 of 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)? 	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?	Not Applicable
 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
Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Valve and operator are supported in all directions.	Yes

Seismi	c Walkdown Check	list (SWC)			Status: Y	I U
	Equipment ID N					
		-	erated and Solenoid-Ope	erated Valves		
				erated valves		
	Equipment Description Are soft targets free		earby equipment or struc	ctures?		Yes
	7 n o o o o o o o o o o o o o o o o o o	,	, oquip			
8.	· ·		systems, ceiling tiles and pse onto the equipment?			Yes
9.	Do attached lines h	ave adequate flexi	ibility 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 adversely affect the		verse seismic conditions of the equipment?	that could		Yes
Comm	ents					
Evaluat	ted by:	anounim.	A. Karavoussianis	Date: _	11/09/2012	
	/ (C. Figliolini		11/09/2012	
Photos						

Status: Y N U

Seismic Walkdown Checklist (SWC)

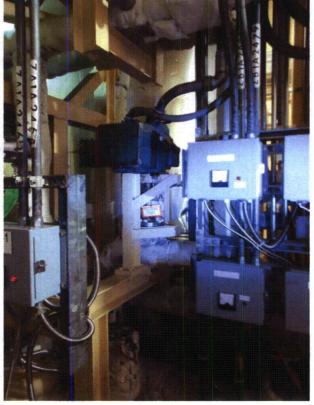
Equipment ID No.: 1MOV509

Equipment Class: (8) Motor-Operated and Solenoid-Operated Valves

Equipment Description: 11 BAST GRAVITY FD



1MOV509 8-6-12 022



1MOV509 8-6-12 023

WALKDOWN CHECKLISTS

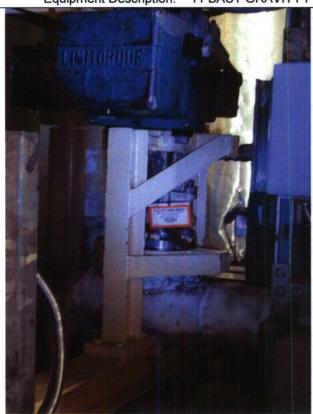
Status: Y N U

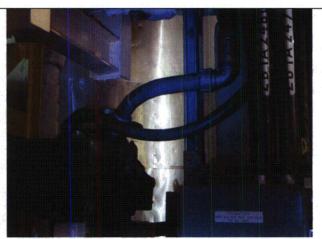
Seismic Walkdown Checklist (SWC)

Equipment ID No.: 1MOV509

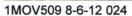
Equipment Class: (8) Motor-Operated and Solenoid-Operated Valves

Equipment Description: 11 BAST GRAVITY FD





1MOV509 8-6-12 026





1MOV509 8-6-12 027



1MOV509 8-6-12 028

WALKDOWN CHECKLISTS

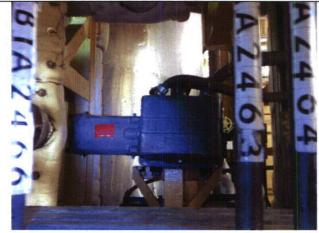
Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 1MOV509

Equipment Class: (8) Motor-Operated and Solenoid-Operated Valves

Equipment Description: 11 BAST GRAVITY FD



1MOV509 8-6-12 029

Seismic Walkdown Checklist	t (SWC)	Status: Y N U
Equipment ID No.:		
	(8) Motor-Operated and Solenoid-Operated Valves	
Equipment Description:	BAPP TO CHG PP SUCT DIREC	
Proj		
•	ea): AUX, 5.00 ft, CAL-AB-217	
Manufacturer/Mo	del:	
Instructions for Completing	Checklist	
SWEL. The space below each	document the results of the Seismic Walkdown of an item of a of the following questions may be used to record the results rovided at the end of this checklist for documenting other con	of judgments and
<u>Anchorage</u>		
 Is anchorage configura of SWEL items requirir 	ation verification required (i.e., is the item one of the 50% ng such verification)?	No
2. Is the anchorage free o	of bent, broken, missing or loose hardware?	Yes
3. Is the anchorage free of	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
potentially adverse sei Valve body and opera	nchorage evaluations, is the anchorage free of smic conditions? ator are laterally supported on the wall and the pipe is by, therefore not a seismic concern.	Yes

Seismic Walkdow	n Chacklist	(SWC)		•		Status:	NU
	ent ID No.:						
			rated and Soleno		lves		
Equipment D			G PP SUCT DIRE			-	
/. Are soπ tar	gets tree tro	m impact by ne	arby equipment o	or structures?			Yes
			systems, ceiling ti use onto the equip		and		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 Co	nditions						
11. Have you lo	ooked for an		erse seismic cond the equipment?	ditions that could	d		Yes
Comments							
Evaluated by:	A. lan	Juli	A. Karavous	sianis	_ Date:	11/09/2012	
	//		C. Figliolini		_	11/09/2012	
<u>Photos</u>							

Status: Y N U

Seismic Walkdown Checklist (SWC)

