Paul C. Rizzo Associates, Inc. ENGINEERS & CONSULTANTS			She	eet 201 of 439
Seismic Walkdown Checklist (SWC)	Status:	\heartsuit	Ν	U
Equipment ID No. <u>MCC-1-E7</u> Equip. Class 1. Motor Control Center				
Equipment Description 480V Motor Control Center FED From 480V Substation	1-8Bus 1N	(8N14)		
Location: Bldg. DGBX Floor El. 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 result findings. Additional space is provided at the end of this checklist for documenting other other space.	of equipments of judgments.	nt on the ents and		
Anchorage	V	N		
1. Is the anchorage configuration verification required (i.e., is the item one $\begin{bmatrix} 1 & 1 \\ 1 & 2 \end{bmatrix}$	X			
MCC composed of 3 sections. Component is close to wall but it is top braced by top entry conduit as well as separate top bracing mechanism.				
	Y	N	U	N/A
2. Is the anchorage free of bent, broken, missing or loose hardware?	<u> </u>			
r	Y	N	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	N	U	N/A
5. Is the anchorage configuration consistent with plant documentation?	X			
which an anchorage configuration verification is required.) Base weld detail in MCC-1-E7 verified per Calculation 52233-C-001 Anchorage Calc				
	Y	N	U	
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	X			

Paul ENGINE	C. Rizzo Associates, Inc.				She	et 202 of 439
Seismic Walkdow	n Checklist (SWC)		Status:	(Y)	Ν	U
Equipment ID No.	MCC-1-E7 Equip. Class 1. Motor Control Cen	ter				
Equipment Descrip	480V Motor Control Center FED From 480V	/ Substatio	n 1-8Bus 1N	(8N14)		
Interaction Effect	ts					
7. Are soft targets	free from impact by nearby equipment or structures?		Y	<u>N</u>	<u> </u>	N/A
The solt targets nee from impact by hearby equipment of structures.				I	I	
			Y	N	U	N/A
8. Are overhead ec	uipment, distribution systems, ceiling tiles and lighting,		X			
and masonry blo	ck walls not likely to collapse onto the equipment?					
			v	N	TT .	N/A
9. Do attached line	s have adequate flexibility to avoid damage?					1 1 / 2 X
			Y	N	U	
10. Based on the a of potentially a	bove seismic interaction evaluations, is equipment free dverse seismic interaction effects?		X			
F, m	· · · · · · · · · · · · · · · · · · ·					
Other Adverse C	onditions		V		TT	
adversely affec	ed for and found no other seismic conditions that could t the safety functions of the equipment?		$\begin{array}{c c} Y \\ \hline X \end{array}$		0	
Comments (Addit	ional pages may be added as necessary)					
	Hoter Mehme Li					
Evaluated by:	Eddie M. Guerra	_Date:	10/1/2	012		
	Stary B Aline					

Date:





Status: 🕅 N U

Seismic Walkdown Checklist (SWC)

Equipment ID No. MCC-1-E7 Equip. Class 1. Motor Control Center

Equipment Description

480V Motor Control Center FED From 480V Substation 1-8Bus 1N(8N14)



File Name: 2-61-7-1-20.jpeg Description: Component Plate ID



File Name: 2-62-7-1-20.jpeg Description: General view of component



Equipment Description

480V Motor Control Center FED From 480V Substation 1-8Bus 1N(8N14)



File Name: 2-63-7-1-20.jpeg Description: View of top entry conduits



File Name: 2-64-7-1-20.jpeg Description: View of wall mounted lateral support

Paul C. Rizzo Associates, Inc.			She	eet 205 of 439
Seismic Walkdown Checklist (SWC)	Status:	\heartsuit	N	U
Equipment ID No. MCC-1-E8 Equip. Class 1. Motor Control Center				
Equipment Description 480V Motor Control Center Fed From 480V Substation	n 1-9 Bus 1P(9P7)		
Location: Bldg. DGBX Floor El. 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	n 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)? MCC composed of 4 sections. Each section welded, front and back, to embed with an average of 5" of 1/4" fillet welds. 				
2 Is the anchorage free of hent broken missing or loose hardware?	Y	<u>N</u> T	<u> </u>	N/A
2. is the anchorage free of bent, broken, missing of hoose nardware?		L		
2. To the enchances free of comparison that is more than wild surface	Y	<u>N</u>	U	N/A
oxidation?		I		L
	Y	<u>N</u>	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
 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.) Base weld detail in MCC-1-E8 verified per Calculation 52233-C-001 Anchorage Calculation 				<u>. </u>
	Y	N	U	1
o. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?				I

Pau Pau	I C. Rizzo Associates, Inc.				Sh	eet 206 of 439
Seismic Walkdo	wn Checklist (SWC)		Status:		N	U
Equipment ID No	b. <u>MCC-1-E8</u> Equip. Class 1. Motor Control Cent	er				
Equipment Descr	iption 480V Motor Control Center Fed From 480V	Substatio	n 1-9 Bus 1P(9P7)		
Interaction Effe	cts				-	
7. Are soft targets	s free from impact by nearby equipment or structures?		Y X	<u>N</u>	U	N/A
			V	N	ΤT	NI/A
8. Are overhead and masonry bl	equipment, distribution systems, ceiling tiles and lighting,		X	N		
9. Do attached lir	es have adequate flexibility to avoid damage?		Y X	<u>N</u>	U	N/A
Top entry condui MCC to wall.	t is rigidly braced to wall, so there is no potential for pound	ing of				
10 Based on the	above seismic interaction evaluations, is equipment free		Y	N	<u> </u>	
of potentially	adverse seismic interaction effects?				1	i
					_	
Other Adverse (11. Have you loo	Conditions ked for and found no other seismic conditions that could		Y	N	U	1
adversely affe	ct the safety functions of the equipment?				I	
Comments (Add	itional pages may be added as necessary)				-	
	atter Mahra Li					
Evaluated by:	Eddie M. Guerra	Date:	10/1/2	012	-	
	Sharaf De Alina					
	Adam L. Helffrich	Date:	10/1/2	012	-	





File Name: 2-61-1-1-22.jpeg Description: Component Plate ID



File Name: 2-62-1-1-22.jpeg Description: General view of component





File Name: 2-63-1-1-22.jpeg Description: View of top entry conduits



File Name: 2-64-1-1-22.jpeg Description: Close up view of embeddment detail

Paul C. Rizzo Associates, Inc. ENGINEERS & CONSULTANTS				She	et 209 of 439
Seismic Walkdown Checklist (SWC)		Status:	(N	U
Equipment ID No. MOV-1FW-151E Equip. Class	8 8A. Motor-Operated Valve				
Equipment Description 1A SG AFW Thrott	le Valve (B HDR) Feedwater Cont	rol Valve	·····		
Location: Bldg. SFGB Floor El.	735				
Manufacturer, Model, Etc.					
Instructions for Completing Checklist This checklist may be used to document the results of SWEL. The space below each of the following ques findings. Additional space is provided at the end of	of the Seismic Walkdown of an iter tions may be used to record the res this checklist for documenting othe	m of equipme ults of judgm er comments.	nt on the ents and		
Anchorage		Y	N		
1. Is the anchorage configuration verification require of the 50% of SWEL items requiring such verific Small MOV on ~3" diam line. Line is well supported good condition.	ed (i.e., is the item one ation)? d near valve. Valve identified in		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 that oxidation?	an mild surface	Y	<u>N</u>	U	N/A X
4. Is the anchorage free of visible cracks in the conc	rete near the anchors?	Y	<u>N</u>	U	N/A X
5. Is the anchorage configuration consistent with pla	ant documentation?	Y	<u>N</u>	U	N/A X
(Note: This question only applies if the item is on which an anchorage configuration verification is	the of the 50% for s required.)	<u> </u>			
6. Based on the above anchorage evaluations, is the	anchorage free of	Y X	N	U	ļ
potentially adverse seismic conditions?	-				-

Paul C ENGINEER	C. Rizzo Associates, Inc. RS& CONSULTANTS				She	eet 210 of 439
Seismic Walkdow	n Checklist (SWC)		Status:	\odot	Ν	U
Equipment ID No.	MOV-1FW-151E Equip. Class 8A. Motor-Operated V	alve				
Equipment Descrip	tion <u>1A SG AFW Throttle Valve (B HDR) Feedwa</u>	ater Contr	ol Valve			
Interaction Effects	S					
			<u>Y</u>	N	U	N/A
7. Are soft targets f	ree from impact by nearby equipment or structures?					
			V	N	U	N/A
8. Are overhead eq	uipment, distribution systems, ceiling tiles and lighting,					
and masonry bloc	k walls not likely to collapse onto the equipment?		L		<u></u>	
			<u>Y</u>	N	U	N/A
9. Do attached lines have adequate flexibility to avoid damage?			X			
T ica unacrica i nine	σ.		Y	N	U	
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?			X			
Other Adverse Co	nditions		v	N	U	
adversely affect	the safety functions of the equipment?					
				-		
Comments (Additi	onal pages may be added as necessary)				• .	
	- the Ministr					
Evaluated by:	Eddie M. Guerra	Date:	10/1/2	012		
	They be of Der					

Date:



Equipment ID No. MOV-1FW-151E Equip. Class 8A. Motor-Operated Valve

Equipment Description

1A SG AFW Throttle Valve (B HDR) Feedwater Control Valve



File Name: 2-61-6-1-50.jpeg Description: Component Plate ID



File Name: 2-62-6-1-50.jpeg Description: General view of component



Sheet 212 of 439

U

Equipment ID No. MOV-1FW-151E Equip. Class 8A. Motor-Operated Valve

Equipment Description 1A SG AFW Throttle Valve (B HDR) Feedwater Control Valve



File Name: 2-63-6-1-50.jpeg Description: View of flexible attached lines

Paul C. Rizzo Associates, Inc.			She	eet 213 of 439
Seismic Walkdown Checklist (SWC)	Status:	\heartsuit	N	U
Equipment ID No. MOV-1MS-105 Equip. Class 8A. Motor-Operated Valve				
Equipment Description AFW Turb Steam ISOL VLV, Common Steam Supply	1			
Location: Bldg. SFGB Floor El. 751				
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 sults of judgm er comments.	nt on the ents and		
Anchorage	Y	<u>N</u>		
 Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Small MOV, ~30" tall. 		X		
2. Is the anchorage free of bent, broken, missing or loose hardware?	Y	N	U	N/A X
	<u> </u>	<u>N</u>	U	N/A
3. Is the anchorage tree of corrosion that is more than mild surface oxidation? Valve identified in good condition.	L			<u> </u>
	Y	<u>N</u>	U	N/A
4. Is the anchorage free of visible cracks in the concrete near the anchors?				X

U

U

Ν

Ν

Y

Y

X

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?

Paul Paul	C. Rizzo Associates, Inc. RS & CONSULTANTS				Sh	eet 214 of 439
Seismic Walkdow	n Checklist (SWC)		Status:	\heartsuit	N	U
Equipment ID No.	MOV-1MS-105 Equip. Class 8A. Motor-Operated V	alve				
Equipment Descrip	AFW Turb Steam ISOL VLV, Common Steam	n Supply		· · · ·		
Interaction Effect	S	<u></u>			-	
7. Are soft targets	free from impact by nearby equipment or structures?		Y X	N	U	N/A
			V	NI	T	NI/ 4
8. Are overhead eq	uipment, distribution systems, ceiling tiles and lighting,		Y X	N		N/A
and masonry bloc	ck wans not likely to conapse onto the equipment?					
9 Do attached line	s have adequate flexibility to avoid damage?	1	Y X	N	U	N/A
				· · ·	.	
10. Based on the al	pove seismic interaction evaluations, is equipment free		Y X	N	U	
of potentially ac	lverse seismic interaction effects?					
					_	
Other Adverse Co 11. Have you looke	onditions ed for and found no other seismic conditions that could		<u>Y</u>	N	U	I
adversely affect	the safety functions of the equipment?		<u> </u>	<u> </u>	L	
Comments (Addit	ional pages may be added as necessary)				-	
	the Mehricht					
Evaluated by:	Eddie M. Guerra	Date:	10/1/2	012	_	
	Mary Deffere					

Date:



File Name: 2-61-1-1-32.jpeg Description: Component Plate ID



File Name: 2-62-1-1-32.jpeg Description: General view of component



Status: 🕅 N U

Seismic Walkdown Checklist (SWC)

Equipment ID No. MOV-1MS-105 Equip. Class 8A. Motor-Operated Valve

Equipment Description AFW Turb Steam ISOL VLV, Common Steam Supply



File Name: 2-63-1-1-32.jpeg Description: View of flexible attached lines

Paul C. Rizzo A ENGINEERS & CONSULTAN	ssociates, Inc.				She	et 217 of 4	439
Seismic Walkdown Checklis	t (SWC)		Status:	\heartsuit	N	U	
Equipment ID No. MOV-1	QS-101B Equip. Class	8A. Motor-Operated Valve					
Equipment Description	1B Quench Spray PP	Disch ISOL					
Location: Bldg. SFGB	Floor El.	735					
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)?

Valve itself is deep in a pit and inaccessible. Only valve operator at elevation 747 is verified. Operator is attached to shell support with 8-3/8" diameter machine bolts. The shell support is anchored to floor with 4-5/8" 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

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



	Y	N	U	N/A
				X
	Y	Ν	U	N/A
				Х
	Y	<u>N</u>	U	N/A
				X
	V	N	TI	N/A
1	1	1		X
l		L		



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?

Paul ENGINE	C. Rizzo Associates, Inc. ERS & CONSULTANTS			Sh	eet 218 of 439
Seismic Walkdow	vn Checklist (SWC)	Status:	\heartsuit	Ν	U
Equipment ID No.	MOV-1QS-101B Equip. Class 8A. Motor-Operated Va	alve			
Equipment Descri	ption 1B Quench Spray PP Disch ISOL				
Interaction Effec	ts			-	
		Y V	N		N/A
7. Are soft targets	7. Are soft targets free from impact by nearby equipment or structures?				
		Y	N	U	N/A
8. Are overhead ed	quipment, distribution systems, ceiling tiles and lighting,	X			
and masonry block walls not likely to collapse onto the equipment?					
		V	N	U	N/A
9. Do attached line	es have adequate flexibility to avoid damage?	X			
Attached lines identified 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			ļ
				_	
Other Adverse C	onditions ed for and found no other seismic conditions that could	V	N	U	
adversely affec	t the safety functions of the equipment?	X			
Comments (Addin	tional pages may be added as necessary)	<u> </u>		_	
	The Mehren i				
Evaluated by:	Eddie M. Guerra	Date: <u>10/1/2</u>	2012	-	
	Mary Delling				

Date:



Status: 🕅 N U

Equipment ID No. MOV-1QS-101B Equip. Class 8A. Motor-Operated Valve

Equipment Description

1B Quench Spray PP Disch ISOL



File Name: 2-61-1-1-39.jpeg Description: Component Plate ID



File Name: 2-62-1-1-39.jpeg Description: General view of component

Seismic Walkdown Checklist (SWC) Status: ② N U Equipment ID No. MOV-1RW-102A2 Equip. Class 8A. Motor-Operated Valve Equipment Description 1A RP RW Pump Discharge Valve to A-HDR Location: Bldg. INTS Floor EL 705 Manufacturer, Model, Etc.	Paul C. Rizzo	Associates, Inc.				Sheet	220 of 439
Equipment ID No. MOV-1RW-102A2 Equip. Class 8A. Motor-Operated Valve Equipment Description 1A RP RW Pump Discharge Valve to A-HDR	Seismic Walkdown Checkl	ist (SWC)		Status:	\heartsuit	N	U
Equipment Description IA RP RW Pump Discharge Valve to A-HDR Location: Bldg. INTS Floor El. 705 Manufacturer, Model, Etc.	Equipment ID No. MOV-	1RW-102A2 Equip. Class	8A. Motor-Operated Valve	e			
Location: Bldg. INTS Floor EI. 705 Manufacturer, Model, Etc.	Equipment Description	1A RP RW Pump Disch	arge Valve to A-HDR				
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 Y N 1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y N Valve is mounted on 14" pipe line. Main line is directly supported below valve location with steel base plate anchored by 8-1/2" anchors. 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? Y N 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 guestion only applies if the item is one of the 50% for Y N U N/A	Location: Bldg. <u>INTS</u>	Floor El.	705				
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. This 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 is mounted on 14" pipe line. Main line is directly supported below valve location with steel base plate anchored by 8-1/2" anchors. 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? Y N 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 Y N U N/A	Manufacturer, Model, Etc.						
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)? Y N Valve is mounted on 14" pipe line. Main line is directly supported below valve location with steel base plate anchored by 8-1/2" anchors. 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? Y N 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 Y N U N/A	Instructions for Completin This checklist may be used to SWEL. The space below each findings. Additional space is	g Checklist o document the results of th ch of the following question provided at the end of this	ne Seismic Walkdown of an i s may be used to record the checklist for documenting or	tem of equipment results of judgmen ther comments.	on the ts and		
1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? X Valve is mounted on 14" pipe line. Main line is directly supported below valve location with steel base plate anchored by 8-1/2" anchors. 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? Y N 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? Y N U N/A	Anchorage			Y	N		
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? Y N 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 Y N U N/A	1. Is the anchorage configur of the 50% of SWEL item Valve is mounted on 14" pip with steel base plate anchor	ation verification required (as requiring such verification be line. Main line is directly ed by 8-1/2" anchors.	i.e., is the item one n)? <i>supported below valve locat</i>	tion	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 	2. Is the anchorage free of b	ent, broken, missing or loos	e hardware?	Y	<u>N</u>	U	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 				Y	N	U	N/A
 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 	3. Is the anchorage free of c oxidation?	orrosion that is more than m	ild surface				X
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 v	isible cracks in the concrete	e near the anchors?	Y	N	U	N/A X
(Note: This question only applies if the item is one of the 50% for	c t de color	at a second according to the standard		Y	N	U	N/A
which an anchorage configuration verification is required.)	(Note: This question only which an anchorage con	applies if the item is one of figuration verification is rec	f the 50% for quired.)	L1	. <u></u> 0—	<u> </u>	A
6. Based on the above anchorage evaluations, is the anchorage free of X	6. Based on the above ancho	prage evaluations, is the and	horage free of	Y X	N	U	I
potentially adverse seismic conditions?	potentially adverse seism	ic conditions?		<u> </u>		· · · · · · · · · ·	

Paul ENGINE	C. Rizzo Associates, Inc.				Sheet	221 of 439
Seismic Walkdov	vn Checklist (SWC)		Status:	\heartsuit	N	U
Equipment ID No	. <u>MOV-1RW-102A2</u> Equip. Class 8A. Motor-Operated V	alve		,		
Equipment Descri	iption 1A RP RW Pump Discharge Valve to A-HDR					
Interaction Effec	ets					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 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 equipment?					
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 indverse seismic interaction effects?		Y X	N	U	
Other Adverse C 11. Have you look adversely affect	Conditions and found no other seismic conditions that could at the safety functions of the equipment?		Y X	N	U	
Comments (Addi	tional pages may be added as necessary)	· · · · · · · · · · · · · · · · · · ·				
	teles Mehrie It					
Evaluated by:	Eddie M. Guerra	Date:	10/1/2	012		
	Charge De Alican					

_Date: _



Status: 🕅 N U

Equipment ID No. MOV-1RW-102A2 Equip. Class 8A. Motor-Operated Valve

Equipment Description

1A RP RW Pump Discharge Valve to A-HDR



File Name: 2-61-2-1-27.jpeg Description: Component Plate ID



File Name: 2-62-2-1-27.jpeg Description: General view of component



1A RP RW Pump Discharge Valve to A-HDR **Equipment Description**



File Name: 2-63-2-1-27.jpeg Description: View of valve location on main line

Paul C. Rizzo	Associates, Inc.				She	et 224 of 4	.39
Seismic Walkdown Check	list (SWC)		Status:	(Y)	Ν	U	
Equipment ID No. MOV	<u>1RW-103A Equip. Clas</u>	ss 8A. Motor-Operated Va	lve				
Equipment Description	1A HDR RP RW to	Recirc Spray HXS ISOL V	alve				
Location: Bldg. <u>AXLE</u>	Floor El.	722					
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 MOV on ~24" diam line.

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

Y	N	U	N/A X
Y	N	U	N/A X
Y	N	U	N/A X

N

X

Y



	Y	N	U
Г	Х		

- Is the anchorage free of corrosion that is more than mild surface oxidation?
 Valve identified 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?

Paul Paul				She	eet 225 of 439	
Seismic Walkdow	n Checklist (SWC)		Status:	\heartsuit	N	U
Equipment ID No.	MOV-1RW-103A Equip. Class 8A. Motor-Operated V	alve				
Equipment Descrip	otion 1A HDR RP RW to Recirc Spray HXS ISOL	Valve				
Interaction Effect	s				-	
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 eq and masonry bloc	uipment, distribution systems, ceiling tiles and lighting, ck walls not likely to collapse onto the equipment?		X			
			Y	N	U	N/A
9. Do attached line <i>Attached lines iden</i>	s have adequate flexibility to avoid damage? <i>httfied with adequate flexibility</i> .		X			
10 Deced on the el		Г	Y	N	U	l
of potentially ac	averse seismic interaction evaluations, is equipment free	L	<u> </u>			
					-	
Other Adverse Co 11. Have you looke	onditions ed for and found no other seismic conditions that could t the safety functions of the acquiment?	Г	Y	N	U	
		L	<u> </u>			
Comments (Addit	ional pages may be added as necessary)				-	
	the Mahma I'					
Evaluated by:	Eddie M. Guerra	Date:	10/1/2	012	-	
	Bury Dellan					

Date:



Status: 🕅 N U

Equipment ID No. MOV-1RW-103A Equip. Class 8A. Motor-Operated Valve

Equipment Description

1A HDR RP RW to Recirc Spray HXS ISOL Valve



File Name: 2-61-3-1-43.jpeg Description: Component Plate ID



File Name: 2-62-3-1-43.jpeg Description: General view of component



Status: 🕅 N U

Equipment ID No. MOV-1RW-103A Equip. Class 8A. Motor-Operated Valve

Equipment Description 1A HDR RP RW to Recirc Spray HXS ISOL Valve



File Name: 2-63-3-1-43.jpeg Description: View of flexible attached lines

Paul C. Rizzo ENGINEERS & CONSUL	Associates, Inc.			Sh	eet 228	of 439
Seismic Walkdown Check	list (SWC)		Status:	\heartsuit	Ν	U
Equipment ID No. MOV-	<u>1R</u> W-103B Equip. Class	8A. Motor-Operated Valve				
Equipment Description	1A HdR PP RW to R	Recirc Spray HXS ISOL Valve				
Location: Bldg. <u>AXLE</u>	Floor El.	722				
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 MOV on ~24" diam line.

- 2. Is the anchorage free of bent, broken, missing or loose hardware?
- U N/A Y Х Ν U N/A

U

U

U

Х

N/A

Х

N/A

Х

Ν X

Ν

Ν

N

Y

Y

Y

Y

Y

X

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

Valve identified 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?

