APPENDIX B: SEISMIC WALKDOWN CHECKLISTS (SWCs)

Paul C. Rizzo Associates, Inc.				Sheet 1 of 5
	Status:	(N	U
Seismic Walkdown Checklist (SWC)				
Equipment ID No. <u>2CCP-27A</u> Equip. Class 0D. Other-Check Va	alve or Manu	al Valve		
Equipment Description Comp Cool Pump P21C Disch Cross Conn Manual Val	ve	······		_
Location: Bldg. <u>AXLB</u> Floor El. <u>735</u> Room	N-EAST 2	AXLB 735		
Manufacturer, Model, Etc.				
Instructions for Completing Checklist This checklist may be used to document the results of the Seismic Walkdown of an item SWEL. The space below each of the following questions may be used to record the resu findings. Additional space is provided at the end of this checklist for documenting other	n of equipme ilts of judgm r comments.	ent on the nents and		
 Anchorage 1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Small manual valve on ~16" diameter line. Line is well supported within ~10 feet of valve. 	Y	N X		
2. Is the anchorage free of bent, broken, missing or loose hardware?	Y	N	U	N/A X
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	Y	<u>N</u>	U	N/A X
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Y	N	U	N/A X
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 anaborage configuration varification is required.)	Y	N	U	N/A X
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	Y X	<u>N</u>	U	



Seismic Walkdown Checklist (SWC)		Status:		N	U
Equipment ID No. 2CCP-27A Equip. Class 0D. Other-C	Check Valve	or Manua	al Valve		
Equipment Description Comp Cool Pump P21C Disch Cross Conn Ma	nual Valve			<u> </u>	
Interaction Effects		V	N	Τī	N/A
7. Are soft targets free from impact by nearby equipment or structures?		X			
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?		Y X	N	U	N/A
9. Do attached lines have adequate flexibility to avoid damage?		Y X	N	U	N/A
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?		Y X	N		
Other Adverse Conditions 11. Have you looked for and found no other seismic conditions that could adversely affect the soficty functions of the conjugate of the social sectors.		Y V	 		
Comments (Additional pages may be added as necessary)	L	<u></u>	L		
- the M. Smith					
Evaluated by: Eddie M. Guerra I	Date:	10/10/2	012		
Brian A. Lucarelli	Date:	10/10/2	012		



Seismic Walkdown Checklist (SWC)

Equipment ID No. 2CCP-27A

Equip. Class 0D. Other-Check Valve or Manual Valve

Equipment Description

Comp Cool Pump P21C Disch Cross Conn Manual Valve



File Name: 2-61-1-2-03.jpeg Description: Component Plate ID



File Name: 2-62-1-2-03.jpeg Description: General View of Component

Paul C. Rizzo Associates, Inc. ENGINEERS & CONSULTANTS			Sheet 4 of 513
Seismic Walkdown Checklist (SWC)	Status: 🕅	N	U
Equipment ID No. <u>2CCP-27A</u>	Equip. Class 0D. Other-Check Valve or Manual Valv	e	
Equipment Description Comp Cool Pump	P21C Disch Cross Conn Manual Valve		



File Name: 2-63-1-2-03.jpeg Description: General View of Main Line and Component

Paul C. Rizzo As	ssociates, Inc.						Sheet 5 of 513
Seismic Walkdown Checklis	t (SWC)			Status:	\otimes	N	U
Scisine warkuown Cheekiis	(344C)						
Equipment ID No. <u>2CCP-4</u>		Equip. Class 01	D. Other-Check V	alve or Man	ual Valve		
Equipment Description	Component Co	oling Pump P21A Dis	ch Check				<u> </u>
Location: Bldg. AXLB	Floor E	El. 735	Room	N-EAST 2	AXLB 735		
Manufacturer, Model, Etc.							
Instructions for Completing This checklist may be used to SWEL. The space below each findings. Additional space is p	Checklist document the res of the following rovided at the en	sults of the Seismic Wa questions may be used d of this checklist for	alkdown of an ite d to record the rea documenting oth	em of equipm sults of judgr er comments	ent on the nents and		
Anchorage				V	N		
1. Is the anchorage configuration of the 50% of SWEL items Inline check valve on ~16" dia side of valve, within ~15 feet of the second state of valve.	on verification re requiring such ve meter line. Main on other side.	equired (i.e., is the iter erification)? Ine is supported with	n one in ~5 feet on one	Y	X		
· · ·				v	N	TŤ	N/A
2. Is the anchorage free of ben	t, broken, missin	g or loose hardware?					
3. Is the anchorage free of corr	rosion that is mor	re than mild surface		Y	<u>N</u>	U	N/A X
oxidation?							
valve jound in good condition				<u>Y</u>	<u>N</u>	U	N/A
4. Is the anchorage free of visi	ble cracks in the	concrete near the anch	nors?		l		
f In the enclosure confirment		4	- 0	<u>Y</u>	N	U	N/A
5. Is the anchorage configuration (Note: This question only a) which an anchorage configuration of the second seco	pplies if the item guration verificati	is one of the 50% for ion is required.)	17	LI	<u> </u>		
6. Based on the above anchora	ge evaluations, is	s the anchorage free o	f	Y X	<u>N</u>	U]
potentially adverse seismic	conditions?						



Seismic Walkdov	wn Checklist (SWC)	Status:	\heartsuit	N	U
Equipment ID No	D. <u>2CCP-4</u> Equip. Class 0D. Other-Cl	neck Valve or Manu	al Valve		
Equipment Descr	iption Component Cooling Pump P21A Disch Check	······································	<u></u>		
Interaction Effe	ets			-	
7. Are soft targets	free from impact by nearby equipment or structures?	Y X	N	U	N/A
		Y	N	U	N/A
8. Are overhead e and masonry bl	quipment, distribution systems, ceiling tiles and lighting, ock walls not likely to collapse onto the equipment?	X			
		v	N	II	N/A
9. Do attached lin	es have adequate flexibility to avoid damage?				
		Y	N	U	I
10. Based on the of potentially	above seismic interaction evaluations, is equipment free adverse seismic interaction effects?	X			
				_	
Other Adverse C 11. Have you loo	Conditions ked for and found no other seismic conditions that could	Y	N	U	I
adversely affe	ct the safety functions of the equipment?				1
Comments (Add	itional pages may be added as necessary)			-	
	- the Mahmall				
Evaluated by:	Eddie M. Guerra Da	ate:10/10/2	2012	-	
	Emt fill.				
	Brian A. Lucarelli Da	ate: <u>10/10/</u> 2	2012	_	



Equipment Description

Component Cooling Pump P21A Disch Check



File Name: 2-61-4-2-03.jpeg Description: Component Plate ID



File Name: 2-62-4-2-03.jpeg Description: General View of Component

Paul C. Rizzo Associates, I ENGINEERS & CONSULTANTS	Inc.			Sheet 8 of 513
Seismic Walkdown Checklist (SWC)	Status:	8	N	U
Equipment ID No. 2CCP-4	Equip. Class 0D. Other-Check Valve or Manu	al Valve		
Equipment Description Compon	ent Cooling Pump P21A Disch Check			



File Name: 2-63-4-2-03.jpeg Description: General View of Main Line and Component

Paul C. Rizzo Associates, Inc. ENGINEERS & CONSULTANTS				Sheet 9 of 513
	Status:	\odot	N	U
Seismic Walkdown Checklist (SWC)		-		
Equipment ID No. <u>2CCP-AOV107A</u> Equip. Class 7. Pneumatic-Ope	rated Valves			
Equipment Description 2CCP-AOV107A BB C/S				
Location: Bldg. <u>RCBX</u> Floor El. <u>718</u> Room	<u>RCBX 72</u> 1-	A RCP I	Pump Cul	picle
Manufacturer, Model, Etc.				
Instructions for Completing Checklist This checklist may be used to document the results of the Seismic Walkdown of an its SWEL. The space below each of the following questions may be used to record the re findings. Additional space is provided at the end of this checklist for documenting oth	em of equipme sults of judgm er comments.	nt on the ents and	-	
Anchorage	V	N		
 Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? AOV found in good condition on ~3" line. Line is supported within ~1' on one side and ~12' on other side. 		X]	
2. Is the anchorage free of bent, broken, missing or loose hardware?	Y	N	U	N/A X
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	Y	<u>N</u>	U	N/A X
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Y	N	U	N/A X
5. Is the anchorage configuration consistent with plant documentation?(Note: This question only applies if the item is one of the 50% for which on anchorage configuration configuration is maximal).	Y	N	U	N/A X
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	Y X	N	U]



Seismic Walkdov	vn Checklist (SWC)	Status:	(N	U
Equipment ID No	2CCP AQV107A Equip Close 7 Proventie On	aratad Values			
Equipment ID No	Equip. Class 7. Pheumatic-Opt	erated valves			
Equipment Descri	ption 2CCP-AOV107A BB C/S				
Interaction Effec	ts			-	
		<u>Y</u>	N	<u>U</u>	N/A
7. Are soft targets	free from impact by nearby equipment or structures?	X			
		Y	N	<u>U</u>	N/A
8. Are overhead e	quipment, distribution systems, ceiling tiles and lighting,	X			
and masonry blo	ock walls not likely to collapse onto the equipment?				
		Y	N	U	N/A
9. Do attached line	es have adequate flexibility to avoid damage?	X			
Attached lines ide	ntified with adequate flexibility.				
		Y	N	U	
10. Based on the a	bove seismic interaction evaluations, is equipment free	X			
of potentially a	dverse seismic interaction effects?				
Other Adverse C	onditions		·	-	
11. Have you look	ted for and found no other seismic conditions that could	Y	N	U	
adversely affec	t the safety functions of the equipment?	X			
Comments (Addi	tional pages may be added as necessary)			-	
	- this Minafle				
Evaluated by:	Eddie M. Guerra Date:	10/10/2	012	_	
	Entful!				
	Brian A. Lucarelli Date:	10/10/2	2012		



Seismic Walkdown Checklist (SWC)

Equipment ID No. 2CCP-AOV107A

Equip. Class 7. Pneumatic-Operated Valves

Equipment Description

2CCP-AOV107A BB C/S



File Name: 2-61-6-2-19.jpeg Description: General View of Component



File Name: 2-62-6-2-19.jpeg Description: View of Piping Support

Seismic Walkdown Checklist (SWC)

Equipment ID No. 2CCP-AOV107A

Equip. Class 7. Pneumatic-Operated Valves

Equipment Description

2CCP-AOV107A BB C/S



File Name: 2-63-6-2-19.jpeg Description: General View of Component

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Status:

 (\mathbf{Y})

Paul C ENCINEER	C. Rizzo As	ssociates	, Inc.							Sheet 13 of 51
							Status:	Ŷ	N	U
Seismic Walkdow	n Checklis	t (SWC)							
Equipment ID No.	2CCP-E	21A	_	Equip. Clas	ss 21. Tanks	and Hea	t Exchangers	1		
Equipment Descrip	tion	Prima	ryCCW Heat	Exchanger						
Location: Bldg.	AXLB	_	Floor El.	710		Room	AXLB 71	0 HX		
Manufacturer, Mod	lel, Etc.									
Instructions for C This checklist may SWEL. The space I findings. Additiona	ompleting be used to below each ll space is p	Checkl docume of the f provided	ist ent the results ollowing ques at the end of	of the Seismi stions may be this checklist	c Walkdowr used to reco for docume	n of an ite ord the re- nting oth	em of equipn sults of judg er comments	ment on the ments and s.		
Anchorage							Y	N		
1. Is the anchorage of the 50% of SV Long, small diamet 1"diameter anchor anchor bolts.	configurat WEL items <i>er HX on 2</i> <i>bolts and</i>	ion verif requirin longitu welded s	fication requin ag such verific adinally brace bhear lags. Sl	red (i.e., is the cation)? d saddles. Fix iding saddle I	e item one ked saddle h has 4-7/8″di	as 4- ameter	X			
							Y	N	U	N/A
2. Is the anchorage	free of ber	nt, broke	n, missing or	loose hardwa	ire?		X			
							Y	N	U	N/A
3. Is the anchorage oxidation?	free of cor	rosion t	hat is more th	an mild surfac	ce		<u> </u>			
Surface corrosion	observed o	n flange.	s judged not t	o be a concer	n.					
							Y	N	U	N/A
4. Is the anchorage	free of vis	ible crac	cks in the con	crete near the	anchors?		<u>X</u>			
							Y	N	U	N/A
5. Is the anchorage (Note: This ques which an ancho	configurat stion only a prage confi	ion cons pplies if guration	sistent with pl f the item is o verification i	ant document ne of the 50% is required.)	tation?		X			

Y

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- Drawing No. 10080-RS-36J confirms anchorage to be shear lags, 4-1" dian anchors for fixed support, and 2-7/8" diameter anchors for sliding support.
- 6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?

	I C. Rizzo Associates, Inc. FERS & CONSULTANTS					Sheet 14 of 513
Seismic Walkdo	wn Checklist (SWC)		Status:	Ŷ	N	U
Equipment ID No	b. <u>2CCP-E21A</u> Equip. Class 21. Tanl	ks and Hea	t Exchangers			
Equipment Descr	ription PrimaryCCW Heat Exchanger					
Interaction Effe	cts		V	NI	тт	NI/A
7. Are soft targets	Y X	<u>N</u>		N/A		
2 monorail crane	es in area judged not to be interaction conern.					
			Y	N	IJ	N/A
8. Are overhead e		X				
and masonry bl	lock walls not likely to collapse onto the equipment?					
			Ý	N	U	N/A
9. Do attached lir	nes have adequate flexibility to avoid damage?		X			
			Y	N	<u> </u>	
10. Based on the of potentially	above seismic interaction evaluations, is equipment free adverse seismic interaction effects?		X			
Other Adverse (Conditions		v	N	П	
adversely affe	ect the safety functions of the equipment?		X			
Comments (Add	itional pages may be added as necessary)		· · · · · · · · · · · · · · · · · · ·		-	
	- this Minufl					
Evaluated by:	Eddie M. Guerra	Date:	10/10/2	2012	-	
	Entful!					
	Brian A. Lucarelli	Date:	10/10/2	2012	_	





2CCP-E21A

File Name: 2-96-4-2-01.jpeg Description: Component Tag ID



File Name: 2-61-4-2-01.jpeg Description: General View of Component



Seismic Walkdown Checklist (SWC)

Equipment ID No. 2CCP-E21A

Equip. Class 21. Tanks and Heat Exchangers

Equipment Description



File Name: 2-62-4-2-01.jpeg Description: View of Fixed Support



File Name: 2-63-4-2-01.jpeg Description: View of Fixed Support



Seismic Walkdown Checklist (SWC)

Equipment ID No. 2CCP-E21A

Equip. Class 21. Tanks and Heat Exchangers

Equipment Description



File Name: 2-64-4-2-01.jpeg Description: View of Sliding Support



File Name: 2-73-4-2-01.jpeg Description: General View of Component



Seismic Walkdown Checklist (SWC)

Equipment ID No. 2CCP-E21A

Equip. Class 21. Tanks and Heat Exchangers

Equipment Description



File Name: 2-94-4-2-01.jpeg Description: View of Monorail Crane in Area



File Name: 2-95-4-2-01.jpeg Description: View of Attached Piping



Seismic Walkdown Checklist (SWC)

Equipment ID No. 2CCP-E21A

Equip. Class 21. Tanks and Heat Exchangers

Equipment Description



File Name: 2-98-4-2-01.jpeg Description: View of Corrosion on Flange

Paul C. Rizzo Associates, Inc. ENGINEERS & CONSULTANTS					Sheet 20 of 513
Seismic Walkdown Checklist (SWC)		Status:	(N	U
Equipment ID No. <u>2CCP-FT107A</u> Equip. Class 18. Instr	rument on I	Rack			
Equipment Description Reactor Coolant Pump 2RCS-P21A Therma	al Barrier I	Flow Output			
Location: Bldg. <u>RCBX</u> Floor El. <u>718</u>	Room	<u>RCBX 718</u>			
Instructions for Completing Checklist This checklist may be used to document the results of the Seismic Walkdow SWEL. The space below each of the following questions may be used to rea findings. Additional space is provided at the end of this checklist for docum	vn of an ite cord the re nenting oth	em of equipmen sults of judgmo er comments.	nt on the ents and		
 Anchorage 1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Rack consists of a HSS 6x6 post (~3.5' tall) welded to floor. Instrument attaction face of the rack with 4-3/8" diam machine bolts. 	uched to	Y X	<u>N</u>		
2. Is the anchorage free of bent, broken, missing or loose hardware?		Y X	<u>N</u>	U	N/A
3. Is the anchorage free of corrosion that is more than mild surface oxidation?		Y X	N	<u>U</u>	N/A
4. Is the anchorage free of visible cracks in the concrete near the anchors?		Y X	N	U	N/A
5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)		Y X	N	U	N/A
Drawing No. 12241-BK-16G-8-2F confirms mounting bolt pattern and well6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	ded base.	Y X	N	U	



Seismic Walkdowr	ı Checklist (SWC)			Status:	(N	U
Equipment ID No.	2CCP-FT107A	Equip. Class 18. Instr	ument on Ra	ack			
Equipment Descript	tion <u>Reactor</u>	Coolant Pump 2RCS-P21A Therma	al Barrier Flo	ow Output			<u></u>
Interaction Effects							27/4
7 Are soft targets f	ree from impact by ne	earby equipment or structures?		Y X	N		N/A
7. The solt algeis h	iee nom impact by in	and y equipment of structures.				I	
				Y	N	<u>U</u>	N/A
8. Are overhead equ	ipment, distribution	systems, ceiling tiles and lighting,		X			
and masoning bloc	k wans not likely to t	onapse onto the equipment?					
				Y	N	U	N/A
9. Do attached lines	have adequate flexib	ility to avoid damage?		X			
Attached lines ideni	tified with adequate fl	exibility.					
				Y	N	U	
10. Based on the ab	ove seismic interaction	on evaluations, is equipment free		X			
of potentially ad	verse seismic interact	ion effects?					
Other Adverse Co	nditions					-	
11. Have you looke	d for and found no ot	her seismic conditions that could		Y	N	U	
adversely affect	the safety functions of	f the equipment?		X			
Comments (Addition	onal pages may be ad	ded as necessary)				-	
	- His HG	matt					
Evaluated by:	Eddie M. Guerra		_Date:	10/10/	2012	-	
	Sunt of	Ú.					
	Brian A. Lucarelli		Date:	10/10/	2012	_	





Seismic Walkdown Checklist (SWC)

Equipment ID No. 2CCP-FT107A

Equip. Class 18. Instrument on Rack

Equipment Description

Reactor Coolant Pump 2RCS-P21A Thermal Barrier Flow Output



File Name: 2-61-7-2-19.jpeg Description: Component Tag ID



File Name: 2-62-7-2-19.jpeg Description: General View of Component



Seismic Walkdown Checklist (SWC)

Equipment ID No. 2CCP-FT107A

Equip. Class 18. Instrument on Rack

Equipment Description

Reactor Coolant Pump 2RCS-P21A Thermal Barrier Flow Output



File Name: 2-63-7-2-19.jpeg Description: View of Mounting Bolts



File Name: 2-64-7-2-19.jpeg Description: View of Base Weld



Seismic Walkdown Checklist (SWC)

Equipment ID No. 2CCP-FT107A

Equip. Class 18. Instrument on Rack

Equipment Description

Reactor Coolant Pump 2RCS-P21A Thermal Barrier Flow Output



File Name: 2-73-7-2-19.jpeg Description: View of Mounting Bolts



File Name: 2-94-7-2-19.jpeg Description: View of Attached Lines

Paul C. Rizzo Associates, Inc. ENCINEERS & CONSULTANTS				Sheet 25 of 513
Seismic Walkdown Checklist (SWC)	Status:	(N	U
Equipment ID No. <u>2CCP-MOV112A</u> Equip. Class 8a. Motor Operat	ed Valve			
Equipment Description (2RHS*E21A 22A) Supply Isol	·····	·		
Location: Bldg. <u>RCBX</u> Floor El. <u>718</u> Room	<u>RCBX 71</u> 8-	Annulus		
Manufacturer, Model, Etc.				
Instructions for Completing Checklist This checklist may be used to document the results of the Seismic Walkdown of an i SWEL. The space below each of the following questions may be used to record the r findings. Additional space is provided at the end of this checklist for documenting of	tem of equipme results of judgm ther comments.	nt on the ents and		
Anchorage	Y	N		
 Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? MOV mounted on 24" diam pipe line. Pipe found to be well supported. 		X		
2. Is the anchorage free of bent, broken, missing or loose hardware?	Y	N	U	N/A X
	Y	N	U	N/A
3. Is the anchorage free of corrosion that is more than mild surface oxidation?				X
4. Is the anchorage free of visible gracks in the congrete near the anchore?	Y	N	U	N/A
4. Is the anchorage free of visible cracks in the concrete hear the anchors?	L	I.		
5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)	Y	N		
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	Y X	N	U	

Paul ENGIN	1 C. Rizzo Associates, Inc. EERS & CONSULTANTS			:	Sheet 26 of 513
Seismic Walkdov	wn Checklist (SWC)	Status:	\odot	N	U
Equipment ID No	b. <u>2CCP-MOV112A</u> Equip. Class 8a. Motor Operate	ed Valve			
Equipment Descr	iption (2RHS*E21A 22A) Supply Isol				
Interaction Effec	cts	Y	N	U	N/A
7. Are soft targets <i>Temporary tool su</i> <i>interaction conce</i>	s free from impact by nearby equipment or structures? torage in area has wheels locked, judged to not be a credible rn.	X		<u> </u>	
8. Are overhead e	equipment, distribution systems, ceiling tiles and lighting,	Y X	<u>N</u>	U	N/A
and masonry bl	ock walls not likely to collapse onto the equipment?	V	М	TT	NI/A
9. Do attached lir Attached lines ide	nes have adequate flexibility to avoid damage? entified with adequate flexibility.	X	IN		
10. Based on the of potentially	above seismic interaction evaluations, is equipment free adverse seismic interaction effects?	Y X	<u>N</u>	U]
Other Adverse O 11. Have you loo adversely affe	Conditions ked for and found no other seismic conditions that could ect the safety functions of the equipment?	Y X	N	- U]
Comments (Add	itional pages may be added as necessary)	<u>.</u>	- <u></u>	-	
	- this M. Jun - L				
Evaluated by:	Eddie M. Guerra Date:	10/10/	2012	_	
	Smit full.				
	Brian A. Lucarelli Date:	10/10/	2012	-	

Paul C. Rizzo Associates, Inc.

Status: 🕅 N U

Seismic Walkdown Checklist (SWC)

Equipment ID No. <u>2CCP-MOV112A</u>

Equip. Class 8a. Motor Operated Valve

Equipment Description

(2RHS*E21A 22A) Supply Isol



File Name: 2-61-3-2-19.jpeg Description: Component Plate ID



File Name: 2-62-3-2-19.jpeg Description: General View of Component



Seismic Walkdown Checklist (SWC)

Equipment ID No. 2CCP-MOV112A

Equip. Class 8a. Motor Operated Valve

Equipment Description

(2RHS*E21A 22A) Supply Isol



File Name: 2-63-3-2-19.jpeg Description: View of Component Area



File Name: 2-64-3-2-19.jpeg Description: View of Restrained Temporary Equipment in Area

Status: N Status: N Status: N Equipment ID No. 2CCP-MOV119 Equip. Class 8A. Motor Operated Valve Equipment Description CNMT Inst Zir Compressor Supply	U
Equipment ID No. 2CCP-MOV119 Equip. Class 8A. Motor Operated Valve Equipment Description CNMT Inst Zir Compressor Supply Location: Bldg. MSCV Floor El. 773 Room IAC Room Manufacturer, Model, Etc.	
Equipment Description CNMT Inst Zir Compressor Supply Location: Bldg. MSCV Floor El. 773 Room IAC Room Manufacturer, Model, Etc.	
Location: Bldg. MSCV Floor El. 773 Room IAC Room Manufacturer, Model, Etc.	
Manufacturer, Model, Etc. 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.	
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	
Y N 1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? X MOV on ~2 1/2" diameter line. Piping is supported within ~18" of valve. Valve operator is independently supported from floor. Y N	
Y N U	N/A
2. Is the anchorage free of bent, broken, missing or loose hardware?	X
$\frac{Y N U}{V}$	N/A
oxidation?	<u></u>
V N U	N/A
4. Is the anchorage free of visible cracks in the concrete near the anchors?	X
5. Is the anchorage configuration consistent with plant documentation? $Y N U$	N/A
(Note: 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 X .	

Paul Paul	C. Rizzo Associates, Inc.			S	Sheet 30 of 513
Seismic Walkdow	n Checklist (SWC)	Status:	\heartsuit	N	U
Equipment ID No.	2CCP-MOV119 Equip. Class 8A. Motor Operate	d Valve			
Equipment Descrip	otion CNMT Inst Zir Compressor Supply				ai <u>Narra</u>
Interaction Effect	ts				
7. Are soft targets Valve handwheel i	free from impact by nearby equipment or structures? s in contact with the operator support structure. This is judged	Y	N	U	<u>N/A</u>
acceptable since the the attached piping	he vertical acceleration at this elevation is much less than 1g and g is rigidly supported near the valve.				
		Y	N	U	N/A
8. Are overhead ec and masonry blo	quipment, distribution systems, ceiling tiles and lighting, ick walls not likely to collapse onto the equipment?	X			
		Y	N	U	N/A
9. Do attached line Attached lines four	es have adequate flexibility to avoid damage? nd with adequate flexibility.			l	
10. Based on the a	bove seismic interaction evaluations, is equipment free	Y X	N	U	
of potentially a	dverse seismic interaction effects?				
Other Adverse C	onditions		<u></u>	-	
11. Have you look adversely affec	ted for and found no other seismic conditions that could the safety functions of the equipment?	Y X	N	U	
				_	
Comments (Addit	tional pages may be added as necessary)				
	- this Might fl				
Evaluated by:	Eddie M. Guerra Date:	10/10/2	2012	-	
	Emt full.				
	Brian A. Lucarelli Date:	10/10/2	2012	_	



Paul C. Rizzo Associates, Inc. ENGINEERS & CONSULTANTS

Status: 🕅 N U

Seismic Walkdown Checklist (SWC)

Equipment ID No. 2CCP-MOV119

Equip. Class 8A. Motor Operated Valve

Equipment Description

CNMT Inst Zir Compressor Supply



File Name: 2-61-1-2-16.jpeg Description: Component Plate ID



File Name: 2-62-1-2-16.jpeg Description: General View of Component

Paul C. Rizzo Associates, Inc. ENGINEERS & CONSULTANTS

Status: 🕅 N U

Seismic Walkdown Checklist (SWC)

Equipment ID No. 2CCP-MOV119

Equip. Class 8A. Motor Operated Valve

Equipment Description

CNMT Inst Zir Compressor Supply



File Name: 2-63-1-2-16.jpeg Description: View of Attached Lines

Paul C. Rizzo Associates, Inc.					Sheet 33 of 512
		Status:	(N	U
Seismic Walkdown Checklist (SWC)					
Equipment ID No. <u>2CCP-MOV150-1</u> Equip. C	lass 8A. Motor Operat	ed Valve			
Equipment Description CCP SPLY HDR Outside CNM	AT ISOL				_
Location: Bldg. MSCV Floor El. 722	Room	<u>MSCV 71</u> 8			
Manufacturer, Model, Etc.					
This checklist may be used to document the results of the Seise SWEL. The space below each of the following questions may findings. Additional space is provided at the end of this checkl	nic Walkdown of an it be used to record the re ist for documenting ot	tem of equipme esults of judgm her comments.	nt on the ents and		
Anchorage		V	N		
1. Is the anchorage configuration verification required (i.e., is to of the 50% of SWEL items requiring such verification)?	the item one	Y	X		
Small MOV norizonially mounted on large alameter main line	near cening.	V	N	II	N/A
2. Is the anchorage free of bent, broken, missing or loose hardy	ware?		1		X
		Y	N	U	N/A

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Valve found in good condition.

r

- 4. Is the anchorage free of visible cracks in the concrete near the anchors?
- 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.)
- 6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?