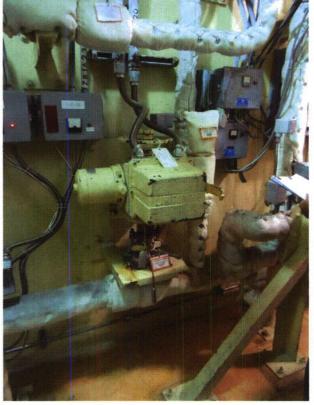
Equipment ID No.: 1MOV514

Equipment Class: (8) Motor-Operated and Solenoid-Operated Valves

Equipment Description: BAPP TO CHG PP SUCT DIREC



1MOV514 8-6-12 001



1MOV514 8-6-12 002

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 1MOV514

Equipment Class: (8) Motor-Operated and Solenoid-Operated Valves

Equipment Description: BAPP TO CHG PP SUCT DIREC







1MOV514 8-6-12 004

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 1MOV514

Equipment Class: (8) Motor-Operated and Solenoid-Operated Valves

Equipment Description: BAPP TO CHG PP SUCT DIREC





1MOV514 8-6-12 006

1MOV514 8-6-12 005

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 1MOV514

Equipment Class: (8) Motor-Operated and Solenoid-Operated Valves

Equipment Description: BAPP TO CHG PP SUCT DIREC



1MOV514 8-6-12 007



1MOV514 8-6-12 008

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 1MOV514

Equipment Class: (8) Motor-Operated and Solenoid-Operated Valves

Equipment Description: BAPP TO CHG PP SUCT DIREC



1MOV514 8-6-12 010

Seismic Walkdown Checklist (SWC)	Status: Y N U
Equipment ID No.: 1MOV615	
Equipment Class: (8) Motor-Operated and Solenoid-Operated Valves	
Equipment Description: 11A LPSI LOOP ISOL	
Project: CCNPP 1 SWEL	
Location (Bldg, Elev, Room/Area): AUX, 5.00 ft, CAL-AB-227	
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 complete.	of 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?	Not Applicable
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	Not Applicable
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Not Applicable
 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

Seism	ic Walkdown Checklis	(SWC)	Status: Y N U				
	Equipment ID No.:						
		(8) Motor-Operated and Solenoid-Operated Valves					
	Equipment Description:	11A LPSI LOOP ISOL					
		m impact by nearby equipment or structures?	Yes				
	The valve motor is approximately 1/2" from pipe insulation jacket and an insulation box is resting on pipe support, both condition are judged not to be a seismic concern.						
8.		nt, distribution systems, ceiling tiles and lighting, and of likely to collapse onto the equipment?	Yes				
9.	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?						
Other	Adverse Conditions						
11.	•	d found no adverse seismic conditions that could rety functions of the equipment?	Yes				
Comm	ients						
Evalua	nted by: A. Land	A. Karavoussianis Dat	e: 11/09/2012				
·		C. Figliolini	11/09/2012				
Photo	<u> </u>						

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 1MOV615

Equipment Class: (8) Motor-Operated and Solenoid-Operated Valves



1MOV615 8-7-12 199



1MOV615 8-7-12 200

WALKDOWN CHECKLISTS

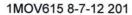
Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 1MOV615

Equipment Class: (8) Motor-Operated and Solenoid-Operated Valves







1MOV615 8-7-12 202

WALKDOWN CHECKLISTS

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 1MOV615

Equipment Class: (8) Motor-Operated and Solenoid-Operated Valves



1MOV615 8-7-12 203



1MOV615 8-7-12 204

WALKDOWN CHECKLISTS

Status: Y N U

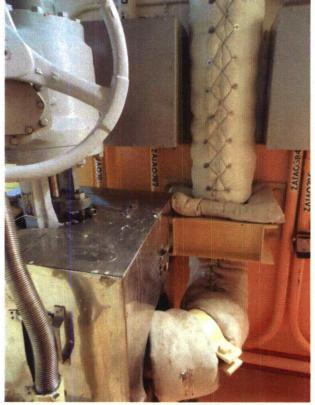
Seismic Walkdown Checklist (SWC)

Equipment ID No.: 1MOV615

Equipment Class: (8) Motor-Operated and Solenoid-Operated Valves



1MOV615 8-7-12 205



1MOV615 8-7-12 206

Seismic Walkdown Checklist (S	SWC)	Status: Y N U
Equipment ID No.: 1		
-	8) Motor-Operated and Solenoid-Operated Valves	
· · ·	11B LPSI LOOP ISOL	
Project		
Location (Bldg, Elev, Room/Area)	: AUX, 5.00 ft, CAL-AB-227	
Manufacturer/Model	:	
Instructions for Completing Ch	ecklist	
SWEL. The space below each of	cument the results of the Seismic Walkdown of an item of the following questions may be used to record the results rided at the end of this checklist for documenting other co	s of judgments and
Anchorage		
 Is anchorage configuration of SWEL items requiring: 	on verification required (i.e., is the item one of the 50% such verification)?	No
2. Is the anchorage free of b	pent, broken, missing or loose hardware?	Not Applicable
3. Is the anchorage free of o	corrosion that is more than mild surface oxidation?	Not Applicable
4. Is the anchorage free of v	visible cracks in the concrete near the anchors?	Not Applicable
•	ration consistent with plant documentation? (Note: s if the item is one of the 50% for which an anchorage is required.)	Not Applicable
Based on the above anch potentially adverse seism	norage evaluations, is the anchorage free of ic conditions?	Yes