Paul ENCINE	C. Rizzo Associates, Inc. ERS & CONSULTANTS				Sh	eet 229 of 439
Seismic Walkdov	vn Checklist (SWC)		Status:	(N	U
Equipment ID No	MOV-1RW-103B Equip. Class 8A. Motor-Operated V	alve				
Equipment Descri	ption 1A HdR PP RW to Recirc Spray HXS ISOL V	alve				
Interaction Effec	ts				•	
7 Ann and townste	free form interval	Г	Y	N	U	N/A
/. Are son targets	free from impact by nearby equipment or structures?	L	<u> </u>			
		-	Y	N	U	N/A
8. Are overhead each and masonry blo	quipment, distribution systems, ceiling tiles and lighting, ock walls not likely to collapse onto the equipment?	L	X		<u>.</u>	
		_	Y	N	U	N/A
9. Do attached line Attached lines ide	es have adequate flexibility to avoid damage? ntified with adequate flexibility.	L	X			
			Y	N	U	
10. Based on the a of potentially a	bove seismic interaction evaluations, is equipment free dverse seismic interaction effects?		X			
Other Adverse C	onditions				- "	
11. Have you look	ed for and found no other seismic conditions that could	Г	Y V	N	U	l
auversery arree	a the safety functions of the equipment?	L				
Comments (Addi	tional pages may be added as necessary)					
	The Mehre I					
Evaluated by:	Eddie M. Guerra	Date:	10/1/2	012		
	Sheered & allower					

Date:



Status: 🕅 N U

Equipment ID No. MOV-1RW-103B Equip. Class 8A. Motor-Operated Valve

Equipment Description

1A HdR PP RW to Recirc Spray HXS ISOL Valve



File Name: 2-61-2-1-43.jpeg Description: Component Plate ID



File Name: 2-62-2-1-43.jpeg Description: General view of component



Equipment Description

1A HdR PP RW to Recirc Spray HXS ISOL Valve



File Name: 2-63-2-1-43.jpeg Description: View of flexible attached lines

Paul C. Rizzo Associates, Inc. ENGINEERS & CONSULTANTS			She	eet 232 of 439
Seismic Walkdown Checklist (SWC)	Status:	\odot	N	U
Equipment ID No. MOV-1RW-113B Equip. Class 8A. Motor-Operated Valve				
Equipment Description Diesel Gen HX (1EE-E-1A) Inlet 1A Supply HDR ISOI				
Location: Bldg. DGBX Floor El. 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 result findings. Additional space is provided at the end of this checklist for documenting other	of equipments.	nt on the ents and		
Anchorage	V	N		
1. Is the anchorage configuration verification required (i.e., is the item one	Y	X		
of the 50% of SWEL items requiring such verification)? Small MOV mounted on 6" diam pipe line. Pipe found to be well supported.				
2. Is the anchorage free of bent, broken, missing or loose hardware?	Y	<u>N</u>	U	N/A X
	Y	N	U	N/A
3. Is the anchorage free of corrosion that is more than mild surface oxidation?				Х
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.) 	<u> </u>			<u> </u>
	Y	N	<u> </u>	
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	<u>X</u>			

Paul ENGIN	C. Rizzo Associates, Inc. EERS & CONSULTANTS				She	eet 233 of 439
Seismic Walkdow	vn Checklist (SWC)		Status:	\heartsuit	Ν	U
Equipment ID No	MOV-1RW-113B Equip. Class 8A. Motor-Operated V	'alve				
Equipment Descr	iption Diesel Gen HX (1EE-E-1A) Inlet 1A Supply	HDR ISOL	<u>.</u>			
Interaction Effec	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 block	quipment, distribution systems, ceiling tiles and lighting, ock walls not likely to collapse onto the equipment?	[X			
			v	N	IJ	N/A
9. Do attached lin Attached lines ide	es have adequate flexibility to avoid damage? entified with adequate flexibility.	[X			
10 Decedentite		I	Y	N	U	l
of potentially a	adverse seismic interaction effects?	l	A			
Other Adverse (7					
11. Have you lool adversely affect	conditions ked for and found no other seismic conditions that could ct the safety functions of the equipment?	ſ	Y X	N	U	
		•				
Comments (Add	tional pages may be added as necessary)					
	the Mehna II					
Evaluated by:	Eddie M. Guerra	Date:	10/1/20	012		
	Steery & Marine					

Date:



Status: 🕅 N U

Equipment ID No. MOV-1RW-113B Equip. Class 8A. Motor-Operated Valve

Equipment Description

Diesel Gen HX (1EE-E-1A) Inlet 1A Supply HDR ISOL



File Name: 2-61-6-1-20.jpeg Description: Component Plate ID



File Name: 2-62-6-1-20.jpeg Description: General view of component





Status: 🕅 N U

Equipment ID No. MOV-1RW-113B Equip. Class 8A. Motor-Operated Valve

Equipment Description Diesel Gen HX (1EE-E-1A) Inlet 1A Supply HDR ISOL



File Name: 2-63-6-1-20.jpeg Description: View of flexible attached lines

Paul C. Rizzo Associates, Inc. ENGINEERS & CONSULTANTS				She	et 236 of 439
Seismic Walkdown Checklist (SWC)		Status:	(N	U
Equipment ID No. MOV-1RW-114B Equip. Class	8A. Motor-Operated Valve				
Equipment Description CCR HX ISOL					
Location: Bldg. <u>AXLB</u> Floor El.	722				
Manufacturer, Model, Etc.					
Instructions for Completing Checklist This checklist may be used to document the results of SWEL. The space below each of the following questi findings. Additional space is provided at the end of th	The Seismic Walkdown of an iten ons may be used to record the resu is checklist for documenting other	n of equipme ilts of judgme comments.	nt on the ents and		
Anchorage		Y	N		
 Is the anchorage configuration verification required of the 50% of SWEL items requiring such verificat Small MOV on ~24" diam line. 	l (i.e., is the item one ion)?		X		
2. Is the anchorage free of bent, broken, missing or lo	ose hardware?	Y	N	U	N/A X
		L	·· / ··		
3. Is the anchorage free of corrosion that is more than	mild surface	Y	N	U	N/A X
oxidation? Slight corrosion visible at packing. Tag No. 57468 id.	entifies the rust issue.				
4. Is the anchorage free of visible cracks in the concre	ete near the anchors?	Y	N	U	N/A X
5. Is the anchorage configuration consistent with plan	t documentation?	Y	N		N/A X
(Note: This question only applies if the item is one which an anchorage configuration verification is a	of the 50% for required.)	<u> </u>			
6. Based on the above anchorage evaluations, is the a potentially adverse seismic conditions?	nchorage free of	Y X	N	U	
Paul ENGINE	C. Rizzo Associates, Inc. ERS & CONSULTANTS			Sh	eet 237 of 439
--	--	----------	---------	----	----------------
Seismic Walkdow	vn Checklist (SWC)	Statu	s: 🕅	Ν	U
Equipment ID No	. <u>MOV-1RW-114B Equip. Class</u> 8A. Motor-Operated V	'alve			
Equipment Descri	ption CCR HX ISOL				-
Interaction Effec	ts		· · · ·	_	
7. Are soft targets	free from impact by nearby equipment or structures?	Y X	N	U	N/A
8. Are overhead e	quipment, distribution systems, ceiling tiles and lighting,	Y X	N	U	N/A
 9. Do attached lin 	es have adequate flexibility to avoid damage?	Y	N	U	N/A
Attached lines ide 10. Based on the a	ntified with adequate flexibility.	Y X	N	U]
of potentially a	dverse seismic interaction effects?				-
Other Adverse C 11. Have you look adversely affect	Conditions ted for and found no other seismic conditions that could to the safety functions of the equipment?	Y X	N	U]
Comments (Addi	tional pages may be added as necessary)			_	
	- Atte Mahna Ir				
Evaluated by:	Eddie M. Guerra	Date:10/	1/2012	_	
	Stary Dellara				

Date:





Status: 🕅 N U

Equipment ID No. MOV-1RW-114B Equip. Class 8A. Motor-Operated Valve

Equipment Description

CCR HX ISOL



File Name: 2-61-4-1-43.jpeg Description: Component Plate ID



File Name: 2-62-4-1-43.jpeg Description: General view of component





Status: 🕅 N U

Equipment ID No. MOV-1RW-114B Equip. Class 8A. Motor-Operated Valve

CCR HX ISOL

Equipment Description



File Name: 2-63-4-1-43.jpeg Description: View of flexible attached lines



File Name: 2-64-4-1-43.jpeg Description: View of deficiency tag identifying moderate corrosion stage

Paul C. Rizzo Associates, Inc. ENGINEERS & CONSULTANTS			Sh	eet 240 of 439
Seismic Walkdown Checklist (SWC)	Status:	\odot	N	U
Equipment ID No. MOV-1RW-117 Equip. Class 8A. Motor-Operated Valve				
Equipment Description <u>1B HDR RP RW SUP to CNMT Air Recirc CLRS/CI</u>	MPR			
Location: Bldg. <u>AXLB</u> Floor El. <u>722</u>				
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 re findings. Additional space is provided at the end of this checklist for documenting oth	em of equipme sults of judgm ter comments.	nt on the ents and		
Anchorage	V	N		
1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?	I	X		
Small MOV on ~8" diam line. Line is well supported near valve.				
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? Valve identified in good condition.				
4 Is the anchorage free of visible cracks in the concrete near the anchors?	Y	N	U	N/A X
	L			<u> </u>
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	I		·
6. Based on the above anchorage evaluations, is the anchorage free of notentially adverse seismic conditions?	Y X	N	U	

Paul ENGINE	C. Rizzo Associates, Inc. ERS & CONSULTANTS				She	eet 241 of 439
Seismic Walkdov	vn Checklist (SWC)		Status:	\heartsuit	N	U
Equipment ID No	. MOV-1RW-117 Equip. Class 8A. Motor-Operated	Valve				
Equipment Descri	ption <u>1B HDR RP RW SUP to CNMT Air Recirc</u>	CLRS/CM	PR			
Interaction Effec	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 blo	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	es have adequate flexibility to avoid damage?		X	-		
10 Based on the	above seismic interaction evaluations, is againment free		Y	<u>N</u>	U	
of potentially a	adverse seismic interaction effects?				I	
Other Adverse (anditions				-	
11. Have you look adversely affect	ted for and found no other seismic conditions that could of the safety functions of the equipment?		Y X	N	U	
Comments (Addi	tional pages may be added as necessary)				-	
	atter Mahrie It					
Evaluated by:	Eddie M. Guerra	_Date:	10/1/2	012	-	
	Share) & Marcu					

Date:



Status: 🕅 N U

Equipment ID No. MOV-1RW-117 Equip. Class 8A. Motor-Operated Valve

Equipment Description

1B HDR RP RW SUP to CNMT Air Recirc CLRS/CMPR



File Name: 2-61-1-1-43.jpeg Description: Component Plate ID



File Name: 2-62-1-1-43.jpeg Description: General view of component



Status: 🕅 N U

Seismic Walkdown Checklist (SWC)

Equipment ID No. MOV-1RW-117 Equip. Class 8A. Motor-Operated Valve

Equipment Description

1B HDR RP RW SUP to CNMT Air Recirc CLRS/CMPR



File Name: 2-63-1-1-43.jpeg Description: View of flexible attached lines

Paul C. Rizzo As ENGINEERS & CONSULTANT	sociates, Inc.				She	eet 244 of 43
Seismic Walkdown Checklist	t (SWC)		Status:	Ŷ	N	U
Equipment ID No. MOV-1S	I-860B Equip. Class	8A. Motor-Operated Valve				
Equipment Description	Sump Valve					
Location: Bldg. SFGB	Floor El.	747				
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 of the following question rovided at the end of th	The Seismic Walkdown of an iten ons may be used to record the results of the results of the results for documenting other the results of the	n of equipme ults of judgm r comments.	nt on the ents and		
Anchorage			v	N		
1. Is the anchorage configurati	on verification required	l (i.e., is the item one	I	X		
of the 50% of SWEL items i Valve is located deep in a pit a is verified. Operator is attache The shell support is anchored	requiring such verificat and is inaccessible. Onl ed to shell support with to floor with 4-5/8" dia	10n)? y valve operator at elevation 747 8-3/8" diameter machine bolts. meter anchor bolts.				
2. Is the anchorage free of ben	t, broken, missing or lo	ose hardware?	Y	N	U	N/A X
3. Is the anchorage free of corroxidation?	rosion that is more than	mild surface	Y	N	U	N/A X
4. Is the anchorage free of visi	ble cracks in the concre	ete near the anchors?	Y	N	U	N/A X
5. Is the anchorage configurati	on consistent with plan	t documentation?	Y	N	U	N/A X
(Note: This question only ar which an anchorage config	oplies if the item is one guration verification is r	of the 50% for equired.)				
			Y	N		
6. Based on the above anchora potentially adverse seismic	ge evaluations, is the an conditions?	nchorage free of				

Paul ENGINEE	C. Rizzo Associates, Inc.				She	et 245 of 439
Seismic Walkdow	n Checklist (SWC)		Status:	\odot	Ν	U
Equipment ID No.	MOV-1SI-860B Equip. Class 8A. Motor-Operated V	alve				
Equipment Descrip	otion Sump Valve					
Interaction Effect	'S				-	
7. Are soft targets	free from impact by nearby equipment or structures?	ſ	Y X	<u>N</u>	<u>U</u>	N/A
C C		L				
8 Are overhead ec	minment distribution systems, ceiling tiles and lighting	Г	Y x	N	U	N/A
and masonry blo	ck walls not likely to collapse onto the equipment?	L			<u> </u>	
		r	Y	N	U	N/A
9. Do attached line Attached lines ider	s have adequate flexibility to avoid damage? <i>tified with adequate flexibility</i> .	L	X			
			<u>Y</u>	N	U	
10. Based on the all of potentially ad	bove seismic interaction evaluations, is equipment free dverse seismic interaction effects?	l	X			
Other Adverse Co	onditions					
11. Have you looke adversely affect	ed for and found no other seismic conditions that could t the safety functions of the equipment?	[Y X	<u>N</u>	U	
Comments (Addit	ional pages may be added as necessary)					
	the White I					
Evaluated by:	Eddie M. Guerra	Date:	10/1/20	012		
	Charge Delline					

_Date:





File Name: 2-61-1-1-58.jpeg Description: Component Plate ID



File Name: 2-62-1-1-58.jpeg Description: General view of component





File Name: 2-63-1-1-58.jpeg Description: View of flexible attached lines

Paul C. Rizzo As ENGINEERS & CONSULTANT	ssociates, Inc.				Sh	eet 248 of 439
Seismic Walkdown Checklis	t (SWC)		Status:	\odot	N	U
Equipment ID No. MOV-1S	I-862A Equip. Class	8A. Motor-Operated Valve				
Equipment Description	1A LHSI RWST SUG	CT ISOL				-
Location: Bldg. SFGB	Floor El.	747				
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 of the following questi rovided at the end of th	f the Seismic Walkdown of an it ions may be used to record the re his checklist for documenting oth	em of equipme esults of judgm her comments.	nt on the ents and		
Anchorage			v	N		
1. Is the anchorage configurati	on verification require	d (i.e., is the item one		X		
Valve is located deep in a pit of is verified. Operator attached attached to shell support with anchored to floor with 4-5/8" of 2. Is the anchorage free of ben	nd is inaccessible. On to supports with 8-3/8' 8-3/8" diameter machi diameter anchor bolts. t, broken, missing or lo	ly valve operator at elevation 74 diam anchor bolts. Operator is ne bolts. The shell support is pose hardware?	47 Y	<u>N</u>	U	N/A X
3. Is the anchorage free of corroxidation?	rosion that is more than	n mild surface	Y	N	U	N/A X
4. Is the anchorage free of visi	ble cracks in the concr	ete near the anchors?	Y	N	U	N/A X
5. Is the anchorage configurati	on consistent with plar	nt documentation?	Y	N	U	N/A X
(Note: This question only ap which an anchorage config	pplies if the item is one puration verification is p	of the 50% for required.)	L <u></u>			<u></u>
 Based on the above anchora potentially adverse seismic 	ge evaluations, is the a conditions?	nchorage free of	Y X	N	U]
potentially adverse seismic	conditions?					

Paul C. Rizzo Associates, Inc. ENCINEERS & CONSULTANTS				Sh	eet 249 of 439
Seismic Walkdown Checklist (SWC)		Status:	\heartsuit	N	U
Equipment ID No. MOV-1SI-862A Equip. Class 8A. Motor-O	perated Valve				
Equipment Description 1A LHSI RWST SUCT ISOL					
Interaction Effects					
7. Are soft targets free from impact by nearby equipment or structure	es?	Y	N	U	N/A
		Y	N	U	N/A
8. Are overhead equipment, distribution systems, ceiling tiles and lig and masonry block walls not likely to collapse onto the equipment	ghting,	X			
		Y	N	U	N/A
9. Do attached lines have adequate flexibility to avoid damage? Attached lines identified with adequate flexibility		X			
· · · · · · · · · · · · · · · · · · ·		V	N	TT	
10. Based on the above seismic interaction evaluations, is equipmen	t free	X X	<u>IN</u>		
of potentially adverse seismic interaction effects?					
				•	
Other Adverse Conditions 11. Have you looked for and found no other seismic conditions that of	could	Y	N	U	
adversely affect the safety functions of the equipment?		X			
Comments (Additional pages may be added as necessary)					
attre Mahrie "					
Evaluated by: Eddie M. Guerra	Date:	10/1/20	012		
Story Deffere					

Date:



Status: 🕲 N U

Equipment ID No. MOV-1SI-862A Equip. Class 8A. Motor-Operated Valve

Equipment Description

1A LHSI RWST SUCT ISOL



File Name: 2-61-2-1-58.jpeg Description: Component Plate ID



File Name: 2-62-2-1-58.jpeg Description: General view of component



Status: 🕅 N U

Seismic Walkdown Checklist (SWC)

Equipment ID No. MOV-1SI-862A Equip. Class 8A. Motor-Operated Valve

Equipment Description

1A LHSI RWST SUCT ISOL



File Name: 2-63-2-1-58.jpeg Description: View of flexible attached lines

Paul C. Rizzo Associates, Inc. ENGINEERS & CONSULTANTS			Sh	eet 252 of 439
Seismic Walkdown Checklist (SWC)	Status:	\odot	N	U
Equipment ID No. <u>PI-1RW-1</u> 02A1 Equip. Class 18. Instrument (on) Racks				
Equipment Description CCR HX River Water Inlet Press gauge		· ····		
Location: Bldg. <u>AXLB</u> Floor El. <u>735</u>				
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 result findings. Additional space is provided at the end of this checklist for documenting other	of equipments.	nt on the ents and		
Anchorage	v	N		
1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWFL items requiring such verification)?		X		
Intrument on rack which is made of 2 $1/2"$ diam post anchored with 4- $1/2"$ diam anchor bolts. Post is around 5'-6" tall. Intrument is light weight (~1 lb) and is attached to $1/4"$ face plate with 3- $1/8"$ diam machine bolts.				
2 In the employees free of heart has here within an here here here here and	Y V	N	U	N/A
2. is the antiholage free of bent, broken, missing or loose hardware?	A			
3 Is the anchorage free of corrosion that is more than mild surface	Y X	<u>N</u>	<u>U</u>	N/A
oxidation?	Λ			J
	Y	N	U	N/A

Χ

Y

 $\frac{Y}{X}$

U

U

Ν

Ν

N/A

Х

- 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?

Pau ENGIN	I C. Rizzo Associates, Inc.			Sh	eet 253 of 439
Seismic Walkdov	wn Checklist (SWC)	Status:	\heartsuit	N	U
Equipment ID No	o. <u>PI-1RW-1</u> 02A1 Equip. Class 18. Instrument (on) Rad	cks			
Equipment Descr	iption CCR HX River Water Inlet Press gauge				-
Interaction Effe	cts			-	
7. Are soft targets	s 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 blo	equipment, distribution systems, ceiling tiles and lighting, ock walls not likely to collapse onto the equipment?	X			
		Y	N	U	N/A
9. Do attached line Attached lines ide	nes 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>U</u>]
of potentially a	adverse seismic interaction effects?	L		•	1
Other Adverse C	Conditions			-	
11. Have you lool adversely affe	ked for and found no other seismic conditions that could ct the safety functions of the equipment?	Y X	<u>N</u>	U]
Comments (Add	itional pages may be added as necessary)			-	
	atter Mahma fi				
Evaluated by:	Eddie M. Guerra	Date: <u>10/1/2</u>	012		
	12 1 10 Marin				

Choral De Marine

Adam L. Helffrich

Date:



Status: 🕅 N U

Seismic Walkdown Checklist (SWC)

Equipment ID No. PI-1RW-102A1 Equip. Class 18. Instrument (on) Racks

Equipment Description

CCR HX River Water Inlet Press gauge



File Name: 2-61-2-1-46.jpeg Description: Component Plate ID



File Name: 2-62-2-1-46.jpeg Description: General view of component



Status: 🕲 N U

Equipment ID No. PI-1RW-102A1 Equip. Class 18. Instrument (on) Racks

Equipment Description

CCR HX River Water Inlet Press gauge



File Name: 2-63-2-1-46.jpeg Description: View of base anchorage configuration

Paul C. Rizzo	Associates, Inc.				She	et 256 of 4	439
ENGINEERS & CONSULT	ist (SWC)		Status [.]	$(\mathbf{\hat{N}})$	N	U	
Equipment ID No. <u>PCV-1</u>	<u>MS</u> -101C Equip. Class 8B	Solenoid Valve	Status.	J.		0	
Equipment Description	1C SG ATM Steam Dump	Valve					
Location: Bldg. SFGB	Floor El. <u>76</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)?