Ν

Ν

Y

Y

Χ

N/A

Χ

N/A X

U

U



Saiamia Walldow	- Charlist (SWC)	St	atus:	(Ν	U
Seisinic waikuowi	i Checklist (SWC)					
Equipment ID No.	<u>2CCP-MOV150-1</u> Equip. Class 8A. Motor O	Operated Valve	e			
Equipment Descrip	tion CCP SPLY HDR Outside CNMT ISOL					
Interaction Effects	5					
7. Are soft targets f	ree from impact by nearby equipment or structures?	<u>}</u>	7 K	N	U	N/A
		<u> </u>		N	U	N/A
and masonry bloc	where the systems, celling tiles and lighting, where walls not likely to collapse onto the equipment?		<u> </u>			
		y	ł	N	U	N/A
9. Do attached lines	s have adequate flexibility to avoid damage?	2	K	······		
Allachea lines joun	a win adequate fiextonny.		7	N	TT	
10. Based on the ab	ove seismic interaction evaluations, is equipment free		r K	<u>N</u>		
of potentially ad	verse seismic interaction effects?					
Other Adverse Co	nditions					
11. Have you looke	ed for and found no other seismic conditions that could	, 	Y V	N	<u> </u>]
Main line is rigidly room. It is judged differential displace	supported at wall penetration and is rod supported through that the \sim 3"diameter branch line has adequate flexibility for ements.	eout	<u> </u>	· · · · · · · · · · · · · · · · · · ·	L	J
Comments (Additi	onal pages may be added as necessary)	<u></u>				
	- the M. Sun Le					
Evaluated by:	Eddie M. Guerra D	Date:	10/10/	2012	-	
	Entful!					
	Brian A. Lucarelli D	Date:	10/10/	2012	-	



Seismic Walkdown Checklist (SWC)

Equipment ID No. <u>2CCP-MOV150-1</u>

Equip. Class 8A. Motor Operated Valve

Equipment Description

CCP SPLY HDR Outside CNMT ISOL



File Name: 2-73-1-2-12.jpeg Description: Component Plate ID



File Name: 2-61-1-2-12.jpeg Description: General View of Component


Seismic Walkdown Checklist (SWC)

Equipment ID No. 2CCP-MOV150-1

Equip. Class 8A. Motor Operated Valve

Equipment Description



CCP SPLY HDR Outside CNMT ISOL

File Name: 2-62-1-2-12.jpeg Description: General View of Component



File Name: 2-63-1-2-12.jpeg Description: General View of Main Line and Component

Paul C. Rizzo Associates, Inc. ENCINEERS & CONSULTANTS

Status: 🕅 N U

Seismic Walkdown Checklist (SWC)

Equipment ID No. 2CCP-MOV150-1

Equip. Class 8A. Motor Operated Valve

Equipment Description



CCP SPLY HDR Outside CNMT ISOL



File Name: 2-94-1-2-12.jpeg Description: View of Penetration Support and Branch Line with Adequate Flexibility

Paul C. Rizzo Associates, Inc. ENCINEERS & CONSULTANTS				Sheet 38 of 513
Seismic Walkdown Checklist (SWC)	Status:	(N	U
Equipment ID No. <u>2CCP-P21A</u> Equip. Class 5. Horizontal Pumps	5			
Equipment Description Primary Component CLG Pump "A"-C/				
Location: Bldg. AXLB Floor El. 735 Room	N/EAST 2	AXLB 735		
Manufacturer, Model, Etc.				
Instructions for Completing Checklist This checklist may be used to document the results of the Seismic Walkdown of an iter SWEL. The space below each of the following questions may be used to record the result findings. Additional space is provided at the end of this checklist for documenting othe	n of equipm ults of judgn r comments.	ent on the nents and		
Anchorage	v	N		
 Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Skid is anchored by 10-7/8" dia anchors. Each long side of the skid has 5 anchors, with 3 of those anchors concentrated at the nozzle end. 				
	Y	N	U	N/A
2. Is the anchorage free of bent, broken, missing or loose hardware?	X			
3. Is the anchorage free of corrosion that is more than mild surface	Y X	N	U	N/A
oxidation?				
	Y	<u>N</u>	U	N/A
4. Is the anchorage free of visible cracks in the concrete near the anchors?	<u> </u>			
	Y	N	U	N/A
5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for	X			
which an anchorage configuration verification is required.) Drawing No. 12241-RC-36P-9 confirms the configuration of 10-7/8" diameter anchor bolts.				
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	Y X	N	U	



G. ''. W. I. J.		Status:	\heartsuit	N	U
Seismic Walkdow	vn Checklist (SWC)				
Equipment ID No.	Equip. Class 5. Horizontal Pumps				
Equipment Descri	ption Primary Component CLG Pump "A"-C/				
Interaction Effec	ts	V	N	ŦŢ	NI/A
7. Are soft targets	free from impact by nearby equipment or structures?	X	<u>_N</u>		IN/A
		Y	N	U	N/A
8. Are overhead ed and masonry blo	quipment, distribution systems, ceiling tiles and lighting, ock walls not likely to collapse onto the equipment?	X	<u> </u>	I	
		Y	N	U	N/A
9. Do attached line	es have adequate flexibility to avoid damage?	X		L	
10. Based on the a	bove seismic interaction evaluations, is equipment free	Y X	<u>N</u>	U]
of potentially a Discharge nozzle with lateral suppo	ndverse seismic interaction effects? piping observed to be adequately supported in the E-W direction, ort in N-S direction ~40' away.				
Other Adverse C	conditions	Y	 N	- U	
adversely affect	et the safety functions of the equipment?	X]
Comments (Addi	tional pages may be added as necessary)	<u> </u>		-	
	- His Might fl				
Evaluated by:	Eddie M. Guerra Date:	10/10/	2012	_	
	Entfil.				
	Brian A. Lucarelli Date:	10/10/	2012	-	



Seismic Walkdown Checklist (SWC)

Equipment ID No. 2CCP-P21A

Equip. Class 5. Horizontal Pumps

Equipment Description

Primary Component CLG Pump "A"-C/



File Name: 2-61-2-2-03.jpeg Description: Component Plate ID



File Name: 2-62-2-03.jpeg Description: General View of Component





Seismic Walkdown Checklist (SWC)

Equipment ID No. 2CCP-P21A

Equip. Class 5. Horizontal Pumps

Equipment Description



Primary Component CLG Pump "A"-C/

File Name: 2-63-2-2-03.jpeg Description: Close Up View of Anchorage



File Name: 2-64-2-2-03.jpeg Description: Close Up View of Anchorage

Paul C. Rizzo Associates, Inc. ENGINEERS & CONSULTANTS

Status: 🕅 N U

Seismic Walkdown Checklist (SWC)

Equipment ID No. 2CCP-P21A

Equip. Class 5. Horizontal Pumps

Equipment Description

Primary Component CLG Pump "A"-C/



File Name: 2-73-2-2-03.jpeg Description: General View of Component Area

Paul C. Rizzo Associates, Inc. ENGINEERS & CONSULTANTS				Sheet 43 of 513
Seismic Walkdown Checklist (SWC)	Status:	(N	U
Equipment ID No. 2CCP-PT107A Equip. Class 18. Instrument on Ra	ick			
Equipment Description Reactor Coolant Pump 2RCS-P21A Thermal Barrier Pro	essure Outpu	t		
Location: Bldg. <u>RCBX</u> Floor El. <u>718</u> Room	RCBX 718			
Manufacturer, Model, Etc.				
Instructions for Completing Checklist This checklist may be used to document the results of the Seismic Walkdown of an item SWEL. The space below each of the following questions may be used to record the resu findings. Additional space is provided at the end of this checklist for documenting other	of equipments of judgments.	nt on the ents and		
Anchorage	v	N		
 Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Rack consists of a HSS 6x6 post (~3.5' tall) welded to floor. Instrument attached to face of the rack with 4-3/8" diam machine bolts. 				
	Y	N	U	N/A
2. Is the anchorage free of bent, broken, missing or loose hardware?	X			
	Y	<u>N</u>	U	<u>N/A</u>
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	X		<u>.</u>	
	Y	N	U	N/A
4. Is the anchorage free of visible cracks in the concrete near the anchors?	X			
5. Is the anchorage configuration consistent with plant documentation?	Y	<u>N</u>	U	N/A
(Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)		<u>. </u>		
Drawing No. 12241-BK-16G-8-2F confirms mounting bolt pattern and welded base.				
	Y	N	U	

- 6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?
- Y N U X



Seismic Walkdown	Checklist (SWC)			Status:		Ν	U
Equipment ID No.	ment ID No. <u>2CCP-PT107A</u> Equip. Class 18. Instrument on Rack						
Equipment Descript	ion <u>Reactor Co</u>	olant Pump 2RCS-P21A Therm	al Barrier Pre	ssure Outpu	ut		
Interaction Effects			<u> </u>		<u></u>		
7. Are soft targets fi	ee from impact by near	by equipment or structures?	[Y X	N	U	<u>N/A</u>
8. Are overhead equ	ipment, distribution sys	stems, ceiling tiles and lighting,	[Y X	<u>N</u>	U	N/A
and masonry bloc	k walls not likely to col	lapse onto the equipment?	-				
			r	Y	N	U	N/A
9. Do attached lines have adequate flexibility to avoid damage? Attached lines identified with adequate flexibility.			l	X			
			_	Y	N	U	
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?				X	<u>_,</u>	1	
						_	
Other Adverse Co	nditions d for and found no othe	r seismic conditions that could		Y	N	U	
adversely affect	the safety functions of t	he equipment?	[X			
Comments (Additio	onal pages may be adde	d as necessary)				-	
	- the Africa	£C					
Evaluated by:	Eddie M. Guerra		Date:	10/10/	2012	-	
	Emt of	ſſŀ.					
	Brian A. Lucarelli		Date:	10/10/	2012	-	





Seismic Walkdown Checklist (SWC)

Equipment ID No. 2CCP-PT107A

Equip. Class 18. Instrument on Rack

Equipment Description

Reactor Coolant Pump 2RCS-P21A Thermal Barrier Pressure Output



File Name: 2-61-8-2-19.jpeg Description: Component Tag ID



File Name: 2-73-8-2-19.jpeg Description: General View of Component



Seismic Walkdown Checklist (SWC)

Equipment ID No. 2CCP-PT107A

Equip. Class 18. Instrument on Rack

Equipment Description

Reactor Coolant Pump 2RCS-P21A Thermal Barrier Pressure Output



File Name: 2-62-8-2-19.jpeg Description: View of Mounting Bolts



File Name: 2-63-8-2-19.jpeg Description: View of Mounting Bolts





Seismic Walkdown Checklist (SWC)

Equipment ID No. 2CCP-PT107A

Equip. Class 18. Instrument on Rack

Equipment Description

Reactor Coolant Pump 2RCS-P21A Thermal Barrier Pressure Output



File Name: 2-64-8-2-19.jpeg Description: View of Base Weld

Paul C. Rizzo Associates, Inc. ENCINEERS & CONSULTANTS				Sheet 48 of 513					
Seismic Walkdown Checklist (SWC)	Status:	\heartsuit	N	U					
	t Evolon com								
Equipment ID No. <u>2CCP-1K21A</u> Equip. Class 21. Tanks and Hea	a Exchangers								
Equipment Description Component Cooling Surge Tank				_					
Location: Bldg. <u>AXLB</u> Floor El. <u>773</u> Room	AXLB 773	Cool Surge	Tank						
Manufacturer, Model, Etc.									
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 the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? -1" diameter anchors around perimeter of tank. Chairs are 5" high with 3/8" thick side plates and 1/2" thick top plate. 	Y X								
	V	N	П	N/A					
2. Is the anchorage free of bent, broken, missing or loose hardware?			0						
	Y	N	U	N/A					
3. Is the anchorage free of corrosion that is more than mild surface	X								
oxidation? Tank and anchorage found in good condition.									
	Y	<u>N</u>	U	N/A					
4. Is the anchorage free of visible cracks in the concrete hear the anchors?		<u> </u>		l					
	Y	<u>N</u>	U	N/A					
 S. 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.) Calculation NM(B)-436-IA confirms 8-1" diameter anchors around tank perimeter. 		L.		JJ					
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	Y X	N	U]					

Pau ENGIN	1 C. Rizzo Associates, Inc.					Sheet 49 of 513
Seismic Walkdo	wn Checklist (SWC)		Status:	Ŷ	N	U
Equipment ID No	D. <u>2CCP-TK21A</u> Equip. Class 21. Tank	s and Heat	Exchangers			
Equipment Descr	ription Component Cooling Surge Tank				<u></u>	
Interaction Effe	cts		V	N	TT	N/A
7. Are soft target	s free from impact by nearby equipment or structures?		X	IN	0	
			Y	N	U	N/A
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?		X				
			Y	N	U	N/A
9. Do attached lines have adequate flexibility to avoid damage? <i>Attached lines found with adequate flexibility.</i>		X				
10. Based on the	above seismic interaction evaluations, is equipment free		Y	N	<u> </u>]
of potentially	adverse seismic interaction effects?		LL			_
Other Adverse	Conditions				-	
11. Have you loo adversely affe	oked for and found no other seismic conditions that could ect the safety functions of the equipment?		Y X	N]
Comments (Add	litional pages may be added as necessary)				-	
	- this Mahma La					
Evaluated by:	Eddie M. Guerra	Date:	10/10/2	2012	_	
	Ent fill.					
	Brian A. Lucarelli	Date:	10/10/2	2012	_	

E.



File Name: 2-61-1-2-05.jpeg Description: Component Plate ID

2CCP*TK21A COMP COOLING SURGE TANK



File Name: 2-62-1-2-05.jpeg Description: Close Up View of Anchorage



Equipment ID No. 2CCP-TK21A

Equip. Class 21. Tanks and Heat Exchangers

Equipment Description

Component Cooling Surge Tank



File Name: 2-63-1-2-05.jpeg Description: General View of Component



File Name: 2-64-1-2-05.jpeg Description: View of Attached Lines

Paul C. Rizzo Associates, Inc. ENGINEERS & CONSULTANTS				Sheet 52 of :
Seismic Walkdown Checklist (SWC)	Status:	\heartsuit	N	U
Equipment ID No. <u>2CHS-FCV114A</u> Equip. Class 7. Pneumatic-Operated	d Valves			
Equipment Description Primary Grade Water To Boric Acid Blender				_
Location: Bldg. <u>AXLB</u> Floor El. <u>710</u> Room <u>A</u>	XLB 710			
Manufacturer, Model, Etc.				

Instructions for Completing Checklist

This checklist may be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

Anchorage

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?

Small AOV mounted on ~3"diameter insulated line. Piping is well supported near valve.

- 2. Is the anchorage free of bent, broken, missing or loose hardware?
- 3. Is the anchorage free of corrosion that is more than mild surface oxidation?
- 4. Is the anchorage free of visible cracks in the concrete near the anchors?
- 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.)
- 6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?



Y



Ν

U

N/A







Seismic Walkdow	vn Checklist (SWC)		Status:		N	U
Equipment ID No.	<u>2CHS-FCV114A</u> Equip. Class 7. Pneumat	ic-Operated	l Valves			
Equipment Descri	ption Primary Grade Water To Boric Acid Blender	<u> </u>				
Interaction Effec	ts	<u> </u>				
7. Are soft targets	free from impact by nearby equipment or structures?		Y X	N	U	N/A
			Y	N	U	N/A
8. Are overhead ea and masonry blo	quipment, distribution systems, ceiling tiles and lighting, ck walls not likely to collapse onto the equipment?		Х			
			V	NI	TT	NI/A
9. Do attached lines have adequate flexibility to avoid damage? Attached lines have adequate flexibility.			X	IN		
		_	Y	<u>N</u>	U	
10. Based on the a of potentially a	L	<u>X</u>				
Other Adverse C 11. Have you look	onditions ted for and found no other seismic conditions that could		Y	<u>N</u>	U	
adversely affec	t the safety functions of the equipment?	L	<u>X</u>			
Comments (Addi	tional pages may be added as necessary)					
	- the Min Le					
Evaluated by:	Eddie M. Guerra	Date:	10/10/	2012		
	Emt full.					
	Brian A. Lucarelli	Date:	10/10/	2012		



Seismic Walkdown Checklist (SWC)

Equipment ID No. 2CHS-FCV114A

Equip. Class 7. Pneumatic-Operated Valves

Equipment Description

Primary Grade Water To Boric Acid Blender



File Name: 2-61-6-2-01.jpeg Description: General View of Component

Paul C. Riz	zo Associates, Inc. suitants						
Seismic Walkdown Che	ecklist (SWC)			Status:	\heartsuit	N	U
Equipment ID No. 2CH	HS-HCV186	Equip. Class 7.	Pneumatic-Oper	rated Valves			
Equipment Description	RCP Seal HDR	Flow Control				····	
Location: Bldg. <u>AX</u>	LB Floor El	. 718	Room	AXLB 718			
Manufacturer, Model, Et	c	<u> </u>					
Instructions for Comple This checklist may be use SWEL. The space below findings. Additional space	eting Checklist ed to document the resu each of the following c e is provided at the end	Ilts of the Seismic Wa questions may be used l of this checklist for	alkdown of an ite I to record the re documenting oth	em of equipme sults of judgn er comments.	ent on the nents and	-	
Anchorage				V	N		
1. Is the anchorage confi of the 50% of SWEL i AOV on ~4"diameter line	guration verification rea tems requiring such ver e. Piping is well support	quired (i.e., is the iter rification)? <i>rted near valve</i> .	n one	Y	X]	
				<u>Y</u>	N	U	N/A
2. Is the anchorage free c	of bent, broken, missing	or loose nardware?		1 1			

3. Is the anchorage free of corrosion that is more than mild surface oxidation? *Valve found in good condition.*

4. Is the anchorage free of visible cracks in the concrete near the anchors?

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.)

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?

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Y

Y

N/A

Χ







			Status:	(N	U
Seismic Walkdow	n Checklist (SWC)					
Equipment ID No.	2CHS-HCV186 Equip. Class 7. Pneur	natic-Oper	ated Valves			
Equipment Descrip	otion RCP Seal HDR Flow Control					
Interaction Effect	s				-	
			Y	<u>N</u>	U	N/A
7. Are soft targets	free from impact by nearby equipment or structures?		X			
			Y	N	U	N/A
8. Are overhead eq	uipment, distribution systems, ceiling tiles and lighting,		X			
and masonry blo	ck walls not likely to collapse onto the equipment?					
			Y	N	U	N/A
9. Do attached line	s have adequate flexibility to avoid damage?		X			
Attached lines have	e adequate flexibility.					
			37	N	11	
10 Based on the al	have seismic interaction evaluations, is equipment free		Y	N		l
of potentially a	dverse seismic interaction effects?				· · · · · · · · · · · · · · · · · · ·	
1 5						
Other Adverse Co	onditions				-	
11. Have you look	ed for and found no other seismic conditions that could		<u>Y</u>	<u>N</u>	U	
adversely affect	t the safety functions of the equipment?		X			
Comments (Addit	ional pages may be added as necessary)				-	
	- the Min fl	·				
Evaluated by:	Eddie M. Guerra	Date:		2012	_	
	Entfill.					
	Brian A. Lucarelli	Date:	10/10/2	2012	_	



Seismic Walkdown Checklist (SWC)

Equipment ID No. 2CHS-HCV186

Equip. Class 7. Pneumatic-Operated Valves

Equipment Description

RCP Seal HDR Flow Control



File Name: 2-61-3-2-02.jpeg Description: Component Plate ID



File Name: 2-62-3-2-02.jpeg Description: General View of Component (Center Valve)



File Name: 2-63-3-2-02.jpeg Description: General View of Component

Paul C. Rizzo Associates, Inc. ENGINEERS & CONSULTANTS				Sheet 39 OF 3
Seismic Walkdown Checklist (SWC)	Status:	\heartsuit	N	U
Equipment ID No. <u>2CHS-LCV115B</u> Equip. Class 8A. Motor Operated	l Valve			
Equipment Description Provide RWST Flow Path To HHSI				
Location: Bldg. AXLB Floor El. 718 Room	AXLB 718			
Manufacturer, Model, Etc.				

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. I	s the anchorage configuration verification required (i.e., is the item or	ne
C	of the 50% of SWEL items requiring such verification)?	
MC	DV on $\sim 8''$ diameter line. Piping is well supported near valve.	

- 2. Is the anchorage free of bent, broken, missing or loose hardware?
- 3. Is the anchorage free of corrosion that is more than mild surface oxidation?Valve found in good condition.
- 4. Is the anchorage free of visible cracks in the concrete near the anchors?
- 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.)
- 6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?



 $\frac{N}{X}$





Soismia Walldox	un Chealdist (SW/C)		Status:	(Ν	U
Seisinic warkuov	vii Checklist (SWC)					
Equipment ID No	. <u>2CHS-LCV115B</u> Equip. Class 8A. Mot	tor Operate	d Valve			
Equipment Descri	ption Provide RWST Flow Path To HHSI					
Interaction Effec	ts					
7. Are soft targets	free from impact by nearby equipment or structures?		Y X	N		N/A
,			Lî			
			Y	N	U	N/A
8. Are overhead e	quipment, distribution systems, ceiling tiles and lighting,		X			
and masonry bio	sex walls not likely to collapse onto the equipment?					
			Y	N	U	N/A
9. Do attached lin	es have adequate flexibility to avoid damage?		X			
10 Deced on the	shows assign interaction avaluations is assignment free		Y	N	U	l
of potentially a	adverse seismic interaction effects?					
Other Adverse C	Conditions	<u></u>				
11. Have you lool	ked for and found no other seismic conditions that could		Y	_N		ľ
adversely affect	ct the safety functions of the equipment?			<u> </u>	1	
Comments (Addi	tional pages may be added as necessary)			<u></u>		
	= the Mini fl					
Evaluated by:	Eddie M. Guerra	Date:	10/10/2	2012	_	
	Emt full.					
	Brian A. Lucarelli	Date:	10/10/2	2012	_	



Seismic Walkdown Checklist (SWC)

Equipment ID No. 2CHS-LCV115B

Equip. Class 8A. Motor Operated Valve

Equipment Description

Provide RWST Flow Path To HHSI



File Name: 2-61-1-2-02.jpeg Description: Component Plate ID



File Name: 2-62-1-2-02.jpeg Description: General View of Component

Paul Paul	C. Rizzo As rs & consultan	ssociates, Inc.					ŝ	Sheet 62 of 513
Soismic Walkdow	n Chacklis	t (SWC)			Status:	(N	U
Seisinic waikuow	n Uneckiis	(SWC)						
Equipment ID No.	2CHS-M	IOV310	Equip. Class 8	8a. Motor Operated	d Valve			
Equipment Descrip	otion	Iso To Charging Sy	stem					<u> </u>
Location: Bldg.	RCBX	Floor El.	692	Room	<u>RCBX 692</u>	-Near Inner	r Stairs	
Manufacturer, Moo	lel, Etc.			<u> </u>				
Instructions for C This checklist may SWEL. The space findings. Additiona	completing be used to below each al space is p	Checklist document the results of the following ques provided at the end of	of the Seismic V stions may be us this checklist fo	Valkdown of an ite ed to record the re r documenting oth	em of equipme sults of judgm er comments.	ent on the nents and		
Anchorage					Y	N		
1. Is the anchorage of the 50% of SV	configurat WEL items	ion verification requir requir such verific	red (i.e., is the ite cation)?	em one		Х		
MOV on ~8" diam	line. Line i	s well supported ~3' f	rom valve at bot	th sides.				
	6		1 1 1		Y r	<u>N</u>	U	N/A
2. Is the anchorage	iree of ben	ii, droken, missing or	loose nardware?					

Y

Y

Y

 $\frac{Y}{X}$

Ν

Ν

Ν

Ν

U

U

U

U

N/A X

N/A

Х

N/A X

- 3. Is the anchorage free of corrosion that is more than mild surface oxidation?
- 4. Is the anchorage free of visible cracks in the concrete near the anchors?
- 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.)
- 6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?



Seismic Walkdown Checklist (SWC)	Status:	\bigotimes	N	U
Equipment ID No. <u>2CHS-MOV310</u> Equip. Class 8a. Motor Operated	d Valve			
Equipment Description Iso To Charging System				
Interaction Effects	V	N	IJ	N/A
7. Are soft targets free from impact by nearby equipment or structures? Temporary equipment in area judged not to be a credible interaction concern.	X			
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	Y X	N	U	N/A
9. Do attached lines have adequate flexibility to avoid damage?Attached lines identified with adequate flexibility.	Y X	N	U	N/A
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	Y X	<u>N</u>	U]
Other Adverse Conditions 11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment?	Y X	N	- U]
Comments (Additional pages may be added as necessary)			-	
- the Mini fl				
Evaluated by: Eddie M. Guerra Date:	10/10/:	2012	_	

Brian A. Lucarelli

Date:

10/10/2012



Seismic Walkdown Checklist (SWC)

Equipment ID No. 2CHS-MOV310

Equip. Class 8a. Motor Operated Valve

Equipment Description

Iso To Charging System



File Name: 2-61-3-2-17.jpeg Description: Component Plate ID



File Name: 2-62-3-2-17.jpeg Description: General View of Component Area



Seismic Walkdown Checklist (SWC)

Equipment ID No. 2CHS-MOV310

Equip. Class 8a. Motor Operated Valve

Equipment Description

Iso To Charging System



File Name: 2-63-3-2-17.jpeg Description: View of Attached Lines

Paul C. Rizzo Associates, Inc. Engineers & consultants				Sheet 66 of 513
Seismic Walkdown Checklist (SWC)	Status:	(N	U
Equipment ID No. <u>2CHS-MOV8132A</u> Equip. Class 8A. Motor Ope	erated Valve			
Equipment Description ISOL - Redundent (Inject To Recirc.)				
				_
Manufacturer, Model, Etc.	m <u>AALB /1</u> 8			
Instructions for Completing Checklist This checklist may be used to document the results of the Seismic Walkdown of an SWEL. The space below each of the following questions may be used to record the findings. Additional space is provided at the end of this checklist for documenting	n item of equipme e results of judgm other comments.	nt on the ents and		
Anchorage	v	N		
 Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? MOV on ~4" diameter line. Piping is well supported near valve. 	I I I I I I I I I I I I I I I I I I I	X		
2. Is the anchorage free of bent, broken, missing or loose hardware?	Y	N	Ŭ	N/A X
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	Y	<u>N</u>	U	N/A X
Valve found in good condition.				
	Y	N	U	N/A
4. Is the anchorage free of visible cracks in the concrete near the anchors?				X
5. Is the anchorage configuration consistent with plant documentation?	Y	<u>N</u>	U	N/A
(Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)	LL	1		
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	Y X	N	U	

Paul ENGIN	1 C. Rizzo Associates, Inc.				5	Sheet 67 of
Seismic Walkdov	wn Checklist (SWC)		Status:	\odot	N	U
Equipment ID No	b. <u>2CHS-MOV8132A</u> Equip. Class 8A. Mot	tor Operate	ed Valve			
Equipment Descr	iption ISOL - Redundent (Inject To Recirc.)					
Interaction Effec	cts		V	N	- 	NI/A
7. Are soft targets	s free from impact by nearby equipment or structures?			N		N/A
8. Are overhead e	equipment, distribution systems, ceiling tiles and lighting,		Y X	<u>N</u>	U	N/A
and masonry bl	ock walls not likely to collapse onto the equipment?					
9 Do attached lin	ues have adequate flexibility to avoid damage?		Y X	N	U	N/A
Attached conduit 10. Based on the of potentially a	<i>found with adequate flexibility.</i> above seismic interaction evaluations, is equipment free adverse seismic interaction effects?		Y X	N	U	
Other Adverse (11. Have you loo adversely affe	Conditions ked for and found no other seismic conditions that could ct the safety functions of the equipment?		Y X	<u>N</u>	- U	1
Comments (Add	itional pages may be added as necessary)				-	
	- titis Mghma fl					
Evaluated by:	Eddie M. Guerra	Date:	10/10/2	2012	_	
	Sunt full.					
	Brian A. Lucarelli	Date:	10/10/2	2012		

Sheet 67 of 513



Seismic Walkdown Checklist (SWC)

Equipment ID No. 2CHS-MOV8132A

Equip. Class 8A. Motor Operated Valve

Equipment Description

ISOL - Redundent (Inject To Recirc.)



File Name: 2-61-2-2-02.jpeg Description: Component Plate ID



File Name: 2-62-2-202.jpeg Description: General View of Component



Seismic Walkdown Checklist (SWC)

Equipment ID No. 2CHS-MOV8132A

Equip. Class 8A. Motor Operated Valve

Equipment Description

ISOL - Redundent (Inject To Recirc.)



File Name: 2-63-2-2-02.jpeg Description: General View of Component and Attached Lines

Paul C. Rizzo Associates, Inc. ENGINEERS & CONSULTANTS				Sheet 70 of 513
	Status:	\odot	N	U
Seismic Walkdown Checklist (SWC)				
Equipment ID No. <u>2CHS-P21A</u> Equip. Class 5. Horizontal Pumps	S			
Equipment Description Primary HHSI (Charging) Pump				_
Location: Bldg. <u>AXLB</u> Floor El. <u>735</u> Room	AXLB-CP-	735		
Manufacturer, Model, Etc.				
Instructions for Completing Checklist This checklist may be used to document the results of the Seismic Walkdown of an iter SWEL. The space below each of the following questions may be used to record the result findings. Additional space is provided at the end of this checklist for documenting othe	n of equipme ults of judgm r comments.	nt on the ents and		
Anchorage	v	N		
 Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Skid is anchored by 16-1" diameter anchors, 6 along each long side, 2 along each short side. Nozzles are well supported. 				
2. Is the anchorage free of bent, broken, missing or loose hardware?	Y_ X	N	U	N/A
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	Y X	<u>N</u>	U	N/A
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Y X	N	U	N/A
5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for	Y X	N	U	N/A
which an anchorage configuration verification is required.) Drawings 10080-RC-36N and 10080-RC-36P confirm the anchorage configuration as 16-1" diameter anchor bolts.				
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	Y X	N	U]



Seismic Walkdow	n Checklist (SWC)	Status:	(N	U
Equipment ID No.	2CHS-P21A Equip. Class 5. Horizontal Pum	ips			
Equipment Descrip	ption Primary HHSI (Charging) Pump				
Interaction Effect	ts	N.	N.	-	NI/ A
7 Are soft targets	free from impact by nearby equipment or structures?	X	<u>IN</u>		IN/A
Monorail crane in	area judged not to be an interaction concern.		<u> </u>	I	
		Y	N	U	N/A
8. Are overhead ed	guipment, distribution systems, ceiling tiles and lighting,	X			
and masonry blo	sck walls not likely to collapse onto the equipment?				
		Y	N	U	N/A
9. Do attached line	es have adequate flexibility to avoid damage?	X			
10 Decedent the		Y	<u>N</u>	<u> </u>	1
of potentially a	dverse seismic interaction effects?			<u> </u>	1
Other Adverse C	anditions		<u></u>		
11. Have vou look	ted for and found no other seismic conditions that could	Y	N	U	
adversely affec	t the safety functions of the equipment?	X]
·					
Comments (Addit	tional pages may be added as necessary)			_	
	Jottis Milling Le				
Evaluated by:	Eddie M. Guerra Date:	10/10/2	2012		
	Entall.				
	Brian A. Lucarelli Date:	10/10/2	2012	_	


Seismic Walkdown Checklist (SWC)

Equipment ID No. 2CHS-P21A

Equip. Class 5. Horizontal Pumps

Equipment Description

Primary HHSI (Charging) Pump



File Name: 2-61-3-2-03.jpeg Description: Component Plate ID



File Name: 2-62-3-2-03.jpeg Description: General View of Component



Seismic Walkdown Checklist (SWC)

Equipment ID No. 2CHS-P21A

Equip. Class 5. Horizontal Pumps

Equipment Description

Primary HHSI (Charging) Pump



File Name: 2-63-3-2-03.jpeg Description: Close Up View of Anchorage

Paul C. Rizzo Associates, Inc. ENGINEERS & CONSULTANTS			S	heet 74 of 513
Sciencie Wolldown Chaeldiet (SWC)	Status:	\odot	N	U
Seismic walkdown Checklist (SWC)				
Equipment ID No. <u>2CHS-SOV206</u> Equip. Class 8B. Solenoid Valve	:			
Equipment Description Alternate Emergency Borate Valve				
Location: Bldg. AXLB Floor El. 755 Room	AXLB 755	Boric Acid	I TK Roo	om
Manufacturer, Model, Etc.				
This checklist may be used to document the results of the Seismic Walkdown of an iter SWEL. The space below each of the following questions may be used to record the res findings. Additional space is provided at the end of this checklist for documenting othe Anchorage	m of equipme ults of judgm er comments.	ent on the ients and		
	Y	N		
 Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? ~24" tall SOV on ~3"diameter line. Piping is well supported near valve. 		X		
	Y	N	U	N/A
2. Is the anchorage free of bent, broken, missing or loose hardware?				Х
	Y	N	<u> </u>	N/A
3. Is the anchorage free of corrosion that is more than mild surface oxidation?				X
	Y	N	U	N/A
4. Is the anchorage free of visible cracks in the concrete near the anchors?				Х

Y

 $\frac{Y}{X}$

Ν

Ν

U

U

N/A X

- 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.)
- 6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?