Seism	ic Walkdown Checkli	st (SWC)	Status: Y N U		
	Equipment ID No				
	• •	(8) Motor-Operated and Solenoid-Operated Valves			
	Equipment Description				
		om impact by nearby equipment or structures?	Yes		
	The valve box insul- concern.	ntion jacket is 1/4" from support, judged not a seismic			
8.		ent, distribution systems, ceiling tiles and lighting, and not likely to collapse onto the equipment?	Yes		
9.	Do attached lines ha	re adequate flexibility to avoid damage?	Yes		
10.	Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?				
Other	Adverse Conditions				
	Have you looked for	and found no adverse seismic conditions that could afety functions of the equipment?	Yes		
Comm	nents				
Evalua	ited by: A. M.	A. Karavoussianis Date:	11/09/2012		
		C. Figliolini	11/09/2012		
Photo	<u>s</u>				

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 1MOV625

Equipment Class: (8) Motor-Operated and Solenoid-Operated Valves



1MOV625 8-7-12 208



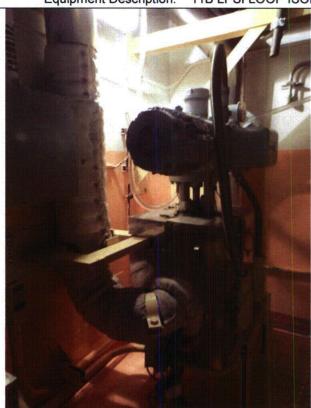
1MOV625 8-7-12 209

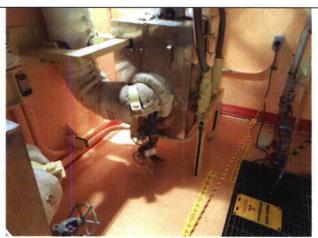
Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 1MOV625

Equipment Class: (8) Motor-Operated and Solenoid-Operated Valves





1MOV625 8-7-12 211

1MOV625 8-7-12 210

Seismic Walkdown Checklist (SWC)	Status: Y N U
Equipment ID No.: 1MOV627	
Equipment Class: (8) Motor-Operated and Solenoid-Operated Valves	
Equipment Description: 11B AUX HPSI LOOP ISOL	·
Project: CCNPP 1 SWEL	
Location (Bldg, Elev, Room/Area): AUX, 27.00 ft, CAL-AB-316	
Manufacturer/Model:	
Instructions for Completing Checklist This checklist may be used to document the results of the Seismic Walkdown of an item of ed 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 comments.	of 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?	Not Applicable
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	Not Applicable
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Not Applicable
 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

Seism	ic Walkdown Checklis	t (SWC)	Status: Y N U			
	Equipment ID No.:					
	• •	(8) Motor-Operated and Solenoid-Operated Valves				
						
7.	Equipment Description: Are soft targets free free.	11B AUX HPSI LOOP ISOL om impact by nearby equipment or structures?	Yes			
	The valve's piping is The pipe is supported valve, pipe and suppo seismic concern.	below the grating and valve projects through the grating. near the valve. Differential movement between the rt steel is judged to be negligible, therefore there is no				
8.		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			
10.	Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?					
Other	Adverse Conditions					
11.	Have you looked for a	nd found no adverse seismic conditions that could fety functions of the equipment?	Yes			
Comm	<u>ients</u>					
Evalua	nted by: 1. Land	A. Karavoussianis Date: 11	1/09/2012			
		C. Figliolini 11	1/09/2012			
Photo						

Status: Y N U

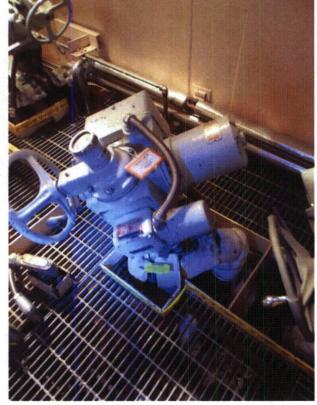
Seismic Walkdown Checklist (SWC)

Equipment ID No.: 1MOV627

Equipment Class: (8) Motor-Operated and Solenoid-Operated Valves



1MOV627 8-8-12 055



1MOV627 8-8-12 056

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 1MOV627

Equipment Class: (8) Motor-Operated and Solenoid-Operated Valves



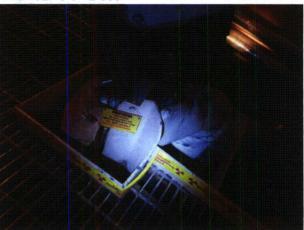
1MOV627 8-8-12 057



1MOV627 8-8-12 058



1MOV627 8-8-12 059



1MOV627 8-8-12 061

Status: Y N U

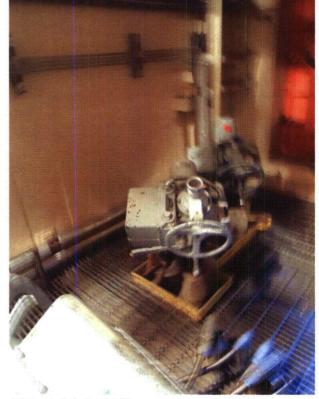
Seismic Walkdown Checklist (SWC)