- 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?
- U N/A Y Ν X U N/A Y Ν X N/A Ν U Y Χ Y Ν U N/A X

N X



Paul ENGINE	C. Rizzo Associates, Inc.				Sh	eet 257 of 439
Seismic Walkdow	yn Checklist (SWC)		Status:	Ŷ	N	U
Equipment ID No.	PCV-1MS-101C Equip. Class 8B. Solenoid Valve					
Equipment Descri	ption 1C SG ATM Steam Dump Valve					
Interaction Effec	ts				-	
7. Are soft targets	free from impact by nearby equipment or structures?		Y X	<u>N</u>	U	N/A
			V	N	II	NI/A
8. Are overhead ea	quipment, distribution systems, ceiling tiles and lighting,		X	N		
und masonry ore	ek wans not nicely to concepte onto the equipment.					
9. Do attached line	es have adequate flexibility to avoid damage?		Y X	N	<u>U</u>	N/A
Attached lines ide	ntified with adequate flexibility.					
10. Based on the a of potentially a	bove seismic interaction evaluations, is equipment free dverse seismic interaction effects?		Y X	N	<u>U</u>]
1 5						
Other Adverse C	onditions ed for and found no other seismic conditions that could		 V	N	- U	
adversely affec	t the safety functions of the equipment?		X]
Comments (Addi	tional pages may be added as necessary)				-	
	atte Mahre I					
Evaluated by:	Eddie M. Guerra	Date:	10/1/2	012	-	
	(Itan) Wellinger					

Date:



Status: 🕅 N U

Equipment ID No. PCV-1MS-101C Equip. Class 8B. Solenoid Valve

Equipment Description

1C SG ATM Steam Dump Valve



File Name: 2-61-3-1-32.jpeg Description: General view of component



File Name: 2-62-3-1-32.jpeg Description: View of valve on main pipe line

Paul C. Rizzo Associates, Inc. ENGINEERS & CONSULTANTS			Sh	eet 259 of 4
Seismic Walkdown Checklist (SWC)	Status:	(N	U
Equipment ID No. <u>PNL-1MS</u> -101A Equip. Class 20. Instrument and Control Pan	els			
Equipment Description (PCV-MS-101A) Instrument Panel				-
Location: Bldg. SFGB Floor El. 751				
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 rest findings. Additional space is provided at the end of this checklist for documenting othe	n of equipmer ults of judgme er comments.	nt on the ents and		
Anchorage	N	N		
. Is the anchorage configuration verification required (i.e., is the item one	Y X	N		
of the 50% of SWEL items requiring such verification)? Intrument rack identified with two HSS $3x3$ posts $\sim 5'$ tall. Each post anchored with 4- 1/2'' diam anchor bolts. All instruments adequately attached to $1/4''$ face plate. Face plate is adequately welded to each post.				
) Is the anchorage free of heat broken missing or loose herdware?	Y	<u>N</u>	U	N/A
. Is the anchorage free of bent, broken, missing of foose hardware?				
	Y	<u>N</u>	U	N/A
oxidation?		1		
	Y	N	U	N/A
. 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?	X			
(Note: This question only applies if the item is one of the 50% for				
(Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) Sketch in PNL-1MS-101A SEWS shows actual anchorage configuration				
 (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) Sketch in PNL-1MS-101A SEWS shows actual anchorage configuration 	Y	<u>N</u>	U	1

Paul ENGINE	C. Rizzo Associates, Inc. ERS & CONSULTANTS				Sh	eet 260 of 439
Seismic Walkdov	vn Checklist (SWC)		Status:	\heartsuit	N	U
Equipment ID No	. <u>PNL-1MS</u> -101A Equip. Class 20. Instrument and C	ontrol Panel	s			
Equipment Descri	ption (PCV-MS-101A) Instrument Panel				n	
Interaction Effec	ts			<u></u>	-	
7. Are soft targets	free from impact by nearby equipment or structures?	[Y X	<u>N</u>	U	N/A
						27/1
8. Are overhead each and masonry blo	quipment, distribution systems, ceiling tiles and lighting,	[Y X	<u>N</u>		N/A
	en want not mory to compte onto the equipment.					
9. Do attached line	es have adequate flexibility to avoid damage?	[Y X	N	U	N/A
			V	N	* *	
10. Based on the a of potentially a	bove seismic interaction evaluations, is equipment free dverse seismic interaction effects?	[X	IN		
Other Adverse C 11. Have you look	onditions ed 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)					
	atter Mehne It					
Evaluated by:	Eddie M. Guerra	Date:	10/1/2	012		
	(stara) 10 Maria					

Date:



Status: 🕅 N U

Equipment ID No. PNL-1MS-101A Equip. Class 20. Instrument and Control Panels

Equipment Description

(PCV-MS-101A) Instrument Panel



File Name: 2-61-7-1-32.jpeg Description: Component Plate ID



File Name: 2-62-7-1-32.jpeg Description: General view of component

Paul C. Rizzo Associates, Inc. ENGINEERS & CONSULTANTS

Seismic Walkdown Checklist (SWC)

Status: 🕲 N U

Equipment ID No. PNL-1MS-101A Equip. Class 20. Instrument and Control Panels

Equipment Description

(PCV-MS-101A) Instrument Panel



File Name: 2-63-7-1-32.jpeg Description: View of base anchorage configuration



File Name: 2-64-7-1-32.jpeg Description: View of flexible attached lines

Paul C. Rizzo Associates, Inc. ENGINEERS & CONSULTANTS			Sh	eet 263 of 43
Seismic Walkdown Checklist (SWC)	Status:	\heartsuit	N	U
Equipment ID No. <u>PNL-1MS</u> -101B Equip. Class 20. Instrument and Control Pane	els			
Equipment Description (PCV-MS-101B) Instrument Panel				
Location: Bldg. SFGB Floor El. 751				
Manufacturer, Model, Etc.				
Instructions for Completing Checklist This checklist may be used to document the results of the Seismic Walkdown of an iten SWEL. The space below each of the following questions may be used to record the results findings. Additional space is provided at the end of this checklist for documenting othe	n of equipme ults of judgm r comments.	ent on the ents and		
Anchorage	V	N		
1. Is the anchorage configuration verification required (i.e., is the item one	Y X	ÎN		
of the 50% of SWEL items requiring such verification)? Intrument rack identified with two HSS $3x3$ posts ~5' tall. Each post anchored with 4- 1/2'' diam anchor bolts. All instruments adequately attached to $1/4''$ face plate. Face plate is adequately welded to each post.				
2 Is the anchorage free of bent broken missing or loose bardware?	$\frac{Y}{X}$	N	U	N/A
	A			L
	Y	<u>N_</u>	U	N/A
Is the anchorage free of corrosion that is more than mild surface oxidation?	X			
	Y	N	U	N/A
. Is the anchorage free of visible cracks in the concrete near the anchors?				
	Y	N	U	N/A
Note: This question only applies if the item is one of the 50% for	X			
which an anchorage configuration verification is required.) Ketch in PNL-1MS-101B SEWS shows actual anchorage configuration				
	Y	N	U	
b. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	X			J

Paul ENGINE	C. Rizzo Associates, Inc.				She	eet 264 of 439
Seismic Walkdow	vn Checklist (SWC)		Status:	\heartsuit	N	U
Equipment ID No	. <u>PNL-1MS</u> -101B Equip. Class 20. Instrument and Co	ntrol Panels	5			
Equipment Descri	ption (PCV-MS-101B) Instrument Panel					
Interaction Effec	ets					
7. Are soft targets	free from impact by nearby equipment or structures?	E	Y X	N	U	N/A
			Y	N	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?					
9 Do attached lin	es have adequate flexibility to avoid damage?	Г	$\frac{Y}{x}$	<u>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	
Other Adverse C 11. Have you look adversely affec	Conditions and found no other seismic conditions that could bet the safety functions of the equipment?	[Y X	N	U	
Comments (Addi	tional pages may be added as necessary)					
	the Minali					
Evaluated by:	Eddie M. Guerra	Date:	10/1/2	012		
	and the the					

(itua) & Alina

Adam L. Helffrich

Date:



Status: 🕅 N U

Equipment ID No. PNL-1MS-101B Equip. Class 20. Instrument and Control Panels

Equipment Description

(PCV-MS-101B) Instrument Panel



File Name: 2-61-8-1-32.jpeg Description: Component Plate ID



File Name: 2-62-8-1-32.jpeg Description: General view of component



Status: 🕅 N U

Seismic Walkdown Checklist (SWC)

Equipment ID No. PNL-1MS-101B Equip. Class 20. Instrument and Control Panels

Equipment Description

(PCV-MS-101B) Instrument Panel



File Name: 2-63-8-1-32.jpeg Description: View of base anchorage configuration



File Name: 2-64-8-1-32.jpeg Description: View of flexible attached lines

Paul C. Rizzo Associates, Inc.				Sheet	267 of 439
Seismic Walkdown Checklist (SWC)		Status:	\heartsuit	N	U
Equipment ID No. <u>PNL-AC1</u> -BUS-1E Equip. C	Class 20. Instrument and Contro	Panels			
Equipment Description AC BUS Panel 1E			· · · · · · · · · · · · · · · · · · ·		
Location: Bldg. <u>SRVB</u> Floor El	l. <u>713</u>				
Manufacturer, Model, Etc.					
Instructions for Completing Checklist This checklist may be used to document the results SWEL. The space below each of the following que findings. Additional space is provided at the end o	s of the Seismic Walkdown of an i estions may be used to record the f this checklist for documenting of	tem of equipment or results of judgment ther comments.	on the s and		
Anchorage		v	N		
1. Is the anchorage configuration verification requ of the 50% of SWEL items requiring such verifi Small panel mounted on wall with 4-1/2" diam and x 8".	ired (i.e., is the item one ication)? chor bolts. Panel size around 24".	x 24"	X		
		Y	N	U	N/A
2. Is the anchorage free of bent, broken, missing of	r loose hardware?				J
		Y	N	U	N/A
3. Is the anchorage free of corrosion that is more the oxidation?	han mild surface	X			
		Y	N	<u> </u>	N/A
4. Is the anchorage free of visible cracks in the cor	ncrete near the anchors?	X			
		Y	N	U	N/A
5. Is the anchorage configuration consistent with p (Note: This question only applies if the item is c which an anchorage configuration verification	plant documentation? one of the 50% for is required.)				X
6. Based on the above anchorage evaluations, is th potentially adverse seismic conditions?	e anchorage free of	Y X	N	U]

Paul C. Rizzo Associates, Inc. ENGINEERS & CONSULTANTS					Sheet 268 of 439		
Seismic Walkdo	wn Checklist (SWC)		Status:	\heartsuit	Ν	U	
Equipment ID No	o. <u>PNL-AC1-BUS-1E</u> Equip. Class 20. Instrument and	l Control Pane	ls				
Equipment Descr	ription AC BUS Panel 1E			·			
Interaction Effe	ects						
7. Are soft target	s free from impact by nearby equipment or structures?		Y X	<u>N</u>		N/A	
			Y	N	U	N/A	
8. Are overhead of and masonry bl Block walls from	equipment, distribution systems, ceiling tiles and lighting, lock walls not likely to collapse onto the equipment? battery room are nearby component.		X				
9. Do attached lin	nes have adequate flexibility to avoid damage?		Y X	N	U	N/A	
10. Based on the of potentially	above seismic interaction evaluations, is equipment free adverse seismic interaction effects?		Y X	N	U		
Other Adverse 11. Have you loo adversely affe	Conditions oked for and found no other seismic conditions that could ect the safety functions of the equipment?		Y X	N	U		
Comments (Add	litional pages may be added as necessary)				. .		
	tette Mahrie 1						
Evaluated by:	Eddie M. Guerra	Date:	10/1/2	012			
	Story Deflere						
	Adam L. Helffrich	Date:	10/1/2	012			



Status: 🕅 N U

Seismic Walkdown Checklist (SWC)

Equipment ID No. PNL-AC1-BUS-1E Equip. Class 20. Instrument and Control Panels

Equipment Description

AC BUS Panel 1E



File Name: 2-61-4-1-25.jpeg Description: Component Plate ID



File Name: 2-62-4-1-25.jpeg Description: General view of component





Status: 🕅 N U

Equipment ID No. PNL-AC1-BUS-1E Equip. Class 20. Instrument and Control Panels

Equipment Description

AC BUS Panel 1E



File Name: 2-63-4-1-25.jpeg Description: View of top entry conduits



File Name: 2-64-4-1-25.jpeg Description: View of typical wall anchorage configuration

Paul C. Rizzo As ENGINEERS & CONSULTANT	sociates, Inc.					Sh	eet 271 of 43
Seismic Walkdown Checklist	: (SWC)			Status:	(N	U
Equipment ID No. PNL-AC	1-E1 Equip. Clas	ss 20. Instrument and Co	ntrol Panels				
Equipment Description	AC Distribution Pa	nel					-
Location: Bldg. SRVB	Floor El.	713					
Manufacturer, Model, Etc.							
Instructions for Completing This checklist may be used to o SWEL. The space below each findings. Additional space is pr	Checklist document the results of the following que rovided at the end of	of the Seismic Walkdown stions may be used to recor this checklist for documen	of an item of d the results ting other co	f equipme of judgm omments.	nt on the ents and		
Anchorage			-	v	N		
1. Is the anchorage configuration	on verification requir	red (i.e., is the item one		1	X		
of the 50% of SWEL items f Wall-mounted panel (size ~36' bolts.	equiring such verific 'x48"x16"), anchored	ation)? d with eight 1/2" diameter o	anchor				
2. Is the anchorage free of hont	brokon missing or	looss handware?	F	Y	N	U	N/A
2. is the alleholage free of bein	, oroken, missing or	loose hardware?	Ĺ	<u> </u>	I		L
			_	Y	N	U	N/A
3. Is the anchorage free of corr oxidation?	osion that is more the	an mild surface	L	<u>X</u>			L]
			_	Y	<u>N</u>	U	N/A
4. Is the anchorage free of visib	ole cracks in the cond	crete near the anchors?		X			
				Y	N	U	N/A
5. Is the anchorage configuration (Note: This question only on	on consistent with pla plies if the item is or	ant documentation? the of the 50% for					X
which an anchorage config	uration verification i	s requirea.)					
which an anchorage config	uration verification i	s requirea.)		Y	N	U	1

Paul C. Rizzo Associates, Inc. ENCINEERS & CONSULTANTS			Sh	eet 272 of 439
Seismic Walkdown Checklist (SWC)	Status:	\odot	N	U
Equipment ID No. <u>PNL-AC1-E1</u> Equip. Class 20. Instrument and Control Panels	8			
Equipment Description AC Distribution Panel				
Interaction Effects				
7. Are soft targets free from impact by nearby equipment or structures?	Y X	N	U	N/A
од 1.1. с. и и и и и и г	Y	N	U	N/A
and masonry block walls not likely to collapse onto the equipment?	<u>X</u>			
Block walls in the area have been qualified per IE 80-11 review. Respective block walls include: SB1-11, SB1-12 and SB1-15.				
9 Do attached lines have adequate flowibility to avoid domage?	Y	N	U	N/A
5. Do attached miles have adequate nextority to avoid damage?				
	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 V	N	U	
adversely affect the safety functions of the equipment?	<u>A</u>			
Comments (Additional pages may be added as necessary)				
Totte My hand I				
Evaluated by: Eddie M. Guerra Date:	10/1/20	012		
Cheer Deffree				

Date:
Paul C. R ENGINEERS & C	Lizzo Associal	tes, Inc.					Sh	eet 273 of 4
Seismic Walkdown C	hecklist (SW	C)			Status:	(N	U
Equipment ID No. P	NL-DC1-3	Equip. Class	20. Instrument and Con	trol Panels				
Equipment Description	Dist	ribution Panel				58. Ditta (
Location: Bldg. Sl	RVB	Floor El.	735					
Manufacturer, Model, 1	Etc							
Instructions for Com This checklist may be u SWEL. The space belo findings. Additional sp	bleting Chec used to docum w each of the ace is provide	klist nent the results of following questic ed at the end of th	the Seismic Walkdown of the Seismic Walkdown of the second s	of an item of the results ing other co	f equipme of judgmo omments.	nt on the ents and		
Anchorage					Y	N		
1. Is the anchorage con of the 50% of SWEI	figuration ve titems requir	rification required	l (i.e., is the item one ion)?		X			
Tall (~6'-6" x 40" x 16 anchor bolts at top and	") panel floor l anchored to	/wall mounted. Ai floor by 4-1/2" di	nchored to wall with 4-1/. iam anchor bolts at front.	2" diam				
2. Is the anchorage free	of bent, brol	en, missing or lo	ose hardware?	Г	Y X	<u>N</u>	U	N/A
	, or ound, or or			L	<u> </u>	I		1I
3. Is the anchorage free	ofcorrection	that is more than	mild surface	[Y	<u>N</u>	U	N/A
oxidation?		that is more than		L		I		<u></u> J
					Y	N	U	N/A
1. Is the anchorage free	e of visible cr	acks in the concre	ete near the anchors?	L	X			
					Y	N	U	N/A
5. Is the anchorage con (Note: This question	figuration co only applies	nsistent with plan if the item is one	t documentation? of the 50% for		X			
· · · · · ·	e configuratio	on verification is r with Calculation	equired.) PNL-DC1-3 and 52233-0	C-015.				
which an anchorage Anchorage configuration	on congirmed							
which an anchorage	n congirmea	1			<u>Y</u>	<u>N</u>	U	1

Paul Paul	C. Rizzo Associate	s, Inc.					She	eet 274 of 439
Seismic Walkdow	vn Checklist (SWC	C)			Status:	(N	U
Equipment ID No.	PNL-DC1-3	Equip. Class	20. Instrument and C	Control Panel	s			
Equipment Descri	ption <u>Distri</u>	bution Panel						
Interaction Effec	ts						-	
7. Are soft targets	free from impact b	y nearby equipm	ent or structures?	[Y X	N		N/A
					Y	N	U	N/A
8. Are overhead ea and masonry blo	re overhead equipment, distribution systems, ceiling tiles and lighting, d masonry block walls not likely to collapse onto the equipment?			[X			
					V	N	I	N 1/A
9. Do attached line	es have adequate fle	exibility to avoid	damage?	[X	IN		IN/A
				-	Y	N	U	
10. Based on the a of potentially a	bove seismic intera dverse seismic inter	ction evaluations raction effects?	s, is equipment free	l	X			
Other Adverse C 11. Have you look	onditions ed for and found no	o other seismic co	onditions that could		Y	N	- U	
adversely affec	t the safety function	ns of the equipme	ent?	l	X			
Comments (Addit	tional pages may be	added as necess	sary)				-	
	- the	Chieft						
Evaluated by:	Eddie M. Guerra	a		Date:	10/1/2	012	-	
	Chan West	n Bana						

Shary & April

Adam L. Helffrich

Date:

10/1/2012



Status: 🕲 N U

Seismic Walkdown Checklist (SWC)

Equipment ID No. PNL-DC1-3 Equip. Class 20. Instrument and Control Panels

Equipment Description

Distribution Panel



File Name: 2-61-3-1-18.jpeg Description: Component Plate ID



File Name: 2-62-3-1-18.jpeg Description: General view of openned panel



Status: 🕅 N

U

Equipment ID No. PNL-DC1-3 Equip. Class 20. Instrument and Control Panels

Equipment Description

Distribution Panel



File Name: 2-63-3-1-18.jpeg Description: View of channel mounting base



File Name: 2-64-3-1-18.jpeg Description: View of typical wall anchorage configuration

Paul C. Rizzo Ass	ociates, Inc.				Sh	eet 277 of 439
Seismic Walkdown Checklist	(SWC)		Status:	\heartsuit	N	U
Equipment ID No. <u>PNL-DGE</u>	EA-1 Equip. Class	20. Instrument and Control Par	nels			
Equipment Description	Diesel Generator Exc	citation Aux Relay				
Location: Bldg. DGBX	Floor El.	735				
Manufacturer, Model, Etc.						
Instructions for Completing C This checklist may be used to d SWEL. The space below each c findings. Additional space is pro-	Checklist ocument the results o of the following quest ovided at the end of th	f the Seismic Walkdown of an ite ions may be used to record the res his checklist for documenting othe	m of equipme sults of judgme er comments.	nt on the ents and		
Anchorage						
1. To the englisher of the set			Y	N		
of the 50% of SWEL items re Small panel (24" x 30" x 16") m and bottom with a minimum of wall with 4-3/8" diam anchor be	equiring such verifica counted on wall. Pane 12" of 1/8" fillet weld olts.	tion)? el is welded to 3/8" plates at top s. Each 3/8" plate is anchored to				
		Y	N	U	N/A	
2. Is the anchorage free of bent,	broken, missing or lo	oose hardware?	X			
3. Is the anchorage free of corre	sion that is more the	mild surface	Y	N	U	N/A
oxidation?	sion that is more that	i inita surface				
A Ta the enclosure for a C init	1. 1 • 4		Y	N	U	N/A
4. Is the anchorage free of visib	le cracks in the concr	ete near the anchors?				
5 Is the anchorage configuration	n consistent with play	t documentation?	Y	<u>N</u>	<u>U</u>	N/A
 Is the anchorage configuration (Note: This question only approximation which an anchorage configuration Sketch in PNL-DGEA-1 SEWS 5 52233-C-022). 	n consistent with plar blies if the item is one tration verification is shows actual anchora	t documentation? e of the 50% for required.) gge configuration (see also Calc.				L
6. Based on the above anchorage	e evaluations is the a	nchorage free of	Y X	N	U	
potentially adverse seismic c	conditions?			L		I

Paul ENGIN	I C. Rizzo Associates, Inc. FERS & CONSULTANTS				Sh	eet 278 of 439
Seismic Walkdov	wn Checklist (SWC)		Status:	Ŷ	N	U
Equipment ID No	p. <u>PNL-DGEA-1</u> Equip. Class 20. Instrument and C	Control Panels	5			
Equipment Descr	iption Diesel Generator Excitation Aux Relay		······			-
Interaction Effec	ets					
7. Are soft targets	free from impact by nearby equipment or structures?	Ľ	Y X	N	U	N/A
			Y	N	U	N/A
8. Are overhead e and masonry block	equipment, distribution systems, ceiling tiles and lighting, bock walls not likely to collapse onto the equipment?	Γ	X			
			V	N	TT	NT/A
9. Do attached lin	es have adequate flexibility to avoid damage?	Ľ	Y X	N	0	N/A
		F	Y	N	U	1
10. Based on the a of potentially a	above seismic interaction evaluations, is equipment free adverse seismic interaction effects?	L	<u> </u>	, <u> </u>		l ·
Other Adverse C 11. Have you look	Conditions ted for and found no other seismic conditions that could	Г	Y	<u>N</u>	U	1
	the safety functions of the equipment?	L]
Comments (Addi	tional pages may be added as necessary)					
	Edite Mahna 1					
Evaluated by:	Eddie M. Guerra	Date:	10/1/2	012		
	21 1 10 Han					

(hora) & elforen

Adam L. Helffrich

Date:

10/1/2012



Status: 🕅 N U

Seismic Walkdown Checklist (SWC)

Equipment ID No. PNL-DGEA-1 Equip. Class 20. Instrument and Control Panels

Equipment Description

Diesel Generator Excitation Aux Relay



File Name: 2-61-4-1-20.jpeg Description: Component Plate ID



File Name: 2-62-4-1-20.jpeg Description: General view of component



Status: 🕅 N U

Equipment ID No. <u>PNL-DGEA-1</u> Equip. Class 20. Instrument and Control Panels

Equipment Description

Diesel Generator Excitation Aux Relay



File Name: 2-63-4-1-20.jpeg Description: View of typical wall anchorage configuration



File Name: 2-64-4-1-20.jpeg Description: View of flexible attached line

Paul C. Rizzo Associates, Inc.					Sheet 281 of 439		
Seismic Walkdown Checkli	st (SWC)		Status:	\heartsuit	N	U	
Equipment ID No. <u>PNL-D</u>	IGEN-1 Equip. Class	20. Instrument and Control Panels					
Equipment Description	D/G #1 Electric Cont	rol Cabinet					
Location: Bldg. DGBX	Floor El.	735					
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?

 Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?
 Panel welded to channel with ~4" (a) 7" of 3/16" to 1/4" welds around the inside

perimeter of its base framing. Channels are welded to embed with $\sim 4"$ @ 7" of 3/16" to 1/4" welds.

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?



	Y	N	U	N/A
	Х			
	Y	Ν	U	N/A
	Х			
	Y	Ν	U	N/A
	X			
				
	Y	Ν	U	N/A
	37		<u> </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.)
Sketch in PNL-DIGEN-1 SEWS shows actual anchorage configuration (see also anchorage calc. 52233-C-025)

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



Paul ENGINE	C. Rizzo Associates, Inc.				Sh	eet 282 of 439
Seismic Walkdow	rn Checklist (SWC)		Status:	\mathfrak{V}	N	U
Equipment ID No.	PNL-DIGEN-1 Equip. Class 20. Instrument and Co	ontrol Panels	s			
Equipment Descrip	D/G #1 Electric Control Cabinet	·· · · · · · · · · · · · · · · ·		<u> </u>		
Interaction Effect	ts				•	
7. Are soft targets	free from impact by nearby equipment or structures?	[Y X	N	U	N/A
8 Are overhead ed	uinment distribution systems, spiling tiles and lighting	г	Y	N	U	N/A
and masonry blo	re overhead equipment, distribution systems, ceiling tiles and lighting, d masonry block walls not likely to collapse onto the equipment?	L.			L	<u> </u>]
9. Do attached line	s have adequate flexibility to avoid damage?	Γ	Y X	N	<u> </u>	N/A
		L		NT		
10. Based on the a of potentially a	bove seismic interaction evaluations, is equipment free dverse seismic interaction effects?	[X	N		
Other Adverse Control 11. Have you look	onditions 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	ional pages may be added as necessary)					
	Adde Mahma It					
Evaluated by:	Eddie M. Guerra	Date:	10/1/20	012		
	They bellen					

Adam L. Helffrich

Date:

10/1/2012



Status: 🕅 N U

Equipment ID No. PNL-DIGEN-1 Equip. Class 20. Instrument and Control Panels

Equipment Description

D/G #1 Electric Control Cabinet



File Name: 2-61-5-1-20.jpeg Description: Component Plate ID



File Name: 2-62-5-1-20.jpeg Description: General view of component



Status: 🕅 N U

Equipment ID No. PNL-DIGEN-1 Equip. Class 20. Instrument and Control Panels

Equipment Description

D/G #1 Electric Control Cabinet



File Name: 2-94-5-1-20.jpeg Description: View of small attached line



File Name: 2-95-5-1-20.jpeg Description: General view inside of component





File Name: 2-96-5-1-20.jpeg Description: View of stitch weld detail for cabinet embeddment connection

Paul C. Rizzo A	Paul C. Rizzo Associates, Inc. Engineers & CONSULTANTS						Sh	eet 286 of
seismic Walkdown Checklis	t (SWC)				Status:	\odot	N	U
Equipment ID No. PNL-DI	<u>G</u> EN-2 Eq	uip. Class	20. Instrument and C	Control Panels				
Equipment Description	D/G #2 Ele	ctric Conti	ol Cabinet					
Location: Bldg. DGBX	Flo	or El.	735					
Manufacturer, Model, Etc.								
Instructions for Completing This checklist may be used to SWEL. The space below each Indings. Additional space is p	Checklist document the of the follow provided at th	e results of ring question e end of th	the Seismic Walkdov ons may be used to rea is checklist for docum	vn of an item o cord the results tenting other co	f equipme of judgmo omments.	nt on the ents and		
Anchorage					Y	N		
. Is the anchorage configurat of the 50% of SWEL items Panel welded to channel with perimeter of its base framing.	ion verification requiring succe ~4" @ 7" of Channels are	on required h verificat 3/16" to 1/ e welded to	(i.e., is the item one on)? 4" welds around the in embed with ~4" @ 7	nside " of 3/16"	X			
. Is the anchorage free of ben	ıt, broken, mi	ssing or lo	ose hardware?		Y X	<u>N</u>	U	N/A
. Is the anchorage free of cor oxidation?	rosion that is	more than	mild surface	E	Y X	N	U	N/A
. Is the anchorage free of visi	ble cracks in	the concre	te near the anchors?		Y X	N	U	N/A
. Is the anchorage configuration	ion consistent	with plant	documentation?		Y X	N	U	N/A
. Is the anchorage configurati (Note: This question only ap which an anchorage config thetch in PNL-DIGEN-2 SEW alculation 52233-C-025).	ion consistent pplies if the in guration verif S shows actu	with plant tem is one ication is r al anchora	documentation? of the 50% for equired.) ge configuration (See	e also	Y X	<u>N</u>	U	<u>N/A</u>

Paul C ENGINEER	C. Rizzo Associates, Inc. 884 consultants				Sh	eet 287 of 439
Seismic Walkdown	n Checklist (SWC)		Status:	\odot	N	U
Equipment ID No.	PNL-DIGEN-2 Equip. Class 20. Instrument and C	Control Panels	5			
Equipment Descrip	tion D/G #2 Electric Control Cabinet					
Interaction Effects	S		<u> </u>		-	
7. Are soft targets f	ree from impact by nearby equipment or structures?	Γ	Y X	N	U	N/A
			V	N	II	N/A
8. Are overhead equand masonry bloc	uipment, distribution systems, ceiling tiles and lighting, k walls not likely to collapse onto the equipment?	Ľ	X	1		
9. Do attached lines	Do attached lines have adequate flexibility to avoid damage?			N	U	N/A
			Y	N	U	
10. Based on the ab of potentially ad	ove seismic interaction evaluations, is equipment free verse seismic interaction effects?	Γ	X			
Other Adverse Co 11. Have you looke	nditions d for and found no other seismic conditions that could		Y	N	U	
adversely affect	the safety functions of the equipment?	L	X			
Comments (Additi	onal pages may be added as necessary)				-	
	Atte Mehne It					
Evaluated by:	Eddie M. Guerra	_Date:	10/1/2012		-	
	Stary Dellar					

Adam L. Helffrich

Date:

10/1/2012

.



Status: 🕅 N U

Equipment ID No. PNL-DIGEN-2 Equip. Class 20. Instrument and Control Panels

Equipment Description

D/G #2 Electric Control Cabinet



File Name: 2-61-2-1-21.jpeg Description: Component Plate ID



File Name: 2-62-2-1-21.jpeg Description: General view of component



Status: 🕲 N U

Seismic Walkdown Checklist (SWC)

Equipment ID No. <u>PNL-DIGEN-2</u> Equip. Class 20. Instrument and Control Panels

Equipment Description

D/G #2 Electric Control Cabinet



File Name: 2-63-2-1-21.jpeg Description: View of flexible attached line



File Name: 2-64-2-1-21.jpeg Description: General view inside of component





File Name: 2-73-2-1-21.jpeg Description: View of stitch weld detail for cabinet embeddment connection

Paul C. Rizzo Associates, Inc. ENGINEERS & CONSULTANTS			She	eet 291 of 439
Seismic Walkdown Checklist (SWC)	Status:	\heartsuit	N	U
Equipment ID No. <u>PNL-VITBUS1-2</u> Equip. Class 14. Distribution Panels				
Equipment Description Vital Bus Channel II (White); Bus				
Location: Bldg. SRVB Floor El. 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 result 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		
1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?	<u>I</u>	N X		
Wall mounted panel ($\sim 6' \times 30'' \times 10''$). Anchored with 4-5/8'' diam anchor bolts.				
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	N/A
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Y X	N		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 wavefaction is required.)	Y	N	U	N/A X
which an anchorage configuration vernication is required.)				
6. Based on the above anchorage evaluations, is the anchorage free of	Y X	N	U	
potentially adverse seismic conditions?				

Pau ENGIN	Il C. Rizzo Associates, Inc.				Sh	eet 292 of 439
Seismic Walkdo	wn Checklist (SWC)		Status:	(Y)	N	U
Equipment ID No	o. PNL-VITBUS1-2 Equip. Class 14. Distribution Panels					
Equipment Descr	ription Vital Bus Channel II (White); Bus					
Interaction Effe	cts				-	
7. Are soft target	s free from impact by nearby equipment or structures?		Y X	N	U	N/A
			Y	N	U	N/A
8. Are overhead and masonry bl	equipment, distribution systems, ceiling tiles and lighting, lock walls not likely to collapse onto the equipment?		X			
Block wall SB-3- ceiling's main ru ege grating) is tid Judged no intera	9 in the area has been evaluated per IE80-11 program. Contro nners are supported by wires at ~4' spacing. Each ceiling tile (ed to the main runners at each of its four corners with tie wraps ction concern.	l room i.e., s.				
9. Do attached lin	nes have adequate flexibility to avoid damage?	I	Y X	<u>N</u>	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				-	
adversely affe	ted for and found no other seismic conditions that could oct the safety functions of the equipment?	[Y X	<u>N</u>		
Comments (Add	itional pages may be added as necessary)				-	
	atter Mahne Ji					
Evaluated by:	Eddie M. Guerra Da	ite:	10/1/20	012	-	
	Show Dellaw					
	Adam L. Helffrich Da	ate:	10/1/20	012	-	





File Name: 2-61-1-1-18.jpeg Description: Component Plate ID



File Name: 2-62-1-1-18.jpeg Description: General view of component



Status: 🕅 N

U

Equipment ID No. PNL-VITBUS1-2 Equip. Class 14. Distribution Panels

Equipment Description

Vital Bus Channel II (White); Bus



File Name: 2-63-1-1-18.jpeg Description: View of top entry conduits



File Name: 2-64-1-1-18.jpeg Description: Block wall identified in the vicinity of the component

Paul C. Rizzo A ENGINEERS & CONSULTAN			She	et 295 of 4	439		
Seismic Walkdown Checklis	eismic Walkdown Checklist (SWC)				N	U	
Equipment ID No. PNL-VI	TBUS1-3 Equip. Clas	s 14. Distribution Panels					
Equipment Description	Vital Bus Channel I	II (Blue); Bus					
Location: Bldg. <u>SRVB</u>	Floor El.	735					
Manufacturer, Model, Etc.							

N X

N

Ν

Ν

N

Ν

U

U

U

U

U

N/A

N/A

N/A

N/A

X

Y

X

X

Y

X

Y

X

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)?	
Wall mounted panel ($\sim 6' \times 30'' \times 10''$). Anchored with 4-5/8" diam anchor bolts.	

2. Is the anchorage free of bent, broken, missing or loose hardware? *Brocken washer at one anchor location judged acceptable.*

- 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?

Pau ENGIN	Il C. Rizzo Associates, Inc. NEERS & CONSULTANTS				Sh	eet 296 of 439
Seismic Walkdo	wn Checklist (SWC)	Sta	itus:	\odot	N	U
Equipment ID No	o. <u>PNL-VITBUS1-3 Equip. Class</u> 14. Distribution Panels					
Equipment Desc	ription Vital Bus Channel III (Blue); Bus					
Interaction Effe	ects				-	
7. Are soft target	s free from impact by nearby equipment or structures?	Y X		<u>N</u>	U	N/A
8. Are overhead and masonry bl Block wall identi	equipment, distribution systems, ceiling tiles and lighting, lock walls not likely to collapse onto the equipment? ified around 6' away. Control room ceiling's main runners are			N	U 	N/A
main runners at concern.	each of its four corners with tie wraps. Judged no interaction	ine				
9. Do attached lin	nes have adequate flexibility to avoid damage?	Y		N	U	N/A
10. Based on the of potentially	above seismic interaction evaluations, is equipment free adverse seismic interaction effects?	Y X		N	U	
Other Adverse	Conditions				-	
11. Have you loo adversely affe	ked for and found no other seismic conditions that could ect the safety functions of the equipment?	Y X		<u>N</u>	U	
Comments (Add	itional pages may be added as necessary)	113 <u>804</u> 00			-	
	Tette Mahma It					
Evaluated by:	Eddie M. Guerra Dat	te: <u>1</u>	0/1/20	012	-	
	(Stary) Se allour					
	Adam L. Helffrich Dat	te: <u>1</u>	0/1/20	012	-	





Status: 🕅 N U

Equipment ID No. PNL-VITBUS1-3 Equip. Class 14. Distribution Panels

Equipment Description

Vital Bus Channel III (Blue); Bus



File Name: 2-61-2-1-18.jpeg Description: Component Plate ID



File Name: 2-62-2-1-18.jpeg Description: General view of component



Status: 🕅 N U

Equipment ID No. PNL-VITBUS1-3 Equip. Class 14. Distribution Panels

Equipment Description

Vital Bus Channel III (Blue); Bus



File Name: 2-63-2-1-18.jpeg Description: View of top entry conduits

Paul C. Rizzo Associates, Inc. ENGINEERS & CONSULTANTS			She	et 299 of 4
Seismic Walkdown Checklist (SWC)	Status:	(N	U
Equipment ID No. <u>PT-1RW-113A</u> Equip. Class 18. Instrument (on) Racks				
Equipment Description Primary Component Cooling Water Heat Exchanger In	let, Press Trai	nsmitter		
Location: Bldg. <u>AXLB</u> Floor El. <u>735</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)?

Mounted on 2 1/2" diam, ~5' tall post. Post anchored with 4-3/8" diam anchor bolts. Weight is around 20 lbs and attached with two torqued 3/8" diam U-bolts to the post. Eventhough the U-bolts work in friction they are judged adequate since they are torqued and equipment was tug tested.

- 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 299 of 439



Paul EVER	C. Rizzo Associates, Inc.				Sh	eet 300 of 439
Seismic Walkdov	vn Checklist (SWC)		Status:	(N	U
Equipment ID No	PT-1RW-113A Equip. Class 18. Instrument (on) F	lacks				
Equipment Descri	ption Primary Component Cooling Water Heat Ex	changer In	let, Press Tra	nsmitter		
Interaction Effec	ts					
7. Are soft targets	free from impact by nearby equipment or structures?		Y X	N	U	N/A
8. Are overhead e	quipment, distribution systems, ceiling tiles and lighting,		Y X	<u>N</u>]	U	N/A
and masonry blo	ck walls not likely to collapse onto the equipment?					
9. Do attached line	es have adequate flexibility to avoid damage?		Y X	<u>N</u>	U	N/A
10. Based on the a	bove seismic interaction evaluations, is equipment free		Y	<u>N</u>	U]
of potentially a	dverse seismic interaction effects?		L			
Other Adverse C	onditions		<u> </u>			
11. Have you look adversely affec	ed for and found no other seismic conditions that could t the safety functions of the equipment?		Y X	N	U	
Comments (Addi	tional pages may be added as necessary)		<u></u>			
	the Mahmade					
Evaluated by:	Eddie M. Guerra	_Date:	10/1/20	012		
	Storal Welling					

Adam L. Helffrich

_____Date:

10/1/2012





Status: 🕅 N U

Seismic Walkdown Checklist (SWC)

Equipment ID No. <u>PT-1RW-113A</u> Equip. Class 18. Instrument (on) Racks

Equipment Description

Primary Component Cooling Water Heat Exchanger Inlet, Press Transmitter



File Name: 2-61-1-1-45.jpeg Description: Component Plate ID



File Name: 2-62-1-1-45.jpeg Description: General view of component

Paul C. Rizzo Ass ENGINEERS & CONSULTANTS			She	Sheet 302 of 439			
Seismic Walkdown Checklist		Status:	Ý	Ν	U		
Equipment ID No. <u>QS-P-1B</u>	Equip. Class	5. Horizontal Pumps					
Equipment Description	Quench Spray Pump						
Location: Bldg. SFGB	Floor El.	735					
Manufacturer, Model, Etc.	<u></u>						

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 on concrete pad. Anchored with 4-3/4" diam 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.)
- 6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?
- X N/A U Y N X U N/A Y Ν X N/A U Y Ν Χ Y Ν U N/A х

N



Paul EXCONT	C. Rizzo Associates, Inc.				She	et 303 of 439
Seismic Walkdow	vn Checklist (SWC)		Status:	\odot	N	U
Equipment ID No.	QS-P-1B Equip. Class 5. Horizontal Pumps					
Equipment Descrip	ption Quench Spray Pump					
Interaction Effect	ts				-	21/4
7. Are soft targets	free from impact by nearby equipment or structures?		Y X	N	U	
			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 Nozzles identified	es have adequate flexibility to avoid damage? to be well supported.		X			
10 Passad on the a	have assume interpretion avaluations, is againment from		Y	N	U	
of potentially a	dverse seismic interaction effects?					
Other Adverse C 11. Have you look	onditions ted for and found no other seismic conditions that could t the safety functions of the equipment?		Y	N	U	
adversery affec	a the safety functions of the equipment.					
Comments (Addit	tional pages may be added as necessary)				-	
	Total Alfina I					
Evaluated by:	Eddie M. Guerra	Date:	10/1/2	012	-	
	Thurs Welling					

Adam L. Helffrich

___Date:

10/1/2012



Status: 🕅 N U

Seismic Walkdown Checklist (SWC)

Equipment ID No. QS-P-1B

Equipment Description

Quench Spray Pump

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

Equip. Class 5. Horizontal Pumps



File Name: 2-61-7-1-50.jpeg Description: Component Plate ID



File Name: 2-62-7-1-50.jpeg Description: General view of component



Status: 🏵 N U

Equipment ID No. <u>QS-P-1B</u> Equip. Class 5. Horizontal Pumps

Equipment Description

Quench Spray Pump



File Name: 2-63-7-1-50.jpeg Description: View of flexible attached lines



File Name: 2-64-7-1-50.jpeg Description: Typical frame anchorage configuration

Paul C. Rizzo Associates, Inc. ENGINEERS & CONSULTANTS				Sheet	306 of 439
Seismic Walkdown Checklist (SWC)		Status:	(Ν	U
Equipment ID No. <u>REAC-TR-SWGR-1A</u> Equip. Class 2. Lo	ow Voltage Switchgear				
Equipment Description Reactor Trip SWGR					
Location: Bldg. <u>SRVB</u> Floor El. <u>713</u>					
Manufacturer, Model, Etc.	<u> </u>				
Instructions for Completing Checklist This checklist may be used to document the results of the Seisr SWEL. The space below each of the following questions may be findings. Additional space is provided at the end of this checklist	mic Walkdown of an item be used to record the resul list for documenting other	of equipment ts of judgmen comments.	on the ts and		
Anchorage		v	N		
1. Is the anchorage configuration verification required (i.e., is t	the item one				
of the 50% of SWEL items requiring such verification)? This is a 1 section SWGR. $4-1/2"$ diam anchor bolts identified j configuration. Component identified to be attached to adjacent opposite set of SWGR found to be adequate (~3/4").	for anchorage nt SWGR. Gap next to				
		Y	N	U	N/A
2. Is the anchorage free of bent, broken, missing or loose hardw	ware?	X			
		Y	N	U	N/A
3. Is the anchorage free of corrosion that is more than mild surf oxidation?	face	X			
		Y	N	<u> </u>	N/A
4. Is the anchorage free of visible cracks in the concrete near the	he anchors?	X			
		Y	N	U	N/A
5. Is the anchorage configuration consistent with plant docume (Note: This question only applies if the item is one of the 50	entation? 0% for	X			
which an anchorage configuration verification is required.) Calculation 52233-C-003 Anchorage Calc confirms anchorage) ge configuration				
6. Based on the above anchorage evaluations, is the anchorage potentially adverse seismic conditions?	e free of	Y X	N	U	

Paul C. Rizzo Associates, Inc. ENGINEERS & CONSULTANTS					Sheet	307 of 439
Seismic Walkd	own Checklist (SWC)		Status:	\odot	Ν	U
Equipment ID N	No. <u>REAC-TR-SWGR-1A</u> Equip. Class 2. Low Voltage	Switchgear				
Equipment Desc	cription Reactor Trip SWGR					
Interaction Eff	ïects		N.	N	т.	NT/A
7. Are soft targe	ets free from impact by nearby equipment or structures?		X	N		N/A
			Y	N	U	N/A
8. Are overhead and masonry b	l equipment, distribution systems, ceiling tiles and lighting block walls not likely to collapse onto the equipment?	,,			L I	
			Y	N	U	N/A
9. Do attached I	ines have adequate flexibility to avoid damage?				L1	J
10 Based on the	e above seismic interaction evaluations is equipment free		Y	N	U	
of potentially	y adverse seismic interaction effects?		LL.		L	
Other Adverse	Conditions		v	N		
adversely aff	fect the safety functions of the equipment?					
Comments (Ad	lditional pages may be added as necessary)	<u> </u>			-	
	Edder Mahme It					
Evaluated by:	Eddie M. Guerra	Date:	10/1/2	012	<u>-</u> .	
	Shary Deffine					
	Adam L. Helffrich	Date:	10/1/2	.012	_	



Status: 🕅 N U

Seismic Walkdown Checklist (SWC)

Equipment ID No. REAC-TR-SWGR-1A Equip. Class 2. Low Voltage Switchgear

Equipment Description Reactor Trip SWGR



File Name: 2-61-1-1-33.jpeg Description: Component Plate ID



File Name: 2-62-1-1-33.jpeg Description: General view of component
Paul C. Rizzo Associates, Inc. ENGINEERS & CONSULTANTS

Status: 🕅 N U

Seismic Walkdown Checklist (SWC)

Equipment ID No. REAC-TR-SWGR-1A Equip. Class 2. Low Voltage Switchgear

Equipment Description Reactor Trip SWGR



File Name: 2-63-1-1-33.jpeg Description: View of top entry conduits

Paul C. Rizzo Associates, Inc. ENGINEERS & CONSULTANTS			She	et 310 of 439
Seismic Walkdown Checklist (SWC)	Status:	(\mathbf{Y})	N	U
Equipment ID No. <u>RK-1PRI-</u> PROC-12 Equip. Class 20. Instrument and Control Pane	els			
Equipment Description Primary Process Rack 12				
Location: Bldg. SRVB Floor El. 713				
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 equipmen lts of judgme comments.	t on the nts and		
Anchorage	<u>Y</u>	N		
 Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? This panel is part of a 16-panel line up. All panels are bolted together. Each panel is attached to I-beam at its base with 4-3/4" diam machine bolts. I-beam is anchored to concrete floor with 1/2" diam anchor bolts @ ~30" spacing. 	L	X		
2. Is the anchorage free of heat broken missing or loose hardware?	Y X	<u>N</u>	U	N/A
2. Is the anomology free of bonk, broken, missing of toose hardware.				
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	Y X	N	U	N/A
4 Is the analysis free of visible gracks in the concrete near the analysis?	Y	N	U	N/A
4. Is the anchorage free of visible clacks in the concrete hear the anchors?				
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.)				<u> </u>
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				She	et 311 of 439
Seismic Walkdown Checklist (SWC)		Status:	\heartsuit	N	U
Equipment ID No. <u>RK-1PRI-</u> PROC-12 Equip. Class 20. Instrument and C	ontrol Pane	els			
Equipment Description Primary Process Rack 12					
Interaction Effects					
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 equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?		X			
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	<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?	. <u>.</u>	Y X	N	U	
Comments (Additional pages may be added as necessary)				-	
- detre Mehree It					
Evaluated by: Eddie M. Guerra	_Date:	10/1/2	012	-	
They Deffice					