DCS	Paul C.	Rizzo	Associates,	Inc.
	ENGINEERS &	CONSUL	IANTS	

Seismic Walkdow	n Checklist (SWC)	Status:	(Ν	U
Equipment ID No.	2CHS-SOV206 Equip. Class 8B. Solenoi	d Valve			
Equipment Descrit	Equip Chase C2 - Enter ption Alternate Emergency Borate Valve				
		·····		_	
Interaction Effect	is a second s				
		Y	N	U	N/A
7. Are soft targets	free from impact by nearby equipment or structures?	X			
		Y	N	U	N/A
8. Are overhead ed	uipment, distribution systems, ceiling tiles and lighting,	X			
and masonry blo	ck walls not likely to collapse onto the equipment?				
		Y	N	U	N/A
9. Do attached line Attached lines hav	es have adequate flexibility to avoid damage?	X			
Indened tines hav					
		Y	N	U	ł
10. Based on the a	bove seismic interaction evaluations, is equipment free dverse seismic interaction effects?				
of potentially a	dverse seisine interaction effects:				
Other Adverse C	anditions	<u> </u>		-	
11. Have you look	ed for and found no other seismic conditions that could	Y	N	U	
adversely affec	t the safety functions of the equipment?	X			
Comments (Addit	tional pages may be added as necessary)			-	
	- this M Show fl				
Evaluated by:	Eddie M. Guerra	Date:10/10/	2012	_	
	Entful!				
	Brian A. Lucarelli	Date: 10/10/	2012		



Seismic Walkdown Checklist (SWC)

Equipment ID No. 2CHS-SOV206

Equip. Class 8B. Solenoid Valve

Equipment Description

Alternate Emergency Borate Valve



File Name: 2-61-1-2-04.jpeg Description: Component Plate ID



File Name: 2-62-1-2-04.jpeg Description: General View of Component and Main Line

Paul C. Rizzo	Associates, Inc.					:	Sheet 77 of 513
				Status:	\odot	N	U
Seismic Walkdown Check	list (SWC)						
Equipment ID No. <u>2CHS</u>	-TK21A	Equip. Class 21.	Tanks and Hea	t Exchangers			
Equipment Description	Boric Acid Tank						
Location: Bldg. <u>AXLE</u>	Floor El.	755	Room	AXLB 755	Boric Aci	d TK Ro	om
Manufacturer, Model, Etc.							
Instructions for Completing This checklist may be used SWEL. The space below ea findings. Additional space i	ng Checklist to document the results ch of the following que s provided at the end o	s of the Seismic Wall estions may be used t f this checklist for do	cdown of an ite to record the re ocumenting oth	em of equipm sults of judgn er comments.	ent on the nents and		
Anchorage				v	N		
1. Is the anchorage configur	ation verification requi	ired (i.e., is the item	one	X			
of the 50% of SWEL iter Flat bottomed tank anchore perimeter. Chairs are 12 in top plates	ns requiring such verifi ad by 6-1 3/4"diameter aches high with 3/4 incl	cation)? anchor bolts around h thick side plates an	l tank d 1.5 inch thic	k			
				Y	N	U	N/A
2. Is the anchorage free of b	ent, broken, missing of	r loose hardware?					
	·			Y	<u>N</u>	U	N/A
3. Is the anchorage free of c oxidation?	orrosion that is more the	an mild surface			L		
				Y	N	U	N/A
4. Is the anchorage free of v	visible cracks in the cor	crete near the ancho	rs?	X			
				Y	N	U	N/A
5. Is the anchorage configur (Note: This question only which an anchorage con Drawing No. 2003.470-033 diameter anchors around to	ration consistent with p applies if the item is c figuration verification -011 confirms anchora ank perimeter.	lant documentation? one of the 50% for is required.) ge configuration as	5-1 3/4"	X			
				<u>Y</u>	<u>N</u>	U	I
 Based on the above ancher potentially adverse seisn 	orage evaluations, is th nic conditions?	e anchorage free of		X			



		Status:	\heartsuit	Ν	U
Seismic Walkdown Checklist (SWC)					
Equipment ID No. <u>2CHS-TK21A</u> Equip. Class 21. Tanks	and Heat Exc	changers			
Equipment Description Boric Acid Tank					
Interaction Effects					
7 Are soft toroots from from immost by morehy againment or structures?	Γ_	Y V	<u>N</u>	<u> </u>	<u>N/A</u>
7. Are son targets free from impact by hearby equipment of structures?					
	F	<u>Y</u>	<u>N</u>		N/A
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	L_	X			
		Y	N	U	N/A
9. Do attached lines have adequate flexibility to avoid damage?		X			
		Y	N	U	
10. Based on the above seismic interaction evaluations, is equipment free		X			
of potentially adverse seismic interaction effects?					
Other Adverse Conditions	<u></u>	<u></u>			
11. Have you looked for and found no other seismic conditions that could		Y	N	<u> </u>	
adversely affect the safety functions of the equipment?	L				
Comments (Additional pages may be added as necessary)	<u> </u>		<u></u>		
- the Manual					
Evaluated by: Eddie M. Guerra	Date:	10/10/2	2012		
Entfil.					

Brian A. Lucarelli

Date:

10/10/2012



Seismic Walkdown Checklist (SWC)

Equipment ID No. 2CHS-TK21A

Equip. Class 21. Tanks and Heat Exchangers

Equipment Description

Other supporting or relevant documents and photos (if any):



Boric Acid Tank

File Name: 2-61-4-2-04.jpeg Description: Component Plate ID



File Name: 2-62-4-2-04.jpeg Description: Close Up View of Anchorage



Seismic Walkdown Checklist (SWC)

Equipment ID No. 2CHS-TK21A

Equip. Class 21. Tanks and Heat Exchangers

Equipment Description

Boric Acid Tank



File Name: 2-63-4-2-04.jpeg Description: General View of Component



File Name: 2-64-4-2-04.jpeg Description: General View of Pedestal and Anchorage

Paul C. Rizzo Associates, Inc. ENGINEERS & CONSULTANTS				Sheet 81 of 513
Seismic Walkdown Checklist (SWC)	Status:	\heartsuit	N	U
Equipment ID No. <u>2CVS-SOV102</u> Equip. Class 8B. Solenoid Valve				
Equipment Description Containment ISO CIS Penetr #43				
Location: Bldg. MSCV Floor El. 718 Room	<u>MSCV 71</u> 8			
Manufacturer, Model, Etc.				
Instructions for Completing Checklist This checklist may be used to document the results of the Seismic Walkdown of an iter SWEL. The space below each of the following questions may be used to record the res findings. Additional space is provided at the end of this checklist for documenting othe	n of equipmen ults of judgme er comments.	nt on the ents and		
 Anchorage 1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? SOV on ~1 3/4" diameter line. Main line is well supported within ~10" of valve on each side. 	Y	N X		
2. Is the anchorage free of bent, broken, missing or loose hardware?	Y	N	U	N/A X
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	Y	N	U	N/A X
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Y	N	U	N/A X
5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)	Y	N	<u> U </u>	N/A X
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	Y X	N	U	



			Status:	(Ν	U
Seismic Walkdow	vn Checklist (SWC)					
Equipment ID No.	Equip. Class 8B. Solenoid	d Valve				
Equipment Descri	ption Containment ISO CIS Penetr #43					
Interaction Effec	ts		17	N	TT	NT/ A
7. Are soft targets	free from impact by nearby equipment or structures?		X			
8. Are overhead ed and masonry blo	quipment, distribution systems, ceiling tiles and lighting, ock walls not likely to collapse onto the equipment?		Y X	<u>N</u>	U	N/A
		- -	Y	<u>N</u>	U	N/A
9. Do attached line Attached lines fou	es have adequate flexibility to avoid damage? nd with adequate flexibility.		<u> </u>			
10 D 1 1		Γ-	Y	N	U	
of potentially a	dove seismic interaction evaluations, is equipment free idverse seismic interaction effects?	L.,		<u> </u>		
Other Adverse C	Conditions					
11. Have you look adversely affec	ted for and found no other seismic conditions that could to the safety functions of the equipment?		Y X	<u>N</u>	0	
Comments (Addi	tional pages may be added as necessary)		<u> </u>			
	- the M. Small					
Evaluated by:	Eddie M. Guerra	Date:	10/10/2	2012		
	Entful!					
	Brian A. Lucarelli	Date:	10/10/2	2012		



Seismic Walkdown Checklist (SWC)

Equipment ID No. <u>2CVS-SOV102</u>

Equip. Class 8B. Solenoid Valve

Equipment Description

Containment ISO CIS Penetr #43



File Name: 2-61-1-2-11.jpeg Description: General View of Component



File Name: 2-64-1-2-11.jpeg Description: General View of Component and Attached Lines



Paul C. Rizzo Associates, Inc. ENGINEERS & CONSULTANTS

Status: 🕅 N U

Seismic Walkdown Checklist (SWC)

Equipment ID No. 2CVS-SOV102

Equip. Class 8B. Solenoid Valve

Equipment Description

Containment ISO CIS Penetr #43



File Name: 2-73-1-2-11.jpeg Description: General View of Area

Paul C. Rizzo Associates, Inc. ENGINEERS & CONSULTANTS				Sheet 85 of 513
Seismic Walkdown Checklist (SWC)	Status:	\heartsuit	N	U
Equipment ID No. <u>2CVS-SOV151A</u> Equip. Class 8B. Solenoid Valve	;			
Equipment Description CNTM Isolation CIA Penetr 93		<u></u>		
Location: Bldg. MSCV Floor El. 718 Room	<u>MSCV 71</u> 8			
Manufacturer, Model, Etc.				
Instructions for Completing Checklist This checklist may be used to document the results of the Seismic Walkdown of an ite SWEL. The space below each of the following questions may be used to record the res findings. Additional space is provided at the end of this checklist for documenting othe	m of equipme sults of judgme er comments.	nt on the ents and		
Anchorage	Y	N		
 Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Solenoid valve on a ~2" diameter line. Main line is well supported within ~10" of valve on each side. 	,,	X		
2. Is the anchorage free of bent, broken, missing or loose hardware?	Y	N	U	N/A X
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	Y	<u>N</u>	U	N/A X
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Y	N	U	N/A X
5. Is the anchorage configuration consistent with plant documentation?	Y	<u>N</u>	U	N/A X
(Note: 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 potentially adverse seismic conditions?	Y X	N	U	



Seismic Walkdown Checklist (SWC)	Status:	(i)	Ν	U
Equipment ID No. <u>2CVS-SOV151A</u> Equip. Class 8B. Solenoid Valve	e			
Equipment Description CNTM Isolation CIA Penetr 93				<u> </u>
Interaction Effects			-	
7. Are soft targets free from impact by nearby equipment or structures?	Y X	<u>N</u>	U	N/A
	Y	N	U	N/A
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? <i>Temporary scaffolding constructed over component is properly braced and has a</i> <i>seismic qualification tag.</i>			<u> </u>	<u> </u>]
9. Do attached lines have adequate flexibility to avoid damage?	Y X	N	U	N/A
Allached lines found with adequate flexibility.	Y	N	<u> </u>	1
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?			I	1
Other Adverse Conditions 11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment?	Y X	N	- U]
Comments (Additional pages may be added as necessary)			-	
-titis M. Guna LC				
Evaluated by: Eddie M. Guerra Date:	10/10/2	2012	-	
Ent fill.				
Brian A. Lucarelli Date:	10/10/2	2012	-	

Paul C. Rizzo Associates, Inc. ENGINEERS & CONSULTANTS

Status: 🕅 N U

Seismic Walkdown Checklist (SWC)

Equipment ID No. 2CVS-SOV151A

Equip. Class 8B. Solenoid Valve

Equipment Description

CNTM Isolation CIA Penetr 93



File Name: 2-62-2-2-11.jpeg Description: General View of Component



File Name: 2-64-2-2-11.jpeg Description: General View of Component



Paul C. Rizzo Associates, Inc. ENGINEERS & CONSULTANTS

Status: 🕅 N U

Seismic Walkdown Checklist (SWC)

Equipment ID No. <u>2CVS-SOV151A</u>

Equip. Class 8B. Solenoid Valve

Equipment Description

CNTM Isolation CIA Penetr 93



File Name: 2-73-2-2-11.jpeg Description: General View of Area

Paul C. Rizzo Associates, Inc.				Sheet 89 of 513
Seismic Walkdown Checklist (SWC)	Status:	\bigotimes	N	U
Equipment ID No. 2DAS-AOV100A Equip. Class 7. Pneumatic-Operation	ated Valves			
Equipment Description CNMT Isolation CIA Penetr 38				
Location: Bldg. RCBX Floor El. 718 Room Manufacturer, Model, Etc. Another Action and Act	<u>RCBX 718</u> -	PEN-724	COL 9	
Instructions for Completing Checklist This checklist may be used to document the results of the Seismic Walkdown of an ite SWEL. The space below each of the following questions may be used to record the res findings. Additional space is provided at the end of this checklist for documenting othe	m of equipme sults of judgm er comments.	ent on the ents and		
Anchorage	V	N		
 Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Tall AOV (~3') mounted on ~3" diam line. Line is supported ~12" from valve on one side. 		X		
	Y	N	U	N/A
2. Is the anchorage free of bent, broken, missing or loose hardware?				
3. Is the anchorage free of corrosion that is more than mild surface	Y	N	U	N/A X
oxidation?				
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Y	<u>N</u>	U	N/A X
	Y	<u>N</u>	U	N/A
(Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)	L			

N U

Y X

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?

Paul ENGINI	C. Rizzo Associates, Inc.				:	Sheet 90 of 513
Seismic Walkdov	wn Checklist (SWC)		Status:	\odot	N	U
Equipment ID No	2DAS-AOV100A Equip. Class 7. Pneur	natic-Oper	ated Valves			
Equipment Descr	iption CNMT Isolation CIA Penetr 38					<u></u>
Interaction Effec	ets		V	NĬ		NI/A
7. Are soft targets	free from impact by nearby equipment or structures?		Y X	<u>IN</u>	0	
			Y	<u>N</u>	U	N/A
8. Are overhead e and masonry bl	equipment, distribution systems, ceiling tiles and lighting, ock walls not likely to collapse onto the equipment?		X		l	<u> </u>]
			Y	N	U	N/A
9. Do attached lin	les have adequate flexibility to avoid damage?					L]
10. Based on the	above seismic interaction evaluations, is equipment free		Y	N	U]
of potentially	adverse seismic interaction effects?					
Other Adverse (Conditions				-	
11. Have you loo adversely affe	ked for and found no other seismic conditions that could ct the safety functions of the equipment?		Y X	<u>N</u>]
Comments (Add	itional pages may be added as necessary)				-	
	- this Mahma fl					
Evaluated by:	Eddie M. Guerra	Date:	10/10/2	2012	_	
	Sout full.					
	Brian A. Lucarelli	Date:	10/10/	2012	_	





File Name: 2-61-10-2-19.jpeg Description: General View of Component



File Name: 2-63-10-2-19.jpeg Description: View of Main Line



Seismic Walkdown Checklist (SWC)

Equipment ID No. 2DAS-AOV100A

Equip. Class 7. Pneumatic-Operated Valves

Equipment Description

CNMT Isolation CIA Penetr 38



File Name: 2-64-10-2-19.jpeg Description: General View of Component Area

Paul C. Rizzo Associates, Inc. ENGINEERS & CONSULTANTS			2	sheet 93 of
Seismic Walkdown Checklist (SWC)	Status:	\odot	N	U
Equipment ID No. <u>2EGF-LIS203A</u> Equip. Class 18. Instrument on	Rack			
Equipment Description Emergency Gen Day Tank Level Indicator				
Location: Bldg. DGBX Floor El. 732 Room	EDG 2-1			
Manufacturer, Model, Etc.				

Instructions for Completing Checklist

This checklist may be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

Anchorage

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?

Mounted to plate with $4 \sim 1/2$ " diameter machine bolts. Plate is anchored to wall with $\sim 2^{"}$ fillet welds to wall embed on top left and bottom left, $2 \sim 1/4^{"}$ anchor bolts on right.

- 2. Is the anchorage free of bent, broken, missing or loose hardware?
- 3. Is the anchorage free of corrosion that is more than mild surface oxidation?
- 4. Is the anchorage free of visible cracks in the concrete near the anchors?
- 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.)
- 6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?



Y

N

Х

Sheet 93 of 513



Seismic Walkdov	wn Checklist (SWC)		Status:	\heartsuit	Ν	U
Equipment ID No	2EGF-LIS203A Equip. Class 18. Inst	rument on R	Rack			
Equipment Descri	iption Emergency Gen Day Tank Level Indicator					
Interaction Effec	ets				-	NT/ A
7. Are soft targets	free from impact by nearby equipment or structures?		X X	<u>N</u>		N/A
8. Are overhead e	auipment, distribution systems, ceiling tiles and lighting.		Y X	<u>N</u>	U	N/A
and masonry blo	ock walls not likely to collapse onto the equipment?				<u> </u>	
9. Do attached lin	es have adequate flexibility to avoid damage?		Y X	<u>N</u>	U	_N/A
Attached lines for	<i>und with adequate flexibility.</i>		Y	N	U	
10. Based on the a of potentially a	above seismic interaction evaluations, is equipment free adverse seismic interaction effects?		X			
					_	
Other Adverse C 11. Have you look adversely affect	Conditions ked for and found no other seismic conditions that could ct the safety functions of the equipment?		Y X	<u>N</u>	U	
Comments (Addi	itional pages may be added as necessary)		<u></u>		-	
	- Here M. Show Le					
Evaluated by:	Eddie M. Guerra	Date:	10/10/2	2012	-	
	Entfull.					
	Brian A. Lucarelli	Date:	10/10/2	2012	_	



Seismic Walkdown Checklist (SWC)

Equipment ID No. 2EGF-LIS203A

Equip. Class 18. Instrument on Rack

Equipment Description

Emergency Gen Day Tank Level Indicator



File Name: 2EGF-LIS203A(1).jpg Description: Component Plate ID



File Name: 2EGF-LIS203A(2).jpg Description: General View of Component



Seismic Walkdown Checklist (SWC)

Equipment ID No. 2EGF-LIS203A

Equip. Class 18. Instrument on Rack

Equipment Description

Emergency Gen Day Tank Level Indicator



File Name: 2EGF-LIS203A(3).jpg Description: View of Component Anchorage

Paul C ENCINEER	C. Rizzo As 5 & consultant	sociates, Inc.					5	Sheet 97 of 5	13
Seismic Walkdowr	n Checklist	: (SWC)			Status:	Ŷ	N	U	
Equipment ID No.	2EGF-P2	<u>1A</u>	Equip. Class	6. Vertical Pumps					
Equipment Descrip	tion	C/S DG 2-1 Fuel Oil	XFER PP						
Location: Bldg.	DGBX	Floor El.	732	Room	EDG 2-1				
Manufacturer, Mod	el, Etc.								

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 the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?
 Vertical pump connected to embedded pipe flange with 12~3/4" diameter machine

bolts around perimeter.

2. Is the anchorage free of bent, broken, missing or loose hardware?



- 4. Is the anchorage free of visible cracks in the concrete near the anchors?
- 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.)
- 6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?



Y



U

N/A

Ν







Paul ENCINE	C. Rizzo Associates, Inc.				5	Sheet 98 of 513
Seismic Walkdov	vn Checklist (SWC)		Status:	Ŷ	N	U
Equipment ID No	. <u>2EGF-P21A</u> Equip. Class 6. Vertica	al Pumps				
Equipment Descri	ption C/S DG 2-1 Fuel Oil XFER PP				_	
Interaction Effec	ts		v	N	Ĩ	N/A
7. Are soft targets	free from impact by nearby equipment or structures?					
8. Are overhead e	quipment, distribution systems, ceiling tiles and lighting, ock walls not likely to collapse onto the equipment?		Y X	N	U	N/A
9. Do attached lin	es have adequate flexibility to avoid damage?		Y X	N	U	N/A
10. Based on the a of potentially a	above seismic interaction evaluations, is equipment free adverse seismic interaction effects?		Y X	N	<u>U</u>]
~4"diameter nozz	le piping has a tributary span of \sim 14 feet and is judged acc	ceptable.				
Other Adverse C 11. Have you loo adversely affect	Conditions ked for and found no other seismic conditions that could ct the safety functions of the equipment?		Y X	N	- U]
Comments (Add	itional pages may be added as necessary)			<u> </u>	-	
	= this M. June L					
Evaluated by:	Eddie M. Guerra	_Date:	10/10/2	2012	_	
	Entfull.					
	Brian A. Lucarelli	_Date:	10/10/2	2012	_	



Seismic Walkdown Checklist (SWC)

Equipment ID No. 2EGF-P21A

Equip. Class 6. Vertical Pumps

Equipment Description

C/S DG 2-1 Fuel Oil XFER PP



File Name: 2EGF-P21A(1).jpg Description: Component Plate ID



File Name: 2EGF-P21A(2).jpg Description: General View of Component and Anchorage



Seismic Walkdown Checklist (SWC)

Equipment ID No. 2EGF-P21A

Equip. Class 6. Vertical Pumps

Equipment Description

C/S DG 2-1 Fuel Oil XFER PP



File Name: 2EGF-P21A(3).jpg Description: View of Attached Lines

Paul C. Ri ENGINEERS & COL	zzo Associates	s, Inc.					SI	heet 101 of 513
					Status:	(N	U
Seismic Walkdown Ch	ecklist (SWC)						
Equipment ID No. <u>2E</u>	GF-TK22A		Equip. Class 2	21. Tanks and Hea	t Exchangers			
Equipment Description	Diese	l Gen Fuel Oi	l Day Tank					
Location: Bldg. DC	BBX	Floor El.	732	Room	EDG 2-1			
Manufacturer, Model, E	tc.							
Instructions for Comp This checklist may be us SWEL. The space below findings. Additional spa	leting Checkl sed to docume v each of the f ce is provided	ist ent the results following que l at the end of	of the Seismic V stions may be us this checklist fo	Valkdown of an ite ed to record the re r documenting oth	em of equipmo sults of judgn er comments.	ent on the nents and		
Anchorage		.			Y	<u>N</u>		
1. Is the anchorage conf of the 50% of SWEL Horizontal tank support diameter anchor bolts.	items requirir <i>ited by two tall</i>	fication requiring such verific saddles. Eac	red (i.e., is the ite cation)? ch saddle is anch	em one ored by 4-7/8"				
2. Is the anchorage free	of bent, broke	en, missing or	loose hardware?	,	Y X	N	U	N/A
3. Is the anchorage free	of corrosion t	hat is more th	an mild surface		Y X	N	U	N/A
oxidation?								
A. Is the anchorage free	of visible cra	eks in the con	crete near the an	chors?	Y	<u>N</u>	U	N/A
4. Is the anchorage nee			crete hear the an			J		ļJ
5. Is the anchorage conf	iguration con	sistent with p	lant documentati	on?	Y X	N	U	N/A
(Note: This question which an anchorage Drawing 10080-RC-292 configuration as two pla	only applies i configuratior 4 and Drawin ates, each and	f the item is on a verification g 10080-RC-2 hored by 4-7/	ne of the 50% fo is required.) 29B confirm anc. /8" diameter anc.	r horage hor bolts.				
6. Based on the above a potentially adverse s	nchorage eva eismic condit	luations, is th ions?	e anchorage free	of	Y X	N	U]

Paul C. Rizzo Associates, Inc. ENCINEERS & CONSULTANTS			S	heet 102 of 5
	Status:	(N	U
Seismic Walkdown Checklist (SWC)				
Equipment ID No. <u>2EGF-TK22A</u> Equip. Class 21. Tanks and He	eat Exchangers			
Equipment Description Diesel Gen Fuel Oil Day Tank				
Interaction Effects	Y	NT		NT/A
7. Are soft targets free from impact by nearby equipment or structures?	Y X	<u>N</u>		N/A
	Y	N	U	N/A
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	X			
Overhead cable trays are adequately supported. Flourescent lighting judged not to create significant impact.				
	Y	N	U	N/A
9. Do attached lines have adequate flexibility to avoid damage? Attached small diameter lines have adequate flexibility. One \sim 4" diameter line has a tributary span of \sim 14' and is judged to be acceptable.				
	Y	N	U	
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 other seismic conditions that could	Y	N	U	1
adversely affect the safety functions of the equipment?			l	ļ
Comments (Additional pages may be added as necessary)			_	
- the Man fl				
Evaluated by: Eddie M. Guerra Date:	10/10/2	2012	_	
Smit full.				
u				

10/10/2012

Sheet 102 of 513

Date:

Brian A. Lucarelli





File Name: 2EGF-TK22A(1).jpg Description: Component Plate ID



File Name: 2EGF-TK22A(2).jpg Description: General View of Component



Seismic Walkdown Checklist (SWC)

Equipment ID No. 2EGF-TK22A

Equip. Class 21. Tanks and Heat Exchangers

Equipment Description

Diesel Gen Fuel Oil Day Tank



File Name: 2EGF-TK22A(3).jpg Description: View of Anchor Bolts



File Name: 2EGF-TK22A(4).jpg Description: View of Attached Lines

Por Paul C. Rizzo Associates. Inc.		Sheet 105 of 513
ENGINEERS & CONSULTANTS		
	Status: 🕅	N U

Seismic Walkdown Checklist (SWC)

Equipment ID No. 2EGF-TK22A

Equip. Class 21. Tanks and Heat Exchangers

Equipment Description

Diesel Gen Fuel Oil Day Tank



File Name: 2EGF-TK22A(5).jpg Description: View of Attached Lines

Paul C. Rizz	zo Associates, Inc. utrants					Sh	eet 106 of	513
Seismic Walkdown Chee	cklist (SWC)			Status:	\heartsuit	N	U	
Equipment ID No. 2EG	S-EG2-1	Equip. Class	17. Diesel Generat	or				
Equipment Description	Emergency Diesel	Generator						
Location: Bldg. DGI	BX Floor El.	732	Room	EDG 2-1				
Manufacturer, Model, Etc	o							

Instructions for Completing Checklist

This checklist may be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

Anchorage

1. Is the anchorage configuration verification required (i.e., is the item one
of the 50% of SWEL items requiring such verification)?
Component anchored around perimeter by 1.5" diameter anchor bolts

- 2. Is the anchorage free of bent, broken, missing or loose hardware?
- 3. Is the anchorage free of corrosion that is more than mild surface oxidation?
- 4. Is the anchorage free of visible cracks in the concrete near the anchors?
- 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.)

Drawing 10080-RC-29B confirms 1.5" diameter anchor bolt configuration as described in question 1 above.

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?







Seismic Walkdown Checklist (SWC)	Status:	(Ν	U
Equipment ID No. <u>2EGS-EG2-1</u> Equip. Class 17. Diesel Generator				
Equipment Description Emergency Diesel Generator				<u> </u>
Interaction Effects	V	N	IT	N/A
7. Are soft targets free from impact by nearby equipment or structures?	X			IN/A
8 Are overhead equipment distribution systems, soiling tiles and lighting	Y v	<u>N</u>	U	N/A
and masonry block walls not likely to collapse onto the equipment? <i>Temporary scaffolding in area is properly braced.</i>				
9. Do attached lines have adequate flexibility to avoid damage?	Y X	_N	U	N/A
10. Based on the above seismic interaction evaluations, is equipment free	Y X	N	U	
of potentially adverse seismic interaction effects?				
Other Adverse Conditions 11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment?	Y X	N	U	
Comments (Additional pages may be added as necessary)				
- this Mining De				
Evaluated by: Eddie M. Guerra Date:	10/10/2	2012		
Entfull.				

Brian A. Lucarelli

_Date: ____

10/10/2012


Seismic Walkdown Checklist (SWC)

Equipment ID No. 2EGS-EG2-1

Equip. Class 17. Diesel Generator

Equipment Description

Emergency Diesel Generator



File Name: 2EGS-EG2-1(1).jpg Description: Component Plate ID



File Name: 2EGS-EG2-1(2).jpg Description: General View of Component



Seismic Walkdown Checklist (SWC)

Equipment ID No. 2EGS-EG2-1

Equip. Class 17. Diesel Generator

Equipment Description

Emergency Diesel Generator



File Name: 2EGS-EG2-1(3).jpg Description: View of Exhaust Pipe Bracing



File Name: 2EGS-EG2-1(4).jpg Description: View of Typical Anchor Bolts

Engineers & consultants						
			Status:	(N	U
eismic Walkdown Checklist (SWC)						
Equipment ID No. 2FNC-108	Equip. Class 0D. Ot	her-Check V	alve or Manu	al Valve		
Equipment Description Cooling Pur	p (2FNC*P21A) Discharge (Check Valve				
Location: Bldg. <u>FULB</u> Floo	r El. <u>729</u>	Room	FULB 729	PMP Roo	m	
Manufacturer, Model, Etc.						
Instructions for Completing Checklist This checklist may be used to document the	results of the Seismic Walkdo	own of an ite record the res	m of equipme sults of judgm	ent on the lents and		
SwEL. The space below each of the follow						

Anchorage

 \sim

 Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?
 Check valve on ~6"diameter discharge line.

- 2. Is the anchorage free of bent, broken, missing or loose hardware?
- 3. Is the anchorage free of corrosion that is more than mild surface oxidation?
- 4. Is the anchorage free of visible cracks in the concrete near the anchors?
- 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.)
- 6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?