Equipment ID No.: 1MOV627

Equipment Class: (8) Motor-Operated and Solenoid-Operated Valves



1MOV627 8-8-12 062



Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 1MOV627

Equipment Class: (8) Motor-Operated and Solenoid-Operated Valves



1MOV627 8-8-12 064

WALKDOWN CHECKLISTS

Status: Y N U Seismic Walkdown Checklist (SWC) Equipment ID No.: 1NB102 Equipment Class: (20) Instrumentation and Control Panels and Cabinets Equipment Description: CNTMT COOL FAN 11 CONTROLLER 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** 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 4. Is the anchorage free of visible cracks in the concrete near the anchors? Not Applicable 5. Is the anchorage configuration consistent with plant documentation? (Note: No This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) The cabinet is bolted to C3 mounting channels along the rear and front of the cabinet. The channels are weld to embedded steel by 1/8" fillet welds. There are 1/2" long fillet welds at the corners along/against the wall and 3 - 1/2" weld along the back channel away from the wall, i.e. seen under the cabinet. Along the front of the cabinet there is a 3" long weld at 3 places. The anchorage is not consistent with calculation C-89-041. The calculation analyzed the cabinet as being anchored with 3 x 1/8" fillet welds (3" long on

each end and 5 1/2" in the middle) along the exterior of each mounting channel.

WALKDOWN CHECKLISTS

Status: Y N U Seismic Walkdown Checklist (SWC) Equipment ID No.: 1NB102 Equipment Class: (20) Instrumentation and Control Panels and Cabinets Equipment Description: CNTMT COOL FAN 11 CONTROLLER CR-2012-009703 Based on the above anchorage evaluations, is the anchorage free of No potentially adverse seismic conditions? **Interaction Effects** 7. Are soft targets free from impact by nearby equipment or structures? No There is a 1/16" gap between cabinet and wall at the top back of the cabinet. Evaluated this condition using 8Hz and 2% damping. The resulting displacement is 0.048", which is less than 0.0625", therefore the gap is acceptable. Using response spectrum AW045D2N.dat Sa = 0.2q $d = 1.6*0.2*386.4/(8*2pi)^2 = 0.048" < 0.0625$: OK. Also, there is a unistrut support for a fire protection panel that is in contact with the side of the cabinet. This condition will cause the cabinet and unistrut to bang up against each other, therefore it needs to be evaluated. CR-2012-009707 8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and Yes masonry block walls not likely to collapse onto the equipment? Do attached lines have adequate flexibility to avoid damage? Yes Yes 10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? **Other Adverse Conditions** 11. Have you looked for and found no adverse seismic conditions that could Νo adversely affect the safety functions of the equipment?

WALKDOWN CHECKLISTS

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 1NB102

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

Equipment Description: CNTMT COOL FAN 11 CONTROLLER

Cabinet is inaccessible for internal inspection.

Comments

Evaluated by:

A. Karavoussianis

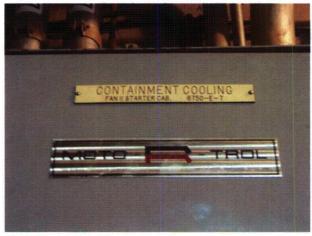
Date:

11/09/2012

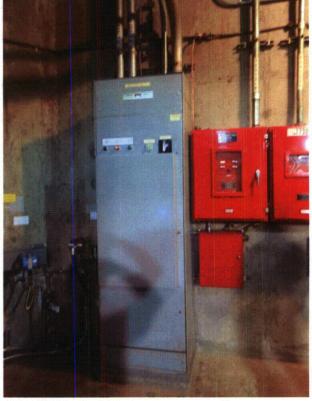
C. Figliolini

11/09/2012

Photos



1NB102 8-8-12 078



1NB102 8-8-12 079

WALKDOWN CHECKLISTS

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 1NB102

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

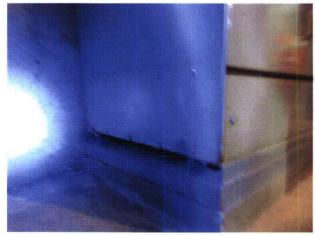
Equipment Description: CNTMT COOL FAN 11 CONTROLLER





1NB102 8-8-12 081





1NB102 8-8-12 082



1NB102 8-8-12 083

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 1NB102

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

Equipment Description: CNTMT COOL FAN 11 CONTROLLER



1NB102 8-8-12 084



1NB102 8-8-12 085

WALKDOWN CHECKLISTS

Status: Y N U

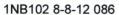
Seismic Walkdown Checklist (SWC)

Equipment ID No.: 1NB102

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

Equipment Description: CNTMT COOL FAN 11 CONTROLLER







1NB102 8-8-12 087

WALKDOWN CHECKLISTS

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 1NB102

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

Equipment Description: CNTMT COOL FAN 11 CONTROLLER





1NB102 8-8-12 090

1NB102 8-8-12 088

Seismic Walkdown Checklist (SV	VC)	Status: Y N U
Equipment ID No.: 1P	·	
Equipment Class: (0)		
Equipment Description: A/S		
	CCNPP 1 SWEL	
Location (Bldg, Elev, Room/Area):		
Manufacturer/Model:		
Instructions for Completing Chec	cklist	
SWEL. The space below each of the	ment the results of the Seismic Walkdown of an item of education he following questions may be used to record the results of led at the end of this checklist for documenting other comm	of judgments and
Anchorage		
 Is anchorage configuration of SWEL items requiring su 	verification required (i.e., is the item one of the 50% uch verification)?	No
2. Is the anchorage free of be	ent, broken, missing or loose hardware?	Yes
3. Is the anchorage free of co	rrosion that is more than mild surface oxidation?	Yes
4. Is the anchorage free of vis	sible cracks in the concrete near the anchors?	Yes
	tion consistent with plant documentation? (Note: if the item is one of the 50% for which an anchorage required.)	Not Applicable
Based on the above ancho potentially adverse seismic	rage evaluations, is the anchorage free of conditions?	Yes