Date:



Seismic Walkdown Checklist (SWC)

Status: 🕅 N U

Equipment ID No. <u>RK-1PRI-PROC-12</u> Equip. Class 20. Instrument and Control Panels

Equipment Description

Primary Process Rack 12



File Name: 2-61-2-1-49.jpeg Description: Component Plate ID



File Name: 2-62-2-1-49.jpeg Description: General view of component

Paul C. Rizzo Associates, Inc.			Shee	et 313 of 4
Seismic Walkdown Checklist (SWC)	Status:	\heartsuit	N	U
Equipment ID No. <u>RK-AUX-RPTST-A</u> Equip. Class 20. Instrument and Control Pane	els			
Equipment Description Auxiliary Safeguards Cabinet Train A				
Location: Bldg. <u>SRVB</u> Floor El. <u>713</u>				
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 result findings. Additional space is provided at the end of this checklist for documenting other	of equipmen lts of judgme comments.	t on the nts and		
Anchorage	V	N		
. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SW/FL items requiring such verification)?	X			
This panel is part of a 7-panel line up. All panels are bolted together. Each panel is attached to I-beam at its base with 4-3/4" diam machine bolts. I-beam is anchored to concrete floor with $1/2$ " diam anchor bolts @ ~30" spacing.				
) Is the anchorage free of bent, broken, missing or loose bardware?	Y	N	<u>U</u>	N/A
. Is the anchorage free of bent, broken, missing of loose hardware?				
Is the anchorage free of corrosion that is more than mild surface	Y	N	U	N/A
oxidation?				
	Y	N	U	<u>N/A</u>
I. Is the anchorage free of visible cracks in the concrete near the anchors?	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.) Sketch in RK-AUX-RPTST-A SEWS anchorage configuration	X			
	Y	<u>N</u>	U	ł
a mased on the above anchorage evaluations is the anchorage tree of				

Paul ENGINE	C. Rizzo Associates, Inc. ERS & CONSULTANTS				Shee	t 314 of 439
Seismic Walkdow	vn Checklist (SWC)		Status:	\heartsuit	N	U
Equipment ID No.	<u>RK-AUX</u> -RPTST-A Equip. Class 20. Instrument and C	Control Pane	els			
Equipment Descrip	ption Auxiliary Safeguards Cabinet Train A	<u> </u>				
Interaction Effect	ts					
7. Are soft targets	free from impact by nearby equipment or structures?		Y X	<u>N</u>		N/A
8. Are overhead ed	quipment, distribution systems, ceiling tiles and lighting,		Y X	<u>N</u>	U	N/A
and masonry blo	ck 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
10. Based on the a of potentially a	bove seismic interaction evaluations, is equipment free dverse seismic interaction effects?		Y X	<u>N</u>	U	
Other Adverse C 11. Have you look adversely affec	onditions ted for and found no other seismic conditions that could tt the safety functions of the equipment?		Y X	N	- U	
Comments (Addit	tional pages may be added as necessary)				-	
	Edto MChine It					
Evaluated by:	Eddie M. Guerra	Date:	10/1/2	012	-	
	Steer Deffice					

Date:



Seismic Walkdown Checklist (SWC)

Equipment ID No. RK-AUX-RPTST-A Equip. Class 20. Instrument and Control Panels

Equipment Description

Auxiliary Safeguards Cabinet Train A



File Name: 2-61-1-1-49.jpeg Description: Component Plate ID



File Name: 2-62-1-1-49.jpeg Description: General view of component





Seismic Walkdown Checklist (SWC)

Equipment ID No. RK-AUX-RPTST-A Equip. Class 20. Instrument and Control Panels

Equipment Description

Auxiliary Safeguards Cabinet Train A



File Name: 2-63-1-1-49.jpeg Description: General view inside of component



File Name: 2-64-1-1-49.jpeg Description: View of base frame connection to floor wide flange beams





U Status: Ν

Seismic Walkdown Checklist (SWC)

Equipment ID No. RK-AUX-RPTST-A Equip. Class 20. Instrument and Control Panels

Equipment Description

Auxiliary Safeguards Cabinet Train A



File Name: 2-73-1-1-49.jpeg Description: View of connection point between adjacent cabinets

Paul C. Rizzo Associates, Inc.				She	et 318 of 43
Seismic Walkdown Checklist (SWC)		Status:	(N	U
Equipment ID No. <u>RK-NUC-INS-1</u> Equip. Class 20. Ins	strument and Control Panels				
Equipment Description Nuclear Instrumentation Rack	ζ				
Location: Bldg. SRVB Floor El. 735					
Manufacturer, Model, Etc.					
Instructions for Completing Checklist This checklist may be used to document the results of the Seis SWEL. The space below each of the following questions may findings. Additional space is provided at the end of this check	smic Walkdown of an item of be used to record the results list for documenting other co	equipme of judgm mments.	nt on the ents and		
Anchorage		Y	N		
1. Is the anchorage configuration verification required (i.e., is of the 50% of SWEL items requiring such verification)?	the item one	Х			
Attached to perimeter channel flange at concrete floor with 1. bolts. The channels at front and back are welded to embed stee	2-3/8" diam machine el.				
2. Is the anchorage free of bent, broken, missing or loose hard	ware?	Y X	<u>N</u>	U	N/A
,		- internet of the	I		
3. Is the anchorage free of corrosion that is more than mild sur	rface	Y X	<u>N</u>	U	N/A
oxidation?					
		Y	<u>N</u>	U	N/A
4. Is the anchorage free of visible cracks in the concrete near t	the anchors?	X			
5 In the angle and configuration and it at which when the		Y	<u>N</u>	<u> </u>	N/A
5. Is the anchorage configuration consistent with plant docume (Note: This question only applies if the item is one of the 50 which an anchorage configuration verification is required. <i>Calculation 52233-C-023 confirms the anchorage configuration</i>	entation? 0% for) ion.	<u> </u>		1	
6. Based on the above anchorage evaluations, is the anchorage potentially adverse seismic conditions?	e free of	Y X	N	U	

Paul ENGINE	C. Rizzo Associates, Inc. ERS & CONSULTANTS				Sh	eet 319 of 439
Seismic Walkdow	yn Checklist (SWC)		Status:	\odot	Ν	U
Equipment ID No.	<u>RK-NUC-</u> INS-1 Equip. Class 20. Instrument and C	Control Panels	i			
Equipment Descrip	ption Nuclear Instrumentation Rack	···· =,		· · · · · · · · · · · · · · · · · · ·		
Interaction Effec	ts					
7. Are soft targets	free from impact by nearby equipment or structures?	C	Y X	N	U	N/A
			V	N	T	NI/A
8. Are overhead ed and masonry blo	quipment, distribution systems, ceiling tiles and lighting,	C	X	IN	U	N/A
and masoning ore	ex wants not mory to concepte onto the equipment.					
9. Do attached line	es have adequate flexibility to avoid damage?	C	Y X	N	U	N/A
			V	N	TT	
10. Based on the a of potentially a	bove seismic interaction evaluations, is equipment free dverse seismic interaction effects?	Γ	Y X	N]
er poterinanij u						
Other Adverse C	onditions	·			•	
adversely affec	t the safety functions of the equipment?	Ľ	Y X	<u>N</u>	U	
Comments (Addit	tional pages may be added as necessary)					
	atter Mahree 1					
Evaluated by:	Eddie M. Guerra	_Date: _	10/1/2	012		
	Stern Delling					

Date:



Seismic Walkdown Checklist (SWC)

Status: 🏵 N

U

Equipment ID No. <u>RK-NUC-INS-1</u> Equip. Class 20. Instrument and Control Panels

Equipment Description

Nuclear Instrumentation Rack



File Name: 2-61-4-1-18.jpeg Description: Component Plate ID



File Name: 2-62-4-1-18.jpeg Description: General view of component





File Name: 2-63-4-1-18.jpeg Description: General view inside of component



File Name: 2-64-4-1-18.jpeg Description: View of anchorage between cabinet housing and base frame

Paul C. Rizzo Associates, Inc.			She	et 322 of
Seismic Walkdown Checklist (SWC)	Status:	(N	U
Equipment ID No. <u>RK-VV-REL-B</u> Equip. Class 20. Instrument and Control Pane	els			
Equipment Description Stop Valve Replay Rack B				
Location: Bldg. SRVB Floor El. 713				
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 resu 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		
1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWIFI items requiring use surficientian)?		X		
This panel is part of a 7-panel line up. All panels are bolted together. Each panel is attached to I-beam at its base with $4-3/4"$ diam machine bolts. I-beam is anchored to concrete floor with $1/2"$ diam anchor bolts @ ~30" spacing.				
	Y	N	U	N/A
2. Is the anchorage free of bent, 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			
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Y X	<u>N</u>	U	N/A
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			
	Y	N	U	
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	X			

Sheet 322 of 439

Paul ENGINE	C. Rizzo Associates, Inc. ers & consultants			Sh	eet 323 of 439
Seismic Walkdow	vn Checklist (SWC)	Status:	Ý	N	U
Equipment ID No.	<u>RK-VV-R</u> EL-B Equip. Class 20. Instrument and Control	Panels			
Equipment Descri	ption Stop Valve Replay Rack B				
Interaction Effec	ts			-	
7. Are soft targets	free from impact by nearby equipment or structures?	Y X	<u>N</u>	U	N/A
		Y	N	Ú	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			
		X.	N	TT	NT/A
9. Do attached line	es have adequate flexibility to avoid damage?	Y X	<u>N</u>		N/A
		Y	<u>N</u>	U	
10. Based on the a of potentially a	bove seismic interaction evaluations, is equipment free dverse seismic interaction effects?	X			
Other Adverse C 11. Have you look	onditions ed for and found no other seismic conditions that could	Y	N	- U	
adversely affec	t the safety functions of the equipment?	X			J
Comments (Addi	tional pages may be added as necessary)			-	
	the Mahne It				
Evaluated by:	Eddie M. Guerra Date	: 10/1/2	012	-	
	21 A 10 Marin				

Show the desired

Adam L. Helffrich

Date:



Seismic Walkdown Checklist (SWC)

Equipment ID No. <u>RK-VV-REL-B</u> Equip. Class 20. Instrument and Control Panels

Equipment Description

Stop Valve Replay Rack B



File Name: 2-61-3-1-49.jpeg Description: Component Plate ID



File Name: 2-62-3-1-49.jpeg Description: General view of component



U

Seismic Walkdown Checklist (SWC)

Status. U IN

Equipment ID No. RK-VV-REL-B Equip. Class 20. Instrument and Control Panels

Equipment Description

Stop Valve Replay Rack B



File Name: 2-63-3-1-49.jpeg Description: General view inside of component



File Name: 2-64-3-1-49.jpeg Description: View of anchorage between cabinet housing and base frame

Equipment Description

Stop Valve Replay Rack B



File Name: 2-73-3-1-49.jpeg Description: View of anchorage between base frame and floor beam



File Name: 2-94-3-1-49.jpeg Description:

Paul C. Rizzo As ENGINEERS & CONSULTANT	sociates, Inc.				She	et 327 of 4	439
Seismic Walkdown Checklist	(SWC)		Status:	\heartsuit	Ν	U	
Equipment ID No. <u>RS-P-2B</u>	Equip. Class	s 6. Vertical Pump					
Equipment Description	Outside Recirculation	on Spray Pumps					
Location: Bldg. SFGB	Floor El.	732					
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)?

Pump is supported at its base from the wall by two braced and heavily anchored brackets.

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 X



Y	N
Х	

- 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?

Paul ENGINE	C. Rizzo Associates, Inc.				Sh	eet 328 of 439
Seismic Walkdow	n Checklist (SWC)		Status:	Ŷ	Ν	U
Equipment ID No.	RS-P-2B Equip. Class 6. Vertical Pump					
Equipment Descrip	ption Outside Recirculation Spray Pumps		······································			
Interaction Effect	ts	<u></u>				
7 Are soft targets	free from impact by nearby equipment or structures?		Y	N	<u>U</u>	N/A
7. The solt ingets						
· · ·			Y	N	U	N/A
8. Are overhead ec and masonry blo	quipment, distribution systems, ceiling tiles and lighting, ck walls not likely to collapse onto the equipment?				l	<u> </u>
9 Do attached line	es have adequate flevibility to avoid damage?		Y	N	<u> </u>	N/A
J. Do attached find	s have adequate heribility to avoid damage.				I	
			<u>Y</u>	N	U	1
10. Based on the a of potentially a	bove seismic interaction evaluations, is equipment free dverse seismic interaction effects?		X		l	
Other Adverse C	onditions				-	
11. Have you look adversely affec	ed for and found no other seismic conditions that could the safety functions of the equipment?		Y X	N]
Comments (Addit	tional pages may be added as necessary)	- <u></u>			-	
	- the Michine I'					
Evaluated by:	Eddie M. Guerra	Date:	10/1/2	012	-	
	(Stary) 10 Marin					

Date:

10/1/2012

.





File Name: 2-64-1-1-10.jpeg Description: Component Plate ID



File Name: 2-61-1-10.jpeg Description: General view of component



Seismic Walkdown Checklist (SWC)

Status: 🏵 N U

Equipment ID No.	RS-P-2B	Equip. Class	6. Vertical Pump	
Equipment Descript	tion	Outside Recirculation	Spray Pumps	



File Name: 2-62-1-1-10.jpeg Description: Anchorage configuration for pump's bottom section



File Name: 2-63-1-1-10.jpeg Description: View of hung support for attached pipe line

Paul C. Rizzo As	sociates, Inc.			Sheet	t 331 of 439
Seismic Walkdown Checklist	t (SWC)		Status:	 N	U
Equipment ID No. <u>RW-57</u>	Equip. Class	0D. Other-Check Valve or Manual	Valve		
Equipment Description	RP RW PP (1WR-P-1	A) Discharge Check Valve		 	
Location: Bldg. <u>INTS</u>	Floor El.	705			
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)?
 Inline check valve on~14" diam pipe line. No degraded condition identified.

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

X

Y

Y

 $\frac{Y}{X}$

N



Ν

N

Ν

U

U

U

N/A

Х

N/A

X

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

Mild surface corrosion identified on bolts. Judged not a concern.

- 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?

Paul Paul	She	Sheet 332 of 439					
Seismic Walkdow	n Checklist	(SWC)		Status:	\heartsuit	N	U
Equipment ID No.	<u>RW-57</u>	Equip. Class 0D. Other-Che	ck Valve or Man	ual Valve			
Equipment Descrip	otion	RP RW PP (1WR-P-1A) Discharge C	heck Valve		·		
Interaction Effect	ts	······································					
7. Are soft targets	free from in	pact by nearby equipment or structures	\$?	Y X	<u>N</u>	U	N/A
8 Are overhead ec	uinment di	stribution systems, cailing tiles and ligh	ting	Y	N	U	N/A
and masonry blo	ck walls not	likely to collapse onto the equipment?	ung,			<u> </u>	
9. Do attached line	es have adeq	uate flexibility to avoid damage?		Y X	N	U	N/A
10. Based on the a	bove seismi	c interaction evaluations, is equipment	free	Y	<u>N</u>	U	l
of potentially ad	dverse seism	ic interaction effects?					
Other Adverse Co 11. Have you looke adversely affect	onditions ed for and for	bund no other seismic conditions that co	ould	Y	N	U	I
Comments (Addit	ional pages	may be added as necessary)					
		the Mahna Ir					
Evaluated by:	Eddie M.	Guerra	Date:	10/1/2	012	-	
	(Jung)	Dellere					

Date:

U

N



Seismic Walkdown Checklist (SWC)

Status: 🕲

Equipment ID No. <u>RW-57</u> Equip. Class 0D. Other-Check Valve or Manual Valve

Equipment Description

RP RW PP (1WR-P-1A) Discharge Check Valve



File Name: 2-61-4-1-27.jpeg Description: Component Plate ID



File Name: 2-62-4-1-27.jpeg Description: General view of component



Seismic Walkdown Checklist (SWC)

Equipment ID No. RW-57 Equip. Class 0D. Other-Check Valve or Manual Valve

Equipment Description

RP RW PP (1WR-P-1A) Discharge Check Valve



File Name: 2-63-4-1-27.jpeg Description: View of valve location on main line

Paul C. Rizzo As ENGINEERS & CONSULTANT	sociates, Inc.					She	eet 335 of 439		
Seismic Walkdown Checklist	(SWC)			Status:	\odot	N	U		
Equipment ID No. <u>RW-183</u>	Equip. Class	0D. Other-Check Valv	e or Manual	Valve					
Equipment Description	Equipment Description PRI CCW HXS (1CC-E-1AB) RW SUP HDR CROSS CONN, RW-183 MANUAL VALVE								
Location: Bldg. AXLB	Floor El.	735							
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				Y	N				
1. Is the anchorage configuration of the 50% of SWEL items a Inline check valve on~24" diam	on verification required requiring such verificat n pipe line. No degrade	d (i.e., is the item one ion)? ed condition identified.			X				
2 Is the analogo free of here	t hardron missing or lo	aaa handuuraa		<u>Y</u>	N	U	N/A		
2. Is the anchorage free of ben	i, broken, missing of to	ose naroware?	L.				A		
3. Is the anchorage free of corr	osion that is more than	mild surface	C	Y	N	U	N/A X		
oxidation? <i>Mild surface corrosion identifi</i>	ied on bolts. Judged no	t a concern.							
4. Is the anchorage free of visi	ble cracks in the concre	ete near the anchors?		Y	N	U	N/A X		
5. Is the anchorage configuration	on consistent with plan	t documentation?	F	Y	N	U	N/A X		
(Note: This question only ap which an anchorage config	pplies if the item is one puration verification is r	of the 50% for required.)	L			L	L		
6. Based on the above anchora potentially adverse seismic	ge evaluations, is the a conditions?	nchorage free of	E	Y X	N	U]		

Paul ENGINE	C. Rizzo Associates, Inc.				She	eet 336 of 439
Seismic Walkdow	vn Checklist (SWC)		Status:	\odot	Ν	U
Equipment ID No.	. <u>RW-183</u> Equip. Class 0D. Other-Check Va	lve or Manu	ual Valve			
Equipment Descri	ption PRI CCW HXS (1CC-E-1AB) RW SUP HI	OR CROSS	CONN, RW-	183 MA	NUAL V.	ALVE
Interaction Effec	ts		V	N	II	NI/A
7. Are soft targets	free from impact by nearby equipment or structures?			IN		
			Y	N	U	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?		X			
			v	N	TI	N/A
9. Do attached line	es have adequate flexibility to avoid damage?					
10. Based on the a	above seismic interaction evaluations, is equipment free		Y X	N	U]
of potentially a	dverse seismic interaction effects?				• • • • • • • • • • • • • • • • • • • •	
Other Adverse C	Conditions				-	
11. Have you look adversely affect	ted for and found no other seismic conditions that could the safety functions of the equipment?		Y X	N	U	
Comments (Addi	tional pages may be added as necessary)				-	
	Edde Mahma 1					
Evaluated by:	Eddie M. Guerra	Date:	10/1/2	012	-	
	a and the					

Churry & Marine

Adam L. Helffrich

Date:



Seismic Walkdown Checklist (SWC)

Equipment ID No. RW-183

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

Equipment Description

PRI CCW HXS (1CC-E-1AB) RW SUP HDR CROSS CONN, RW-183 MANUAL VALVE



File Name: 2-61-1-1-46.jpeg Description: Component Plate ID



File Name: 2-62-1-1-46.jpeg Description: General view of component

Paul C. Rizzo A ENGINEERS & CONSULTAN	ssociates, Inc.				Shee	et 338 of 439
Seismic Walkdown Checklis	t (SWC)		Status:	\heartsuit	N	U
Equipment ID No. SAF-SW	7-65 Equip. Class	20. Instrument and Control Panels				
Equipment Description	Vital Bus Inverter #1	AC Power Disconnect Switch				
Location: Bldg. SRVB	Floor El.	713				
Manufacturer, Model, Etc.						
Instructions for Completing	Checklist		<u></u>			

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)?

Component identified as a small panel ($\sim 10" \times 24" \times 6"$). 4-3/8" diam anchor bolts identified for column connection.

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
	X

_

U

....

N/A

N/A

- 4. Is the anchorage free of visible cracks in the concrete near the anchors?
- 5. Is the anchorage configuration consistent with plant documentation?

 $\frac{Y}{X}$



Ν

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

(Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)

Paul ENGINE	C. Rizzo Associates, Inc.				Sh	eet 339 of 439
Seismic Walkdow	/n Checklist (SWC)		Status:	\heartsuit	N	U
Equipment ID No.	SAF-SW-65 Equip. Class 20. Instrument and C	ontrol Panels	\$			
Equipment Descri	ption Vital Bus Inverter #1 AC Power Disconnect	Switch		······	·····	
Interaction Effec	ts					
7. Are soft targets	free from impact by nearby equipment or structures?		Y X	N	U	N/A
			v	N	П	NI/A
8. Are overhead ed	quipment, distribution systems, ceiling tiles and lighting,	[X	N	0	
and masonry ore	ek wans not nikely to conapse onto the equipment.					
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	bove seismic interaction evaluations, is equipment free dverse seismic interaction effects?	Ε	Y X		<u> </u>	
, in the second s						
Other Adverse C	onditions					
adversely affec	t the safety functions of the equipment?	[X	IN	0	
Comments (Addit	tional pages may be added as necessary)					
	atter Myhrafi					
Evaluated by:	Eddie M. Guerra	_Date: _	10/1/2	012		
	alund be flinne					

Date:





File Name: 2-61-5-1-25.jpeg Description: Component Plate ID



File Name: 2-62-5-1-25.jpeg Description: General view of component



File Name: 2-63-5-1-25.jpeg Description: Bottom wall mounting configuration



File Name: 2-64-5-1-25.jpeg Description: Top wall mounting configuration

Paul C. Rizzo Associates, Inc. ENGINEERS & CONSULTANTS						Sheet 342 of 439		
Seismic Walkdown	Checklist	(SWC)		Status:	\heartsuit	Ν	U	
Equipment ID No.	SI-P-1A	Equip. Class	6. Vertical Pump					
Equipment Descript	tion	Low Head Safety Inje	ection Pump					
Location: Bldg.	SFGB	Floor El.	751					
Manufacturer, Mod	el, Etc.	<u></u>						

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)?	
Pump is supported off of wall at base and braced at mid-height.	