Sheet 110 of 513









Paul ENCINE	C. Rizzo Associates, Inc.				S	Sheet 111 of 513
Seismic Walkdov	wn Checklist (SWC)		Status:	(Ν	U
Equipment ID No	Equip. Class 0D. Other	er-Check V	alve or Manu	al Valve		
Equipment Descri	iption Cooling Pump (2FNC*P21A) Discharge Ch	neck Valve				
Interaction Effec	ets		v	N	IJ	N/A
7. Are soft targets	free from impact by nearby equipment or structures?					
8. Are overhead e	auipment, distribution systems, ceiling tiles and lighting.		Y	<u>N</u>	U	N/A
and masonry blo	ock walls not likely to collapse onto the equipment?		<u> </u>			<u> </u>
9. Do attached lin	es have adequate flexibility to avoid damage?		Y X	N	U	N/A
			<u>Y</u>	N	U	-
10. Based on the a of potentially a	above seismic interaction evaluations, is equipment free adverse seismic interaction effects?		X	<u></u>	l	
Other Adverse C 11. Have you lool	Conditions ked for and found no other seismic conditions that could		Y	N	U	_
adversely affe	ct the safety functions of the equipment?		X	<u> </u>		J
Comments (Add	itional pages may be added as necessary)	<u></u>	<u></u>		-	
	- titis M. Gun fl					
Evaluated by:	Eddie M. Guerra	Date:	10/10/2	2012	-	
	Brian A. Lucarelli	Date:	10/10/2	2012		



Seismic Walkdown Checklist (SWC)

Equipment ID No. 2FNC-108

Equip. Class 0D. Other-Check Valve or Manual Valve

Equipment Description

Cooling Pump (2FNC*P21A) Discharge Check Valve



File Name: 2-61-6-2-29.jpeg Description: Component Plate ID



File Name: 2-62-6-2-29.jpeg Description: General View of Component

Paul C. Rizzo Associates, Inc. ENCINEERS & CONSULTANTS	She	et 113 of 513
Seismic Walkdown Checklist (SWC)	Status: 🕅 N	U

Equipment ID No. 2FNC-108

Equip. Class 0D. Other-Check Valve or Manual Valve

Equipment Description

Cooling Pump (2FNC*P21A) Discharge Check Valve



File Name: 2-63-6-2-29.jpeg Description: General View of Component

Paul C. Rizzo A ENGINEERS & CONSULTAN	ssociates, Inc.					S	heet 114 of 513
				Status:	\odot	N	U
Seismic Walkdown Checklis	st (SWC)						
Equipment ID No. <u>2FNC-E</u>	21A	Equip. Class 2	I. Tanks and Hea	t Exchangers			
Equipment Description	Fuel Pool Heat Exc	hanger					
Location: Bldg. <u>FULB</u>	Floor El.	740	Room	FULB 741	HX Room		
Manufacturer, Model, Etc.	<u> </u>						
Instructions for Completing This checklist may be used to SWEL. The space below each findings. Additional space is p	g Checklist document the results a of the following ques provided at the end of	of the Seismic W stions may be use this checklist for	alkdown of an ite d to record the re documenting oth	em of equipm sults of judgr er comments	ent on the nents and		
Anchorage				V	N		
1. Is the anchorage configurat of the 50% of SWEL items ~4'diameter HX mounted on 2 pedestals with 4-1" diameter of	tion verification requin requiring such verific 2 saddles. Each saddle anchor bolts.	red (i.e., is the iter cation)? e mounted to ~18'	n one ' tall concrete	X			
				Y	N	U	N/A
2. Is the anchorage free of ber	nt, broken, missing or	loose hardware?		X			<u> </u>
3. Is the anchorage free of con	rrosion that is more th	an mild surface		Y X	<u>N</u>	U	N/A
oxidation?							
				Y	N	U	N/A
4. Is the anchorage free of vis	sible cracks in the con-	crete near the anc	hors?	X	_]
5. Is the anchorage configurat	tion consistent with pl	ant documentatio	n9	Y	N	U	N/A
(Note: This question only a which an anchorage confi Drawing No. 10080-RC-0038 each anchored with 4-1" diam	applies if the item is or guration verification i BK confims anchorage neter anchor bolts.	ne of the 50% for is required.)	two supports,		U I.e		I
6. Based on the above anchor potentially adverse seismic	age evaluations, is the conditions?	e anchorage free o	f	Y X	N	<u>U</u>]



Seismic Walkdown Checklist (SWC)	Status:	\odot	N	U
Equipment ID No. 2FNC-E21A Equip. Class 21. Tanks and Heat E	xchangers			
Equipment Description Fuel Pool Heat Exchanger				
Interaction Effects	Y	N	U	N/A
7. Are soft targets free from impact by nearby equipment or structures?	X			
ол на сили и и и и и и Г	Y	N	U	N/A
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	<u> </u>			
0. Do attached lines have adequate flowibility to avoid demage?	Y x	<u>N</u>	U	N/A
9. Do attached files have adequate flexibility to avoid damage:	Λ			
10. Based on the above seismic interaction evaluations, is equipment free	Y X	N	U	
of potentially adverse seismic interaction effects?				
Other Adverse Conditions 11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment?	Y X	N	U]

Comments (Additional pages may be added as necessary)

Piping from pump 2FNC-P21A to heat exchanger 2FNC-E21A spans ~50' and was observed to have minimal lateral support. Nozzle load/pipe stress calculation was checked to verify that pump was designed for nozzle loads, and the configuration was judged to be adequate. See also SWC for 2FNC-P21A (Sheet 124 of 513).

the Mant

Evaluated by:

Eddie M. Guerra

10/10/2012 Date:

Sunt for

Brian A. Lucarelli

Date:

10/10/2012



Seismic Walkdown Checklist (SWC)

Equipment ID No. 2FNC-E21A

Equip. Class 21. Tanks and Heat Exchangers

Equipment Description

Fuel Pool Heat Exchanger



File Name: 2-61-2-2-29.jpeg Description: Component Plate ID



File Name: 2-62-2-29.jpeg Description: General View of Component

Paul C. Rizzo Associates, Inc. ENGINEERS & CONSULTANTS			Sł	neet 117 of 51	3
Seismic Walkdown Checklist (SWC)	Status:	8	N	U	
Equipment ID No. <u>2FNC-E21A</u>	Equip. Class 21. Tanks and Heat Exchangers				

Equipment Description

Fuel Pool Heat Exchanger



File Name: 2-63-2-2-29.jpeg Description: Close Up View of Saddle Support



File Name: 2-64-2-2-29.jpeg Description: Close Up View of Anchorage



Seismic Walkdown Checklist (SWC)

Equipment ID No. 2FNC-E21A

Equip. Class 21. Tanks and Heat Exchangers

Equipment Description

Fuel Pool Heat Exchanger



File Name: 2-73-2-29.jpeg Description: General View of Component

Paul C. Rizzo Associates, Inc.	Sheet 119 of 51	3
Seismic Walkdown Checklist (SWC)	Status: 🕅 N U	
Equipment ID No. <u>2FNC-EJM230A</u> Equip. Class 0	0. Other	
Equipment Description <u>2FNC-P21A Suction Header Exp Jo</u>	loint	
Location: Bldg. FULB Floor El. 729	Room <u>FULB 729</u> PMP Room	
Manufacturer, Model, Etc.		

Instructions for Completing Checklist

This checklist may be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

Anchorage

1. Is the anchorage configuration verification required (i.e., is the item one
of the 50% of SWEL items requiring such verification)?
Expansion joint with limit rods. Attached piping is well supported.

- 2. Is the anchorage free of bent, broken, missing or loose hardware?
- 3. Is the anchorage free of corrosion that is more than mild surface oxidation?
- 4. Is the anchorage free of visible cracks in the concrete near the anchors?
- 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.)
- 6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?



Y

X

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		b	neet 120 of 5
Status:	Ŷ	N	U
			21/4
Y V	<u>N</u>		
		L	
			57/1
Y V	N		
	<u></u>	L	L
Y	N	U	N/A
X			
Y	N	U	
X]
	N	- •	
x I	IN		1
	Status:	Status: \bigcirc Y N X	Status: \bigotimes N Y N U Y N U Y N U Y N U Y N U Y N U Y N U Y N U Y N U Y N U Y N U Y N U Y N U Y N U Y N U Y N U

Comments (Additional pages may be added as necessary)

this Mgmafl

configuration was judged to be adequate. See also SWC for 2FNC-P21A (Sheet 124 of 513).

Evaluated by:

Eddie M. Guerra

Brian A. Lucarelli

Date: ____1

Date:

10/10/2012

10/10/2012



Status:	(Y)	N	U

Seismic Walkdown Checklist (SWC)

 Equipment ID No.
 2FNC-EJM230A
 Equip. Class 0. Other

 Equipment Description
 2FNC-P21A Suction Header Exp Joint



File Name: 2-61-8-2-29.jpeg Description: General View of Component



File Name: 2-62-8-2-29.jpeg Description: General View of Component



Seismic Walkdown Checklist (SWC)

Equipment ID No.	2FNC-EJM230A	Equip. Class 0. Other	
Equipment Descript	ion <u>2FNC-P21A Suction</u>	on Header Exp Joint	



File Name: 2-63-8-2-29.jpeg Description: Close Up View of Component

Engineers & consultants			51	leet 125 01 5
	Status	: 10	N	U
Seismic Walkdown Checklist (SWC)				
Equipment ID No. <u>2FNC-P21A</u> Equip. Class 5. Horizontal Pun	nps			
Equipment Description Fuel Pool Cooling Pump				
Location: Bldg. <u>FULB</u> Floor El. <u>729</u> Room	<u>FULB 72</u>	9 PMP Room		
Manufacturer, Model, Etc.				
Instructions for Completing Checklist This checklist may be used to document the results of the Seismic Walkdown of an it SWEL. The space below each of the following questions may be used to record the r findings. Additional space is provided at the end of this checklist for documenting ot	tem of equipt esults of judg her comment	ment on the gments and s.		
Anchorage	V	N		
 Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Small pump on skid anchored by 4-3/4" diameter anchor bolts. 	X			
	Y	N	U	N/A
2. Is the anchorage free of bent, broken, missing or loose hardware?	<u> </u>			J
	Y	N	U	N/A
oxidation?		<u>I I</u>		J
	Y	N	U	N/A
4. Is the anchorage free of visible cracks in the concrete near the anchors?	X			
	<u> </u>	N	U	N/A
 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.) Drawing No.10080-RC-0038K confirms skid anchored by 4-3/4" diameter anchor 	X	<u> </u>		
bolts.				
C Decad on the above an above a subjections is the anabove so free of	Y X	<u>N</u>	<u> </u>]

DCS	Paul C. Rizzo Associates,	Inc.
_	ENGINEERS & CONSULTANTS	

Solomia Walkdown	Cheatlist (SWC)		Status:	\heartsuit	Ν	U
Equipment ID No.	2ENC-P21A Equip Class 5 Horizot	ntal Pumps				
Equipment ID 110.		nai i unips				
Equipment Description	ion Fuel Pool Cooling Pump					
Interaction Effects	· · · · · · · · · · · · · · · · · · ·					
		г	<u>Y</u>	N	U	N/A
/. Are soft targets fr	ee from impact by nearby equipment or structures?	L			,	
		_	Y	N	U	N/A
8. Are overhead equ and masonry block	ipment, distribution systems, ceiling tiles and lighting, c walls not likely to collapse onto the equipment?		X			
			Y	N	U	N/A
9. Do attached lines	have adequate flexibility to avoid damage?	[X			
			v	N	I	
10. Based on the abo	ove seismic interaction evaluations, is equipment free	[X		0	
Other Adverse Cor	nditions					
11. Have you looked	l for and found no other seismic conditions that could	_	Y	N	U .	
adversely affect t	he safety functions of the equipment?	[X			
Piping from compon support. Nozzle loa nozzle loads, and the	eent to HX 2FNC-E21A spans ~50' and was observed to F d/pipe stress calculation was checked to verify that pump e configuration was judged to be adequate.	ave minima was design	al lateral ned for			
Comments (Additio	onal pages may be added as necessary)		10 f.a			
	= the Almand					
Evaluated by:	Eddie M. Guerra	Date:	10/10/2	2012		
	Entful!					
	Brian A. Lucarelli	Date:	10/10/2	2012	-	



Seismic Walkdown Checklist (SWC)

Equipment ID No. 2FNC-P21A

Equip. Class 5. Horizontal Pumps

Equipment Description

Fuel Pool Cooling Pump



File Name: 2-61-7-2-29.jpeg Description: Component Plate ID



File Name: 2-62-7-2-29.jpeg Description: General View of Component



Seismic Walkdown Checklist (SWC)

Equipment ID No. 2FNC-P21A

Equip. Class 5. Horizontal Pumps

Equipment Description

Fuel Pool Cooling Pump



File Name: 2-63-7-2-29.jpeg Description: Close Up View of Anchorage



File Name: 2-64-7-2-29.jpeg Description: General View of Component





Seismic Walkdown Checklist (SWC)

Equipment ID No. 2FNC-P21A

Equip. Class 5. Horizontal Pumps

Equipment Description

Fuel Pool Cooling Pump



File Name: 2-73-7-2-29.jpeg Description: View of Attached Lines

Paul C. Rizzo Associ Engineers & consultants	ates, Inc.						Sheet 120 01 :
				Status:	(N	U
Seismic Walkdown Checklist (SV	WC)						
Equipment ID No. <u>2FNC-RV10</u>	1	Equip. Class 0. Other					
Equipment Description Re	lief Valve						
Location: Bldg. <u>FULB</u>	Floor El.	740	Room	<u>FULB 741</u> I	HX Room		
Manufacturer, Model, Etc.		8- Azero - Alexandro - Alexand	_				

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 the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?
 Small valve on ~6"diameter inlet piping to HX.

- 2. Is the anchorage free of bent, broken, missing or loose hardware?
- 3. Is the anchorage free of corrosion that is more than mild surface oxidation?
- 4. Is the anchorage free of visible cracks in the concrete near the anchors?
- 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.)
- 6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?



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Soismic Walkdox	vn Chacklist (SWC)		Status:	\heartsuit	Ν	U
Equipment ID No	Equip. Class 0. Othe	er				
Equipment Descri	iption Relief Valve					
Interaction Effec	ets		Y	N	U	N/A
7. Are soft targets	free from impact by nearby equipment or structures?		X			
8. Are overhead e	quipment, distribution systems, ceiling tiles and lighting	,	Y	N	U	N/A
and masonry blo	ock walls not likely to collapse onto the equipment?					
9. Do attached lin	es have adequate flexibility to avoid damage?		Y	N	U	N/A
			Y	N	U	-
10. Based on the a of potentially a	above seismic interaction evaluations, is equipment free adverse seismic interaction effects?		X			ł
Other Adverse C 11. Have you lool adversely affec	Conditions ked for and found no other seismic conditions that could ct the safety functions of the equipment?		Y X	N	- U]
Comments (Addi	itional pages may be added as necessary)				-	
	= this M. Small					
Evaluated by:	Eddie M. Guerra	Date:	10/10/2	2012	_	
	Emtfull.					
	Brian A. Lucarelli	Date:	10/10/2	2012		



Seismic Walkdown Checklist (SWC)

Equipment ID No. 2FNC-RV101

Equip. Class 0. Other

Equipment Description

Other supporting or relevant documents and photos (if any):



Relief Valve

File Name: 2-61-5-2-29.jpeg Description: Component Plate ID



File Name: 2-62-5-2-29.jpeg Description: General View of Component



Seismic Walkdown Checklist (SWC)

Equipment ID No. 2FNC-RV101

Equip. Class 0. Other

Equipment Description



Relief Valve

File Name: 2-63-5-2-29.jpeg Description: General View of Component and Main Line

Paul C. Rizzo Associates, Inc. ENCINEERS & CONSULTANTS			2	Sheet 132 of 513
Seismic Walkdown Checklist (SWC)	Status:	\odot	N	U
Equipment ID No. <u>2FNC-TI101A</u> Equip. Class 19. Temperature	e Sensors			
Equipment Description Fuel Pool HT Exch 2FNC-E21A Inlet Temp				
Location: Bldg. FULB Floor El. 740 Room	n FULB 741 F	IX Room		
Manufacturer, Model, Etc.				
Instructions for Completing Checklist This checklist may be used to document the results of the Seismic Walkdown of an SWEL. The space below each of the following questions may be used to record the findings. Additional space is provided at the end of this checklist for documenting of	item of equipment results of judgments.	nt on the ents and		
Anchorage	Y	N		
of the 50% of SWEL items requiring such verification)? In-line temperature indicator on ~6" diameter line.	L L	Λ		
2. Is the anchorage free of bent, broken, missing or loose hardware?	Y	N	U	N/A X
3 Is the anchorage free of corrosion that is more than mild surface	Y	N	U	N/A X
oxidation?	LL_			
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Y	N	U	N/A
4. Is the anchorage free of visible clacks in the concrete hear the anchors:	L			
5 Is the analysis configuration consistent with plant decomposition?	<u>Y</u>	N	U	N/A
(Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)	L	I		
6. Based on the above anchorage evaluations, is the anchorage free of	Y X	<u>N</u>	U	٦
potentially adverse seismic conditions?		L.,		_

Paul ENGIN	I C. Rizzo Associates, Inc. EERS & CONSULTANTS				S	heet 133 of 513
Seismic Walkdov	wn Checklist (SWC)		Status:	Ŷ	N	U
Equipment ID No	b. <u>2FNC-TI101A</u> Equip. Class 19. Tem	perature S	ensors			
Equipment Descr	iption Fuel Pool HT Exch 2FNC-E21A Inlet Tem	0	`			
Interaction Effec	cts		V	N	ĪI	N/A
7. Are soft targets No interaction co	s free from impact by nearby equipment or structures? <i>ncerns identified</i> .					
9 Are such and a	anianant distribution antone acilias titas ad lighting		Y	N	U	N/A
and masonry bl	ock walls not likely to collapse onto the equipment?				!	L
9. Do attached lin	tes have adequate flexibility to avoid damage?		Y X	N	U	N/A
10. Based on the	above seismic interaction evaluations, is equipment free		Y X	N	U]
or potentially a						
Other Adverse (11. Have you loo adversely affe	Conditions ked for and found no other seismic conditions that could ct the safety functions of the equipment?		Y X	N	U]
Comments (Add	itional pages may be added as necessary)				-	
	- this Minufl					
Evaluated by:	Eddie M. Guerra	Date:	10/10/2	2012	-	
	Sunt full.					
	Brian A. Lucarelli	Date:	10/10/2	2012	-	



Seismic Walkdown Checklist (SWC)

Equipment ID No. 2FNC-TI101A

Equip. Class 19. Temperature Sensors

Equipment Description

Fuel Pool HT Exch 2FNC-E21A Inlet Temp



File Name: 2-61-4-2-29.jpeg Description: Component Plate ID



File Name: 2-62-4-2-29.jpeg Description: General View of Component

Paul C. Rizzo Associates, Inc. ENGINEERS & CONSULTANTS

Status: 🕅 N U

Seismic Walkdown Checklist (SWC)

Equipment ID No. 2FNC-TI101A

Equip. Class 19. Temperature Sensors

Equipment Description

Fuel Pool HT Exch 2FNC-E21A Inlet Temp



File Name: 2-63-4-2-29.jpeg Description: View of Component Area

Paul C. Rizzo Associates, Inc. ENGINEERS & CONSULTANTS			S	heet 136 of 513
Soigmig Walldown Chooklist (SWC)	Status:	\odot	N	U
Seisinic warkdown Checknist (SwC)				
Equipment ID No. <u>2FNC-TI102A</u> Equip. Class 19. Temperature S	Sensors			
Equipment Description Fuel Pool HX 21A Disch Temperature Ind				_
Location: Bldg. FULB Floor El. 740 Room	FULB 741	HX Room		
Manufacturer, Model, Etc.				
SWEL. The space below each of the following questions may be used to record the refindings. Additional space is provided at the end of this checklist for documenting other and the space is provided at the end of this checklist for documenting other and the space is provided at the end of the space is provided at the	em of equipline esults of judgm her comments.	nents and		
 Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? 	Y	X		
In-line temperature indicator on ~0° addmeter line.				
	Y	N	U	N/A
2. Is the anchorage free of bent, broken, missing or loose hardware?				X
3 Is the anchorage free of corrosion that is more than mild surface	Y	<u>N</u>	U	N/A X
oxidation?	L	_,		4 <u> </u>
	Y	N	U	N/A
4. Is the anchorage free of visible cracks in the concrete near the anchors?				X

Y

Y

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U

N/A Х

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.)

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?



Seismic Walkdov	vn Checklist (SWC)		Status:	\heartsuit	N	U
Equipment ID No	. <u>2FNC-TI102A</u> Equip. Class 19. Ter	nperature Se	nsors			
Equipment Descri	ption Fuel Pool HX 21A Disch Temperature Inc	1				
Interaction Effec	ts	· · ·	X	NI		N 1/A
7. Are soft targets No interaction con	free from impact by nearby equipment or structures? <i>identified.</i>			IN		N/A
8. Are overhead ea and masonry blo	quipment, distribution systems, ceiling tiles and lighting ock walls not likely to collapse onto the equipment?	,	Y X	N	U	N/A
9 Do attached lin	es have adequate flexibility to avoid damage?		Y	N	U	N/A
	es nave adequate nextonity to avoid damage.		Y	N	U	·
10. Based on the a of potentially a	above seismic interaction evaluations, is equipment free adverse seismic interaction effects?		X		<u> </u>	J
Other Adverse C 11. Have you look adversely affec	Conditions ked for and found no other seismic conditions that could bt the safety functions of the equipment?		Y X	N	- U]
Comments (Addi	tional pages may be added as necessary)		<u></u>		-	
	- this M ghma fl					
Evaluated by:	Eddie M. Guerra	Date:	10/10/2	2012	-	
	Brian A. Lucarelli	Date:	10/10/2	2012		



Seismic Walkdown Checklist (SWC)

Equipment ID No. 2FNC-TI102A

Equip. Class 19. Temperature Sensors

Equipment Description

Fuel Pool HX 21A Disch Temperature Ind



File Name: 2-61-3-2-29.jpeg Description: Component Plate ID



File Name: 2-62-3-2-29.jpeg Description: General View of Component





Seismic Walkdown Checklist (SWC)

Equipment ID No. 2FNC-TI102A

Equip. Class 19. Temperature Sensors

Equipment Description

Fuel Pool HX 21A Disch Temperature Ind



File Name: 2-63-3-2-29.jpeg Description: View of Component Area

Paul C. Rizzo Associates, Inc.			1	Sheet 140 of 513
	Statu	s. (V)	N	IJ
Seismic Walkdown Checklist (SWC)	Statu	s. ©		0
Equipment ID No. 2FWE-FE101A Equip. Class 18. Instrume	nt on Rack			
Equipment Description 300 GPM Flow Element				
Location: Bldg. SFGB Floor El. 741 Re	oom <u>SFGB 7</u>	41 Cubicle A		
Manufacturer, Model, Etc.				
Instructions for Completing Checklist This checklist may be used to document the results of the Seismic Walkdown of SWEL. The space below each of the following questions may be used to record findings. Additional space is provided at the end of this checklist for documenti	f an item of equip the results of jud ng other commer	oment on the gments and tts.		
Anchorage	Y	N		
 Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Inline with ~4" diameter pipe. Pipe is well supported in area of component. 		X		
2. Is the anchorage free of bent, broken, missing or loose hardware?	Y	N	U	N/A X
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	Y	N	<u>U</u>	N/A X
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Y	N	U	N/A X
5. Is the anchorage configuration consistent with plant documentation?	Y	N	U	N/A X
(Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)	L	_ <u>l</u>		J
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	Y X	N	U	

Paul C. Rizzo Associates, Inc. ENGINEERS & CONSULTANTS			S	heet 141 of 513
Seismic Walkdown Checklist (SWC)	Status:	\heartsuit	N	U
Equipment ID No. 2FWE-FE101A Equip. Class 18. Instrument on Rac	k			
Equipment Description 300 GPM Flow Element				
Interaction Effects	v	N	T	N/A
7. Are soft targets free from impact by nearby equipment or structures?	X			
Nearby scaffolding is well braced.				
	Y	N	U	N/A
8. Are overhead equipment, distribution systems, ceiling tiles and lighting,	X			
and masonry block walls not likely to collapse onto the equipment?				
	Y	N	U	N/A
9. Do attached lines have adequate flexibility to avoid damage? <i>Attached lines found with adequate flexibility.</i>	x			
	Y	N	U	_
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	X			
Other Adverse Conditions			-	
11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment?	Y X	N	U]
Comments (Additional pages may be added as necessary)			-	
- titis M. Guna LC				

Evaluated by:

Eddie M. Guerra

Date:

10/10/2012

Sut fill.

Brian A. Lucarelli

Date:

10/10/2012



Seismic Walkdown Checklist (SWC)

Equipment ID No. 2FWE-FE101A

Equip. Class 18. Instrument on Rack

Equipment Description

300 GPM Flow Element



File Name: 2-61-3-2-25.jpeg Description: Component Plate ID



File Name: 2-62-3-2-25.jpeg Description: General View of Component



Seismic Walkdown Checklist (SWC)

Equipment ID No. 2FWE-FE101A

Equip. Class 18. Instrument on Rack

Equipment Description

300 GPM Flow Element



File Name: 2-63-3-2-25.jpeg Description: View of Component Area
Paul C. Rizzo Associates, Inc. ENCINEERS & CONSULTANTS				Sheet 144 of 513
	Status:	\otimes	N	U
Seismic Walkdown Checklist (SWC)		-		
Equipment ID No. <u>2FWE-HCV100D</u> Equip. Class 7. Pneumatic-Opera	ted Valves			
Equipment Description 21B SG AUX Feed Water Throttle				_
Location: Bldg. SFGB Floor El. 741 Room	SFGB 741	Cubicle C		
Manufacturer, Model, Etc.				
Instructions for Completing Checklist This checklist may be used to document the results of the Seismic Walkdown of an iter SWEL. The space below each of the following questions may be used to record the res findings. Additional space is provided at the end of this checklist for documenting othe	m of equipm ults of judgn er comments.	ent on the nents and		
Anchorage1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?	Y	N X		
Heavy value with good yoke supports on $\sim 3"$ diameter line. Piping is well supported within $\sim 12"$ of value on either side.				
2. Is the anchorage free of bent, broken, missing or loose hardware?	Y	N	U	N/A X
3. Is the anchorage free of corrosion that is more than mild surface	Y	N	U	N/A X
oxidation?				
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Y	N	U	N/A X
	Y	N	U	N/A
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.)				
6 Based on the above anchorage evaluations is the anchorage free of	Y X	N	U	٦
potentially adverse seismic conditions?				-

Paul ENGINE	C. Rizzo Associates, Inc.				SI	neet 145 of 5
Seismic Walkdov	vn Checklist (SWC)		Status:	\odot	N	U
Equipment ID No	Equip. Class 7. Pneum	natic-Oper	rated Valves			
Equipment Descri	iption 21B SG AUX Feed Water Throttle					
Interaction Effec	ets		Ň	Nī	TI	NT/A
7. Are soft targets	free from impact by nearby equipment or structures?		Y X	<u>N</u>		
			Y	N	U	N/A
8. Are overhead e and masonry block	quipment, distribution systems, ceiling tiles and lighting, ock walls not likely to collapse onto the equipment?		X			
9. Do attached lines have adequate flexibility to avoid damage?				N	U	N/A
Attached lines for	ind with adequate flexibility.					
10. Based on the a	above seismic interaction evaluations, is equipment free		Y X	N	U	
Other Adverse C 11. Have you lood adversely affect	Conditions ked for and found no other seismic conditions that could ct the safety functions of the equipment?		Y X	N	- U	
Comments (Add	itional pages may be added as necessary)	<u></u>			-	
	- this Mgm Ll					
Evaluated by:	Eddie M. Guerra	Date:	10/10/	2012	_	
	Entful!					
	Brian A. Lucarelli	Date:	10/10/	2012		

Sheet 145 of 513

Paul C. Rizzo Associates, Inc. ENGINEERS & CONSULTANTS

Status: 🕅 N U

Seismic Walkdown Checklist (SWC)

Equipment ID No. 2FWE-HCV100D

Equip. Class 7. Pneumatic-Operated Valves

Equipment Description

21B SG AUX Feed Water Throttle



File Name: 2-61-1-2-25.jpeg Description: Component Tag ID



File Name: 2-62-1-2-25.jpeg Description: General View of Component



Seismic Walkdown Checklist (SWC)

Equipment ID No. 2FWE-HCV100D

Equip. Class 7. Pneumatic-Operated Valves

Equipment Description

21B SG AUX Feed Water Throttle



File Name: 2-63-1-2-25.jpeg Description: View of Main Line Support



File Name: 2-64-1-2-25.jpeg Description: View of Attached Lines

Paul C. Rizzo Associates, Inc. ENCINEERS & CONSULTANTS			S	heet 148 of 513
Seismic Walkdown Checklist (SWC)	Status:	(N	U
Equipment ID No. <u>2FWE-P22</u> Equip. Class 5. Horizontal Pun	nps			
Equipment Description Aux Feed Pump Turbine Driven			····	
Location: Bldg. SFGB Floor El. 718 Room	SFGD 718			
Manufacturer, Model, Etc.				
Instructions for Completing Checklist This checklist may be used to document the results of the Seismic Walkdown of an it SWEL. The space below each of the following questions may be used to record the r findings. Additional space is provided at the end of this checklist for documenting ot	tem of equipme esults of judgme her comments.	nt on the ents and		
 Anchorage 1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Pump skid is anchored by 6- 7/8" diameter anchors. 	Y X	N		
	Y	N	U	N/A
2. Is the anchorage free of bent, broken, missing or loose hardware?	X			
	Y	<u>N</u>	U	N/A
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	X			
	Y	N	U	N/A
4. Is the anchorage free of visible cracks in the concrete near the anchors?				LI
	Y	N	U	N/A
 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.) Calculation 12241-NM(B)-678-CZC confirms 6- 7/8" diameter anchors. 				L]
	Y	N	U	1
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?				1



Seismic Walkdown Checklist (SWC)	Status:	\heartsuit	N	U
Equipment ID No. 2FWE-P22 Equip. Class 5. Horizontal Pumps				
Equipment Description Aux Feed Pump Turbine Driven				
Interaction Effects	V	N	IJ	N/A
7. Are soft targets free from impact by nearby equipment or structures?	x		Ū	
	Y	<u>N</u>	U	N/A
8. Are overhead equipment, distribution systems, ceiling tiles and lighting,	X			
9 Do attached lines have adequate flexibility to avoid damage?	Y X	<u>N</u>	U	N/A
Attached lines found with adequate flexibility. Nozzles are well supported.	<u>A</u>			
10. Record on the shows activity interpreting anylystics is achieved from	Y	N	U	
of potentially adverse seismic interaction effects?	A			
Other Adverse Conditions 11. Have you looked for and found no other seismic conditions that could	Y	N	U	
adversely affect the safety functions of the equipment?	X			
Comments (Additional pages may be added as necessary)		<u> </u>		
- this M. June fl				
Evaluated by: Eddie M. Guerra Date:	10/10/2	2012		
Ent fill.				