Seismic Walkdown Checklist	(SWC)	Status: Y N U			
Equipment ID No.:	1PCV3938A				
Equipment Class:					
Equipment Description:					
	m impact by nearby equipment or structures?	Yes			
	nt, distribution systems, ceiling tiles and lighting, and ot likely to collapse onto the equipment?	Yes			
	adequate flexibility to avoid damage?	Yes			
Tubing lines go from same wall, therefore a	component to component and/or are mounted on the component and/or are mounted on the				
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?					
Other Adverse Conditions					
11. Have you looked for ar	nd found no adverse seismic conditions that could fety functions of the equipment?	Yes			
Comments					
Evaluated by:	A. Karavoussianis Date: 11	/09/2012			
	C. Figliolini 11	/09/2012			
Photos		·			

WALKDOWN CHECKLISTS

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 1PCV3938A

Equipment Class: (0) Other



1PCV3938A 8-8-12 154



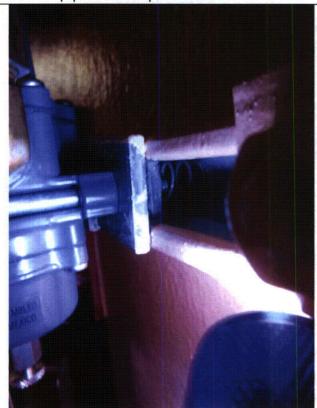
1PCV3938A 8-8-12 155

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 1PCV3938A

Equipment Class: (0) Other



1PCV3938A 8-8-12 157



1PCV3938A 8-8-12 158

WALKDOWN CHECKLISTS

Status: Y N U Seismic Walkdown Checklist (SWC) Equipment ID No.: 1PCV3939A Equipment Class: (0) Other Equipment Description: A/S TO 1I/P3939 Project: CCNPP 1 SWEL Location (Bldg, Elev, Room/Area): AUX, 45.00 ft, CAL-AB-428 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% 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 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: No This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) Mounted by 2-7/16 F-F bolts to unistrut along with PCV-3938A and I/A. Unistrut is 46" long and anchored by 3 - 1/2" (3/4" F-F) CEA to the concrete wall. Need plant documentation to determine if anchorage is consistent with field anchorage as described. CR-2012-009737 6. Based on the above anchorage evaluations, is the anchorage free of No potentially adverse seismic conditions?

Seismic Walkdown Ch	acklist	Statu	ıs: Y N U			
•	•	1PCV3939A				
Equipment (•					
	iption:	A/S TO 1I/P3939				
Interaction Effects 7. Are soft targets	free fro	m impact by nearby equipment or structures?	Yes			
		nt, distribution systems, ceiling tiles and lighting, and tilkely to collapse onto the equipment?	Yes			
9. Do attached line	s have	adequate flexibility to avoid damage?	Yes			
	Based on the above seismic interaction evaluations, is equipment free of yotentially adverse seismic interaction effects?					
Other Adverse Condition	ons					
11. Have you looked for and found no adverse seismic conditions that could adversely affect the safety functions of the equipment?						
Comments						
Evaluated by:	lan Marie	A. Karavoussianis Date: 11/09/20				
		C. Figliolini 11/09/20	12			
Photos						

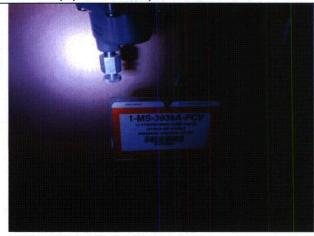
WALKDOWN CHECKLISTS

Status: Y N U

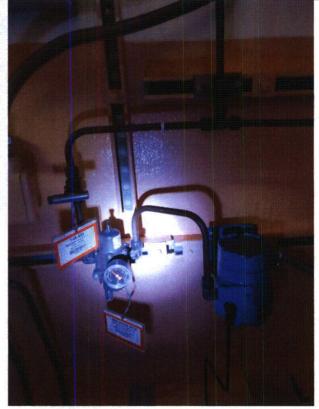
Seismic Walkdown Checklist (SWC)

Equipment ID No.: 1PCV3939A

Equipment Class: (0) Other



1PCV3939A 8-8-12 159



1PCV3939A 8-8-12 160

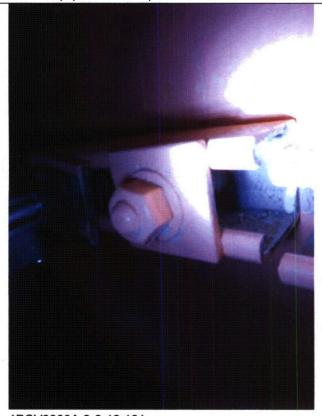
WALKDOWN CHECKLISTS

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 1PCV3939A

Equipment Class: (0) Other







1PCV3939A 8-8-12 162

WALKDOWN CHECKLISTS

Status: Y N U

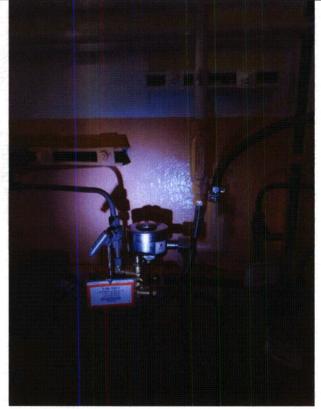
Seismic Walkdown Checklist (SWC)