- 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?
- No signs of corrosion identified.
- 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



Paul ENGINE				She	eet 343 of 439	
Seismic Walkdov	/n Checklist (SWC)		Status:	\heartsuit	N	U
Equipment ID No	SI-P-1A Equip. Class 6. Vertical Pump					
Equipment Descri	ption Low Head Safety Injection Pump					
Interaction Effec	ts				-	
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 block	quipment, distribution systems, ceiling tiles and lighting, ck walls not likely to collapse onto the equipment?		X			
			V	N	II	NI/A
9. Do attached lin	es have adequate flexibility to avoid damage?					
			Y	N	U	
10. Based on the a of potentially a	bove seismic interaction evaluations, is equipment free dverse seismic interaction effects?		X	<u>.</u>		
					-	
Other Adverse C 11. Have you look adversely affect	onditions ed for and found no other seismic conditions that could t the safety functions of the equipment?			N	U	
					-	
Comments (Addi	tional pages may be added as necessary)					
	atte Mahne It					
Evaluated by:	Eddie M. Guerra	Date:	10/1/2	012	-	
	Bland Wellering					

Date:





File Name: 2-95-1-1-31.jpeg Description: Component Plate ID



File Name: 2-61-1-1-31.jpeg Description: General view of component


Status: 🕅 N U

Equipment ID No. SI-P-1A

Equipment Description

Low Head Safety Injection Pump

Equip. Class 6. Vertical Pump



File Name: 2-62-1-1-31.jpeg Description: Wall mounted brace detail



File Name: 2-63-1-1-31.jpeg Description: View of wall anchorage configuration for pump's bottom section



Status: 🕅 N U

Equipment ID No. SI-P-1A

Equipment Description

Low Head Safety Injection Pump

Equip. Class 6. Vertical Pump



File Name: 2-64-1-1-31.jpeg Description: Wall mounted brace detail



File Name: 2-94-1-1-31.jpeg Description: View of pipe line restraining tube section members

Paul C. Rizzo As	sociates, Inc.				She	et 347 of 4	439
Encineers & consultant	s (SWC)		Status:	\heartsuit	N	U	
Equipment ID No. SI-TK-2	Equip. Class	21. Tanks and Heat Exchangers					
Equipment Description	Boron Injection Tank	·····					
Location: Bldg. <u>AXLB</u>	Floor El.	722					
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)?
 Tank mounted on four legs, each leg anchored with 2-1" diam 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.)
- 6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?

Y N X





Paul ENGIN	1 C. Rizzo Associates, Inc.				Sh	eet 348 of 439
Seismic Walkdov	wn Checklist (SWC)		Status:	\heartsuit	N	U
Equipment ID No	D. <u>SI-TK-2</u> Equip. Class 21. Tanks and Heat Ex	xchangers				
Equipment Descr	iption Boron Injection Tank					
Interaction Effe	cts					
7. Are soft targets	s 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 ble Block wall AB-1-	equipment, distribution systems, ceiling tiles and lighting, ock walls not likely to collapse onto the equipment? <i>1 has been qualified per IE 80-11 review</i> .		X			
		r	Y	N	U	N/A
9. Do attached lin	tes have adequate flexibility to avoid damage?		<u>X</u>			· ·
10. Based on the of potentially a	above seismic interaction evaluations, is equipment free adverse seismic interaction effects?		Y X	N	U	
Other Adverse (11. Have you lool 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)					
	atter Mahme Li					
Evaluated by:	Eddie M. Guerra	Date:	10/1/2	012		
	21 - 1.10 Minu					

Sheer & Sparse

Adam L. Helffrich

Date:



File Name: 2-61-1-1-42.jpeg Description: Component Plate ID



File Name: 2-62-1-1-42.jpeg Description: General view of component





File Name: 2-63-1-1-42.jpeg Description: Typical view of base anchorage configuration for each leg support



File Name: 2-64-1-1-42.jpeg Description: Deficiency tag addressing paint of cubicle floor and walls

Paul C. Rizzo Associates, Inc. ENGINEERS & CONSULTANTS			Sh	eet 351 of 4
Seismic Walkdown Checklist (SWC)	Status:	(N	U
Equipment ID No. SV-MS-104B Equip. Class 7. Pneumatic-Operated Valve	e			
Equipment Description 1B S/G Safety Vavle				-
Location: Bldg. SFGB Floor El. <u>768</u>				
Manufacturer, Model, Etc.				
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 Anchorage	item of equipme results of judgm ther comments.	ent on the lients and		
 Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? 	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 correction that is more than mild surface	Y T	N	U	N/A
oxidation?			L	

Y

Y

Y

Χ

U

U

U

Ν

Ν

Ν

N/A

Х

N/A

Χ

- 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?

Paul ENGINEE	C. Rizzo Associates, Inc.				She	eet 352 of 439
Seismic Walkdow	n Checklist (SWC)		Status:	(Ν	U
Equipment ID No.	SV-MS-104B Equip. Class 7. Pneumatic-Operated	Valve				
Equipment Descrip	1B S/G Safety Vavle				·	
Interaction Effect	ts					
7. Are soft targets	free from impact by nearby equipment or structures?	E	Y X	N	U	N/A
			Y	N	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			
			v	N	U	N/A
9. Do attached line Attached lines ider	es have adequate flexibility to avoid damage? <i>ntified with adequate flexibility</i> .	Ľ	X			
		г	Y	N	<u> </u>	
10. Based on the a of potentially a	bove seismic interaction evaluations, is equipment free dverse seismic interaction effects?	L	X			
Other Adverse C 11. Have you look adversely affec	onditions ed for and found no other seismic conditions that could t the safety functions of the equipment?	Г	Y x	N	U	
		L			·	I
Comments (Addit	ional pages may be added as necessary)					
	Atte Mehne I					
Evaluated by:	Eddie M. Guerra	Date: _	10/1/2	012	-	
	Steer & Story					

Date:



Status: 🕅 N U

Equipment ID No. SV-MS-104B Equip. Class 7. Pneumatic-Operated Valve

Equipment Description

1B S/G Safety Vavle



File Name: 2-61-4-1-32.jpeg Description: Component Plate ID



File Name: 2-62-4-1-32.jpeg Description: General view of component

Paul C. ENGINEERS	Kizzo Ass	ociates	, Inc.					-
Seismic Walkdown	Checklist	(SWC)			Status:	(N	U
Equipment ID No.	TCV-1CH	[-144	Equip. Class	7. Pneumatic-Operated Valve				
Equipment Description	on	TCV-1	CH-144			······································		
Location: Bldg.	AXLB		Floor El.	722				
Manufacturer, Mode	l, 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 MOV on ~6" diam line. Line is well supported near valve.	

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

Y	N	U	N/A
			X
Y	Ν	U	N/A

U

U

Х

N/A

Х

N/A

Х

N X

- Is the anchorage free of corrosion that is more than mild surface oxidation?
 Valve identified 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?



Ν

N

Paul ENGINE	C. Rizzo Associates, Inc. ERS & CONSULTANTS				Sh	eet 355 of 439
Seismic Walkdow	yn Checklist (SWC)		Status:	(Y)	N	U
Equipment ID No.	TCV-1CH-144 Equip. Class 7. Pneumatic-Operated	Valve				
Equipment Descri	ption TCV-1CH-144		······································			
Interaction Effec	ts				-	
7. Are soft targets	free from impact by nearby equipment or structures?		Y X	<u>N</u>	U	N/A
			v	N	Ĩ	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?		X			
-						
9. Do attached line	es have adequate flexibility to avoid damage?		Y X	<u>N</u>	U	N/A
Allached lines ide	nlijied with adequate flexibility.		Y	N	IJ	
10. Based on the a of potentially a	bove seismic interaction evaluations, is equipment free dverse seismic interaction effects?	Ľ	X			
Other Adverse C	onditions		 V	N	- TT	
adversely affec	t the safety functions of the equipment?		X			
Comments (Addi	tional pages may be added as necessary)				-	
	addie Mahriel V					
Evaluated by:	Eddie M. Guerra	Date:	10/1/2	012	-	
	They be allower					

Date:



Status: 🏵 N U

Equipment ID No. <u>TCV-1CH-144</u> Equip. Class 7. Pneumatic-Operated Valve

TCV-1CH-144

Equipment Description



File Name: 2-61-1-1-41.jpeg Description: Component Plate ID



File Name: 2-62-1-1-41.jpeg Description: General view of component



Status: 🕅 N U

Equipment ID No. <u>TCV-1CH-144</u> Equip. Class 7. Pneumatic-Operated Valve

Equipment Description

TCV-1CH-144



File Name: 2-63-1-1-41.jpeg Description: View of flexible attached lines

Paul C. Rizzo Associates, Inc.			She	et 358 of	439
Seismic Walkdown Checklist (SWC)	Status:	\heartsuit	N	U	
Equipment ID No. <u>TI-1EE-301</u> Equip. Class 19. Temperature Sensor					
Equipment Description EE-Eg-1 Cooling Water To Engine Temperat					
Location: Bldg. DGBX Floor El. 735					
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)?
 Sensor found to be rigidly mounted on Diesel Generator.

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

Y N 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?

Paul ENGINE	C. Rizzo Associates, Inc.				Sh	eet 359 of 439
Seismic Walkdow	vn Checklist (SWC)		Status:	(N	U
Equipment ID No.	TI-1EE-301 Equip. Class 19. Temperature Sens	or				
Equipment Descrip	ption EE-Eg-1 Cooling Water To Engine Temperat			· · · · · · · ·	·····	
Interaction Effec	ts				-	
7 Are soft torgets	froe from impost by possibly againment or structures?		Y	·N		N/A
No interaction con	acern identified.				I	
			Y	N	U	N/A
8. Are overhead ed	quipment, 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	es have adequate flexibility to avoid damage?		X			
			Y	N	U	1
10. Based on the a of potentially a	bove seismic interaction evaluations, is equipment free dverse seismic interaction effects?		X			
Other Adverse C	onditions		-	<u></u>	-	
11. Have you look	ed for and found no other seismic conditions that could		Y	N	U	I
adversely affec	t the safety functions of the equipment?		X			
Comments (Addit	tional pages may be added as necessary)	- 44. gr. a.c.			-	
	Itte Michne Ir					
Evaluated by:	Eddie M. Guerra	Date:	10/1/2	012	-	
	They & Mary					

Date:



Status: 🕅 N U

 Equipment ID No.
 TI-1EE-301
 Equip. Class
 19. Temperature Sensor

 Equipment Description
 EE-Eg-1 Cooling Water To Engine Temperat



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



File Name: 2-62-1-1-19.jpeg Description: General view of component

Paul C. Rizzo Associates, Inc. ENGINEERS & CONSULTANTS			She	eet 361 of 439
Seismic Walkdown Checklist (SWC)	Status:	(N	U
Equipment ID No. <u>TRANS-1</u> -8N Equip. Class 4. Transformers				
Equipment Description 4160V/480V Transformer TRANS-1-8N to En	nergency Bus	··		
Location: Bldg. SRVB Floor El. 713				
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 equipmer 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)? Front and back of base welded to embed with 2" @ 8" of 3/16" welds. Componidentified to be bolted to adjacent LVSGR. Coils are anchored to heavy base we diam machine bolts. Adequate clearance identified between buses and housing 	nent vith 4-1" z.	X		
	Y	N	U	N/A
2. Is the anchorage free of bent, broken, missing or loose hardware?	<u>X</u>	I		
	Y	N	U	N/A
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	X			
	Y	N	U	<u>N/A</u>
4. Is the anchorage free of visible cracks in the concrete hear the anchors?	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
	Y	N	U	
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	X			

Paul C ENGINEER	C. Rizzo Associates, Inc. R5 & CONSULTANTS				She	eet 362 of 439
Seismic Walkdow	n Checklist (SWC)		Status:	\heartsuit	N	U
Equipment ID No.	TRANS-1-8N Equip. Class 4. Transformers					
Equipment Descrip	4160V/480V Transformer TRANS-1-8N to	Emergency	Bus			
Interaction Effect	s				-	
7. Are soft targets f	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 bloc	k walls not likely to collapse onto the equipment?					
9. Do attached lines	s have adequate flexibility to avoid damage?		Y X	<u>N</u>	U	N/A
10. Based on the ab	bove seismic interaction evaluations, is equipment free		Y X	N	U	
or potentially at						
Other Adverse Co 11. Have you looke adversely affect	enditions and found no other seismic conditions that could the safety functions of the equipment?		Y X	<u>N</u>	U	
Comments (Additi	ional pages may be added as necessary)				-	
	the Mahmadi					
Evaluated by:	Eddie M. Guerra	Date:	10/1/2	012	-	
	Shared Welling					

Date:





File Name: 2-61-12-1-25.jpeg Description: Component Plate ID



File Name: 2-62-12-1-25.jpeg Description: General view of component



Status: 🕅 N U

Seismic Walkdown Checklist (SWC)

Equipment ID No. <u>TRANS-1-8N</u> Equip. Class 4. Transform	ners
--	------

Equipment Description

4160V/480V Transformer TRANS-1-8N to Emergency Bus



File Name: 2-63-12-1-25.jpeg Description: View of base mounting frame configuration



File Name: 2-64-12-1-25.jpeg Description: View of flexible attached line

Paul C. Rizzo Associates, Inc. ENGINEERS & CONSULTANTS			Sh	eet 365 of 439
Seismic Walkdown Checklist (SWC)	Status:	(N	U
Equipment ID No. <u>TRANS-1-8N1</u> Equip. Class 4. Transformers				
Equipment Description 4160V/480V Transformer TRANS-1-8N1 to Emergence	cy Bus			
Location: Bldg. SRVB Floor El. 713				
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 results 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	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			
Housing anchored with 4-1/2" diam anchor bolts through angles at base which are welded to base of the TRFMR. Component bolted to adjacent 480V substation. 2" gap identified for door entry cage judged acceptable.				
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	N/A
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Y X	N	U	N/A
	LL	L		
5. Is the anchorage configuration consistent with plant documentation?	$\begin{array}{c} Y \\ \hline X \end{array}$	<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.) Calculation 52233-C-006 Anchorage Calc confirms anchorage configuration	<u>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u>			_
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	Y X	N	U	

Paul ENGINEE	C. Rizzo Associates, Inc.				Sh	eet 366 of 439
Seismic Walkdow	n Checklist (SWC)		Status:	\heartsuit	N	U
Equipment ID No.	TRANS-1-8N1 Equip. Class 4. Transformers					
Equipment Descrip	otion 4160V/480V Transformer TRANS-1-8N1 t	o Emergenc	ey Bus			
Interaction Effect	ts				•	
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 ec and masonry blo	uipment, distribution systems, ceiling tiles and lighting, ck walls not likely to collapse onto the equipment?		X			· .
			Y	N	U	N/A
9. Do attached line	es have adequate flexibility to avoid damage?		X			
10 Pased on the o	have saismin interaction avaluations, is equipment free		Y	N	U	
of potentially a	dverse seismic interaction effects?				I	
					-	
11. Have you look adversely affect	ed for and found no other seismic conditions that could t the safety functions of the equipment?		Y	N	U	
~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~			L		_	
Comments (Addit	ional pages may be added as necessary)					
	Total Mahman					
Evaluated by:	Eddie M. Guerra	_Date:	10/1/2	012	-	
	altern bertun					

Date:





File Name: 2-61-1-1-34.jpeg Description: Component Plate ID



File Name: 2-62-1-1-34.jpeg Description: General view of component



Status: 🕲 N U

Seismic Walkdown Checklist (SWC)

Equipment ID No. <u>TRANS-1-8N1</u> Equip. Class 4. Transformers

Equipment Description

4160V/480V Transformer TRANS-1-8N1 to Emergency Bus



File Name: 2-63-1-1-34.jpeg Description: General view of base mounting frame

Paul C. Rizzo Associates, Inc. ENGINEERS & CONSULTANTS			She	eet 369 of 439
Seismic Walkdown Checklist (SWC)	Status:	\odot	N	U
Equipment ID No. <u>TRANS-1</u> -9P Equip. Class 4. Transformers				
Equipment Description 4160V Bus 1DF to Emergency Bus 1P Transformer				
Location: Bldg. SRVB Floor El. 713				
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 results findings. Additional space is provided at the end of this checklist for documenting othe	n of equipmer ults of judgme r comments.	nt on the ents and		
Anchorage				
1. Is the anchorage configuration verification required (i.e., is the item one	Y	N X		
of the 50% of SWEL items requiring such verification)?				
Connected to steel base frame with $18-3/8$ " diam machine bolts. Base frame is welded to embed with 2" (a) 8" of $3/16$ " weld. Component was identified to be connected to adjacent SWGR. Coils are anchored to heavy base with $4-1$ " diam machine bolts.				
2 Is the anchorage free of bent broken missing or loose bardware?	Y	<u>N</u>	<u>U</u>	N/A
Verified to be connected to adjacent.				
	Y	<u>N</u>	<u> </u>	N/A
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	<u> </u>			
4. Is the anchorage free of visible cracks in the concrete near the anchors?		N	U	N/A
Spalled concrete identified on concrete pad. Judged not to be a seismic concern.	L			
	Y	N	<u>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
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	Y X	<u>N</u>	U	

Paul Paul	C. Rizzo Associates, Inc. R5 & CONSULTANTS				She	eet 370 of 439
Seismic Walkdow	n Checklist (SWC)		Status:	(Ν	U
Equipment ID No.	TRANS-1-9P Equip. Class 4. Transformers					
Equipment Descrip	4160V Bus 1DF to Emergency Bus 1P Transfe	ormer	· · · · · · · · · · · · · · · · · · ·			
Interaction Effect	s					
7. Are soft targets f	free from impact by nearby equipment or structures?	Ľ	Y X	N	U	<u>N/A</u>
8. Are overhead eq	uipment, distribution systems, ceiling tiles and lighting,	E	Y X	N	U	N/A
9. Do attached line	s have adequate flexibility to avoid damage?		Y X	N	U	N/A
10. Based on the ab of potentially ad	pove seismic interaction evaluations, is equipment free lverse seismic interaction effects?	[Y X	N	U	
Other Adverse Co 11. Have you looke adversely affect	enditions and 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)					
	- Adre Mahra Li					
Evaluated by:	Eddie M. Guerra	Date:	10/1/20	012	•	
	Stary Welling					

Date:

Paul C. Rizzo Associates, Inc. ENGINEERS & CONSULTANTS			She	et 371 of	2
Seismic Walkdown Checklist (SWC)	Status:	(N	U	
Equipment ID No. <u>TRANS-1</u> -9P Equip. Class 4. Transformers					
Equipment Description 4160V Bus 1DF to Emergency Bus 1P Transformer					



File Name: 2-61-7-1-26.jpeg Description: Component Plate ID



File Name: 2-62-7-1-26.jpeg Description: General view of component



Status: 🕲 N U

Seismic Walkdown Checklist (SWC)

Equipment ID No. TRANS-1-9P Equip. Class 4. Transformers

Equipment Description

4160V Bus 1DF to Emergency Bus 1P Transformer



File Name: 2-63-7-1-26.jpeg Description: General view of base mounting frame



File Name: 2-64-7-1-26.jpeg Description: General view of base mounting frame



Equip. Class 4. Transformers

Equipment Description

4160V Bus 1DF to Emergency Bus 1P Transformer



File Name: 2-73-7-1-26.jpeg Description:



File Name: 2-94-7-1-26.jpeg Description:

U

ENGINEERS & CONSULTANT	rs				
Seismic Walkdown Checklis	t (SWC)		Status:	\heartsuit	N
Equipment ID No. TRF-101	5 Equip. Class	4. Transformers			
Equipment Description	Vital Bus #1 Aux	PWR Supply Static Line 48	0V/120V AC Volt	tage Reg	ulator
Location: Bldg. SRVB	Floor El.	713			
Manufacturer, Model, Etc.					