Brian A. Lucarelli

Date:

10/10/2012



Seismic Walkdown Checklist (SWC)

Equipment ID No. 2FWE-P22

Equip. Class 5. Horizontal Pumps

Equipment Description

Aux Feed Pump Turbine Driven



File Name: 2-61-3-2-23.jpeg Description: Component Plate ID



File Name: 2-62-3-2-23.jpeg Description: General View of Component

Paul C. Rizzo Associates, Inc. ENGINEERS & CONSULTANTS

Status: 🕅 N U

Seismic Walkdown Checklist (SWC)

Equipment ID No. 2FWE-P22

Equip. Class 5. Horizontal Pumps

Equipment Description



Aux Feed Pump Turbine Driven

File Name: 2-63-3-2-23.jpeg Description: Close Up View of Anchorage



File Name: 2-64-3-2-23.jpeg Description: View of Attached Lines

Paul C. Rizzo Associates, Inc.			SI	heet 152 of 513
	St. t	Ø	N	TI
Seismic Walkdown Checklist (SWC)	Status:	Q	N	U
Equipment ID No. 2FWE-P23A Equip. Class 5. Horizontal Pump	s			
Equipment Description Motor Driven Aux Feed Pump				
Location: Bldg. SFGB Floor El. 718 Room	SFGD 718			
Manufacturer, Model, Etc.				
Instructions for Completing Checklist This checklist may be used to document the results of the Seismic Walkdown of an iter SWEL. The space below each of the following questions may be used to record the res findings. Additional space is provided at the end of this checklist for documenting othe	m of equipmenults of judgments.	nt on the ents and		
Anchorage	v	N		
 Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Pump skid is anchored by 6 -7/8" diameter anchors. 				
2. Is the anchorage free of bent, broken, missing or loose hardware?	Y X	N	U	N/A
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	Y X	<u>N</u>	U	N/A
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Y X	N	U	N/A
	Y	N	U	N/A
 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.) Drawing 2002.400-208-028 and Calculation 2602.400-208-035C confirm anchorage configuration as 6-7/8" diameter anchor bolts. 				
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	Y X	N	U]

Paul C. Rizzo Associates, Inc. ENCINEERS & CONSULTANTS				S	heet 153 of 513
Seismic Walkdown Checklist (SWC)		Status:	\heartsuit	N	U
Equipment ID No. 2FWE-P23A Equip. Class 5. Horizo	ontal Pumps				
Equipment Description Motor Driven Aux Feed Pump					
Interaction Effects					
7. Are soft targets free from impact by nearby equipment or structures?	C	Y X	<u>N</u>	<u>U</u>	N/A
8. Are overhead equipment, distribution systems, ceiling tiles and lighting,	٢	Y X	<u>N</u>	U	N/A
and masonry block walls not likely to collapse onto the equipment?		v	N	II	N/A
9. Do attached lines have adequate flexibility to avoid damage? Attached lines found with adequate flexibility. Nozzles are well supported.	[X			
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	[Y X	N	U	
Other Adverse Conditions 11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment?	[Y X	N	U	
Comments (Additional pages may be added as necessary)					
- this M. Show fl					
Evaluated by: Eddie M. Guerra	_Date: _	10/10/2	2012		

Brian A. Lucarelli

Date:

10/10/2012



Seismic Walkdown Checklist (SWC)

Equipment ID No. 2FWE-P23A

Equip. Class 5. Horizontal Pumps

Equipment Description

Motor Driven Aux Feed Pump



File Name: 2-61-4-2-23.jpeg Description: Component Plate ID



File Name: 2-62-4-2-23.jpeg Description: General View of Component



Seismic Walkdown Checklist (SWC)

Equipment ID No. 2FWE-P23A

Equip. Class 5. Horizontal Pumps

Equipment Description

Motor Driven Aux Feed Pump



File Name: 2-63-4-2-23.jpeg Description: Close Up View of Anchorage



File Name: 2-64-4-2-23.jpeg Description: View of Attached Lines

Paul C. Rizzo Associates, Inc.			S	Sheet 156 of 513
ENGINEERS & CONSULTANTS				
Seismic Walkdown Checklist (SWC)	Status:	\odot	N	U
Equipment ID No. <u>2FWS-FCV478</u> Equip. Class 7. Pneumatic-C	Operated Valves			
Equipment Description 21A SG Main Feedwater Reg Valve				
Location: Bldg. <u>SRVB</u> Floor El. <u>780</u> Roo	m <u>SRVB 780</u>			
Manufacturer, Model, Etc.				
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 th findings. Additional space is provided at the end of this checklist for documenting	n item of equipmen le results of judgme gother comments.	nt on the ents and		
Anchorage	V	N		
1. Is the anchorage configuration verification required (i.e., is the item one	I	X		
of the 50% of SWEL items requiring such verification)? Valve on ~8" diameter insulated line. Piping is well restrained near valve.				
	Y	N	U	N/A
2. Is the anchorage free of bent, broken, missing or loose hardware?		<u> </u>		
3. Is the anchorage free of correction that is more than mild surface	Y	N	U	N/A
oxidation?		I		<u> </u>
	Y	N	U	N/A
4. Is the anchorage free of visible cracks in the concrete near the anchors?				X
	Y	<u>N</u>	U	N/A
 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.) 				X
	Y	N	IJ	
6. Based on the above anchorage evaluations, is the anchorage free of notantially adverse saismic conditions?	X]
potentiany adverse seisine conditions?				

Paul C	. Rizzo Associates, Inc	•				Sł	eet 157 of 5
ENGINEERS	& CONSULTANTS						
Seismic Walkdown	Checklist (SWC)			Status:	Ŷ	Ν	U
Equipment ID No.	2FWS-FCV478	Equip. Class 7. Pro	eumatic-Opera	ated Valves			
Equipment Descript	ion 21A SG M	ain Feedwater Reg Valve					
Interaction Effects	· · · · · · · · · · · · · · · · ·),	TT	NI/A
7. Are soft targets fr	ee from impact by near	by equipment or structures?		Y X	N		<u>N/A</u>
9 Am			_	Y	N	U	N/A
and masonry block	syment, distribution sy colline walls not likely to col	lapse onto the equipment?	ıg,			[]	
9. Do attached lines	have adequate flevibili	ty to avoid damage?		Y	N	U	N/A
9. Do attached mes		ty to avoid damage?				L	
10. Based on the ab	ove seismic interaction	evaluations, is equipment free	e	Y X	<u>N</u>	U	
of potentially ad-							
Other Adverse Con	iditions	r seismic conditions that coul	d	Y	 N	U	
adversely affect	the safety functions of	the equipment?		X			
Comments (Additio	onal pages may be adde	d as necessary)	<u></u>		<u></u>		
	= His U.S.	fa					
Evaluated by:	Eddie M. Guerra	¥e	Date:	10/10/	2012	_	
-	5 11	/ <i> </i> .				-	
	- a	n					

Brian A. Lucarelli

Date:

10/10/2012

Sheet 157 of 513





Seismic Walkdown Checklist (SWC)

Equipment ID No. 2FWS-FCV478

Equip. Class 7. Pneumatic-Operated Valves

Equipment Description

21A SG Main Feedwater Reg Valve



File Name: 2-61-2-2-27.jpeg Description: Component Tag ID



File Name: 2-62-2-27.jpeg Description: General View of Component



Seismic Walkdown Checklist (SWC)

Equipment ID No. 2FWS-FCV478

Equip. Class 7. Pneumatic-Operated Valves

Equipment Description

21A SG Main Feedwater Reg Valve



File Name: 2-63-2-27.jpeg Description: View of Component Area

Paul C. Rizzo Associates, Inc. ENGINEERS & CONSULTANTS			Sł	neet 160 of
Seismic Walkdown Checklist (SWC)	Status:	\odot	N	U
Equipment ID No. 2FWS-FCV479 Equip. Class 7. Pneumatic-Operation	ted Valves			
Equipment Description C/S 21A SG Bypass FW Control Valve		· · · · · · · · · · · · · · · · · · ·		
Location: Bldg. <u>SRVB</u> Floor El. <u>780</u> Room	SRVB 780			
Manufacturer, Model, Etc.				

Instructions for Completing Checklist

This checklist may be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

Anchorage

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Valve on ~8" diameter insulated line. Piping is well restrained near valve.

2. Is the anchorage free of bent, broken, missing or loose hardware?

3. Is the anchorage free of corrosion that is more than mild surface oxidation?

Surface rust at yoke bottom plate judged acceptable.

- 4. Is the anchorage free of visible cracks in the concrete near the anchors?
- 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.)
- 6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?



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Paul C ENCINEER	2. Rizzo Associates, Inc.				SI	neet 161 of 513
Seismic Walkdowr	n Checklist (SWC)		Status:	Ŷ	N	U
Equipment ID No.	2FWS-FCV479 Equip. Class 7. Pneum	natic-Opera	ted Valves			
Equipment Descript	tion C/S 21A SG Bypass FW Control Valve					
Interaction Effects			V	NI	TT	NI/A
7. Are soft targets fi	ree from impact by nearby equipment or structures?		X	<u>IN</u>		<u>N/A</u>
8 Are overhead equ	inment distribution systems, spiling tiles and lighting		Y	N	U	N/A
and masonry bloc	k walls not likely to collapse onto the equipment?				J	
9. Do attached lines	have adequate flexibility to avoid damage?		Y X	N	U	N/A
10. Based on the ab of potentially ad	ove seismic interaction evaluations, is equipment free verse seismic interaction effects?			<u> </u>		
Other Adverse Co 11. Have you looke adversely affect	nditions d for and found no other seismic conditions that could the safety functions of the equipment?		Y X	N	U	
					-	
Comments (Addition	onal pages may be added as necessary)					
	- Attis Million Le					
Evaluated by:	Eddie M. Guerra	_Date:	10/10/2	2012	-	
	Emt full.					

Brian A. Lucarelli

Date:

10/10/2012

Paul C. Rizzo Associates, Inc. ENGINEERS & CONSULTANTS

Status: 🕅 N U

Seismic Walkdown Checklist (SWC)

Equipment ID No. 2FWS-FCV479

Equip. Class 7. Pneumatic-Operated Valves

Equipment Description

C/S 21A SG Bypass FW Control Valve



File Name: 2-64-1-2-27.jpeg Description: Component Tag ID



File Name: 2-63-1-2-27.jpeg Description: General View of Component



Seismic Walkdown Checklist (SWC)

Equipment ID No. 2FWS-FCV479

Equip. Class 7. Pneumatic-Operated Valves

Equipment Description

C/S 21A SG Bypass FW Control Valve



File Name: 2-73-1-2-27.jpeg Description: View of Attached Lines



File Name: 2-62-1-2-27.jpeg Description: View of Component Area

Paul ENGINE	C. Rizzo As	ssociates, Inc.					Sł	neet 164 of 513
Seismic Walkdow	n Checklis	t (SWC)			Status:	Ø	N	U
Equipment ID No.	2FWS-H	YV157A	Equip. Class 7. Pr	eumatic-Opera	ated Valves			
Equipment Descrip	ption	BB C/S 21C SG FV	V Isolation Valve					
Location: Bldg.	MSCV	Floor El.	773	Room	Main Steam	n Room E	1 778	
Manufacturer, Mo	del, Etc.		···					

Instructions for Completing Checklist

This checklist may be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

Anchorage

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Valve mounted on a large diameter pipe. Valve yoke is very robust.

2. Is the anchorage free of bent, broken, missing or loose hardware?

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Valve found in good condition.

4. Is the anchorage free of visible cracks in the concrete near the anchors?

- 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.)
- 6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?



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Paul Paul	C. Rizzo Associates, Inc. R5 & CONSULTANTS				S	heet 165 of :
Seismic Walkdow	n Checklist (SWC)		Status:	\odot	Ν	U
Equipment ID No.	2EWS HVV157A Equip Class 7 Drown	natia Oman	atad Valvas			
Equipment ID No.	<u>Zrws-nitvis/A</u> Equip. Class 7. Preur	latic-Opera	ated valves			
Equipment Descrip	BB C/S 21C SG FW Isolation Valve				_	
Interaction Effect	s					
7. Are soft targets	free from impact by nearby equipment or structures?		Y X	N	U	N/A
8. Are overhead eq	uipment, distribution systems, ceiling tiles and lighting,		Y X	N	U	N/A
and masonry blo	ck walls not likely to collapse onto the equipment?					
9. Do attached line	a have adaquete floribility to avoid demogra		Y	N	U	N/A
9. Do attached fille	s have adequate nextonity to avoid damage?					
Piping judged to h	ave adequate flexibility to accommodate seismic anchor 1	novement.				
10. Based on the al	bove seismic interaction evaluations, is equipment free		Y X	N	U	
of potentially ac	dverse seismic interaction effects?					
Other Adverse Co	onditions				-	
11. Have you look adversely affect	ed for and found no other seismic conditions that could the safety functions of the equipment?		Y X	N	U	
Comments (Addit	ional pages may be added as necessary)				_	
	- His Might for					
Evaluated by:	Eddie M. Guerra	Date:	10/10/2	2012	_	
	Entfull.					
	Brian A. Lucarelli	_Date:	10/10/	2012	-	

Sheet 165 of 513



Seismic Walkdown Checklist (SWC)

Equipment ID No. 2FWS-HYV157A

Equip. Class 7. Pneumatic-Operated Valves

Equipment Description

BB C/S 21C SG FW Isolation Valve



File Name: 2-61-2-2-16.jpeg Description: Component Plate ID



File Name: 2-62-2-16.jpeg Description: General View of Component



Seismic Walkdown Checklist (SWC)

Equipment ID No. 2FWS-HYV157A

Equip. Class 7. Pneumatic-Operated Valves

Equipment Description



BB C/S 21C SG FW Isolation Valve

File Name: 2-63-2-2-16.jpeg Description: View of Component and Main Line



File Name: 2-64-2-2-16.jpeg Description: View of Attached Lines

Paul C. Rizzo Associates, Inc.			S	heet 168 of 513
Seismic Walkdown Checklist (SWC)	Status:		N	U
Equipment ID No. 2FWS-I T477F Equip Class 18 Instrum	ent on Rack			
Equipment Description (2RCS*SG21A) Wide Range Level Transmitte	er			•
Location: Bldg. <u>RCBX</u> Floor El. <u>718</u> R	Room <u>RCBX 718</u> -	Annulus		
Manufacturer, Model, Etc.				
Instructions for Completing Checklist This checklist may be used to document the results of the Seismic Walkdown of SWEL. The space below each of the following questions may be used to record findings. Additional space is provided at the end of this checklist for document	of an item of equipme d the results of judgm ting other comments.	ent on the lients and		
Anchorage	V	N		
1. Is the anchorage configuration verification required (i.e., is the item one		X		
of the 50% of SWEL items requiring such verification)? Transmitter mounted on 1/4" thick plate with 4-3/8" diam machine bolts. Plate welded to steel column at both flanges.	e is fillet			
	Y	N	U	N/A
2. Is the anchorage free of bent, broken, missing or loose hardware?				
	Y	N	U	N/A
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	X			
	Y	<u>N</u>	U	N/A
4. Is the anchorage free of visible cracks in the concrete near the anchors?				
	Y	N	U	N/A
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.)				X
	Y	N	U	_
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	X			J

Pau ENGIN	1 C. Rizzo Associates, Inc. EEERS & CONSULTANTS				S	heet 169 of 513
Seismic Walkdo	wn Checklist (SWC)		Status:	Ŷ	N	U
Equipment ID No	D. <u>2FWS-LT477F</u> Equip. Class 18. Instr	rument on F	lack			
Equipment Descr	iption (2RCS*SG21A) Wide Range Level Transm	nitter				<u></u>
Interaction Effe	cts		V	N	TT	NI/A
7. Are soft target	s free from impact by nearby equipment or structures?		X	IN		
8. Are overhead equipment, distribution systems, ceiling tiles and lighting,		Y X	N	U	N/A	
and masonry bl	ock walls not likely to collapse onto the equipment?		v	N	U	N/A
9. Do attached lin Attached lines ide	nes have adequate flexibility to avoid damage? entified with adequate flexibility.		X			
10. Based on the of potentially	Y X	N	U			
Other Adverse (11. Have you loo adversely affe	Conditions ked for and found no other seismic conditions that could ct the safety functions of the equipment?		Y X	N	- U]
Comments (Add	itional pages may be added as necessary)	<u></u>			-	
	- this Mahma Le					
Evaluated by:	Eddie M. Guerra	Date:	10/10/2	2012	-	
	Brian A. Lucarelli	Date:	10/10/2	2012		



Seismic Walkdown Checklist (SWC)

Equipment ID No. 2FWS-LT477F

Equip. Class 18. Instrument on Rack

Equipment Description

(2RCS*SG21A) Wide Range Level Transmitter



File Name: 2-61-1-2-19.jpeg Description: Component Tag ID



File Name: 2-62-1-2-19.jpeg Description: General View of Component





Seismic Walkdown Checklist (SWC)

Equipment ID No. 2FWS-LT477F

Equip. Class 18. Instrument on Rack

Equipment Description



(2RCS*SG21A) Wide Range Level Transmitter

Description: View of Mounting Bolts



File Name: 2-64-1-2-19.jpeg Description: View of Plate Weld



Seismic Walkdown Checklist (SWC)

Equipment ID No. 2FWS-LT477F

Equip. Class 18. Instrument on Rack

Equipment Description

(2RCS*SG21A) Wide Range Level Transmitter



File Name: 2-73-1-2-19.jpeg Description: View of Attached Lines

Paul C. Rizzo Associates, Inc.	S	Sheet 173 of 513
Seismic Walkdown Checklist (SWC)	Status: 🕅 N	U
Equipment ID No. <u>2HVC-ACU201A</u> Eq	uip. Class 10. Air Handlers	
Equipment Description Control Room A/C Unit	Condenser	_
Location: Bldg. <u>CNTB</u> Floor El. <u>7</u> .	Room <u>CNTB 735</u> -AC Room	
Manufacturer, Model, Etc.		
Instructions for Completing Checklist This checklist may be used to document the results of the SWEL. The space below each of the following questions findings. Additional space is provided at the end of this c	e Seismic Walkdown of an item of equipment on the may be used to record the results of judgments and shecklist for documenting other comments.	

Anchorage

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?

Component is attached to platform steel beams with 14~1/2" diameter machine bolts on each side of the unit. Expansion joints are found in good condition.

- 2. Is the anchorage free of bent, broken, missing or loose hardware?
- 3. Is the anchorage free of corrosion that is more than mild surface oxidation?
- 4. Is the anchorage free of visible cracks in the concrete near the anchors?
- 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.)
- 6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?



Y



U

N/A

Ν







Seismic Walkdown Checklist (SWC)	Status:	(Ν	U
Equipment ID No. <u>2HVC-ACU201A</u> Equip. Class 10. Air Handlers				
Equipment Description Control Room A/C Unit Condenser				
Interaction Effects	¥7		-	
7. Are soft targets free from impact by nearby equipment or structures?	Y X	N		N/A
8. Are overhead equipment, distribution systems, ceiling tiles and lighting,	Y X	N	U	N/A
and masonry block walls not likely to collapse onto the equipment?				
9 Do attached lines have adequate flexibility to avoid damage?	Y	N	U	N/A
y. Bo analyted miles have adequate nextoring to avoid damage?			L	
	Y	N	U	l
of potentially adverse seismic interaction effects?			· I	
Other Adverse Conditions 11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment?	Y X	N	- U	
Comments (Additional pages may be added as necessary)	,		-	
- this Mehne fl				
Evaluated by: Eddie M. Guerra Date:	10/10/2012		_	
Entfull.				

Brian A. Lucarelli

Date:

10/10/2012



Seismic Walkdown Checklist (SWC)

Equipment ID No. 2HVC-ACU201A

Equip. Class 10. Air Handlers

Equipment Description

Control Room A/C Unit Condenser



File Name: 2-73-2-2-07.jpeg Description: Component Plate ID



File Name: 2-63-2-2-07.jpeg Description: General View of Component



Seismic Walkdown Checklist (SWC)

Equipment ID No. 2HVC-ACU201A

Equip. Class 10. Air Handlers

Equipment Description



Control Room A/C Unit Condenser

File Name: 2-62-2-2-07.jpeg Description: Close Up View of Anchorage

Paul C. Rizzo A ENGINEERS & CONSULTAN	ssociates, Inc.					5	Sheet 177 of 513
Seismic Walkdown Checklis	st (SWC)			Status:	\odot	N	U
Seisine Wandown Cheekins							
Equipment ID No. <u>2HVD-I</u>	DMP201A	Equip. Class 7. Pn	eumatic Oper	ated Valve D	amper		
Equipment Description	Flow Balancing Dat	Flow Balancing Damper					-
Location: Bldg. DGBX	Floor El.	759	Room	<u>EDG 2-1 U</u>	Jpstairs		
Manufacturer, Model, Etc.	Manufacturer, Model, Etc.						
Instructions for Completing This checklist may be used to SWEL. The space below each findings. Additional space is p	Checklist document the results of the following ques provided at the end of	of the Seismic Walko stions may be used to this checklist for doc	lown of an ite record the re- umenting oth	em of equipm sults of judgr er comments	ent on the nents and		
Anchorage							
1. Is the anchorage configurat	ion vorification requir	ad (i.e. is the item of		Y	N		
of the 50% of SWEL items Damper is inline with ventilat floor and wall by a HSS frame	requiring such verific ion duct and independ e. Duct is rigidly supp	eation)? dently supported and ported.	braced from	II			
				Y	N	U	N/A
2. Is the anchorage free of ber	it, broken, missing or	loose hardware?		X			
				Y	N	U	N/A
3. Is the anchorage free of corrosion that is more than mild surface oxidation?				X			<u>[]</u>
				Y	N	U	N/A
4. Is the anchorage free of vis	ible cracks in the conc	crete near the anchors	?	X			
			Y	N	<u>U</u>	N/A	
 Is the anchorage configurat (Note: This question only a which an anchorage configuration) 	ton consistent with pla pplies if the item is or guration verification is	ant documentation? ne of the 50% for s required.)		L			
				Y	N	U	
6. Based on the above anchora	age evaluations, is the	anchorage free of		X]
potentially adverse seismic	conditions?						



Brian A. Lucarelli

Date:

10/10/2012



Description: Component Plate ID



File Name: 2HVD-DMP201A(2).jpg Description: General View of Component


Seismic Walkdown Checklist (SWC)

Equipment ID No. 2HVD-DMP201A

Equip. Class 7. Pneumatic Operated Valve Damper

Equipment Description

Flow Balancing Damper



File Name: 2HVD-DMP201A(3).jpg Description: View of Anchorage

Paul C. Rizzo Associates, Inc. ENCINEERS & CONSULTANTS					Sheet 181 of 513
Seismic Walkdown Checklist (SWC)		Status:	\otimes	N	U
Equipment ID No. <u>2HVD-DMP22A</u> Equip. Class	7. Pneumatic Opera	ted Valve Da	mper		
Equipment Description Discharge Damper				. <u></u>	_
Location: Bldg. DGBX Floor El. 759	Room	EDG 2-1_U	ostairs		
Manufacturer, Model, Etc.					
Instructions for Completing Checklist This checklist may be used to document the results of the Seismic SWEL. The space below each of the following questions may be u findings. Additional space is provided at the end of this checklist f	Walkdown of an iter ised to record the res or documenting othe	n of equipme ults of judgm r comments.	nt on the ents and		
Anchorage		v	N		
1. Is the anchorage configuration verification required (i.e., is the i	tem one		X		
Damper is inline with ventilation duct and independently supported ceiling and wall by a HSS frame. Duct is rigidly supported.	d and braced from				
	_	Y	N	U	N/A
2. Is the anchorage free of bent, broken, missing or loose hardware	2?				
		Y	<u>N</u>	U	N/A
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	:				
4. Is the anchorage free of visible cracks in the concrete near the a	nchors?	Y	N	U	N/A
5. Is the anchorage configuration consistent with plant documentat	tion?	Y	N	U	N/A X
(Note: This question only applies if the item is one of the 50% f which an anchorage configuration verification is required.)	or	La			_
		<u>Y</u>	N	U	_
6. Based on the above anchorage evaluations, is the anchorage free potentially adverse seismic conditions?	e of	X			_]



Seismic Walkdov	yn Checklist (SWC)		Status:	(Y)	Ν	U
Equipment ID No.	2HVD-DMP22A Equip. Class 7. Pneum	atic Operate	ed Valve Da	mper		
Equipment Descri	ption Discharge Damper					
Interaction Effec	ts				-	
7 Ann anft tonnata	from from interest here and the second state of the second	1	Y V	N	U	N/A
No interaction sou	arces to the damper operator noted.	l				
			v	N	IJ	N/A
8. Are overhead ed	quipment, distribution systems, ceiling tiles and lighting,	[X			
and masonry blo	ick walls not likely to collapse onto the equipment?					
			Y	N	U	N/A
9. Do attached line	es have adequate flexibility to avoid damage?		X			
			Y	N	U	
of potentially a	bove seismic interaction evaluations, is equipment free dverse seismic interaction effects?	l	<u> </u>		<u> </u>]	
Other Adverse C	onditions				-	
11. Have you look	ed for and found no other seismic conditions that could		Y	N	U	
adversely affec	t the safety functions of the equipment?		Х			
					_	
Comments (Addi	tional pages may be added as necessary)					
	- this Min fl					
Evaluated by:	Eddie M. Guerra	Date:	10/10/2	2012	-	
	Entfull.					
	Brian A. Lucarelli	Date:	10/10/2	2012		



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Seismic Walkdown Checklist (SWC)

Equipment ID No. 2HVD-DMP22A

Equip. Class 7. Pneumatic Operated Valve Damper

Equipment Description

Other supporting or relevant documents and photos (if any):



Discharge Damper

File Name: 2HVD-DMP22A(1).jpg Description: Component Plate ID



File Name: 2HVD-DMP22A(2).jpg Description: General View of Component

Paul C. Rizzo ENGINEERS & CONSULT	Associates, Inc.				SI	heet 184 of 5
Seismic Walkdown Check	list (SWC)		Status:	\odot	N	U
Equipment ID No. <u>2HVD-DMP22A</u>		Equip. Class 7. Pneumatic Operated	Valve Da	mper		
Equipment Description	Discharge Damper			1.1		



File Name: 2HVD-DMP22A(3).jpg Description: View of Anchorage

Paul C. Rizzo Associates, Inc.					She	eet 185 of 513
Seismic Walkdown Checklist (SWC)			Status: (Ŷ	N	U
Equipment ID No. 2HVD-FN270A	Equip. Class 9. Fans					
Equipment Description Diesel Gen Bldg Su	pply Fan					
Location: Bldg. DGBX Floor El.	759	Room	EDG 2-1 Upsta	airs		
Manufacturer, Model, Etc.		_				

This checklist may be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

Anchorage

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?

Fan supported by 2 saddles. Each saddle anchored to concrete floor by 4-5/8'' diameter anchor bolts. Fan is attached to each saddle by $5 \sim 1/2''$ diameter machine bolts.



- 3. Is the anchorage free of corrosion that is more than mild surface oxidation?
- 4. Is the anchorage free of visible cracks in the concrete near the anchors?

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.)
Calculation NM(B)-521-CZC confirms anchorage configuration as two saddles, each anchored by 4-5/8" diameter anchors.

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?















Soismia Walkdo	wn Chaeldiet (SWC)		Status:	(i)	Ν	U
Equipment ID No	a 2HVD_EN270A Equip Class 9 Fans					
Equipment Descr	iption Diesel Gen Bldg Supply Fan					
		······································			-	
Interaction Effe	cts		Y	N	U	N/A
7. Are soft targets	s free from impact by nearby equipment or structures?		X			
0 4			Y	N	U T	N/A
and masonry bl	ock walls not likely to collapse onto the equipment?		X		11	
			Y	N	U	N/A
9. Do attached lin	nes have adequate flexibility to avoid damage?		X			
10 Based on the	above seismic interaction evaluations, is equipment free		Y	N	U	
of potentially	adverse seismic interaction effects?				11	
Expansion joints	on either side of the fan are in good condition with adequ	iate slack.				
Other Adverse (Conditions				-	
adversely affe	ked for and found no other seismic conditions that could ct the safety functions of the equipment?		Y X	N		
Comments (Add	itional pages may be added as necessary)	<u></u>		<u> </u>	-	
	= this Mghma fl					
Evaluated by:	Eddie M. Guerra	Date:	10/10/2	2012	-	
	Entful!					
	Brian A. Lucarelli	Date:	10/10/2	2012		





File Name: 2HVD-FN270A(2).jpg Description: General View of Component



Seismic Walkdown Checklist (SWC)

Equipment ID No. 2HVD-FN270A

Equip. Class 9. Fans

Equipment Description

Diesel Gen Bldg Supply Fan

File Name: 2HVD-FN270A(3).jpg Description: View of Attached Lines (?)



File Name: 2HVD-FN270A(4).jpg Description: View of Support Saddle



Seismic Walkdown Checklist (SWC)

Equipment ID No. 2HVD-FN270A

Equip. Class 9. Fans

Equipment Description

Diesel Gen Bldg Supply Fan



File Name: 2HVD-FN270A(5).jpg Description: View of Anchor Bolts

Paul C. Rizzo Associates, Inc. ENGINEERS & CONSULTANTS			SI	190 of 5	513
Seismic Walkdown Checklist (SWC)	Status:	(N	U	
Equipment ID No. <u>2HVP-CLC265A</u> Equip. Class 10. Air Handlers					
Equipment Description MCC-2-E03 Cubicle Cooling Coils					
Location: Bldg. <u>AXLB</u> Floor El. <u>755</u> Room	AXLB 755-	MCC Ro	oom		
Manufacturer, Model, Etc.					

This checklist may be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

Anchorage

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?