Equipment ID No.: 1PCV3939A

Equipment Class: (0) Other



1PCV3939A 8-8-12 163



1PCV3939A 8-8-12 164

Seismic Walkdown Checklist (SWC)	Status: Y N U
Equipment ID No.: 1PCV3939B	
Equipment Class: (0) Other	
Equipment Description: A/S TO 1CV3939	
Project: CCNPP 1 SWEL	
Location (Bldg, Elev, Room/Area): AUX, 45.00 ft, CAL-AB-428	
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 of	of judgments and
findings. Additional space is provided at the end of this checklist for documenting other com	ments.
Anchorage 1. 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
 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

Saism	ic Walkdown Chec	kliet	(SWC)			Status: Y] N U
Seisiii							
	Equipment ID I						
	Equipment Cla						
	Equipment Descript		A/S TO 1CV393				
7.	Are soft targets fre	e fro	m impact by nearl	by equipment or struc	tures?		Yes
	Nearby masonry related and thus so			s RR on drawing A-25 Bulletin 80-11.	59, is safety-		
8.	· · · · · · · · · · · · · · · · · · ·		•	tems, ceiling tiles and onto the equipment?			Yes
9.	Do attached lines l	have	adequate flexibilit	y to avoid damage?			Yes
Based on the above seismic interaction evaluations, is equipment free of ye potentially adverse seismic interaction effects?						Yes	
Other	Adverse Condition	<u>s</u>					
					Yes		
Comm	ents						
Evalua	ted by:	la 1	arounimi-	A. Karavoussianis	Date:	11/09/2012	
		<u> </u>		C. Figliolini		11/09/2012	
Photos	<u> </u>						

WALKDOWN CHECKLISTS

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 1PCV3939B

Equipment Class: (0) Other



1PCV3939B 8-8-12 167



1PCV3939B 8-8-12 168

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 1PCV3939B

Equipment Class: (0) Other







1PCV3939B 8-8-12 170

WALKDOWN CHECKLISTS

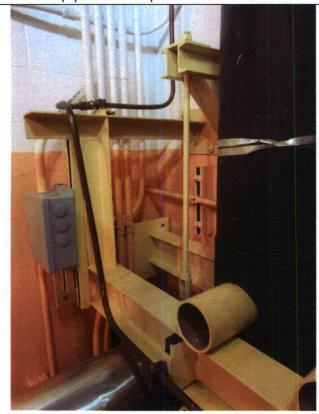
Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 1PCV3939B

Equipment Class: (0) Other

Equipment Description: A/S TO 1CV3939



1PCV3939B 8-8-12 171

WALKDOWN CHECKLISTS

Calama		(0)4(0)	Status: Y N U			
Seism	c Walkdown Checklist	(SWC)				
	Equipment ID No.:	1PNL1C08				
	Equipment Class:	(20) Instrumentation and Control Panels and Cabinets				
	Equipment Description:	ENGINEERING SAFEGUARDS CONTROL				
	Project: CCNPP 1 SWEL					
Location	n (Bldg, Elev, Room/Are	a): AUX, 45.00 ft, CAL-AB-405				
	Manufacturer/Mod	el:				
	tions for Completing C					
SWEL.	The space below each	ocument the results of the Seismic Walkdown of an item of e of the following questions may be used to record the results ovided at the end of this checklist for documenting other com	of judgments and			
Ancho						
1.	Is anchorage configurated of SWEL items requiring	tion verification required (i.e., is the item one of the 50% g such verification)?	Yes			
2.	Is the anchorage free o	f bent, broken, missing or loose hardware?	Yes			
3 .	Is the anchorage free o	f corrosion that is more than mild surface oxidation?	Yes			
4	Is the anchorage free o	f visible cracks in the concrete near the anchors?	Yes			
5 .	This question only application verification Anchorage used detail	uration consistent with plant documentation? (Note: ies if the item is one of the 50% for which an anchorage in is required.) Is that are not shown on the drawing, but are judged to built on drawing G1992 SH0004 Rev. 9. CR-2012-	No			
6.	Based on the above and potentially adverse seis. The anchorage detail anchorage, therefore the	deviations do not adversely affect the cabinet's ere is no potential seismic	Yes			
	concern. This is simple	a documentation issue.				

WALKDOWN CHECKLISTS

Seism	ic Walkdown Checklist (SWC)	Status: Y N U	
	Equipment ID No.: 1PNL1C08		
	Equipment Class: (20) Instrumentation and Control Panels and Cabinets		
	Equipment Description: ENGINEERING SAFEGUARDS CONTROL		
Interac	ction Effects		
7.	Are soft targets free from impact by nearby equipment or structures?	No	
	Metrological cabinet is in close proximity to the cabinets, tipping over may be a concern. The Met. Cabinet dimension are 24"x29"x58"H and estimated to weigh less than 200#. Based on NUREG CR 6865, Fig. VI.59 Using 1 Hz, 5% Damping and max. friction coefficient of 0.8. From AE045D5N – Sa=0.19g and AE045DEE – Sa=0.21g (use this) Dmax (tip over) = 0.15", Theta max = 0.04 Deg. Actual tipping angle, alpha = tan^-1 (12/39) = 17 Deg >> Theta max, therefore the Met. Cabinet will not tip over.		
8.	Craft back board may fall on back of panel or may strike strip recorder. Recommend moving it. CR-2012-008387 Are overhead equipment, distribution systems, ceiling tiles and lighting, and	Yes	
	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.		
	A masonry block wall, identified as Y on drawing A-259, is located behind the panels. This wall is safety-related and thus seismically rated per IE Bulletin 80-11.		
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	