Cooling coil supported from ceiling and wall. Component is adequately attached to framing that is braced to ceiling with HSS 2x2 members. Framing is welded to ceiling embed and steel plate on wall. Wall plate is anchored with 6~5/8" diameter anchor bolts.



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N/A

N/A

N/A

N/A

Х

Y

Y

2. Is the anchorage free of bent, broken, missing or loose hardware?	Х		
3. Is the anchorage free of corrosion that is more than mild surface	Y X	N	[
oxidation?		.,	
	Y	N	
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Х		

- 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.)
- 6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?



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ciates, Inc.		
SWC)	Status:	Ŷ
265A Equip. Class 10. Air Handlers		
ACC-2-E03 Cubicle Cooling Coils		
ot by party againment or structures?	Y	<u>N</u>
er by hearby equipment of structures:	V V	N
	SWC) 265A Equip. Class 10. Air Handlers 4CC-2-E03 Cubicle Cooling Coils act by nearby equipment or structures?	ciates, Inc. Status: SWC) 265A Equip. Class 10. Air Handlers 4CC-2-E03 Cubicle Cooling Coils Y act by nearby equipment or structures? Y X X

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?

9. Do attached lines have adequate flexibility to avoid damage?

10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?

Other Adverse Conditions

11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment?

Y Ν U Х

10/10/2012

Х

Y

Χ

Y

X

Comments (Additional pages may be added as necessary)

this Man +

Evaluated by:

Eddie M. Guerra

10/10/2012 Date:

Date:

Brian A. Lucarelli

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N/A

N/A

N/A

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Seismic Walkdown Checklist (SWC)

Equipment ID No. 2HVP-CLC265A

Equip. Class 10. Air Handlers

Equipment Description

MCC-2-E03 Cubicle Cooling Coils



File Name: 2-61-2-2-04.jpeg Description: Component Tag ID



File Name: 2-62-2-04.jpeg Description: General View of Component





Seismic Walkdown Checklist (SWC)

Equipment ID No. 2HVP-CLC265A

Equip. Class 10. Air Handlers

Equipment Description

MCC-2-E03 Cubicle Cooling Coils

File Name: 2-64-2-2-04.jpeg Description: View of Anchorage to Wall



File Name: 2-73-2-2-04.jpeg Description: General View of Component



Seismic Walkdown Checklist (SWC)

Equipment ID No. 2HVP-CLC265A

Equip. Class 10. Air Handlers

Equipment Description



MCC-2-E03 Cubicle Cooling Coils

File Name: 2-94-2-2-04.jpeg Description: View of Anchorage to Ceiling



File Name: 2-95-2-2-04.jpeg Description: View of Anchorage to Ceiling

Paul C. Rizzo Associates, Inc. ENCINEERS & CONSULTANTS			Sheet 195 of 5
Seismic Walkdown Checklist (SWC)	Status: 🕅	N	U
Equipment ID No. <u>2HVR-ACU207A</u> Equip. Class 10. Air Handlers			
Equipment Description Safeguards Area A/C Unit Condenser			
Location: Bldg. SFGB Floor El. <u>741</u> Room	SFGD 741-PLA	ſ	
Manufacturer, Model, Etc.			

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

oxidation?

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?

2. Is the anchorage free of bent, broken, missing or loose hardware?

3. Is the anchorage free of corrosion that is more than mild surface

Large condenser with low height: width ratio mounted on a steel platform. Base is continuously welded at front and back to supporting steel. Platform is suported from surrounding walls.



Y	N	U	N/A
Х			

Sheet 195 of 513









5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for

4. Is the anchorage free of visible cracks in the concrete near the anchors?

- which an anchorage configuration verification is required.)
- 6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?

Paul C. Rizzo Associates, Inc. ENGINEERS & CONSULTANTS				:	Sheet 196 of 513
Seismic Walkdown Checklist (SWC)		Status:	Ŷ	N	U
Equipment ID No. <u>2HVR-ACU207A</u> Equip. Class 10. Air Ha	andlers				
Equipment Description Safeguards Area A/C Unit Condenser		·······		<u>.</u>	
Interaction Effects					
7. Are soft targets free from impact by nearby equipment or structures?		Y X	<u>N</u>	U	N/A
8. Are overhead equipment, distribution systems, ceiling tiles and lighting,		Y X	N	U	N/A
and masonry block walls not likely to collapse onto the equipment?					
9. Do attached lines have adequate flexibility to avoid damage? Attached piping is well supported.		Y X	<u>N</u>	U	N/A
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?		Y X	N	U]
Other Adverse Conditions 11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment?		Y X	N	U]
Comments (Additional pages may be added as necessary)			<u> </u>		
-this Mighura Le					
Evaluated by: Eddie M. Guerra	Date:	10/10/2	012		

Brian A. Lucarelli

Date:

10/10/2012



Seismic Walkdown Checklist (SWC)

Equipment ID No. 2HVR-ACU207A

Equip. Class 10. Air Handlers

Equipment Description

Safeguards Area A/C Unit Condenser



File Name: 2-61-2-2-25.jpeg Description: Component Plate ID



File Name: 2-62-2-25.jpeg Description: General View of Component



Seismic Walkdown Checklist (SWC)

Equipment ID No. 2HVR-ACU207A

Equip. Class 10. Air Handlers

Equipment Description

Safeguards Area A/C Unit Condenser



File Name: 2-63-2-2-25.jpeg Description: View of Attached Piping



File Name: 2-64-2-2-25.jpeg Description: View of Anchor Weld

Paul C ENGINEER	C. Rizzo As rs & consultan	ssociates,	, Inc.						S	heet 199 of 513
Seismic Walkdow	n Checklis	t (SWC)					Status:	(N	U
Equipment ID No.	2HVR-T	1228	-	Equip. Cl	ass 19. Tem	perature S	ensors			
Equipment Descrip	tion	Contro	l Room Alar	m And Tem	perature Ind					
Location: Bldg.	CNTB	_	Floor El.	735		Room	Control Ro	om		
Manufacturer, Mod	lel, Etc.					_				
This checklist may SWEL. The space t findings. Additiona	be used to below each l space is p	document of the fo	st ht the results llowing ques at the end of	of the Seism stions may b this checklis	nic Walkdov e used to rea st for docum	vn of an ite cord the re nenting oth	em of equipme sults of judgm ter comments.	nt on the ents and		
Anchorage							V	NI		
1. Is the anchorage of the 50% of SV	configurati VEL items	ion verifi requiring	cation requir g such verific	red (i.e., is the cation)?	ne item one		Ŷ	N X		
Mounted to the face for PNL-2BLG-SER	e of cabinet R (Sheet 44)	t PNL-2B 9 of 513)	LG-SER with for cabinet	h 2 ~1/8" ma anchorage c	achine bolts. onfiguratior	. See SWC 1.	2			
2. Is the anchorage	free of ben	t, broken	, missing or	loose hardw	are?		Y	N	U	N/A
		,	,				v	I	Τī	N/A

- 3. Is the anchorage free of corrosion that is more than mild surface oxidation?
- 4. Is the anchorage free of visible cracks in the concrete near the anchors?

- 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.)
- 6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?



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N/A

N/A

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Y

Х

Y



Seismic Walkdo	wn Checklist (SWC)		Status:	\heartsuit	Ν	U
Equipment ID No	o. 2HVR-TI228 Equip. Class 19. Tem	perature S	ensors			
Equipment Desci	ription <u>Control Room Alarm And Temperature Ind</u>					
Interaction Effe	cts				-	
7. Are soft target	s free from impact by nearby equipment or structures?		Y X	N	U	N/A
8 Are overhead a	equinment distribution systems calling tiles and lighting		Y	N	U	N/A
and masonry bl	lock walls not likely to collapse onto the equipment?				I	
9. Do attached lir	nes have adequate flexibility to avoid damage?		Y	N	U	N/A
Attached lines ha	we adequate flexibility.		Y	N	U	
10. Based on the of potentially	above seismic interaction evaluations, is equipment free adverse seismic interaction effects?		X			
					-	
11. Have you loo adversely affe	conditions ked for and found no other seismic conditions that could ct the safety functions of the equipment?		Y X	N	U	
Comments (Add	itional pages may be added as necessary)	<u>.</u>			-	
	- totic Mining					
Evaluated by:	Eddie M. Guerra	_Date:	10/10/2	2012	-	
	Smit full.					
	Brian A. Lucarelli	Date:	10/10/2	2012		



Seismic Walkdown Checklist (SWC)

Equipment ID No. 2HVR-TI228

Equip. Class 19. Temperature Sensors

Equipment Description

Control Room Alarm And Temperature Ind



File Name: 2HVR-TI228(1).jpg Description: View of Cabinet Anchorage



File Name: 2HVR-TI228(2).jpg Description: View of Component and Plate ID





Seismic Walkdown Checklist (SWC)

Equipment ID No. 2HVR-TI228

Equip. Class 19. Temperature Sensors

Equipment Description

Control Room Alarm And Temperature Ind



File Name: 2HVR-TI228(3).jpg Description: View of Component Anchorage



File Name: 2HVR-TI228(4).jpg Description: General View of Inside Cabinet

Paul C. R ENGINEERS & C	lizzo Associates onsultants	, Inc.					Sh	leet 203 of 5	13
Seismic Walkdown C	hecklist (SWC))			Status:	\odot	N	U	
Equipment ID No. 21	HVR-TI228-1	_	Equip. Class 19	9. Temperature Se	ensors				
Equipment Description	Cable	Vault And Ro	d Control Room	Temp					
Location: Bldg. <u>C</u>	NTB	Floor El.	735	Room	Control Roc	m			
Manufacturer, Model, I	Etc.								
Instructions for Comp This checklist may be u SWEL. The space belo findings. Additional sp	pleting Checkli used to documen w each of the fo ace is provided	st at the results o blowing quest at the end of t	of the Seismic Wa tions may be used his checklist for	alkdown of an ite d to record the res documenting othe	m of equipmen sults of judgme er comments.	nt on the ents and			

Anchorage

 Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?
 Mounted to the face of cabinet PNL-2BLG-SER with 2 ~1/8" machine bolts. See SWC

for PNL-2BLG-SER (Sheet 449 of 513) for cabinet anchorage configuration.

- U Y Ν N/A 2. Is the anchorage free of bent, broken, missing or loose hardware? Х U N/A Y Ν 3. Is the anchorage free of corrosion that is more than mild surface Х oxidation? Y Ν U N/A 4. Is the anchorage free of visible cracks in the concrete near the anchors? Х Ν U N/A Y 5. Is the anchorage configuration consistent with plant documentation? Х (Note: 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 potentially adverse seismic conditions?





Paul ENGINE	C. Rizzo Associates, Inc. EERS & CONSULTANTS				S	heet 204 of :
Seismic Walkdov	wn Checklist (SWC)		Status:	\heartsuit	Ν	U
Equipment ID No	Equip. Class 19. Tem	perature S	ensors			
Equipment Descr	iption Cable Vault And Rod Control Room Temp					n
Interaction Effec	ets		X	N	TT	
7. Are soft targets	free from impact by nearby equipment or structures?		Y X	IN		N/A
			Y	N	U	N/A
8. Are overhead e and masonry blo	equipment, distribution systems, ceiling tiles and lighting, ock walls not likely to collapse onto the equipment?					
			Y	N	U	N/A
9. Do attached lin Attached lines ha	es have adequate flexibility to avoid damage? ve adequate flexibility.					
10. Based on the	above seismic interaction evaluations, is equipment free		Y	N	U	
of potentially a	adverse seismic interaction effects?				1	I
Other Adverse C 11. Have you lool	Conditions ked for and found no other seismic conditions that could		Y	N	- U	
adversely affect	ct the safety functions of the equipment?		X			
Comments (Addi	itional pages may be added as necessary)				-	
	- totis Mina Le					
Evaluated by:	Eddie M. Guerra	Date:	10/10/	2012	_	
	Entful!					
	Brian A. Lucarelli	Date:	10/10/	2012	_	

Sheet 204 of 513



Seismic Walkdown Checklist (SWC)

Equipment ID No. 2HVR-TI228-1

Equip. Class 19. Temperature Sensors

Equipment Description

Cable Vault And Rod Control Room Temp



File Name: 2HVR-TI228-1(1).jpg Description: View of Component Anchorage



File Name: 2HVR-TI228-1(2).jpg Description: General View of Inside Cabinet



Seismic Walkdown Checklist (SWC)

Equipment ID No. 2HVR-TI228-1

Equip. Class 19. Temperature Sensors

Equipment Description

Cable Vault And Rod Control Room Temp



File Name: 2HVR-TI228-1(3).jpg Description: View of Cabinet Anchorage



File Name: 2HVR-TI228-1(4).jpg Description: View of Component and Plate ID

Paul C. Rizzo Associates, Inc. ENGINEERS& CONSULTANTS		Sheet 207 of 513
Seismic Walkdown Checklist (SWC)	Status: 🕅	N U
Equipment ID No. 2HVW-FN257A Equip. Class 9. Fans		
Equipment Description Intake Structure Cub 4 Supply Fan		·
Location: Bldg. INTS Floor El. 705 Room	Intake Cubicle C	
Manufacturer, Model, Etc.		

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

oxidation?

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?

Fan mounted on HSS steel frame with 6-1/2" diameter machine bolts. Frame is welded to wall-mounted steel plate, and plate is anchored to wall with 4~3/4" diameter anchor bolts.



Y





2. Is the anchorage free of bent, broken, missing or loose hardware?

3. Is the anchorage free of corrosion that is more than mild surface

- 4. Is the anchorage free of visible cracks in the concrete near the anchors?
- 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.)
- 6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?



Ν

U

N/A

Х





Seismic Walkdown Checklist (SWC)		Status:	\heartsuit	Ν	U
Equipment ID No. <u>2HVW-FN257A</u> Equip. Class 9. Fans					
Equipment Description Intake Structure Cub 4 Supply Fan	······	<u> </u>			
Interaction Effects					
7. Are soft targets free from impact by nearby equipment or structures?	Г	Y X	N	Γ	N/A
Fan is rigidly attached to duct and duct is rigidly supported from wall.	L	<u> </u>		I	
		Y	N	U	N/A
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	[X			
	-	Y	N	U	N/A
9. Do attached lines have adequate flexibility to avoid damage?	L	X			
10. Based on the above seismic interaction evaluations is a minute from	г	Y	<u>N</u>	U	
of potentially adverse seismic interaction effects?	L				
Other Adverse Conditions		V	N	ΤT	
adversely affect the safety functions of the equipment?	Г	$\frac{\mathbf{x}}{\mathbf{x}}$	N	0	
	L				
Comments (Additional pages may be added as necessary)					
= the Myna fl					
Evaluated by: Eddie M. Guerra	_Date:	10/10/2	012		
Ent full.					

Brian A. Lucarelli

Date:

10/10/2012



Seismic Walkdown Checklist (SWC)

Equipment ID No. 2HVW-FN257A

Equip. Class 9. Fans

Equipment Description

Intake Structure Cub 4 Supply Fan



File Name: 2HVW-FN257A(1).jpg Description: View of Anchorage



File Name: 2HVW-FN257A(2).jpg Description: Component Plate ID



Seismic Walkdown Checklist (SWC)

Equipment ID No. 2HVW-FN257A

Equip. Class 9. Fans

Equipment Description

Intake Structure Cub 4 Supply Fan



File Name: 2HVW-FN257A(3).jpg Description: General View of Component



File Name: 2HVW-FN257A(4).jpg Description: General View of Component

Paul C. Rizzo Associatos, Inc.				Sh	eet 211 of 513
Seismic Walkdown Checklist (SWC)		Status:	\odot	N	U
Equipment ID No. <u>2HVW-MOD21A</u>	Equip. Class 7. Pneumatic Operated	Valve Dan	nper		
Equipment Description Outside Air Damper	To (2HVW-FN257A)				
Location: Bldg. INTS Floor El.	<u>705</u> Room Int	take Cubicl	le D		
Manufacturer, Model, Etc.					

This checklist may be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

Anchorage

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?

Large damper well-braced back to wall. Damper operator is mounted horizontally to side of damper with a welded bracket. Operator is attached to bracket with $4 \sim 5/8$ "diameter machine bolts.



N

Y

2. Is the anchorage free of bent, broken, missing or loose hardware?

- 3. Is the anchorage free of corrosion that is more than mild surface oxidation?
- 4. Is the anchorage free of visible cracks in the concrete near the anchors?
- 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.)
- 6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?





		Status:	\heartsuit	N	U
Seismic Walkdown Checklist (SWC)					
Equipment ID No. <u>2HVW-MOD21A</u> Equip. Class 7. Pneum	atic Operate	d Valve Da	mper		
Equipment Description Outside Air Damper To (2HVW-FN257A)					
Interaction Effects					
7 Are reft torgets free from immed he needs	Г	$-\frac{Y}{x}$	<u>N</u>	U	<u>N/A</u>
No potential interaction to the damper or its linkage to the operator.	· _	<u>X</u>			
		Y	N	U	N/A
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	Γ	X			
and masonry block wans not fixely to comapse onto the equipment?					
	_	Y	N	U	N/A
9. Do attached lines have adequate flexibility to avoid damage?	L	X			
		Y	Ν	U	
10. Based on the above seismic interaction evaluations, is equipment free	Γ	X			
of potentially adverse seismic interaction effects?					
Other Adverse Conditions					
11. Have you looked for and found no other seismic conditions that could	_	Y	N	U	
adversely affect the safety functions of the equipment?		X			
Comments (Additional pages may be added as necessary)					
- Hei M. Show LO					
Evaluated by: Eddie M. Guerra	Date:	10/10/2	2012		
Ent fill.					

Brian A. Lucarelli

Date:

10/10/2012



Seismic Walkdown Checklist (SWC)

Equipment ID No. 2HVW-MOD21A

Equip. Class 7. Pneumatic Operated Valve Damper

Equipment Description

Outside Air Damper To (2HVW-FN257A)



File Name: 2HVW-MOD21A(1).jpg Description: General View of Component



File Name: 2HVW-MOD21A(2).jpg Description: View of Motor Operator



Outside Air Damper To (2HVW-FN257A)

Seismic Walkdown Checklist (SWC)

Equipment ID No. 2HVW-MOD21A

Equip. Class 7. Pneumatic Operated Valve Damper

 \heartsuit

N

Status:

U

Equipment Description



File Name: 2HVW-MOD21A(3).jpg Description: View of Motor Operator



File Name: 2HVW-MOD21A(4).jpg Description: Component Tag ID

Paul C. Rizzo Associates, Inc.	Sheet 215 of 3
Seismic Walkdown Checklist (SWC)	Status: 🕅 N U
Equipment ID No. <u>2HVZ-DMP215A</u> Equ	ip. Class 7. Pneumatic-Operated Valves
Equipment Description Discharge Damper	
Location: Bldg. <u>MSCV</u> Floor El. <u>77</u>	3 Room SWGR Vent Room 773
Manufacturer, Model, Etc.	

This checklist may be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

Anchorage

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?

In-line damper that is supported from ceiling by HSS anchored by 4~58" diameter anchor bolts and to wall by braced HSS welded to embed. Duct is well supported and braced.



Sheet 215 of 513

2. Is the anchorage free of bent, broken, missing or loose hardware?

- 3. Is the anchorage free of corrosion that is more than mild surface oxidation?
- 4. Is the anchorage free of visible cracks in the concrete near the anchors?
- 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.)
- 6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?




Seismic Walkdow	n Checklist (SWC)		Status:	(Ν	U
Equipment ID No.	2HVZ-DMP215A Equip. Class 7. Pneum	natic-Opera	ated Valves			
Equipment Descrip	otion Discharge Damper					
Interaction Effect	ts		V	N	TT	NT/A
7. Are soft targets	free from impact by nearby equipment or structures?		X	N	0	N/A
			Y	N	<u>U</u>	N/A
8. Are overhead ec and masonry blo	uipment, distribution systems, ceiling tiles and lighting, ck walls not likely to collapse onto the equipment?		X	<u> </u>	<u> </u>	
			<u>Y</u>	N	U	N/A
9. Do attached line	es have adequate flexibility to avoid damage?		X		l	
10 Deced on the -			Y	N	<u> </u>	I
of potentially a	dverse seismic interaction effects?			<u></u>	l	
Other Adverse C	onditions		v	N	- TI	
adversely affec	t the safety functions of the equipment?		X			
Comments (Addit	ional pages may be added as necessary)				-	
	- the Mym fl					
Evaluated by:	Eddie M. Guerra	Date:	10/10/2	2012	-	
	Entfil.					
	Brian A. Lucarelli	Date:	10/10/2	2012	_	



Seismic Walkdown Checklist (SWC)

Equipment ID No. 2HVZ-DMP215A

Equip. Class 7. Pneumatic-Operated Valves

Equipment Description

Discharge Damper



File Name: 2-61-5-2-16.jpeg Description: General View of Component



File Name: 2-62-5-2-16.jpeg Description: View of Component Area

Paul C. ENCINEERS 6	Rizzo Associa	tes, Inc.						Sheet 218 of 513
					Status	\odot	N	IJ
Seismic Walkdown (Checklist (SW	/C)			Statub.	U	1,	C
Equipment ID No.	2HVZ-FN261	<u>A</u>	Equip. Class 9	Fans				
Equipment Descriptic	n <u>Em</u>	erg SWGR Sup	ply Fan					
Location: Bldg.	MSCV	Floor El.	773	Room	SWGR Ver	nt Room 773	3	
Manufacturer, Model	, Etc							
Instructions for Con This checklist may be SWEL. The space bel findings. Additional s	used to docur ow each of th pace is provid	cklist ment the results e following que led at the end of	s of the Seismic W estions may be use f this checklist for	alkdown of an ite d to record the re documenting oth	em of equipme sults of judgm er comments.	ent on the ents and		
Anchorage					v	N		
1. Is the anchorage co of the 50% of SWE Ceiling mounted fan o bolts. Fan is attached	nfiguration ve EL items requi on 2 saddles. d to each sadd	erification requi ring such verifi Each saddle an le with 10~1/2"	red (i.e., is the iter cation)? chored with 3-1/2 diameter machin	n one " diameter ancho 2 bolts.	r			
					Y	N	U	N/A
2. Is the anchorage from	ee of bent, bro	ken, missing or	loose hardware?		X			
					Y	N	U	N/A
3. Is the anchorage fre oxidation?	e of corrosion	n that is more th	an mild surface		X			
					Y	N	U	N/A
4. Is the anchorage fre	ee of visible c	racks in the con	crete near the anc	nors?	X			
					Y	N	U	N/A
5. Is the anchorage co (Note: This question)	nfiguration co n only applies	onsistent with plant is o	lant documentation of the 50% for	n?		I		
Calculation NM(B)-5	ge configurati 21-CZC confi	on verification : rms anchorage	is required.) configuration as t	wo saddles with 3	3			

1/2" diameter anchor bolts for each saddle.

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?





Seismic Walkdow	n Checklist (SWC)		Status:	(N	U
Equipment ID No.	2HVZ-FN261A Equip. Class 9. Fan	S				
Equipment Descrip	tion Emerg SWGR Supply Fan					
Interaction Effect	s			N T	-	NT/A
7. Are soft targets f	free from impact by nearby equipment or structures?		X	<u>IN</u>		N/A
8. Are overhead eq and masonry bloc	uipment, distribution systems, ceiling tiles and lighting ck walls not likely to collapse onto the equipment?	,	Y X	N	U	N/A
9. Do attached lines have adequate flexibility to avoid damage?					U	N/A
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y Expansion joints on either side of the fan are found in good condition and with					U	
Other Adverse Co 11. Have you looke adversely affect	onditions ed for and found no other seismic conditions that could the safety functions of the equipment?		Y X	N	- U	
Comments (Additi	onal pages may be added as necessary)				-	
	- Attis Minafl					
Evaluated by:	Eddie M. Guerra	Date:	10/10/2	012	-	
	Brian A. Lucarelli	Date:	10/10/2	2012	_	



Seismic Walkdown Checklist (SWC)

Equipment ID No. 2HVZ-FN261A

Equip. Class 9. Fans

Equipment Description

Emerg SWGR Supply Fan



File Name: 2-61-9-2-16.jpeg Description: Component Plate ID



File Name: 2-62-9-2-16.jpeg Description: General View of Component



Equipment ID No. 2HVZ-FN261A

Equip. Class 9. Fans

Equipment Description

Emerg SWGR Supply Fan



File Name: 2-63-9-2-16.jpeg Description: View of Fan Support Bolts



File Name: 2-64-9-2-16.jpeg Description: View of Attached Lines

Paul C. Rizzo A ENGINEERS & CONSULTA	Associates, Inc.						Sheet 222 of 513
Seismic Walkdown Checkli	st (SWC)			Status:	Ŷ	N	U
Equipment ID No. <u>2HVZ-</u>	FN261B	Equip. Class 9.	Fans				
Equipment Description	Emerg SWGR Sup	ply Fan	······································			<u></u>	
Location: Bldg. MSCV	Floor El.	773	Room	SWGR Ven	t Room 7	73	
Manufacturer, Model, Etc.		<u>.</u>					
Instructions for Completing This checklist may be used to SWEL. The space below eac	g Checklist o document the results h of the following que	of the Seismic W stions may be use	alkdown of an ite d to record the re	m of equipme sults of judgm	nt on the ents and		

findings. Additional space is provided at the end of this checklist for documenting other comments.

Anchorage

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Floor mounted fan on 2 saddles. Each saddle anchored with 3-1/2" diameter anchor bolts. Fan is attached to each saddle with $10 \sim 1/2$ " diameter machine bolts.

- 2. Is the anchorage free of bent, broken, missing or loose hardware?
- 3. Is the anchorage free of corrosion that is more than mild surface oxidation?
- 4. Is the anchorage free of visible cracks in the concrete near the anchors?

U N/A Y Ν

Y

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Y

Х

Y

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Y

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U

N/A

N/A

N/A

- 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.)
- Calculation NM(B)-521-CZC confirms anchorage configuration as two saddles with 3-
- 1/2" diameter anchor bolts for each saddle.
- 6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?

N U Y X



Seismic Walkdo	wn Checklist (SWC)			Status:	Ŷ	N	U
Equipment ID No	o. <u>2HVZ-FN261B</u>	Equip. Class 9. Fans					
Equipment Desci	ription <u>Emerg SWGR</u>	Supply Fan		······			
Interaction Effe	cts					-	
7. Are soft target	. Are soft targets free from impact by nearby equipment or structures?			Y X	N	U	N/A
9 A	and the state of			Y	N	U	N/A
and masonry bl	equipment, distribution system lock walls not likely to collap	ns, ceiling tiles and lighting, se onto the equipment?		<u> </u>		L	
9 Do attached lines have adequate flexibility to avoid damage?					N	U	N/A
						I	
10. Based on the of potentially	above seismic interaction eva adverse seismic interaction et	luations, is equipment free ffects?		Y X	<u>N</u>	U	
Expansion joints adequate flexibil	on either side of the fan are f ity.	ound in good condition and t	with				
Other Adverse	Conditions			 \/	N	- T T	
adversely affe	ect the safety functions of the	equipment?			N		
Comments (Add	itional pages may be added as	s necessary)				-	
	the Manuat	Ĺ					
Evaluated by:	Eddie M. Guerra		Date:	10/10/2	012	-	
	Suntfil	<u>//</u> .					
	Brian A. Lucarelli		Date:	10/10/2	012		



Seismic Walkdown Checklist (SWC)

Equipment ID No. 2HVZ-FN261B

Equip. Class 9. Fans

Equipment Description

Emerg SWGR Supply Fan



File Name: 2-61-10-2-16.jpeg Description: Component Plate ID



File Name: 2-62-10-2-16.jpeg Description: General View of Component



Seismic Walkdown Checklist (SWC)

Equipment ID No. 2HVZ-FN261B

Equip. Class 9. Fans

Equipment Description

Emerg SWGR Supply Fan



File Name: 2-63-10-2-16.jpeg Description: View of Fan Support Bolts



File Name: 2-64-10-2-16.jpeg Description: View of Attached Lines



Seismic Walkdown Checklist (SWC)

Equipment ID No. <u>2HVZ-FN261B</u>

Equip. Class 9. Fans

Equipment Description

Emerg SWGR Supply Fan



File Name: 2-73-10-2-16.jpeg Description: View of Fan Anchorage

Paul C. Rizzo Associates, Inc. ENCINEROS & CONSULTANTS				Sheet 227 of 513
Seismic Walkdown Checklist (SWC)	Status:	(N	U
Equipment ID No. 2MSS-AOV101A Equip. Class 7. Pneumat	ic-Operated Valves			
Equipment Description BB C/S Main Steam Isolation			10 T	
Location: Bldg. MSCV Floor El. 773 H	Room Main Steam	Room El	789	
Manufacturer, Model, Etc.				
Instructions for Completing Checklist This checklist may be used to document the results of the Seismic Walkdown of SWEL. The space below each of the following questions may be used to record findings. Additional space is provided at the end of this checklist for document	of an item of equipmen d the results of judgme ting other comments.	nt on the ents and		
Anchorage	V	N		
 Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Very large AOV on large diameter pipe. Pipe is well supported near valve. 		X		
	Y	N	U	N/A
2. Is the anchorage free of bent, broken, missing or loose hardware?				X
3. Is the anchorage free of corrosion that is more than mild surface	Y	<u>N</u>	U	N/A X
oxidation? Valve found in good condition	L	I		
	Ň	N		NT/A
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Ŷ	N	0	N/A X
	Y	<u>N</u>	U	N/A
 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.) 	LL			<u>X</u>
6. Based on the above anchorage evaluations, is the anchorage free of	Y	N	U	
and and a set of an and a set of a set]

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?

Paul Paul	C. Rizzo Associates, Inc. Is & consultants						Sheet 228 of 513
Seismic Walkdow	n Checklist (SWC)			Status:	Ŷ	N	U
Equipment ID No.	2MSS-AOV101A	Equip. Class 7. Pneur	natic-Opera	ited Valves			
Equipment Descrip	btion BB C/S Main	Steam Isolation					
Interaction Effect	S			v	N	TI	N/A
7. Are soft targets	free from impact by nearby	equipment or structures?					
8 Are overhead ea	uipment distribution syste	ens, ceiling tiles and lighting		Y	N	U	N/A
and masonry bloc	ck walls not likely to colla	pse onto the equipment?				L	
9. Do attached line	s have adequate flexibility	to avoid damage?		Y	N	U	N/A
Attached lines four	ad with adequate flexibility			L			
10. Based on the all of potentially ac	pove seismic interaction ev lverse seismic interaction of	valuations, is equipment free effects?		Y X	<u>N</u>	U	
						_	
Other Adverse Co 11. Have you looke adversely affect	onditions ed for and found no other s the safety functions of the	eismic conditions that could e equipment?		Y X	N	U]
Comments (Addit	ional pages may be added	as necessary)				-	
	- this M. Juni	R					
Evaluated by:	Eddie M. Guerra		_Date:	10/10/2	2012	-	
	Sunt for	<u>//</u> .					
	Brian A. Lucarelli		Date:	10/10/2	2012		

Brian A. Lucarelli



Seismic Walkdown Checklist (SWC)

Equipment ID No. 2MSS-AOV101A

Equip. Class 7. Pneumatic-Operated Valves

Equipment Description

BB C/S Main Steam Isolation



File Name: 2-61-8-2-16.jpeg Description: Component Tag ID



File Name: 2-62-8-2-16.jpeg Description: General View of Component



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N

Status:

Seismic Walkdown Checklist (SWC)

Equipment ID No. 2MSS-AOV101A

Equip. Class 7. Pneumatic-Operated Valves

Equipment Description

BB C/S Main Steam Isolation



File Name: 2-63-8-2-16.jpeg Description: General View of Component and Attached Lines

Paul C. Rizzo Associates, Inc.				S	heet 231 of 513	3
Seismic Walkdown Checklist (SWC)		Status:	\heartsuit	N	U	
Equipment ID No. <u>2MSS-SOV105A</u>	Equip. Class 8B. Solenoid Valve					
Equipment Description BB Section C C/S 1/	A-MSSAT				,	
Location: Bldg. MSCV Floor El.	773 Room	Main Steam	Room E	1 789		
Manufacturer, Model, Etc.						

Instructions for Completing Checklist

This checklist may be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

Anchorage

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?

~2 ft tall solenoid valve mounted on ~4" diameter main line.

- 2. Is the anchorage free of bent, broken, missing or loose hardware?
- 3. Is the anchorage free of corrosion that is more than mild surface oxidation?
- 4. Is the anchorage free of visible cracks in the concrete near the anchors?
- 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.)
- 6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?



N

Х

Y



X







DCS	Paul C. Rizzo Associates,	Inc.
	ENGINEERS & CONSULTANTS	

Seismic Walkdov	vn Checklist (SWC)	Status:	\heartsuit	N	U
Equipment ID No	<u>2MSS-SOV105A</u> Equip. Class 8B. Solenoid Valve				
Equipment Descri	ption BB Section C C/S 1A-MSSAT			<u></u>	,
Interaction Effec	ts	V	NI	TT	NI/A
7. Are soft targets Temporary scaffor	free from impact by nearby equipment or structures?	X	<u>IN</u>		IN/A
8. Are overhead e	guipment, distribution systems, ceiling tiles and lighting,	Y X	N	U	N/A
and masonry blo	bock walls not likely to collapse onto the equipment?				
9. Do attached line	es have adequate flexibility to avoid damage?	Y X	N	U	N/A
Attached lines fou	nd with adequate flexibility.	Y	N	U	
10. Based on the a of potentially a	bove seismic interaction evaluations, is equipment free dverse seismic interaction effects?	X			J
Other Adverse C	onditions				
11. Have you look adversely affec	ted for and found no other seismic conditions that could tet the safety functions of the equipment?	Y X	<u>N</u>	U]
Comments (Addi	tional pages may be added as necessary)				
	Jottis M. Guna Ll				
Evaluated by:	Eddie M. Guerra Date:	10/10/2	2012		
	Sout full.				
	Brian A. Lucarelli Date:	10/10/2	2012		

Paul C. Rizzo Associates, Inc. ENGINEERS & CONSULTANTS

Status: 🕅 N U

Seismic Walkdown Checklist (SWC)

Equipment ID No. 2MSS-SOV105A

Equip. Class 8B. Solenoid Valve

Equipment Description

Other supporting or relevant documents and photos (if any):



BB Section C C/S 1A-MSSAT

File Name: 2-61-7-2-16.jpeg Description: Component Tag ID



File Name: 2-62-7-2-16.jpeg Description: General View of Component



Seismic Walkdown Checklist (SWC)

Equipment ID No. 2MSS-SOV105A

Equip. Class 8B. Solenoid Valve

Equipment Description

BB Section C C/S 1A-MSSAT



File Name: 2-63-7-2-16.jpeg Description: Scaffold tag log no 16-672

Paul C. Rizzo As ENCINEERS & CONSULTAN	ssociates, Inc.					Sł	ieet 235 of :
Seismic Walkdown Checklis	t (SWC)			Status:	\odot	N	U
Equipment ID No. 2MSS-S	V101A	Equip. Class 0. Other					
Equipment Description	(2RCS-SG21A) MN	STM Safety Valve				,,	
Location: Bldg. <u>MSCV</u>	Floor El.	773	Room	Main Steam	Room U	pper Plat.	,
Manufacturer, Model, Etc.			_				
Instructions for Completing	Checklist						

This checklist may be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

Anchorage

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? No signs of degradation.

- 2. Is the anchorage free of bent, broken, missing or loose hardware?
- 3. Is the anchorage free of corrosion that is more than mild surface oxidation?
- 4. Is the anchorage free of visible cracks in the concrete near the anchors?
- 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.)
- 6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?



N

Y

Sheet 235 of 513

DCS	Paul C. Rizzo Associates,	Inc.
	ENGINEERS & CONSULTANTS	

Seismic Walkdown Checklist (SWC)	Status:	$(\)$	Ν	U
Equipment ID No. 2MSS-SV1014 Equip Class 0 Other				
Equipment Description (2RCS-SG21A) MN STM Safety Valve				
Interaction Effects	<u> </u>		-	
	Y	N	U	N/A
7. Are soft targets free from impact by nearby equipment or structures?				
	Y	N	U	N/A
8. Are overhead equipment, distribution systems, ceiling tiles and lighting,	X			
and masonry block walls not likely to collapse onto the equipment?				
	Y	N	U	N/A
9. Do attached lines have adequate flexibility to avoid damage?	X	-		
A deficiency tag was observed on component regarding corrosion of attached drain tube. Judged that the deficiency identified will not affect the component's intended design function.				
	Y	N	U	
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	X			
Other Adverse Conditions			-	
adversely affect the safety functions of the equipment?	Y X	N		
Comments (Additional pages may be added as necessary)			-	
-this M. June LC				
Evaluated by: Eddie M. Guerra Date:	10/10/2	2012	_	
Entful!				
Brian A. Lucarelli Date:	10/10/2	2012	_	



Seismic Walkdown Checklist (SWC)

Equipment ID No. 2MSS-SV101A

Equip. Class 0. Other

Equipment Description

(2RCS-SG21A) MN STM Safety Valve



File Name: 2-61-6-2-16.jpeg Description: Component Tag ID



File Name: 2-62-6-2-16.jpeg Description: General View of Component



 Status:
 Image: Noise of the status

 Seismic Walkdown Checklist (SWC)

 Equipment ID No.
 2MSS-SV101A

 Equipment Description
 (2RCS-SG21A) MN STM Safety Valve



File Name: 2-63-6-2-16.jpeg Description: Deficiency Tag on Component

Paul C. Rizzo Associates, Inc. ENGINEERS & CONSULTANTS			S	heet 239 of 513
Seismic Walkdown Checklist (SWC)	Status:	Y	N	U
Equipment ID No. 2QSS-297 Equip. Class 0D. Other-Check Valv	ve or Manu	al Valve		
Equipment Description RWST Suction Isol To Low HD				
Location: Bldg. YARD Floor El. 730 Room Y	ard			
Manufacturer, Model, Etc.				
Instructions for Completing Checklist This checklist may be used to document the results of the Seismic Walkdown of an item of SWEL. The space below each of the following questions may be used to record the result findings. Additional space is provided at the end of this checklist for documenting other of	of equipme s of judgm omments.	nt on the ents and		
Anchorage	V	N		
 Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Manual valve at base of refueling water storge tank. Main line is insulated. 		X		
	Y	N	U	N/A
2. Is the anchorage free of bent, broken, missing or loose hardware?			-	X
3. Is the anchorage free of corrosion that is more than mild surface	Y	N X	U	N/A
Corrosion identified at base where valve connects to pipe. CR-2012-14749 generated to document this condition				
4 Is the anchorage free of visible cracks in the concrete near the anchors?	Y	N	U	N/A X
- is the anchorage free of visible cracks in the concrete hear the anchors:				
5 Is the analogoe configuration consistent with about documentation?	Y	N	U	N/A
(Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)		I		A
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	Y	N X	U	l



Seismic Walkdown Checklist (SWC)	Status:	Y	N	U
Equipment ID No. 2QSS-297 Equip. Class 0D. Other-Che	ck Valve or Manu	ıal Valve	;	
Equipment Description RWST Suction Isol To Low HD	· · · · · · · · · · · · · · · · · · ·			
Interaction Effects			-	27/4
7. Are soft targets free from impact by nearby equipment or structures?	Y X	<u>N</u>		N/A
8 Are overhead equipment distribution systems, ceiling tiles and lighting	Y	N	U	N/A
and masonry block walls not likely to collapse onto the equipment?			I]
9. Do attached lines have adocuste flexibility to avoid democra?	Y	N	<u> </u>	N/A
9. Do attached files have adequate flexionity to avoid damage?		<u> </u>	<u> </u>	
	Y	N	U	
 Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Scaffolding in area is well braced. 	X			
Other Adverse Conditions	<u></u>		-	
11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment?	Y	N		
, , , , , , , , , , , , , , , , , , ,			<u>.</u>	
Comments (Additional pages may be added as necessary)			-	
- the Mina fl				
Evaluated by: Eddie M. Guerra Date	e: <u>10/10/2</u>	2012	_	
Sant full.				

Brian A. Lucarelli

Date: 1

10/10/2012



Status: Y 🕲 U

Seismic Walkdown Checklist (SWC)

Equipment ID No. 2QSS-297

Equip. Class 0D. Other-Check Valve or Manual Valve

Equipment Description

RWST Suction Isol To Low HD



File Name: 2-61-9-2-29.jpeg Description: Component Tag ID



File Name: 2-62-9-2-29.jpeg Description: General View of Component



Equipment ID No. 2QSS-297

Equip. Class 0D. Other-Check Valve or Manual Valve

Equipment Description





File Name: 2-63-9-2-29.jpeg Description: Corrosion at Valve Base

ENGINEERS & CONSULTANTS			د	neet 245 01 51
	Status:	Y	N	U
Seismic Walkdown Checklist (SWC)				
Equipment ID No. 2QSS-LT 104A Equip. Class 18. Instrumen	t on Rack			
Equipment Description Refueling Water Storage Tank Level	······			-
Location: Bldg. <u>YARD</u> Floor El. <u>730</u> Roo	om <u>Yard</u>			
Manufacturer, Model, Etc.				
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 documentin	an item of equipm he results of judgr g other comments	ent on the nents and		
Anchorage				
1. Is the anchorage configuration verification required (i.e., is the item one	Y X	N		
of the 50% of SWEL items requiring such verification)? Component mounted to a steel base plate, which is anchored by 4-3/8" diameter anchor bolts.				
	Y	<u>N</u>	U	N/A
2. Is the anchorage free of bent, broken, missing or loose hardware?	Y X	N	U	N/A
2. Is the anchorage free of bent, broken, missing or loose hardware?	Y X Y	<u>N</u>	U U	N/A N/A
2. Is the anchorage free of bent, broken, missing or loose hardware?3. Is the anchorage free of corrosion that is more than mild surface ovidation?	Y X Y	N N X	U U	N/A N/A
 2. Is the anchorage free of bent, broken, missing or loose hardware? 3. Is the anchorage free of corrosion that is more than mild surface oxidation? Corrosion is identified in anchor bolts. CR-2012-14744 generated to document to condition. 	Y X Y L	N N X	UU	N/A N/A
 2. Is the anchorage free of bent, broken, missing or loose hardware? 3. Is the anchorage free of corrosion that is more than mild surface oxidation? Corrosion is identified in anchor bolts. CR-2012-14744 generated to document t condition. 	Y X Y Vhis	N N X N	U U U	N/A N/A
 2. Is the anchorage free of bent, broken, missing or loose hardware? 3. Is the anchorage free of corrosion that is more than mild surface oxidation? <i>Corrosion is identified in anchor bolts.</i> CR-2012-14744 generated to document to condition. 4. Is the anchorage free of visible cracks in the concrete near the anchors? 	Y X Y Vhis Y X	N N X N	U U U	N/A N/A N/A
 2. Is the anchorage free of bent, broken, missing or loose hardware? 3. Is the anchorage free of corrosion that is more than mild surface oxidation? <i>Corrosion is identified in anchor bolts. CR-2012-14744 generated to document t condition.</i> 4. Is the anchorage free of visible cracks in the concrete near the anchors? 	Y X Y his Y X	N N X N	U U U	N/A N/A N/A
 2. Is the anchorage free of bent, broken, missing or loose hardware? 3. Is the anchorage free of corrosion that is more than mild surface oxidation? <i>Corrosion is identified in anchor bolts. CR-2012-14744 generated to document to condition.</i> 4. Is the anchorage free of visible cracks in the concrete near the anchors? 5. Is the anchorage configuration consistent with plant documentation? 	Y X Phis Y X Y X	N N X N	U U U U	N/A N/A N/A
 2. Is the anchorage free of bent, broken, missing or loose hardware? 3. Is the anchorage free of corrosion that is more than mild surface oxidation? <i>Corrosion is identified in anchor bolts.</i> CR-2012-14744 generated to document to condition. 4. Is the anchorage free of visible cracks in the concrete near the anchors? 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>Drawing 12241-BK-16G-45-3 confirms 4-3/8" diameter anchor bolts</i> 	$\begin{array}{c} Y \\ X \\ \end{array}$ $\begin{array}{c} Y \\ \end{array}$	N N X N	U U U	N/A N/A N/A
 2. Is the anchorage free of bent, broken, missing or loose hardware? 3. Is the anchorage free of corrosion that is more than mild surface oxidation? <i>Corrosion is identified in anchor bolts.</i> CR-2012-14744 generated to document to condition. 4. Is the anchorage free of visible cracks in the concrete near the anchors? 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>Drawing 12241-BK-16G-45-3 confirms 4-3/8" diameter anchor bolts</i> 	$\begin{array}{c} Y \\ X \\ \end{array}$ $\begin{array}{c} Y \\ \end{array}$	N N X N N	U U U U	N/A N/A N/A N/A

Pau ENCIN	I C. Rizzo Associates, Inc. fers & consultants				S	heet 244 of :
Seismic Walkdov	wn Checklist (SWC)		Status:	Y	\bigotimes	U
Equipment ID No. 2QSS-LT 104A Equip. Class 18. Instrument on Rack						
Equipment Descr	iption Refueling Water Storage Tank Level					
Interaction Effec	cts				-	
7. Are soft targets	s free from impact by nearby equipment or structures?		Y X	N		
			Y	N	U	N/A
8. Are overhead e and masonry blo	equipment, distribution systems, ceiling tiles and lighting, ock walls not likely to collapse onto the equipment?					
			Y	N	U	N/A
9. Do attached lin Attatched lines fo	les have adequate flexibility to avoid damage? und with adequate flexibility.		X			
10. Based on the a of potentially a	above seismic interaction evaluations, is equipment free adverse seismic interaction effects?		Y X	N	U	
Other Adverse C	Conditions				-	
11. Have you lool adversely affect	ked for and found no other seismic conditions that could ct the safety functions of the equipment?		Y X	N	U	
Comments (Addi	tional pages may be added as necessary)			<u></u>	-	
	- His M. Show LO					
Evaluated by:	Eddie M. Guerra	Date:	10/10/2	012	-	
	Smit full.					
	Brian A. Lucarelli	Date:	10/10/2	012		

Sheet 244 of 513





Status: Y 🕲 U

Seismic Walkdown Checklist (SWC)

Equipment ID No. 2QSS-LT 104A

Equip. Class 18. Instrument on Rack

Equipment Description

Refueling Water Storage Tank Level



File Name: 2-61-10-2-29.jpeg Description: Component Tag ID



File Name: 2-62-10-2-29.jpeg Description: General View of Component



Status: Y 🕅 U

Seismic Walkdown Checklist (SWC)

Equipment ID No. 2QSS-LT 104A

Equip. Class 18. Instrument on Rack

Equipment Description

Refueling Water Storage Tank Level



File Name: 2-63-10-2-29.jpeg Description: View of Component Anchorage



File Name: 2-64-10-2-29.jpeg Description: View of Component Area



Status: Y 🕲 U

Seismic Walkdown Checklist (SWC)

Equipment ID No. 2QSS-LT 104A

Equip. Class 18. Instrument on Rack

Equipment Description

Refueling Water Storage Tank Level



File Name: 2-73-10-2-29.jpeg Description: Corrosion Observed on Anchorage

Paul C. Rizzo Associates, Inc. ENGINEERS & CONSULTANTS			S	heet 248 of 513
Seismic Walkdown Checklist (SWC)	Status:	\heartsuit	N	U
Equipment ID No. 20SS-MOV100A Equip Class 8A Motor Oper	ated Valve			
				······
Equipment Description P21A Suction - BB C/S		- <u></u> .		
Location: Bldg. SFGB Floor El. <u>718</u> Room	SFGD 718	UP		
Manufacturer, Model, Etc.				
Instructions for Completing Checklist This checklist may be used to document the results of the Seismic Walkdown of an SWEL. The space below each of the following questions may be used to record the findings. Additional space is provided at the end of this checklist for documenting of	item of equipme results of judgm other comments.	nt on the ents and		
Anchorage				
 Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? MOV on ~12" diameter line. Piping is well supported near valve. 	Y	X		
	Y	N	U	N/A
2. Is the anchorage free of bent, broken, missing of loose hardware?				
	Y	N	_ U	N/A
3. Is the anchorage free of corrosion that is more than mild surface oxidation?				X
	V	N	TT	NI/A
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Ŷ			X
	Y	<u>N</u>	U	N/A
 3. 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.) 	LL		L	
	Y	N	U	
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	X			J

Pau ENCIN	1 C. Rizzo Associates, Inc. EERS & CONSULTANTS				S	heet 249 of 513
Soionia Wallada	our Charlest (SWO)		Status:	\odot	N	U
Seismic waikdo	wn Checklist (SWC)					
Equipment ID No	D. <u>2QSS-MOV100A</u>	Equip. Class 8A. Motor Ope	rated Valve			
Equipment Descr	ription <u>P21A Suction</u>	- BB C/S	· · · · · · · · · · · · · · · · · · ·			
Interaction Effe	cts					27/1
7. Are soft targets	s free from impact by nearby	equipment or structures?	Y X		0	<u>N/A</u>
Valve bonnet inst judged acceptabl during a seismic	ulation observed to be in con e as excessive seismic displa event, so interaction would n	tact with platform grating. This is cement of the valve is not expected not be significant.				
			Y	N	U	N/A
8. Are overhead e and masonry bl	equipment, distribution system lock walls not likely to collap	ms, ceiling tiles and lighting, use onto the equipment?	X	· · · · · · · · · · · · · · · · · · ·		
			Y	N	U	N/A
9. Do attached lir	nes have adequate flexibility	to avoid damage?	X			
			Y	N	U	
10. Based on the of potentially	above seismic interaction eva adverse seismic interaction e	aluations, is equipment free ffects?	X			1
Other Adverse (Conditions					
11. Have you loo adversely affe	ked for and found no other so ct the safety functions of the	eismic conditions that could equipment?	Y X	<u>N</u>	U	
Comments (Add	itional pages may be added a	s necessary)		- <u>-</u>		
	- this Might	£				
Evaluated by:	Eddie M. Guerra	Date	: 10/10/2	012		
	Suntal	<u>//</u> .				
	Brian A. Lucarelli	Date	: 10/10/2	012		



Seismic Walkdown Checklist (SWC)

Equipment ID No. 2QSS-MOV100A

Equip. Class 8A. Motor Operated Valve

Equipment Description

P21A Suction - BB C/S



File Name: 2-61-2-2-23.jpeg Description: Component Plate ID



File Name: 2-62-2-23.jpeg Description: General View of Component



Seismic Walkdown Checklist (SWC)

Equipment ID No. 2QSS-MOV100A

Equip. Class 8A. Motor Operated Valve

Equipment Description

P21A Suction - BB C/S



File Name: 2-63-2-2-23.jpeg Description: General View of Main Line and Component
Paul C. Rizzo Associates, Inc. ENGINEERS & CONSULTANTS				Sheet 252 of 513
Seismic Walkdown Checklist (SWC)	Status:	\heartsuit	N	U
Equipment ID No. 2QSS-MOV101A Equip. Class 8A. Motor	Operated Valve			
Equipment Description P21A Discharge BB C/S	······································			
Location: Bldg. SFGB Floor El. 718	Room <u>RSS Cubic</u>	e		
Manufacturer, Model, Etc.				
Instructions for Completing Checklist This checklist may be used to document the results of the Seismic Walkdown SWEL. The space below each of the following questions may be used to recor findings. Additional space is provided at the end of this checklist for documen	of an item of equipme d the results of judgm ting other comments.	ent on the ents and		
Anchorage				
 Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? MOV mounted on ~10" diameter line. Piping is well supported near valve. 	Y	N X		
2. Is the anchorage free of bent, broken, missing or loose hardware?	Y	N	U	N/A X
3. Is the anchorage free of corrosion that is more than mild surface oxidation? Value found in good condition	Y	N	U	N/A X
	V	N	T	NI/A
4. Is the anchorage free of visible cracks in the concrete near the anchors?		IN		X
5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for	Y	N	U	N/A X
which an anchorage configuration verification is required.)6. Based on the above anchorage evaluations, is the anchorage free of	Y X	N	U	
potentially adverse seismic conditions?				



Seismic Walkdown Checklist (SWC)	x	Status:	\heartsuit	Ν	U
Equipment ID No. 2QSS-MOV101A Equip. Class 8A. Motor	r Operated V	⁷ alve			
Equipment Description P21A Discharge BB C/S					
Interaction Effects		• • •			
7. Are soft targets free from impact by nearby equipment or structures?	Г	Y X		T	N/A
angles and her might by hearby equipment of structures.	L_	A			
8 Are overhead equipment distribution of the 11 of the 11 of	F	Y	N	U	N/A
and masonry block walls not likely to collapse onto the equipment?	L	X			
, and the second and equipment.					
9 Do attached lines have adopted flowibility to avoid down - 2	Γ-	Y	N	<u> </u>	N/A
Attached lines found with adequate flexibility.	L				
10 Based on the above seismic interaction avaluations, is againment free	Г	Y	N	U	
of potentially adverse seismic interaction effects?					
Other Adverse Conditions	<u> </u>				
11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the againment?	г	Y	N	U	
actorisity affect the safety functions of the equipment?	L				
Comments (Additional pages may be added as necessary)					
- the Mym D					
Evaluated by: Eddie M. Guerra	Date:	10/10/2	012		
Entfill.					

Brian A. Lucarelli

Date:

10/10/2012



Seismic Walkdown Checklist (SWC)

Equipment ID No. 2QSS-MOV101A

Equip. Class 8A. Motor Operated Valve

Equipment Description

Other supporting or relevant documents and photos (if any):



P21A Discharge BB C/S

File Name: 2-61-1-2-23.jpeg Description: Component Plate ID



File Name: 2-62-1-2-23.jpeg Description: General View of Component

Paul C. Rizzo Associates, Inc. ENGINEERS & CONSULTANTS				Sheet 255 of 513
	Status:	(N	U
Seismic Walkdown Checklist (SWC)				
Equipment ID No. <u>2RCS-AOV101</u> Equip. Class 7. Pneumatic-Op	perated Valves			
Equipment Description CNMT Isolation CIA Penetr 49				
Location: Bldg. MSCV Floor El. 718 Room	MSCV 718			
Manufacturer, Model, Etc.				
Instructions for Completing Checklist This checklist may be used to document the results of the Seismic Walkdown of an SWEL. The space below each of the following questions may be used to record the findings. Additional space is provided at the end of this checklist for documenting of the space of the space is provided at the end of the space space.	item of equipmer results of judgme other comments.	nt on the ents and		
 Anchorage 1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Small AOV on ~1" dia line. Main line is well supported within ~10" of valve on each side. 	Y 	N X		
2. Is the anchorage free of bent, broken, missing or loose hardware?	Y	N	U	N/A X
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	Y	N	U	N/A X
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Y	<u>N</u>	U	N/A X
5. Is the anchorage configuration consistent with plant documentation?	Y	N	U	N/A X
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	Y X	<u>N</u>	U	



Seismic Walkdown Checklist (SWC)	Status	\heartsuit	N	U
Equipment ID No. 2RCS-AOV101 Equip. Class 7. Pneumatic-	Operated Valves			
Equipment Description CNMT Isolation CIA Penetr 49	а _н т. — — — — — — — — — — — — — — — — — — —			·
Interaction Effects			-	
7 Are soft targets free from impact by nearby equipment or structures?	Y	N		N/A
The solt targets nee nom impact by hearby equipment of structures?		<u> </u>	L	L
	Y	N	U	N/A
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?				
	Y	N	U	N/A
9. Do attached lines have adequate flexibility to avoid damage? Attached lines found with adequate flexibility	X		L	
machea mes jouna win aucquae jexionity.				
10. Based on the above seismic interaction evaluations, is againment free	Y	N	<u>U</u>	I
of potentially adverse seismic interaction effects?	A		1	
			_	
Other Adverse Conditions 11. Have you looked for and found no other seismic conditions that could	v	N	U	
adversely affect the safety functions of the equipment?	X			
Comments (Additional pages may be added as necessary)			-	
= the Mghung Le				
Evaluated by: Eddie M. Guerra Dat	e: <u>10/10</u>	/2012	-	
Ent fill.				

Brian A. Lucarelli

Date: <u>1</u>

10/10/2012



Seismic Walkdown Checklist (SWC)

Equipment ID No. 2RCS-AOV101

Equip. Class 7. Pneumatic-Operated Valves

Equipment Description

CNMT Isolation CIA Penetr 49



File Name: 2-62-3-2-11.jpeg Description: Component Tag ID



File Name: 2-64-3-2-11.jpeg Description: General View of Component



Seismic Walkdown Checklist (SWC)

Equipment ID No. 2RCS-AOV101

Equip. Class 7. Pneumatic-Operated Valves

Equipment Description

CNMT Isolation CIA Penetr 49



File Name: 2-61-3-2-11.jpeg Description: View of Attached Lines

Paul C. Rizzo Associates, Inc. ENGINEERS & CONSULTANTS			S	heet 259 of 513
Seismic Walkdown Checklist (SWC)	Status:	\heartsuit	N	U
Equipment ID No. 2RCS-PT440 Equip. Class 18. Instrument on R	lack			
Equipment Description Reactor Vessel LVL INST SYS Pressure TRA				
Location: Bldg. MSCV Floor El. 740 Room	MSCV East	735		
Manufacturer, Model, Etc.				
Instructions for Completing Checklist This checklist may be used to document the results of the Seismic Walkdown of an iter SWEL. The space below each of the following questions may be used to record the res findings. Additional space is provided at the end of this checklist for documenting othe	m of equipme ults of judgm er comments.	nt on the ents and		
Anchorage	V	N		
 Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Component mounted to stiffened angle with 4~1/4"machine bolts. Angle is welded to a wall plate, which is anchored to the wall with 6~3/8"diameter anchor bolts. 		X		
2. Is the anchorage free of bent, broken, missing or loose hardware?	Y X	N	U	N/A
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	Y X	N	<u> U </u>	N/A
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Y X	N	U	N/A
5. Is the anchorage configuration consistent with plant documentation?(Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)	Y	N	U	N/A X
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	Y X	N	U]

Paul ENGINE	C. Rizzo Associates, Inc. ERS& CONSULTANTS				S	heet 260 of
Seismic Walkdov	vn Checklist (SWC)		Status:	\heartsuit	N	U
Equipment ID No	. <u>2RCS-PT440</u> Equip. Class 18. Instrum	nent on R	ack			
Equipment Descri	ption Reactor Vessel LVL INST SYS Pressure TRA	L	- <u></u>	<u>, </u>	······	<u>.</u>
Interaction Effec	ts				TT	
7. Are soft targets	free from impact by nearby equipment or structures?		Y X	N	U	N/A
8. Are overhead e and masonry blo	quipment, distribution systems, ceiling tiles and lighting, bck walls not likely to collapse onto the equipment?		Y X	N	U	N/A
9. Do attached line	es have adequate flexibility to avoid damage?		Y X	N	U	N/A
10. Based on the a of potentially a	above seismic interaction evaluations, is equipment free adverse seismic interaction effects?		Y X	N	U	
Four other transn acceptable becaus	nitters are anchored to the same wall plate. Wall plate is jud se all transmitters are lightweight (<25 lbs)	lged				
Other Adverse C 11. Have you look adversely affect	Conditions ked for and found no other seismic conditions that could bt the safety functions of the equipment?		Y X	N	U]
Comments (Addi	tional pages may be added as necessary)					
	- this M Show fl					
Evaluated by:	Eddie M. Guerra	Date:	10/10/2	2012		
	Entfull.					
	Brian A. Lucarelli	Date:		2012		

Sheet 260 of 513





Seismic Walkdown Checklist (SWC)

Equipment ID No. 2RCS-PT440

Equip. Class 18. Instrument on Rack

Equipment Description

Reactor Vessel LVL INST SYS Pressure TRA



File Name: 2-61-1-2-14.jpeg Description: Component Tag ID



File Name: 2-62-1-2-14.jpeg Description: General View of Component



Seismic Walkdown Checklist (SWC)

Equipment ID No. 2RCS-PT440

Equip. Class 18. Instrument on Rack

Equipment Description

Reactor Vessel LVL INST SYS Pressure TRA



File Name: 2-63-1-2-14.jpeg Description: View of Component Anchorage



File Name: 2-64-1-2-14.jpeg Description: View of Wall Plate Anchorage



Seismic Walkdown Checklist (SWC)

Equipment ID No. 2RCS-PT440

Equip. Class 18. Instrument on Rack

Equipment Description



Reactor Vessel LVL INST SYS Pressure TRA

File Name: 2-73-1-2-14.jpeg Description: View of Attached Lines

Paul C. Rizzo Associates, Inc. ENCINEERS & CONSULTANTS				S	heet 264 of 513
Seismic Walkdown Checklist (SWC)		Status:	\odot	Ν	U
Equipment ID No. 2RHS-E21B Equip. Class 21. Tanks	& Heat Ex	changers			
Equipment Description Res Heat Removal Heat Exchanger	····				
Location: Bldg. <u>RCBX</u> Floor El. <u>707</u>	Room	<u>RCBX 70</u> 7			
Manufacturer, Model, Etc.					
Instructions for Completing Checklist This checklist may be used to document the results of the Seismic Walkdown SWEL. The space below each of the following questions may be used to reco findings. Additional space is provided at the end of this checklist for documer	of an item rd the resu nting other	of equipments of judgments.	nt on the ents and		
Anchorage					
 Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Component anchored by 8-1 1/8" diam bolts connected to 1" thick plates. 	[Y X			
	-	Y	N	U	N/A
2. Is the anchorage free of bent, broken, missing or loose hardware?	l	X			
3. Is the anchorage free of corrosion that is more than mild surface	[Y X	N	U	N/A
oxidation?					
		Y	N	<u>U</u>	N/A
4. Is the anchorage free of visible cracks in the concrete near the anchors?	l	X			
		Y	N	U	N/A
 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.) 	[X			
Drawing No. 10080-ISI-E-2P confirms anchorage as 8-1 1/8" diameter ancho	or bolts.				
		Y	N	U	

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ſ

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?