WALKDOWN CHECKLISTS

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 1PNL1C08

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

Equipment Description: ENGINEERING SAFEGUARDS CONTROL

Evaluated by:

A. Karavoussianis

Date:

11/09/2012

C. Figliolini

11/09/2012

Photos



1PNL1C08 8-14-12 106



1PNL1C08 8-14-12 107



1PNL1C08 8-14-12 108



1PNL1C08 8-14-12 109

WALKDOWN CHECKLISTS

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 1PNL1C08

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



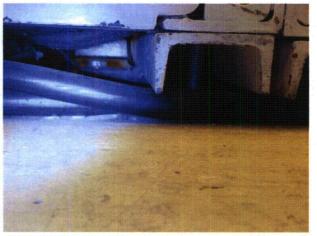
1PNL1C08 8-14-12 110



1PNL1C08 8-14-12 112



1PNL1C08 8-14-12 111



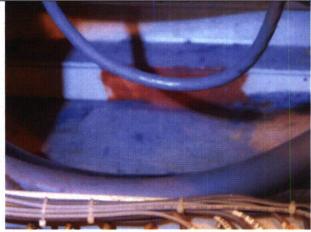
1PNL1C08 8-14-12 113

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 1PNL1C08

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



1PNL1C08 8-14-12 115



1PNL1C08 8-14-12 116

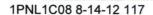
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Seismic Walkdown Checklist (SWC)

Equipment ID No.: 1PNL1C08

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







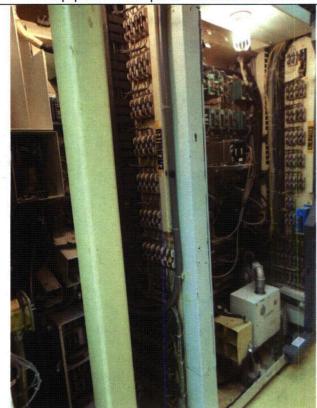
1PNL1C08 8-14-12 118

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 1PNL1C08

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



1PNL1C08 8-14-12 119



1PNL1C08 8-14-12 120

WALKDOWN CHECKLISTS

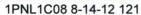
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Seismic Walkdown Checklist (SWC)

Equipment ID No.: 1PNL1C08

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







1PNL1C08 8-14-12 122

Status: Y N U

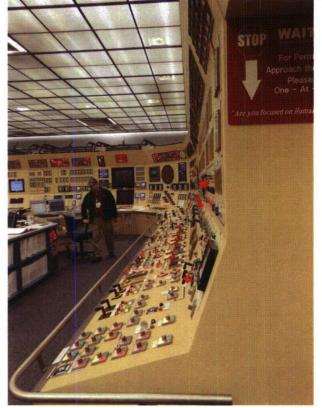
Seismic Walkdown Checklist (SWC)

Equipment ID No.: 1PNL1C08

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



1PNL1C08 8-14-12 123



1PNL1C08 8-14-12 124

Status: Y N U

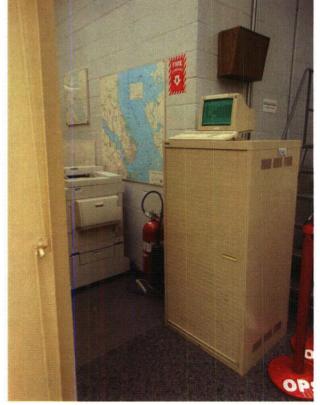
Seismic Walkdown Checklist (SWC)

Equipment ID No.: 1PNL1C08

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



1PNL1C08 8-14-12 126



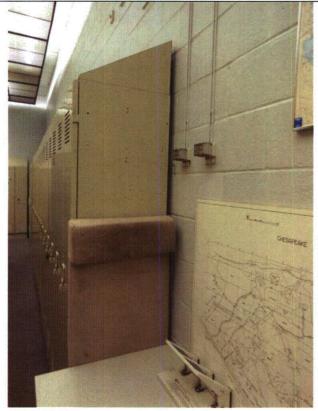
1PNL1C08 8-14-12 127

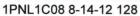
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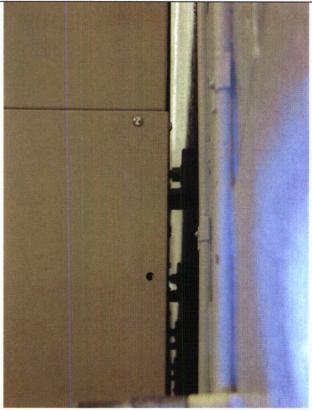
Seismic Walkdown Checklist (SWC)

Equipment ID No.: 1PNL1C08

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







1PNL1C08 8-14-12 129

WALKDOWN CHECKLISTS

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 1PNL1C08

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



1PNL1C08 8-14-12 130

WALKDOWN CHECKLISTS

Seismic Walkdown Checklist (SWC)	Status: Y N U				
Equipment ID No.: 1PNL1C09					
Equipment Class: (20) Instrumentation and Control Panels and Cabinets					
Equipment Description: ENGINEERING SAFEGUARDS CONTROL					
Project: CCNPP 1 SWEL					
Location (Bldg, Elev, Room/Area): AUX, 45.00 ft, CAL-AB-405					
Manufacturer/Model: Instructions for Completing Checklist					
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% 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				
 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				
Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	Yes				

WALKDOWN CHECKLISTS

Saiomia Walkdown Chacklin	(CIMC)	Status: Y N U			
Seismic Walkdown Checklist					
Equipment ID No.:					
	(20) Instrumentation and Control Panels and Cabinets				
Equipment Description:	ENGINEERING SAFEGUARDS CONTROL om impact by nearby equipment or structures?	No			
Metrological cabinet i a concern. The Met. c weigh less than 200#. Based on NUREG CR Using 1 Hz, 5% Damp. From AE045D5N – Sa Dmax (tip over) = 0.15	is in close proximity to the cabinets, tipping over may be abinet dimension are 24"x29"x58"H and estimated to 6865, Fig. VI.59 ing and max. friction coefficient of 0.8. =0.19g and AE045DEE - Sa=0.21g (use this) ", Theta max = 0.04 Deg. Ipha = tan^-1 (12/39) = 17 Deg >> Theta max, therefore	No			
Recommend moving it 8. Are overhead equipment masonry block walls not brop ceiling with light 10/3/12 - The control recommend	fall on back of panel or may strike strip recorder. CCR-2012-008387 ent, distribution systems, ceiling tiles and lighting, and ot likely to collapse onto the equipment? I diffusers, need details to determine seismic adequacy. Soom ceiling has been previously evaluated by CCNPP on to be a credible seismic concern.	Yes			
	identified as Y on drawing A-259, is located behind the fety-related and thus seismically rated per IE Bulletin				
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	·	<u>, , , , , , , , , , , , , , , , , , , </u>			
11. Have you looked for a	nd found no adverse seismic conditions that could fety functions of the equipment?	Yes			
Comments					

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 1PNL1C09

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

Equipment Description: ENGINEERING SAFEGUARDS CONTROL

Evaluated by:

A. Karavoussianis

Date:

11/09/2012

C. Figliolini

11/09/2012

Photos



1PNL1C09 8-14-12 106



1PNL1C09 8-14-12 107



1PNL1C09 8-14-12 108



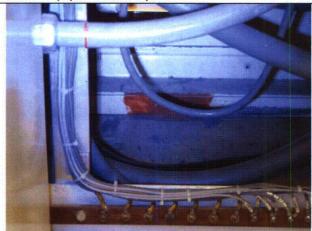
1PNL1C09 8-14-12 109

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 1PNL1C09

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



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1PNL1C09 8-14-12 112



1PNL1C09 8-14-12 111



1PNL1C09 8-14-12 113

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 1PNL1C09

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



1PNL1C09 8-14-12 116



1PNL1C09 8-14-12 117

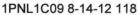
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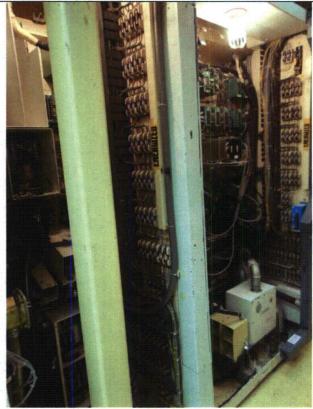
Seismic Walkdown Checklist (SWC)

Equipment ID No.: 1PNL1C09

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







1PNL1C09 8-14-12 119

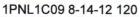
Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 1PNL1C09

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







1PNL1C09 8-14-12 121

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 1PNL1C09

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





1PNL1C09 8-14-12 123

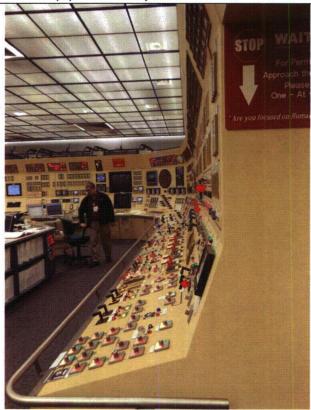
1PNL1C09 8-14-12 122

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 1PNL1C09

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





1PNL1C09 8-14-12 126

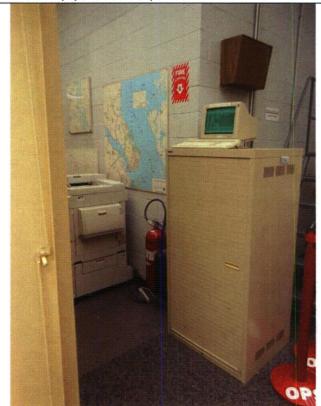
1PNL1C09 8-14-12 124

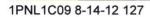
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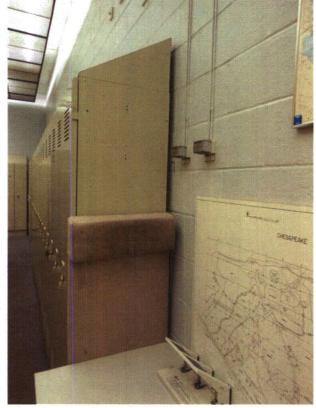
Seismic Walkdown Checklist (SWC)

Equipment ID No.: 1PNL1C09

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







1PNL1C09 8-14-12 128

WALKDOWN CHECKLISTS

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 1PNL1C09

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





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1PNL1C09 8-14-12 130