Seismic Walkdov	wn Checklist (SWC)		Status:	\heartsuit	Ν	U
Equipment ID No	2RHS-E21B Equip. Class 21. Tan	ks & Heat	Exchangers			
Equipment Descri	iption Res Heat Removal Heat Exchanger					
Interaction Effec	ets				-	
			Y	N	U	N/A
7. Are soft targets	free from impact by nearby equipment or structures?		X			
			Y	N		N/A
8. Are overhead e and masonry blo	quipment, distribution systems, ceiling tiles and lighting, ock walls not likely to collapse onto the equipment?		X	*********	L	
			Y	N	U	N/A
9. Do attached lin	es have adequate flexibility to avoid damage?		X			
10 Based on the	above saismic interaction evaluations, is againment free		Y	N	U	I
of potentially a	adverse seismic interaction effects?				I	I
Other Adverse C	Conditions ked for and found no other seismic conditions that could		Y	N	- U	
adversely affect	ct the safety functions of the equipment?		X			
Comments (Addi	itional pages may be added as necessary)				-	
	Ettis Minafl					
Evaluated by:	Eddie M. Guerra	Date:	10/10/2	2012	_	
	Ent fill.					
	Brian A. Lucarelli	Date:	10/10/2	2012		

Date:

Brian A. Lucarelli





Seismic Walkdown Checklist (SWC)

Equipment ID No. 2RHS-E21B

Equip. Class 21. Tanks & Heat Exchangers

Equipment Description

Res Heat Removal Heat Exchanger



File Name: 2-63-3-2-18.jpeg Description: General View of Component



File Name: 2-64-3-2-18.jpeg Description: View of Attached Piping



Seismic Walkdown Checklist (SWC)

Equipment ID No. 2RHS-E21B

Equip. Class 21. Tanks & Heat Exchangers

Equipment Description

Res Heat Removal Heat Exchanger



File Name: 2-61-3-2-18.jpeg Description: General View of Anchorage



File Name: 2-62-3-2-18.jpeg Description: Close Up View of Anchorage

Paul C. Rizzo Associates, Inc. ENGINEERS& CONSULTANTS	Sheet 268 of 51	3
Seismic Walkdown Checklist (SWC)	Status: 🕅 N U	
Equipment ID No. <u>2RHS-HCV758A</u> Equip	ip. Class 7. Pneumatic-Operated Valves	
Equipment Description RHS Train A HX Outlet Fl	low	
Location: Bldg. <u>RCBX</u> Floor El. <u>692</u>	2 Room <u>RCBX 707</u>	
Manufacturer, Model, Etc.		

Instructions for Completing Checklist

This checklist may be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

Anchorage

1. Is the anchorage configuration verification required (i.e., is the item one
of the 50% of SWEL items requiring such verification)?
Valve mounted on ~18" insulated line.



- 2. Is the anchorage free of bent, broken, missing or loose hardware?
- 3. Is the anchorage free of corrosion that is more than mild surface oxidation? Valve found in good condition.
- 4. Is the anchorage free of visible cracks in the concrete near the anchors?
- 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.)
- 6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?













Seismic Walkdo	wn Checklist (SWC)	Status:	${f V}$	Ν	U
Equipment ID No	Equip. Class 7. Pneumatic-	Operated Valves			
Equipment Descr	iption RHS Train A HX Outlet Flow				
Interaction Effe	ets			-	
7. Are soft targets	free from impact by nearby equipment or structures?	Y X	<u>N</u>	U	N/A
		Y	N	U	N/A
8. Are overhead e and masonry bl	quipment, distribution systems, ceiling tiles and lighting, ock walls not likely to collapse onto the equipment?	X			
		Y	N	U	N/A
9. Do attached lin Attached lines ide	es have adequate flexibility to avoid damage? Intified with adequate flexibility.	X			
10. Based on the	above seismic interaction evaluations, is equipment free	Y	N	U	ļ
of potentially	adverse seismic interaction effects?				
Other Adverse (onditions			-	
11. Have you loo adversely affe	ked for and found no other seismic conditions that could of the safety functions of the equipment?	Y	N	U	
Comments (Add	tional pages may be added as necessary)			-	
	tional pages may be added as necessary)				
	- His M. Smith				
Evaluated by:	Eddie M. Guerra Dat	te: 10/10/2	012	-	
	Ent fill.				
	Brian A. Lucarelli Dat	te: <u>10/10/2</u>	2012		



Paul C. Rizzo Associates, Inc. ENGINEERS & CONSULTANTS

Status: 🕅 N U

Seismic Walkdown Checklist (SWC)

Equipment ID No. 2RHS-HCV758A

Equip. Class 7. Pneumatic-Operated Valves

Equipment Description

RHS Train A HX Outlet Flow



File Name: 2-61-2-2-17.jpeg Description: Component Plate ID



File Name: 2-62-2-17.jpeg Description: General View of Component



Seismic Walkdown Checklist (SWC)

Equipment ID No. 2RHS-HCV758A

Equip. Class 7. Pneumatic-Operated Valves

Equipment Description

RHS Train A HX Outlet Flow



File Name: 2-64-2-2-17.jpeg Description: View of Attached Lines



File Name: 2-73-2-2-17.jpeg Description: View of Main Line Support

Paul C. Rizzo Associates, Inc.					SI	neet 272 of 5	13
Seismic Walkdown Checklist (SWC)			Status:	\heartsuit	N	U	
Equipment ID No. 2RHS-MOV702A	Equip. Class 8	8a. Motor Operate	d Valve				
Equipment Description <u>RC To RHR IS</u>	0						
Location: Bldg. <u>RCBX</u> Floor E	l. <u>718</u>	Room	RCBX 718-A RCP Pump				
Manufacturer, Model, Etc.							

Instructions for Completing Checklist

This checklist may be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

Anchorage

1. Is the anchorage configuration verification required (i.e., is the item one	
of the 50% of SWEL items requiring such verification)?	
Tall MOV (\sim 5') mounted on \sim 24" insulated line.	

- 2. Is the anchorage free of bent, broken, missing or loose hardware?
- 3. Is the anchorage free of corrosion that is more than mild surface oxidation?
- 4. Is the anchorage free of visible cracks in the concrete near the anchors?
- 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.)
- 6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?













DCS	Paul C. Rizzo Associates,	Inc.
	ENGINEERS & CONSULTANTS	

Seismic Walkdov	vn Checklist (SWC)		Status:	Ŷ	Ν	U
Equipment ID No	. <u>2RHS-MOV702A</u> Equip. Class	8a. Motor Operated	Valve			
Equipment Descri	ption RC To RHR ISO		·····			
Interaction Effec	ets			0 00 000 mgaga		
7. Are soft targets	free from impact by nearby equipment or struct	ures?	Y X	N	U	N/A
8. Are overhead e	quipment, distribution systems, ceiling tiles and	lighting,	Y X	N	U	N/A
and masonry blo	ock walls not likely to collapse onto the equipme	nt?				
9. Do attached line	es have adequate flexibility to avoid damage?		Y X	N	U	N/A
Attached lines ide	ntified with adequate flexibility.		V	NI	TT	
10. Based on the a of potentially a	above seismic interaction evaluations, is equipment adverse seismic interaction effects?	ent free		IN]
Other Adverse C 11. Have you look adversely affec	Conditions ked for and found no other seismic conditions that to the safety functions of the equipment?	it could	Y	N	U]
Comments (Addi	tional pages may be added as necessary)					-
	= this Minafle					
Evaluated by:	Eddie M. Guerra	Date:	Date:10/10/2012			
	Brian A. Lucarelli	Date:	10/10/2	012		





Seismic Walkdown Checklist (SWC)

Equipment ID No. 2RHS-MOV702A

Equip. Class 8a. Motor Operated Valve

Equipment Description

RC To RHR ISO



File Name: 2-64-2-2-19.jpeg Description: General View of Component and Attached Lines



File Name: 2-62-2-19.jpeg Description: View of Insulated Main Line



Seismic Walkdown Checklist (SWC)

Equipment ID No. 2RHS-MOV702A

Equip. Class 8a. Motor Operated Valve

Equipment Description

RC To RHR ISO

File Name: 2-63-2-2-19.jpeg Description: View of Attached Lines

Paul C. Rizzo Associates, Inc.				SI	neet 276 of 513
Seismic Walkdown Checklist (SWC)		Status:	\heartsuit	N	U
Equipment ID No. <u>2RHS-MOV720A</u> Equip	. Class 8a. Motor Operate	ed Valve			
Equipment Description RHR To RCS Loop 22 C.L.	ISO				
Location: Bldg. <u>RCBX</u> Floor El. <u>718</u>	Room	<u>RCBX 718-I</u>	B RCP P	'ump	
Manufacturer, Model, Etc.					

Instructions for Completing Checklist

This checklist may be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

Anchorage

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? *Tall MOV (~4') mounted on ~24" insulated line.*



Is the anchorage free of corrosion that is more than mild surface oxidation?
 Valve found in good condition.

- 4. Is the anchorage free of visible cracks in the concrete near the anchors?
- 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.)
- 6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?



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Paul ENCIP	I <mark>I C. Rizzo Associates, Inc.</mark> NEERS & CONSULTANTS				S	heet 277 of 513
Seismic Walkdo	wn Checklist (SWC)		Status:	(N	U
Equipment ID No	o. <u>2RHS-MOV720A</u> Equip. Class 8a. Moto	or Operated	d Valve			
Equipment Desci	ription RHR To RCS Loop 22 C.L. ISO					
Interaction Effe	cts				•	27/4
7. Are soft targets free from impact by nearby equipment or structures?			Y X	<u>N</u>	U	N/A
8. Are overhead	equipment distribution systems, ceiling tiles and lighting		Y	N	U	N/A
and masonry bl	lock walls not likely to collapse onto the equipment?				I	
9. Do attached lin	nes have adequate flexibility to avoid damage?		Y X	N	U	N/A
10. Based on the	above seismic interaction evaluations, is equipment free		Y X	N	U	
of potentially	adverse seismic interaction effects?				I	
Other Adverse (11. Have you loo adversely affe	Conditions ked for and found no other seismic conditions that could ct the safety functions of the equipment?		Y X	N	U	
Comments (Add	itional pages may be added as necessary)		,			
	= this M. Jum L					
Evaluated by:	Eddie M. Guerra	_Date:	10/10/2	012		
	Entfull.					
	Brian A. Lucarelli	_Date:	10/10/2	012		

Seismic Walkdown Checklist (SWC)

Paul C. Rizzo Associates, Inc.

Equipment ID No. 2RHS-MOV720A

Equip. Class 8a. Motor Operated Valve

Equipment Description

RHR To RCS Loop 22 C.L. ISO



File Name: 2-61-5-2-19.jpeg Description: General View of Component



File Name: 2-62-5-2-19.jpeg Description: View of Attached Lines

Paul C. Rizzo Associates, Inc. ENCINEERS & CONSULTANTS				Sheet 279 of 513
Seismic Walkdown Checklist (SWC)	Status:	\heartsuit	N	U
Equipment ID No. 2RHS-P21A Equip. Class 6. Vertical Pumps				
Equipment Description RHR Pump A				<u> </u>
Location: Bldg. <u>RCBX</u> Floor El. <u>707</u> Room	<u>RCBX 70</u> 7			
Manufacturer, Model, Etc.				
Instructions for Completing Checklist This checklist may be used to document the results of the Seismic Walkdown of an ite SWEL. The space below each of the following questions may be used to record the res findings. Additional space is provided at the end of this checklist for documenting othe	m of equipmer sults of judgme er comments.	nt on the ents and		
Anchorage	Y	N		
 Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Vertical pump connected to surrounding wide flange members by 3-2" diam bolts. 				
2 Is the enclose of the set of th	Y	<u>N</u>	U	N/A
2. Is the anchorage free of bent, broken, missing or loose nardware?				
2 In the explored for a foregoing that is a set of the	Y	N	U	N/A
oxidation?				
	Y	N	U	N/A
4. Is the anchorage free of visible cracks in the concrete near the anchors?	X			
	Y	<u>N</u>	U	<u>N/A</u>
 5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) Drawing No. 10880-RV-0052A confirms anchorage configuration as 3-2" diameter anchors to surrounding wide flanges. 				_ _ J
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	Y X	<u>N</u>	U	

DCS	Paul C	. Rizzo	Associates,	Inc.
_	ENGINEER	5 & CONSUL	TANTS	

Seismic Walkdown	Checklist (SWC)	Status:	\heartsuit	N	U
Equipment ID No.	2RHS-P21A Equip. Class 6. Vertical Pumps				
Equipment Descriptio	on RHR Pump A				
Interaction Effects		X		11	N T/A
7. Are soft targets fre	ee from impact by nearby equipment or structures?	X	IN	0	N/A
	_	Y	N	U	N/A
8. Are overhead equip and masonry block	ipment, distribution systems, ceiling tiles and lighting, walls not likely to collapse onto the equipment?	X			
9. Do attached lines h	have adequate flexibility to avoid damage?	- Y X	N	U	N/A
Attached lines identif	fied with adequate flexibility.				
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?			N	U	
Other Adverse Cond 11. Have you looked adversely affect th	ditions for and found no other seismic conditions that could he safety functions of the equipment?	Y X	N	U	
Comments (Addition	nal pages may be added as necessary)				
	= this M June L				
Evaluated by: Eddie M. Guerra Date:		10/10/2	2012		
	- ou				

Brian A. Lucarelli

Date:

10/10/2012



Seismic Walkdown Checklist (SWC)

Equipment ID No. 2RHS-P21A

Equip. Class 6. Vertical Pumps

Equipment Description

RHR Pump A



File Name: 2-62-2-2-18.jpeg Description: General View of Component and Attached Lines



File Name: 2-64-2-2-18.jpeg Description: View of Typical Anchorage

Paul C. Rizzo Associates, Inc. ENGINEERS & CONSULTANTS				She	Sheet 282 of 513		
Seismic Walkdown Checklist (SWC)		Status:	${}^{(\!\!\!\!N)}$	N	U		
Equipment ID No. <u>2RHS-RV721A</u> Equip	o. Class 0. Other						
Equipment Description RHS Trian A Supply Relie	f						
Location: Bldg. <u>RCBX</u> Floor El. <u>692</u>	Room	<u>RCBX 707</u>					
Manufacturer, Model, Etc.							

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

oxidation?

1. Is the anchorage configuration verification required (i.e., is the item one	
of the 50% of SWEL items requiring such verification)?	
Small valve mounted on insulated pipe connected to 2RHS-P21A Pump.	

2. Is the anchorage free of bent, broken, missing or loose hardware?

3. Is the anchorage free of corrosion that is more than mild surface











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 $\frac{Y}{X}$

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.)

4. Is the anchorage free of visible cracks in the concrete near the anchors?

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?



Seismic Walkdov	vn Checklist (SWC)		Status:	(Ν	U
Equipment ID No.	. <u>2RHS-RV721A</u> Equip. Class 0. Other					
Equipment Descri	ption RHS Trian A Supply Relief					
Interaction Effec	ts		V	N	TI	
7. Are soft targets	free from impact by nearby equipment or structures?		X	<u>IN</u>		N/A
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?				<u>N</u>	U	N/A
9. Do attached lines have adequate flexibility to avoid damage?				N	U	N/A
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?			Y X	N	U	
Other Adverse C 11. Have you look	onditions red for and found no other seismic conditions that could		Y	N	- 	
adversely affect Comments (Addit	tional pages may be added as necessary)				-	
	- this M. Juni De					
Evaluated by:	Eddie M. Guerra	_Date:	10/10/2	2012	-	
	Emt full.					
	Brian A. Lucarelli	_Date:	10/10/2	2012	-	



Seismic Walkdown Checklist (SWC)

Equipment ID No. 2RHS-RV721A

Equip. Class 0. Other

Equipment Description

RHS Trian A Supply Relief



File Name: 2-61-1-2-17.jpeg Description: Component Tag ID



File Name: 2-62-1-2-17.jpeg Description: General View of Component

Paul C. Rizzo Ass	sociates, Inc.					Sh	leet 285 of 5	13
Seismic Walkdown Checklist	(SWC)			Status:	\odot	Ν	U	
Equipment ID No. 2RSS-T11	50A	Equip. Class 19	9. Temperature Sen	sors				
Equipment Description	Containment Sump	Temperature Indi	cator					
Location: Bldg. <u>CNTB</u>	Floor El.	735	Room	Control Roc	m			
Manufacturer, Model, Etc.								

Instructions for Completing Checklist

This checklist may be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

Anchorage

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?

Instrument mounted on the face of control room back panel with 2-1/8" diameter bolts in compression. The panel is welded to embedded steel with an average of 6" of 5/16" welds at 12" o.c. front and back.

- 2. Is the anchorage free of bent, broken, missing or loose hardware?

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Y

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- 3. Is the anchorage free of corrosion that is more than mild surface oxidation?
- 4. Is the anchorage free of visible cracks in the concrete near the anchors?
- 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.)
- 6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?



DCS	Paul C. Rizzo Associates,	Inc.		
	ENGINEERS & CONSULTANTS			

Gelencie Wellederer Charlet (CW/C)	Status:	\heartsuit	Ν	U
Seismic Walkdown Checklist (SWC)				
Equipment ID No. <u>2RSS-T1150A</u> Equip. Class 19. Temperature Sensor	5			
Equipment Description Containment Sump Temperature Indicator				. <u></u>
Interaction Effects				
7 Are soft torgets free from immediate an entry equipment or structures?	Y	N	U	N/A
Control room ceiling main runners are supported from concrete ceiling by wires at ~4' spacing. Each ceiling tile (i.e., egg grating) is tied to the main runners at each of its four corners and judged not to be a potential falling hazard. Potential ceiling interaction with back panels judged not to be a concern as there are no sensitive relays in these panels and the interaction is judged to be unlikely.	Δ		I	
	Y	N	U	N/A
8. Are overhead equipment, distribution systems, ceiling tiles and lighting,				
and masonry block wans not fikely to conapse onto the equipment?				
9. Do attached lines have adequate flexibility to avoid damage?	Y X	<u>N</u>	U	N/A
Attached lines have adequate flexibility.				
	Y	Ν	U	
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 other seismic conditions that could		N	U	
adversely affect the safety functions of the equipment?				
Comments (Additional pages may be added as necessary)				
= the Minafle				
Evaluated by: Eddie M. Guerra Date:	10/10/2	2012		
Entfull.				
Brian A. Lucarelli Date:	10/10/2	2012		



Seismic Walkdown Checklist (SWC)

Equipment ID No. 2RSS-TI150A

Equip. Class 19. Temperature Sensors

Equipment Description

Containment Sump Temperature Indicator



File Name: 2RSS-TI150A(1).jpg Description: View of Component



File Name: 2RSS-TI150A(2).jpg Description: General View of Component Area


Seismic Walkdown Checklist (SWC)

Equipment ID No. 2RSS-TI150A

Equip. Class 19. Temperature Sensors

Equipment Description

Containment Sump Temperature Indicator



File Name: 2RSS-TI150A(3).jpg Description: View of Attached Lines



File Name: 2RSS-TI150A(4).jpg Description: View of Component Anchorage



Seismic Walkdown Checklist (SWC)

Equipment ID No. 2RSS-TI150A

Equip. Class 19. Temperature Sensors

Equipment Description

Containment Sump Temperature Indicator



File Name: 2RSS-TI150A(5).jpg Description: General View of Inside Cabinet

Paul C. Rizzo Associates, Inc.					Sh	eet 290 of 513
Seismic Walkdown Checklist (SWC)			Status:	\heartsuit	N	U
Equipment ID No. 2SIS-1	Equip. Class 0. Other					
Equipment Description LHSI Pump (SIS-P2	lA) Inlet		·····			
Location: Bldg. SFGB Floor El.	718	Room	SFGD 718			
Manufacturer, Model, Etc.		-				

Instructions for Completing Checklist

This checklist may be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

Anchorage

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?

Light but tall manually operated valve with substantial yoke on ~14" diameter main line. Main line is well supported near valve.

- 2. Is the anchorage free of bent, broken, missing or loose hardware?
- 3. Is the anchorage free of corrosion that is more than mild surface oxidation?
- 4. Is the anchorage free of visible cracks in the concrete near the anchors?
- 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.)
- 6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?



Y

			X
Y	N	U	N/A
			Х

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N/A

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Seismic Walkdown Checklist (SWC)		Status:	Ŷ	N	U
Equipment ID No. 2SIS-1 Equip. Class 0. Other				N	
Equipment Description LHSI Pump (SIS-P21A) Inlet		· · ·			
Interaction Effects		X	NT	- 	NT/A
7. Are soft targets free from impact by nearby equipment or structures?		Y X	IN		
		L		I	
		Y	N	U	N/A
8. Are overhead equipment, distribution systems, ceiling tiles and lighting,		X			
		Y	N	U	N/A
9. Do attached lines have adequate flexibility to avoid damage?		X			
		Y	N	U	
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?		X			
Other Adverse Conditions 11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment?		Y X	N	U	
Comments (Additional pages may be added as pecessary)		• • •			
comments (Additional pages may be added as necessary)					
- this M. Jun fl					
Evaluated by: Eddie M. Guerra	_Date:	10/10/2	012		
Entfull.		2			

Brian A. Lucarelli

_Date:

10/10/2012



Seismic Walkdown Checklist (SWC)

Equipment ID No. 2SIS-1

Equip. Class 0. Other

Equipment Description

LHSI Pump (SIS-P21A) Inlet

Other supporting or relevant documents and photos (if any):



File Name: 2-61-9-2-23.jpeg Description: Component Plate ID



File Name: 2-62-9-2-23.jpeg Description: General View of Component



Seismic Walkdown Checklist (SWC)

Equipment ID No. 2SIS-1

Equip. Class 0. Other

Equipment Description

LHSI Pump (SIS-P21A) Inlet



File Name: 2-63-9-2-23.jpeg Description: General View of Main Line and Component

Paul C. Rizzo Associates, Inc. ENGINEERS & CONSULTANTS			SI	1eet 294 of 513	•
Seismic Walkdown Checklist (SWC)	Status:	\heartsuit	N	U	
Equipment ID No. 2SIS-67 Equip. Class 0D. Other-Check Val	ve or Manua	al Valve			
Equipment Description HHSI Pump Throttle To Loop 21C Cold Leg					
Location: Bldg. <u>RCBX</u> Floor El. <u>718</u> Room <u>I</u>	<u>RCBX 71</u> 8	Annulus	Col 4		
Manufacturer, Model, Etc.					

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 the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?
Small valve mounted on 3" diam line. Line support identified at ~4' from valve.
Support consists of HSS4x4 post ~5ft tall. Y N X

Y

\mathbf{a}	Τ	41		C C1 .	1 1				
Ζ.	IS	tne.	anchorage	free of hent	hroken	missing	or la	nnsel	hardware?
			anonago	nee or oone	, oronom,	moonig	OI IN		

- 3. Is the anchorage free of corrosion that is more than mild surface oxidation?
- 4. Is the anchorage free of visible cracks in the concrete near the anchors?
- 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.)
- 6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?



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Paul C. Rizzo Associates, Inc. ENGINEERS & CONSULTANTS			S	heet 295 of
Seismic Walkdown Checklist (SWC)	Status:	\odot	N	U
Equipment ID No. 2SIS-67 Equip. Class 0D. Other-Check	Valve or Man	ual Valve		
Equipment Description HHSI Pump Throttle To Loop 21C Cold Leg				
Interaction Effects				
7. Are soft targets free from impact by nearby equipment or structures?	Y X	N	U	N/A
Temporary equipment in area judged not to be a credible interaction concern.				
8. Are overhead equipment, distribution systems, ceiling tiles and lighting,	Y	N	U	N/A
and masonry block walls not likely to collapse onto the equipment?	<u></u>		.	
	Y	N	U	N/A
9. Do attached lines have adequate flexibility to avoid damage?	X			
	Y	N	U	
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	X			
Other Adverse Conditions 11. Have you looked for and found no other seismic conditions that could	Y		U	
adversely affect the safety functions of the equipment?	X			
Comments (Additional pages may be added as necessary)				
- Attis M Show fl				,
Evaluated by: Eddie M. Guerra Date:	10/10/2	2012		
Ent full.				

Brian A. Lucarelli

Date:

10/10/2012

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Seismic Walkdown Checklist (SWC)

Equipment ID No. 2SIS-67

Equip. Class 0D. Other-Check Valve or Manual Valve

Equipment Description

HHSI Pump Throttle To Loop 21C Cold Leg

Other supporting or relevant documents and photos (if any):



File Name: 2-61-4-2-19.jpeg Description: Component Tag ID



File Name: 2-62-4-2-19.jpeg Description: General View of Component

Paul C. Rizzo Associates, Inc. ENGINEERS & CONSULTANTS			Sł	neet 297 of 513
Seismic Walkdown Checklist (SWC)	Status:	8	N	U
Equipment ID No. 2SIS-67	Equip. Class 0D. Other-Check Valve or Manu	al Valve		
Equipment Description HHSI Pump Throttle	e To Loop 21C Cold Leg			



File Name: 2-63-4-2-19.jpeg Description: General View of Component Area

Paul C. Rizzo A	ssociates, Inc.					5	Sheet 298 of 513
Seismic Walkdown Checklis	st (SWC)			Status:	Ŷ	N	U
Equipment ID No. 2SIS-M	OV863A	Equip. Class 8/	A. Motor Operate	d Valve			
Equipment Description	LHSI MOV ISO Ta	HHSI —		<u>-</u>			
Logation: Pldg SECD	Eleca El	710	 D	SECD 719			-
Manufacturer, Model, Etc.	Floor El.	/18	Koom	SFGD /18	west		
Instructions for Completing This checklist may be used to SWEL. The space below each findings. Additional space is p	Checklist document the results of the following quest provided at the end of	of the Seismic Wa stions may be used this checklist for	alkdown of an ite d to record the re documenting oth	em of equipme sults of judgm er comments.	ent on the ents and		
Anchorage				V	N		
1. Is the anchorage configuration of the 50% of SWEL items <i>MOV mounted on ~8" diameter</i>	ion verification requin requiring such verific er line.	red (i.e., is the iter cation)?	n one	Ŷ	X		
2. Is the anchorage free of bent, broken, missing or loose hardware?			Y	N	U	N/A X	
3. Is the anchorage free of corrosion that is more than mild surface oxidation?			Y	N	U	N/A X	
4. Is the anchorage free of visible cracks in the concrete near the anchors?		ors?	Y	N	U	N/A X	
5. Is the anchorage configuration	ion consistent with n l	ant documentation	9	Y	N	U	N/A
(Note: This question only a which an anchorage config	pplies if the item is or guration verification i	f the item is one of the 50% for n verification is required.)		LL.			
6 Based on the above anchora	age evaluations is the	anchorage free of		Y	N	<u>U</u>	1
potentially adverse seismic	conditions?	anchorage free of					J



Seismic Walkdo	wn Chocklist (SWC)			Status:	\heartsuit	N	U
Equipment ID No	o. <u>2SIS-MOV863A</u>	Equip. Class 8A. Mo	otor Operated	d Valve			
Equipment Desci	ription LHSI MOV I	SO To HHSI		······			
Interaction Effe	cts					-	
-				Y	N	U	N/A
7. Are soft target	s free from impact by nearby	equipment or structures?		X			
				Y	N	U	N/A
8. Are overhead and masonry bl	equipment, distribution syste lock walls not likely to collap	ms, ceiling tiles and lighting, ose onto the equipment?		X			
9 Do attached lit	100 have adequate flowibility	to avaid domage?		Y	N	U	N/A
Attached conduit what is typically available slack is	is flexible. One of the flexible observed in the area. However adequate.	le conduit has little slack convertient of the	npared to int of				
				Y	N	U	
of potentially	above seismic interaction ev adverse seismic interaction e	aluations, is equipment free ffects?		X		<u> </u>	
Other Adverse (Conditions					-	
11. Have you loo adversely affe	ked for and found no other s ct the safety functions of the	eismic conditions that could equipment?		Y X	N	U	
Commonte (Add						-	
Comments (Add	itional pages may be added a	is necessary)					
	- this Me fine	£					
Evaluated by:	Eddie M. Guerra		Date:	10/10/2	2012	-	
	Enth	<u>//</u> .					
	Brian A. Lucarelli		Date:	10/10/2	2012	_	



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Seismic Walkdown Checklist (SWC)

Equipment ID No. 2SIS-MOV863A

Equip. Class 8A. Motor Operated Valve

Equipment Description

Other supporting or relevant documents and photos (if any):



LHSI MOV ISO To HHSI

File Name: 2-61-7-2-23.jpeg Description: Component Plate ID



File Name: 2-62-7-2-23.jpeg Description: General View of Component



Seismic Walkdown Checklist (SWC)

Equipment ID No. 2SIS-MOV863A

Equip. Class 8A. Motor Operated Valve

Equipment Description

LHSI MOV ISO To HHSI



File Name: 2-63-7-2-23.jpeg Description: View of Main Line



File Name: 2-64-7-2-23.jpeg Description: View of Attached Lines