Anchorage

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

Y	N
	X

- 4-3/4" diam anchor bolts identified through inverted base channel. Separation with adjacent panels judged to be adequate (~10").
- 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 374 of 439

U N/A Y Ν X N/A U Ν Y x U N/A Y Ν X N/A Ν U Х



Paul C. Rizzo Associates, Inc. ENCINEERS & CONSULTANTS						eet 375 of 439
Seismic Walkdov	vn Checklist (SWC)		Status:	\heartsuit	N	U
Equipment ID No	. <u>TRF-1015</u> Equip. Class 4. Transformers					
Equipment Descri	vital Bus #1 Aux PWR Supply Static L	Line 480V/1	120V AC Vol	tage Reg	ulator	
Interaction Effec	ets		V	N	TT	NI/A
7. Are soft targets	free from impact by nearby equipment or structures?			IN		
			Y	N	U	N/A
8. Are overhead e and masonry blo Block wall SB-1-1	quipment, distribution systems, ceiling tiles and lighting, ock walls not likely to collapse onto the equipment? I has been qualified per IE 80-11 review.		X		[
9. Do attached lin Flexible attached	es have adequate flexibility to avoid damage? lines judged to be adequate.		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	
Other Adverse C	Conditions ked for and found no other seismic conditions that could		Y	N	- 	
adversely affect	ct the safety functions of the equipment?					
Comments (Addi	itional pages may be added as necessary)					
	atter Mehra I					
Evaluated by:	Eddie M. Guerra	Date:	10/1/2	012	- 1.	
	(hay) & effern	,				

Date:





File Name: 2-61-7-1-25.jpeg Description: Component Plate ID



File Name: 2-62-7-1-25.jpeg Description: General view of component



 (\mathbf{Y}) Status: Ν U

Seismic Walkdown Checklist (SWC)

Equipment ID No. TRF-1015 Equip. Class 4. Transformers

Equipment Description

Vital Bus #1 Aux PWR Supply Static Line 480V/120V AC Voltage Regulator



File Name: 2-63-7-1-25.jpeg Description: View of channel mounting base



File Name: 2-64-7-1-25.jpeg Description: Close up view of channel base with anchor bolts



1 N U Status:

Seismic Walkdown Checklist (SWC)

Equipment ID No. TRF-1015 Equip. Class 4. Transformers

Equipment Description

Vital Bus #1 Aux PWR Supply Static Line 480V/120V AC Voltage Regulator



File Name: 2-73-7-1-25.jpeg Description: Block wall identified in the vicinity of the component

Paul C. Rizzo Ass ENGINEERS & CONSULTANT	sociates, Inc.				She	et 379 of 439
Seismic Walkdown Checklist	(SWC)		Status:	\odot	N	U
Equipment ID No. TRS-BIP	PNL1 Equip. Class	20. Instrument and Control Par	nels			
Equipment Description	Backup Indicating Pa	nel Transfer Switch				
Location: Bldg. SFGB	Floor El.	735				
Manufacturer, Model, Etc.						
Instructions for Completing This checklist may be used to c SWEL. The space below each findings. Additional space is pr	Checklist locument the results of of the following question ovided at the end of th	the Seismic Walkdown of an ite ons may be used to record the re- is checklist for documenting oth	em of equipme sults of judgm er comments.	nt on the ents and		
Anchorage			v	N		
1. Is the anchorage configuration of the 50% of SWEL items r	on verification required equiring such verificat	d (i.e., is the item one ion)?		X		
Wall mounted panel (~36"x36' welds (on each side). Each 3/8	"x10") welded on sides " plate is anchored to v	to 3/8" plates with ~18" of 1/8" wall with 4-3/8" anchor bolts.				
2. Is the anchorage free of bent	, broken, missing or lo	ose hardware?	Y X	N	U	N/A
3. Is the anchorage free of corr oxidation?	osion that is more than	mild surface	Y X	N	U	N/A
4. Is the anchorage free of visit	ole cracks in the concre	ete near the anchors?	Y X	N	U	N/A
5. Is the anchorage configuration	on consistent with plan	t documentation?	Y	N	U	N/A X
(Note: This question only ap which an anchorage config	plies if the item is one uration verification is r	ot the 50% for required.)				
6. Based on the above anchora	ge evaluations, is the a	nchorage free of	Y X	N	<u>U</u>	
 5. Is the anchorage configuration (Note: This question only approximate which an anchorage configuration of the anchorage configuration of the above anchorage potentially adverse seismic of the seismic of th	on consistent with plan plies if the item is one uration verification is r ge evaluations, is the an conditions?	t documentation? of the 50% for required.) nchorage free of	Y X	N		U

Paul ENGIN	C. Rizzo Associates, Inc.				She	eet 380 of 439
Seismic Walkdow	vn Checklist (SWC)		Status:	\odot	N	U
Equipment ID No	. TRS-BIP-PNL1 Equip. Class 20. Instrument and C	Control Pane	ls			
Equipment Descr	ption Backup Indicating Panel Transfer Switch	<u> </u>				
Interaction Effec	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 blo	quipment, distribution systems, ceiling tiles and lighting, ock walls not likely to collapse onto the equipment?		X			
9. Do attached lin	es have adequate flexibility to avoid damage?		Y X	N	U	N/A
			Y	N	U	
10. Based on the a of potentially a	above seismic interaction evaluations, is equipment free udverse seismic interaction effects?		X			
Other Adverse C 11. Have you look	Conditions Red for and found no other seismic conditions that could		Y	N	U	
adversely affe	et the safety functions of the equipment?		X			
Comments (Addi	tional pages may be added as necessary)		. <u></u>			
	Etter Mahra Ir					
Evaluated by:	Eddie M. Guerra	_Date:	10/1/2	012		
	There Deffere					
	Adam L. Helffrich	Date:	10/1/2	012	_	


Seismic Walkdown Checklist (SWC)

Equipment ID No. TRS-BIP-PNL1 Equip. Class 20. Instrument and Control Panels

Equipment Description

Backup Indicating Panel Transfer Switch



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



File Name: 2-62-1-1-23.jpeg Description: General view of component





File Name: 2-63-1-1-23.jpeg Description: View of wall mounting configuration



File Name: 2-64-1-1-23.jpeg Description: View of top entry conduits





File Name: 2-73-1-1-23.jpeg Description: View of flexible attached line from bottom of panel

Paul C. Rizzo Associates, Inc. ENGINEERS & CONSULTANTS			She	et 384 of 439
Seismic Walkdown Checklist (SWC)	Status:	\heartsuit	N	U
Equipment ID No. <u>TV-1BD-100A</u> Equip. Class 7. Pneumatic-Operated Valve				
Equipment Description STM GEN 1A Blowdown Trip Valve				
Location: Bldg. SFGB Floor El. 722				
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 result findings. Additional space is provided at the end of this checklist for documenting othe	n of equipmen ults of judgme r comments.	nt on the ents and		
Anchorage	v	N		
1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWFL items requiring such verification)?		X		
Valve monted on $\sim 6''$ diam pipe line. Pipe is well supported within (+/-) ~ 3 ft of valve.				
2. Is the anchorage free of bent broken, missing or loose bordward?	<u>Y</u>	<u>N</u>	U	N/A
2. is the anchorage free of bent, broken, missing of loose hardware?	L	1		
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	Y	<u>N</u>	U	N/A X
Slight surface rust visible at bottom of the yoke and judged acceptable.				
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.)	Le			
6. Based on the above anchorage evaluations, is the anchorage free of	Y X	N	U	
potentially adverse seismic conditions?				

Paul C ENGINEER	C. Rizzo Associates, Inc.			Sh	eet 385 of 439
Seismic Walkdown	Checklist (SWC)	Status	:: Ŷ	N	U
Equipment ID No.	TV-1BD-100A Equip. Class 7. Pneumatic-Operated Va	lve			
Equipment Descript	ion STM GEN 1A Blowdown Trip Valve				
Interaction Effects					
7 Ann anft transite f	from improved to an improve of the second	Y	<u>N</u>	U	N/A
/. Are son targets in	ree from impact by nearby equipment or structures?	X			
		Y	N	U	N/A
8. Are overhead equ	ipment, distribution systems, ceiling tiles and lighting,	X			
and masonry bloc	k walls not likely to collapse onto the equipment?				
		Y	<u>N</u>	U	N/A
9. Do attached lines	have adequate flexibility to avoid damage?	<u> </u>			
		Y	N	U	
10. Based on the ab of potentially adv	ove seismic interaction evaluations, is equipment free verse seismic interaction effects?	X]
Other Adverse Co	nditions			_	
11. Have you looked	d for and found no other seismic conditions that could	Y	<u>N</u>	U	1
adversery affect	the safety functions of the equipment?		1		l
Comments (Additio	onal pages may be added as necessary)		<u> </u>	_	
	atter Mehren i				
Evaluated by:	Eddie M. Guerra Date	e: <u>10/1</u>	/2012	_	
	(Inca) Deflecu				

Date:



Status: 🕅 N U

Equipment ID No. <u>TV-1BD-100A</u> Equip. Class 7. Pneumatic-Operated Valve

Equipment Description

STM GEN 1A Blowdown Trip Valve



File Name: 2-61-1-1-38.jpeg Description: Component Plate ID



File Name: 2-62-1-1-38.jpeg Description: General view of component



Equipment Description

STM GEN 1A Blowdown Trip Valve



File Name: 2-63-1-1-38.jpeg Description: Slight corrosion identified on vlave

Paul C. Rizzo ENCINEERS & CONSULT	Associates, Inc.				She	et 388 of 4	139
Seismic Walkdown Checkl	list (SWC)		Status:	\heartsuit	N	U	
Equipment ID No. <u>TV-1C</u>	CV-102 Equip. Clas	ss 8B. Solenoid Valve					
Equipment Description	CNMT Active Mor	nitor DISCH CNMT ISOL			·····		
Location: Bldg. SFGB	Floor El.	722					
Manufacturer, Model, Etc.							
	<u> </u>	······································			-		

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 ~ 1.5 " line. Pipe supported off of floor on both sides of the valve (@,~10").

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?



N

Y	N	U	N/A
			X
Y	Ν	U	N/A
			X
Y	N	U	N/A
			X
Y	<u>N</u>	<u> </u>	N/A
			X



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

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.)

Paul ENGINE	C. Rizzo Associates, Inc.				Sh	eet 389 of 439
Seismic Walkdow	n Checklist (SWC)		Status:	\heartsuit	Ν	U
Equipment ID No.	TV-1CV-102 Equip. Class 8B. Solenoid Valve					
Equipment Descri	ption CNMT Active Monitor DISCH CNMT ISO	L				• •
Interaction Effec	ts					
7 Are soft torgets	free from import by peerby equipment or structures?		Y	N	U	N/A
7. Are sont targets	thee from impact by hearby equipment or structures?					
			Y	N	U	N/A
8. Are overhead ed	quipment, distribution systems, ceiling tiles and lighting,		X			
and masonry blo	ck walls not likely to collapse onto the equipment?					
			Y	<u>N</u>	U	N/A
9. Do attached line Attached lines ide	es have adequate flexibility to avoid damage? ntified with adequate flexibility	-	<u> </u>			
			Y	N	U	
10. Based on the a	bove seismic interaction evaluations, is equipment free		X			
or potentially a	averse seismic interaction effects?					
Other Adverse C	onditions					
11. Have you look	ed for and found no other seismic conditions that could		Y	<u>N</u>	U	l
adversely affec	t the safety functions of the equipment?		<u> </u>			
Comments (Addit	tional pages may be added as necessary)	<u></u>				
	Etter Mahmadi					
Evaluated by:	Eddie M. Guerra	_Date:	10/1/2	012		
	(Inna) Deflace					

Г

Date:



Equipment ID No. <u>TV-1CV-102</u> Equip. Class 8B. Solenoid Valve

Equipment Description

CNMT Active Monitor DISCH CNMT ISOL



File Name: 2-61-2-1-38.jpeg Description: Component Plate ID



File Name: 2-62-2-1-38.jpeg Description: General view of component



Seismic Walkdown Checklist (SWC)

Equipment ID No. <u>TV-1CV-102</u> Equip. Class 8B. Solenoid Valve

Equipment Description

CNMT Active Monitor DISCH CNMT ISOL



File Name: 2-63-2-1-38.jpeg Description: View of line supports location relative to valve

Paul C ENGINEER	C. Rizzo As: rs & consultant	sociates, Inc.						She	et 392 of	4
Seismic Walkdow	n Checklist	(SWC)			Statu	ıs: C	Ŷ	N	U	
Equipment ID No.	TV-1CV-	150B Equip	. Class 8B. Se	olenoid Valve						
Equipment Descrip	tion	CNMT VAC	PP 1B CNMT I	ISOL, TV-CV-1	50B					
Location: Bldg.	SFGB	Floor	El. <u>722</u>							
Manufacturer, Mod	lel, 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 solenoid valve on $\sim 2''$ diam pipe. Pipe is well suported near the 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?
- 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?





Paul ENGINE	C. Rizzo Associates, Inc.				Sh	eet 393 of 439
Seismic Walkdov	vn Checklist (SWC)		Status:	\odot	N	U
Equipment ID No	. <u>TV-1CV-150B</u> Equip. Class 8B. Solenoid Valve					
Equipment Descri	ption CNMT VAC PP 1B CNMT ISOL, TV-CV-15	50B				
Interaction Effect	ts					
		1	<u>Y</u>	N	U	N/A
7. Are soft targets	free from impact by nearby equipment or structures?		<u>X</u>			
			Y	N	U	N/A
8. Are overhead e	quipment, distribution systems, ceiling tiles and lighting,		X			
and masonry bro	wans not likely to conapse onto the equipment?					
			<u>Y</u>	N	U	N/A
9. Do attached lin Attached lines ide	es have adequate flexibility to avoid damage? <i>ntified with adequate flexibility</i> .		X			
			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	Conditions					
11. Have you look adversely affect	ted for and found no other seismic conditions that could the safety functions of the equipment?		Y X	N	U	
, ,						
Comments (Addi	tional pages may be added as necessary)					
	Atter Mehne It					
Evaluated by:	Eddie M. Guerra	Date:	10/1/20	012		
	Steen & Alexan					

Date:



Status: 🕅 N U

Equipment ID No. <u>TV-1CV-150B</u> Equip. Class 8B. Solenoid Valve

Equipment Description

CNMT VAC PP 1B CNMT ISOL, TV-CV-150B



File Name: 2-61-2-1-37.jpeg Description: Component Plate ID



File Name: 2-62-2-1-37.jpeg Description: General view of component

Paul C. Rizzo Ass ENCINEERS & CONSULTANT	sociates, Inc.				Sh	eet 395 of 439
Seismic Walkdown Checklist	: (SWC)		Status:	\mathbf{v}	N	U
Equipment ID No. <u>TV-1MS-</u>	-101C Equip. Class	7. Pneumatic-Operated Valve				
Equipment Description	Loop 1C Main Steam	1 Trip Vavle				
Location: Bldg. SFGB	Floor El.	768				
Manufacturer, Model, Etc.						
Instructions for Completing of This checklist may be used to a SWEL. The space below each findings. Additional space is pr	Checklist document the results o of the following quest rovided at the end of th	f the Seismic Walkdown of an it ions may be used to record the re nis checklist for documenting ot	em of equipme esults of judgm her comments.	nt on the ents and		
Anchorage			Y	N		
1. Is the anchorage configuration of the 50% of SWEL items r Side mounted on large pipe four short writes)	on verification require requiring such verifica and in good condition.	d (i.e., is the item one tion)? (This valve is a power assisted		X		
check valve)			Y	N	U	N/A
2. Is the anchorage free of bent	t, broken, missing or lo	oose hardware?				Х
3. Is the anchorage free of corr	osion that is more that	n mild surface	Y	N	U	N/A X
oxidation? Slight surface corrosion identij	fied.		L.	L		<u>, </u>
4 Is the anchorage free of visit	ble cracks in the concr	ete near the anchors?	Y	N	U	N/A x
in to the unenotage free of visit	the endexs in the coner	ete near the anenors:	L I			
5. Is the anchorage configuration	on consistent with plar	nt documentation?	Y	N	U	N/A X
(Note: This question only ap which an anchorage config	pplies if the item is one uration verification is	e of the 50% for required.)	L			LJ
(Deceden the short of the			Y	N	U	1
o. Dased on the above anchorage	ge evaluations, is the a	inchorage free of				1

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

Paul Paul	C. Rizzo Associates, Inc. RS & CONSULTANTS				Sh	eet 396 of 439
Seismic Walkdow	n Checklist (SWC)		Status:	\heartsuit	Ν	U
Equipment ID No.	TV-1MS-101C Equip. Class 7. Pneumatic-Operated	Valve				
Equipment Descrip	tion Loop 1C Main Steam Trip Vavle		· · ·			
Interaction Effect	S				-	
7. Are soft targets f	ree from impact by nearby equipment or structures?	[Y X	N	U	N/A
			Y	N	U	N/A
8. Are overhead eq and masonry bloc	uipment, distribution systems, ceiling tiles and lighting, k walls not likely to collapse onto the equipment?		X			
						x
9. Do attached line	s have adequate flexibility to avoid damage?	[Y X	N	U	N/A
mucheu mes iden	inica win adequate nexionity.		Y	N	U	
10. Based on the ab of potentially ad	ove seismic interaction evaluations, is equipment free verse seismic interaction effects?	[X			
Other Adverse Co	- distance					
11. Have you looke adversely affect	the safety functions of the equipment?	[Y X	N	U	
Comments (Additi	onal pages may be added as necessary)				-	
	Etter Michan Li					
Evaluated by:	Eddie M. Guerra	Date:	10/1/20	012		
	Blace Dellar					

Date:



Status: 🕅 N U

Equipment ID No. TV-1MS-101C Equip. Class 7. Pneumatic-Operated Valve

Equipment Description

Loop 1C Main Steam Trip Vavle



File Name: 2-61-5-1-32.jpeg Description: Component Plate ID



File Name: 2-62-5-1-32.jpeg Description: General view of component

Paul C. Rizzo Associates, Inc. ENCINEERS & CONSULTANTS			She	eet 398 of 439
Seismic Walkdown Checklist (SWC)	Status:	(N	U
Equipment ID No. <u>TV-1MS-105A</u> Equip. Class 7. Pneumatic-Operated Valve				
Equipment Description AFW Turb Steam SUP A TRN Trip Valve				
Location: Bldg. SFGB Floor El. 747				
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 the space of the spac	of equipme s of judgme comments.	nt on the ents and		
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		
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? <i>Valve found in good condition.</i>	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	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>U</u>	

Paul C ENGINEERS	2. Rizzo Associates, Inc.				Sh	eet 399 of 439
Seismic Walkdown	Checklist (SWC)		Status:	(Y)	Ν	U
Equipment ID No.	TV-1MS-105A Equip. Class 7. Pneumatic-Operated	Valve				
Equipment Descript	ion AFW Turb Steam SUP A TRN Trip Valve					
Interaction Effects			44 martine			
7 • • • • •		г	Y	N	U	N/A
7. Are soft targets fr	ee from impact by nearby equipment or structures?		X			
			Y	N	U	N/A
8. Are overhead equ	ipment, distribution systems, ceiling tiles and lighting,		X		U	
and masonry bloc	c walls not likely to collapse onto the equipment?	_				
		F	Y	N	U	N/A
9. Do attached lines <i>Attached lines ident</i>	have adequate flexibility to avoid damage? ified with adequate flexibility.	L	X			
			Y	N	U	
10. Based on the abo of potentially adv	ove seismic interaction evaluations, is equipment free verse seismic interaction effects?	[X			
Other Adverse Con	nditions			N	TT	
adversely affect	the safety functions of the equipment?	Γ	X		Ū	
Comments (Additio	onal pages may be added as necessary)					
	Etter Michna I					
Evaluated by:	Eddie M. Guerra	Date:	10/1/20	012		
	(Bury) & Marine					

Date:



Seismic Walkdown Checklist (SWC)

Equipment ID No. <u>TV-1MS-105A</u> Equip. Class 7. Pneumatic-Operated Valve

Equipment Description

AFW Turb Steam SUP A TRN Trip Valve



File Name: 2-61-6-1-32.jpeg Description: Component Plate ID



File Name: 2-62-6-1-32.jpeg Description: General view of component



Seismic Walkdown Checklist (SWC)

Equipment ID No. <u>TV-1MS-105A</u> Equip. Class 7. Pneumatic-Operated Valve

Equipment Description

AFW Turb Steam SUP A TRN Trip Valve



File Name: 2-63-6-1-32.jpeg Description: View of flexible attached lines

Paul C. Rizzo As ENGINEERS & CONSULTANT	ssociates, Inc.				Sh	eet 402 of 439
Seismic Walkdown Checklist	t (SWC)		Status:	(N	U
Equipment ID No. VB-A	Equip. Class	20. Instrument and Control Panel	ls			
Equipment Description	Control Room				······································	
Location: Bldg. SRVB	Floor El.	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 results of of the following question rovided at the end of th	the Seismic Walkdown of an item ons may be used to record the resul is checklist for documenting other	of equipme Its of judgm comments.	ent on the lents and		
Anchorage						
1. Is the anchorage configurati	on verification required	(i.e., is the item one	Y	N X		
of the 50% of SWEL items to Panel welded at base to embed identified which provides reinj anchored with 2-3/8" diam and	requiring such verificati d with 2" @ 6" spacing forcement to the front m chor bolts. Posts are sp	ion)? (1/4" fillet). Middle post support wounting panel. These posts are aced at ~4'-6".				
			<u>Y</u>	N	U	N/A
2. Is the anchorage free of ben	t, broken, missing or loo	ose hardware?	X			
2 Is the anchorage free of some	racion that is many than		<u>Y</u>	N	U	N/A
oxidation?	losion that is more than					
			Y	N	U	N/A
4. Is the anchorage free of visit	ble cracks in the concre	te near the anchors?	X			
5 In the analysings configuration	on consistent with alors	۲	<u>Y</u>	N	U	N/A
(Note: This question only ap which an anchorage config	pplies if the item is one optimized on the providence of the item is one optimized on the providence of the providence o	of the 50% for equired.)				
			Y	N	U	
6. Based on the above anchora potentially adverse seismic	ge evaluations, is the ar conditions?	nchorage free of	X			I .

Pau ENCIN	l C. Rizzo As eers & consultant	sociates, Inc.					She	eet 403 of 439
Seismic Walkdov	wn Checklist	t (SWC)			Status:	(N	U
Equipment ID No	o. <u>VB-A</u>	Equip. Class	20. Instrument and	Control Panels				
Equipment Descr	iption	Control Room			<u> </u>			
Interaction Effe	ets				<u></u>		•	
7 Are soft target	fraa fram in	most by nearby equipm	ont or structures?	г	Y	N	U	N/A
7. Are son targets	s free from in	ipact by nearby equipm	ient or structures?	L	<u> </u>			
					Y	N	U	N/A
8. Are overhead e	quipment, di	stribution systems, ceili	ing tiles and lighting,		X			
ceiling tile (i.e., e tie wraps. Judge	ock walls not ling's main ru ge grating) is d no interacti	likely to collapse onto unners are supported by s tied to the main runne fon concern.	the equipment? w wires at ~4' spacing ers at each of its four of	Each	Y	N	U	N/A
9. Do attached lin	es have adeq	uate flexibility to avoid	l damage?		Х			
10. Based on the of potentially a	above seismio adverse seism	c interaction evaluation nic interaction effects?	s, is equipment free	C	Y X	N	U	
Other Adverse (11. Have you lool adversely affe	C onditions ked for and fo ct the safety f	ound no other seismic c functions of the equipm	onditions that could ent?	Ľ	Y X	N	U	
Comments (Add	itional pages	may be added as necess	sary)		. <u></u> .			
		tete Mahne Ir						
Evaluated by:	Eddie M.	Guerra		_Date: _	10/1/2	012		
	Sheery	10 Abren						
	Adam L.	Helffrich		Date:	10/1/2	012		



Seismic Walkdown Checklist (SWC)

Equip. Class 20. Instrument and Control Panels

Equipment ID No. VB-A

Control Room

Equipment Description



File Name: 2-61-6-1-18.jpeg Description: General view of component



File Name: 2-62-6-1-18.jpeg Description: General view of instrumentation inside control panel





File Name: 2-63-6-1-18.jpeg Description: Welded detail between panel housing and embeddment



File Name: 2-64-6-1-18.jpeg Description: View of mid posts inside panel providing support to front mounting panel

Paul C. Rizzo Associates, Inc.			Sheet	406 of 43
Seismic Walkdown Checklist (SWC)	Status:	\odot	N	U
Equipment ID No. VS-AC-1A-BLOWER Equip. Class 10. Air Handlers				
Equipment Description Control Room Air Handling Unit Supply				
Location: Bldg. SRVB Floor El. 713				
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 equipment of solution of judgment comments.	on the s and		
Anchorage	17	NT		
 Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Blower located on top of steel platform mounted on vibration isolator with adequate lateral/vertical restraint. Platform is top braced to surounding 3 walls. 	Y	N X		
	Y	N	U	N/A
2. Is the anchorage free of bent, 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?				
	Y	N	U	N/A
4. Is the anchorage free of visible cracks in the concrete near the anchors?	X			
	<u>г Ү</u>	N	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.) 	L			X
	Y	N	U	
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	X			

Paul C. Rizzo Associates, Inc. ENCINEERS & CONSULTANTS				Sheet 4	407 of 439
Seismic Walkdown Checklist (SWC)		Status:		N	U
Equipment ID No. VS-AC-1A-BLOWER Equip. Class 10. Air Handlers					
Equipment Description Control Room Air Handling Unit Supply					
Interaction Effects					27/4
7. Are soft targets free from impact by nearby equipment or structures?		Y X	<u>N</u>		
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 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	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)					
atter Mahmen 1 x					
Evaluated by: Eddie M. Guerra	Date:	10/1/2	012		
They & Alan					

Date:



Status: 🕅 N U

Equipment ID No. VS-AC-1A-BLOWER Equip. Class 10. Air Handlers

Equipment Description

Control Room Air Handling Unit Supply



File Name: 2-61-1-1-06.jpeg Description: Component Plate ID



File Name: 2-62-1-1-06.jpeg Description: General view of component



Equipment ID No. VS-AC-1A-BLOWER Equip. Class 10. Air Handlers

Equipment Description

Control Room Air Handling Unit Supply



File Name: 2-63-1-1-06.jpeg Description: View of beam mounting detail

Science Walkdown Checklist (SWC) Status:	410 of 43
Equipment ID No. VS-D-22-2C Equip. Class 0. Other Equipment Description Diesel Generator BLDG. O.A. Intake Damper:	U
Equipment Description Diesel Generator BLDG: O.A. Intake Damper Location: Bldg. DGBX Floor El. 735 Manufacturer, Model, Etc.	
Location: Bldg. DGBX Flor El. 735 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. Anchorage N I. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Damper actuator rigidly supported off the wall and top of the door frame. Damper framing anchored to perimeter walls with 14-1/2" diam anchor holts. Linkage between operator and damper is unobstructed and there is no potential interaction issues. 2. Is the anchorage free of bent, broken, missing or loose hardware? Y N U I 4. Is the anchorage free of corrosion that is more than mild surface oxidation? Y N U I 5. Is the anchorage free of visible cracks in the concrete near the anchors? Y N U I 6. Based on the above anchorage evaluations, is the anchorage free of Y N U I 6. Based on the above anchorage evaluations, is the anchorage free of Y N U I	
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)? Y N Damper actuator rigidly supported off the wall and top of the door frame. Damper framing anchored to perimeter walls with 14-1/2" diam anchor bolts. Linkage between operator and damper is unobstructed and there is no potential interaction issues. Y N U Y 2. Is the anchorage free of bent, broken, missing or loose hardware? Y N U I 3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y N U I 4. Is the anchorage free of visible cracks in the concrete near the anchors? Y N U I 5. Is the anchorage configuration onsistent with plant documentation? Y N U I 6. Based on the above anchorage evaluations, is the anchorage free of Y N U I 6. Based on the above anchorage evaluations, is the anchorage free of Y	
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)? Y N Damper actuator rigidly supported off the wall and top of the door frame. Damper framing anchored to perimeter walls with 14-1/2" diam anchor bolts. Linkage between operator and damper is unobstructed and there is no potential interaction issues. Y N U I 2. Is the anchorage free of bent, broken, missing or loose hardware? Y N U I 3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y N U I 4. Is the anchorage free of visible cracks in the concrete near the anchors? Y N U 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 U I 6. Based on the above anchorage evaluations, is the anchorage free of W U I I I	
1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Image: Configuration configuration consistent with plant documentation? Damper actuator rigidly supported off the wall and top of the door frame. Damper framing anchored to perimeter walls with 14-1/2" diam anchor bolts. Linkage between operator and damper is unobstructed and there is no potential interaction issues. 2. Is the anchorage free of bent, broken, missing or loose hardware? Y N U Image: Configuration consistent with plant documentation? 3. Is the anchorage free of visible cracks in the concrete near the anchors? Y N U Image: Configuration consistent with plant documentation? 5. Is the anchorage configuration consistent with plant documentation? Y N U Image: Configuration verification is required.) 6. Based on the above anchorage evaluations, is the anchorage free of with the above anchorage evaluations, is the anchorage free of with the above anchorage evaluations, is the anchorage free of with the above anchorage evaluations, is the anchorage free of the state of the st	
Damper actuator rigidly supported off the wall and top of the door frame. Damper framing anchored to perimeter walls with 14-1/2" diam anchor bolts. Linkage between operator and damper is unobstructed and there is no potential interaction issues. 2. Is the anchorage free of bent, broken, missing or loose hardware? Y N U I 3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y N U I 4. Is the anchorage free of visible cracks in the concrete near the anchors? Y N U 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 U I 6. Based on the above anchorage evaluations, is the anchorage free of Y N U I	
Y N U 2. Is the anchorage free of bent, broken, missing or loose hardware? Y N U 3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y N U I 4. Is the anchorage free of visible cracks in the concrete near the anchors? Y N U 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 U I 6. Based on the above anchorage evaluations, is the anchorage free of contraction is required.) Y N U I	
 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 extended by the anachorage evaluations, is the anchorage free of the above anchorage evaluations, is the anchorage free of the above anchorage evaluations. 	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 x 	<u> </u>
 Solution and the antibility of the intervention of the solution of th	N/A X
 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 activity of the above anchorage evaluations, is the anchorage free of activity of the above anchorage evaluation. 	
 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 X 	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 x 	<u>_X</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.) 6. Based on the above anchorage evaluations, is the anchorage free of X 	N/A
6. Based on the above anchorage evaluations, is the anchorage free of X	<u> </u>
6. Based on the above anchorage evaluations, is the anchorage free of X	
potentially adverse seismic conditions?	

Paul C. Rizzo Associates, Inc. ENCINEERS & CONSULTANTS					She	eet 411 of 439
Seismic Walkdow	vn Checklist (SWC)		Status:	\heartsuit	N	U
Equipment ID No.	VS-D-22-2C Equip. Class 0. Other					
Equipment Descri	ption Diesel Generator BLDG. O.A. Intake Dampe	er				
Interaction Effec	ts				-	
7. Are soft targets	free from impact by nearby equipment or structures?		Y	N	U	N/A
,						
			Y	N	U	N/A
8. Are overhead e	quipment, distribution systems, ceiling tiles and lighting,		X			-
and masoning bic	the wants not nicely to contapse onto the equipment.					
			Y	N	U	N/A
9. Do attached line	es have adequate flexibility to avoid damage?		X			
Attached lines have adequate flexibility.						
10. Based on the a	bove seismic interaction evaluations, is equipment free		Y X	<u>N</u>		
of potentially a	dverse seismic interaction effects?					
Other Adverse C	onditions		<u></u>		-	
11. Have you look	ed for and found no other seismic conditions that could t the sofety functions of the equipment?		Y	N	U	
auversery arrec	t the safety functions of the equipment?					
Comments (Addi	tional pages may be added as necessary)				-	
	Tetter Myhne Ir					
Evaluated by:	Eddie M. Guerra	Date:	10/1/20	012	_	
	Charge Dellarge					

Date:



Status: 🕲 N U

Equipment ID No. VS-D-22-2C Equip. Class 0. Other

Equipment Description

Diesel Generator BLDG. O.A. Intake Damper



File Name: 2-61-1-1-21.jpeg Description: Component Plate ID



File Name: 2-62-1-1-21.jpeg Description: General view of component

Paul C. Rizzo Associates, Inc. ENGINEERS & CONSULTANTS			
Seismic Walkdown Checklist (SWC)	Status:	🕅 N U	
Equipment ID No. <u>VS-D-57A1</u> Equip. Class 7. Pneumatic-Op	perated Valve		
Equipment Description A-Cubicle Supply Damper			
Location: Bldg. INTS Floor El. 705			
Manufacturer, Model, Etc.			
Instructions for Completing Checklist This checklist may be used to document the results of the Seismic Walk SWEL. The space below each of the following questions may be used to findings. Additional space is provided at the end of this checklist for do	down of an item of equipment o record the results of judgmen ocumenting other comments.	on the ts and	
Anchorage			
1. Is the anchorage configuration verification required (i.e., is the item of the 50% of SWEL items requiring such verification)?	one Y	N X	

Damper well supported from ceiling and wall. Operator attached to strut channels with 4-1/4" diam machine bolts. Channels connected to concrete with 4-1/4" diam anchor bolts. Linkage has no obstruction and no interaction in the vicinity.

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?



U

N/A

Ν

Y



Paul EVENE	C. Rizzo Associates, Inc.				Sh	eet 414 of 439
Seismic Walkdow	/n Checklist (SWC)		Status:	\bigotimes	N	U
Equipment ID No.	VS-D-57A1 Equip. Class 7. Pneumatic-Operated	Valve				
Equipment Descri	ption A-Cubicle Supply Damper					• •
Interaction Effec	ts				-	27/4
7. Are soft targets	free from impact by nearby equipment or structures?	[Y X	N	0	N/A
		_	Y	N	U	N/A
8. Are overhead ed and masonry blo	quipment, distribution systems, ceiling tiles and lighting, ck walls not likely to collapse onto the equipment?	L	X		L	
			Y	N	U	N/A
9. Do attached line	es have adequate flexibility to avoid damage?	[Х			
10 Based on the a	have saismin interaction evaluations, is equipment free	Г	Y	N	U	•
of potentially a	dverse seismic interaction effects?	L	<u> </u>		<u> </u>	
Other Adverse C	onditions	<u> </u>			-	
11. Have you look adversely affec	ed for and found no other seismic conditions that could t the safety functions of the equipment?	Γ	Y X	N	U	
Commonte (Addit	in the state of th				-	
Comments (Addit	nonal pages may be added as necessary)					
	atter Mehne Li					
Evaluated by:	Eddie M. Guerra	Date:	10/1/20	012	-	
	Strang & Aller					

Date:

Paul C. Rizzo Associates, Inc. ENGINEERS & CONSULTANTS				She	eet 415 of 4
Seismic Walkdown Checklist (SWC)		Status:	\odot	N	U
Equipment ID No. <u>VS-D-57B1</u> Equip. (Class 7. Pneumatic-Operated Valve	:			
Equipment Description B-Cubicle Supp	ly Damper				
Location: Bldg. INTS Floor El	l. <u>705</u>				
Manufacturer, Model, Etc.					
Instructions for Completing Checklist This checklist may be used to document the resu SWEL. The space below each of the following of findings. Additional space is provided at the end	ults of the Seismic Walkdown of an it questions may be used to record the r d of this checklist for documenting ot	tem of equipme esults of judgme her comments.	nt on the ents and		
Anchorage		v	N		
1. Is the anchorage configuration verification re- of the 50% of SWFL items requiring such year	quired (i.e., is the item one		X		
Damper well supported from ceiling and wall. C with 4-1/4" diam machine bolts. Channels conn- anchor bolts. Linkage has no obstruction and no	Dperator attached to strut channels ected to concrete with 4-1/4" diam o interaction in the vicinity.				
2. Is the anchorage free of bent, broken, missing	g or loose hardware?	Y	N	U	N/A X
3. Is the anchorage free of corrosion that is more oxidation?	e than mild surface	Y	N	U	N/A X
Childuiton.					
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	h plant documentation?	Y	N	U	N/A X
(Note: This question only applies if the item i which an anchorage configuration verification	is one of the 50% for on is required.)	L L.			
6. Based on the above anchorage evaluations, is	the anchorage free of	Y	<u>N</u>	U	
potentially adverse seismic conditions?	0	L			

Paul C ENCINEER	C. Rizzo Associates, Inc. 18 & consultants				She	et 416 of 439
Seismic Walkdowr	n Checklist (SWC)	Stat	us: (Ý	N	U
Equipment ID No.	VS-D-57B1 Equip. Class 7. Pneumatic-Operated	Valve				
Equipment Descrip	tion B-Cubicle Supply Damper			·····		
Interaction Effects	5					
7. Are soft targets f	ree from impact by nearby equipment or structures?	Y X		N	U	N/A
8. Are overhead equ	upment, distribution systems, ceiling tiles and lighting,	Y		N	U	N/A
and masonry bloc	k walls not likely to collapse onto the equipment?					
9. Do attached lines	s have adequate flexibility to avoid damage?	Y X		N	U	N/A
		Y	-	N	U	
10. Based on the ab of potentially ad	ove seismic interaction evaluations, is equipment free verse seismic interaction effects?	X				
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 (Additi	onal pages may be added as necessary)					
	- Atte Mahna Li					
Evaluated by:	Eddie M. Guerra	Date: 10	0/1/2012	2		
	aburg & Marine					

Date:




Seismic Walkdown Checklist (SWC)

Status: 🕲 N U

Equipment ID No. <u>VS-D-57B1</u> Equip. Class 7. Pneumatic-Operated Valve

Equipment Description

B-Cubicle Supply Damper



File Name: 2-61-3-1-28.jpeg Description: General view of component

Paul C. Rizzo Associates, Inc. ENCINEERS & CONSULTANTS			She	et 418 of 4
Seismic Walkdown Checklist (SWC)	Status:	\odot	N	U
Equipment ID No. <u>VS-D-57C1</u> Equip. Class 7. Pneumatic-Operated Valve				
Equipment Description C-Cubicle Supply Damper		·····		
Location: Bldg. INTS Floor El. 705				
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	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)?

Damper well supported from ceiling and wall. Operator attached to strut channels with 4-1/4" diam machine bolts. Channels connected to concrete with 4-1/4" diam anchor bolts. Linkage has no obstruction and no interaction in the vicinity.

Y Ν Х

Y

Y

Y

Y

X

Ν

Ν

Ν

Ν

U

U

U

U

N/A

Χ

N/A

Х

N/A

Х

N/A

Х

Sheet 418 of 439

- 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?

Paul C ENGINEER	C. Rizzo Associates, Inc. RS & CONSULTANTS				Sh	eet 419 of 439
Seismic Walkdow	n Checklist (SWC)		Status:	\odot	N	U
Equipment ID No.	VS-D-57C1 Equip. Class 7. Pneumatic-Operated	Valve				
Equipment Descrip	tion C-Cubicle Supply Damper	· · · · · · · · · · · · · · · · · · ·				
Interaction Effect	S				-	
7. Are soft targets f	ree from impact by nearby equipment or structures?	–	Y X	<u>N</u>	U	N/A
Ũ		L			•	
8. Are overhead eq	uipment, distribution systems, ceiling tiles and lighting,		Y X	<u>N</u>	U	N/A
and masonry bloc	x walls not likely to collapse onto the equipment?					
9. Do attached line	s have adoquate flowikility to avoid domage?	F	Y v	<u>N</u>	U	N/A
9. Do attached files	s have adequate nextonity to avoid damage?	I	<u> </u>			
		_	Y	N	U	
10. Based on the ab of potentially ad	pove seismic interaction evaluations, is equipment free lverse seismic interaction effects?		X			
Other Adverse Co	onditions	<u></u>	. <u>.</u>		-	
11. Have you looke adversely affect	ed for and found no other seismic conditions that could the safety functions of the equipment?		Y X	<u>N</u>	U	
Comments (Additi	onal pages may be added as necessary)				-	
	the Mahna !!					
Evaluated by:	Eddie M. Guerra	Date:	10/1/2	012	-	
	Sheery Defferen					

Date:



 \heartsuit Status:

U Ν

Seismic Walkdown Checklist (SWC)

Equipment ID No. VS-D-57C1 Equip. Class 7. Pneumatic-Operated Valve

Equipment Description

C-Cubicle Supply Damper



File Name: 2-61-1-1-29.jpeg Description: General view of component



File Name: 2-63-1-1-29.jpeg Description: View of angle framing connected to ceiling





File Name: 2-73-1-1-29.jpeg Description: View of tag ID for related instrumentation panel

Paul C. Rizzo Associ ENCINEERS & CONSULTANTS	ates, Inc.				Sh	eet 422 of
Seismic Walkdown Checklist (SV	WC)		Status:	\mathbf{v}	N	U
Equipment ID No. <u>1VS-F-55A</u>	Equip. Class	9. Fans				
Equipment Description En	nergency Switchge	ar Supply Direct Drive				-
Location: Bldg. SRVB	Floor El.	725				
Manufacturer, Model, Etc.						
Instructions for Completing Che This checklist may be used to docu SWEL. The space below each of th findings. Additional space is provid	cklist ment the results of the following questi- ded at the end of th	The Seismic Walkdown of ons may be used to record t is checklist for documentin	an item of equipme he results of judgm g other comments.	ent on the hents and		
Anchorage			V	N		
1. Is the anchorage configuration v	erification required	d (i.e., is the item one	X	N		
Fan/Motor assmebly mounted on 6 6-1/2" diam anchor bolts. Isolators restraints. Expansion joint at fan-a condition.	<i>i vibration isolator:</i> <i>i dentified with ad</i> <i>luct interface has a</i>	s. Isolators anchored with t equate lateral and vertical dequate slack and found in	otal of good			
			Y	N	U	N/A
2. Is the anchorage free of bent, bro	oken, missing or lo	ose hardware?				
			Y	N	U	N/A
3. Is the anchorage free of corrosio oxidation?	n that is more than	mild surface	X			
			Y	N	U	N/A
4. Is the anchorage free of visible c	racks in the concre	ete near the anchors?	X			
					TT	N/A
			Y	<u>N</u>	0	
5. Is the anchorage configuration configuration configuration configuration only applied (Note: This question only applied to the second structure).	onsistent with plan s if the item is one	t documentation? of the 50% for	Y X	N	0	
 Is the anchorage configuration configuration only applies. (Note: This question only applies which an anchorage configuration of the second state of the second	onsistent with plan s if the item is one ion verification is r <i>therefore anchora</i>	t documentation? of the 50% for equired.) ge verified per Calculation	VS-F-			

Paul C. Rizzo Associates, Inc. ENCINEERS & CONSULTANTS				Sh	eet 423 of 439
Seismic Walkdown Checklist (SWC)		Status:	(Y)	N	U
Equipment ID No. <u>1VS-F-55A</u> Equip. Class 9. Fans					
Equipment Description Emergency Switchgear Supply Direct Drive	e	······			
Interaction Effects	and the Manager of the State of				
7. Are soft targets free from impact by nearby equipment or structures?		Y X	N	U	N/A
		v	N	II	N/A
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?		X	1		
9. Do attached lines have adequate flexibility to avoid damage?		Y X	N	U	N/A
		Y	N	U	
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?		X			
Other Adverse Conditions		Y	N	U	
adversely affect the safety functions of the equipment?		X			
Comments (Additional pages may be added as necessary)					
the My fine ti					
Evaluated by: Eddie M. Guerra	Date:	10/1/20	012		
(Stary) 10 Mary					

Date:



Status: 🕅 N U

J

Seismic Walkdown Checklist (SWC)

Equipment ID No. <u>1VS-F-55A</u> Equip. Class 9. Fans

Equipment Description

Emergency Switchgear Supply Direct Drive



File Name: 2-61-1-1-56.jpeg Description: Component Plate ID



File Name: 2-62-1-1-56.jpeg Description: General view of component



Seismic Walkdown Checklist (SWC)

Status: 🕅 N U

Equipment ID No. <u>1VS-F-55A</u> Equip. Class 9. Fans

Equipment Description

Emergency Switchgear Supply Direct Drive



File Name: 2-63-1-1-56.jpeg Description: View of anchorage configuration

Paul C. Rizzo As Engineers & consultant	Paul C. Rizzo Associates, Inc. ENCINEERS & CONSULTANTS alkdown Checklist (SWC) ID No. VS-F-57B Equip. Class 9. Fans Description B-Cubicle Ventilation Fan Eldg. INTS Floor El. 705 rer, Model, Etc.			She	et 420 01 4	
Seismic Walkdown Checklist	t (SWC)		Status:	\heartsuit	Ν	U
Equipment ID No. <u>VS-F-571</u>	Equip. Class	9. Fans				
Equipment Description	B-Cubicle Ventilation	n Fan	· · · · · · · · · · · · · · · · · · ·		·	
Location: Bldg. <u>INTS</u>	Floor El.	705				
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?

\r

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

Wall mounted to steel channels (brackets) with 4-1/2" diameter machine bolts. Bracket to wall anchored with 6-1/2" diam anchor bolts. Expansion joint at fan 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

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.) Anchorage configuration confirmed with calculation 52233-C-010.



Ν

Y

X

<u> </u>	N	U	N/A
X			
Y	Ν	U	N/A
X			
Y	Ν	U	N/A
X			
La vinz -			
Y	Ν	U	N/A
X			

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



Paul C. Rizzo Associates, Inc. ENGINEERS & CONSULTANTS				Sh	eet 427 of 439
Seismic Walkdown Checklist (SWC)		Status:	\odot	N	U
Equipment ID No. <u>VS-F-57B</u> Equip. Class 9. Fans					
Equipment Description B-Cubicle Ventilation Fan					
Interaction Effects				-	
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 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?		X			
		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 adversally affect the sofity functions of the sensitive of the		Y	N	U	
adversely affect the safety functions of the equipment?					
Comments (Additional pages may be added as necessary)				-	
Total Mahana i					
Evaluated by: Eddie M. Guerra	Date:	10/1/20	012		
Clary & Alberry					

Date:





File Name: 2-61-4-1-28.jpeg Description: Component Plate ID



File Name: 2-62-4-1-28.jpeg Description: General view of component





File Name: 2-63-4-1-28.jpeg Description: View of tag ID for related instrumentation panel

Paul C. Rizzo Associates, Inc. ENCINEERS & CONSULTANTS					She	heet 430 of 439	
Seismic Walkdown Checkl	ist (SWC)		Status:	\heartsuit	N	U	
Equipment ID No. <u>WR-P-</u>	1A Equip. Clas	ss 6. Vertical Pump					
Equipment Description	River Plant Water I	oump					
Location: Bldg. <u>INTS</u>	Floor El.	705					
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)?

Pump to base plate anchored with 8-3/4" diam anchors. Base plate connected to concrete with 8-1.25" diam anchors.

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

Y	N
Х	

Y	Ν	U	N/A
X			
V	N	ŢŢ	NI/A
X			IN/A
	L	I	
Y	Ν	U	N/A
X			





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

Mild surface oxidation identified but judged to be 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.)
 Size and number of anchor bolts verified against drawing 2C-5011 (See also calculation 52233-C-008)
- 6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?

Paul C. Rizzo Associates, Inc. ENGINEERS & CONSULTANTS				Sh	eet 431 of 439
Seismic Walkdown Checklist (SWC)		Status:	(N	U
Equipment ID No. <u>WR-P-1A</u> Equip. Class 6. Vertical Pump					
Equipment Description River Plant Water Pump					
Interaction Effects			<u>.</u>	-	
7. Are soft targets free from impact by nearby equipment or structures?		Y X	N	U	N/A
		L			L
⁹ Are eventeed environment distribution methods with a literation		Y	N	U	N/A
and masonry block walls not likely to collapse onto the equipment?				L	I
		V	NJ	TT	NI/A
9. Do attached lines have adequate flexibility to avoid damage? Nozzle close to pump found to be well supported			IN	0	
in the second second supported.		v	N	TI	
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	N	- IJ	
adversely affect the safety functions of the equipment?		X			
Comments (Additional pages may be added as necessary)					
the Mahme "					
Evaluated by: Eddie M. Guerra	Date:	10/1/20	012		
Elang & Al affairie					

Date:





Seismic Walkdown Checklist (SWC)

Status: 🕅 N U

Equipment ID No. WR-P-1A

Equipment Description

River Plant Water Pump

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

Equip. Class 6. Vertical Pump



File Name: 2-61-3-1-27.jpeg Description: Component Plate ID



File Name: 2-62-3-1-27.jpeg Description: General view of component



Status: 🕅 N U

Seismic Walkdown Checklist (SWC)

Equipment ID No. WR-P-1A Equip. Class 6. Vertical Pump

Equipment Description

River Plant Water Pump



File Name: 2-63-3-1-27.jpeg Description: View of anchorage configuration



File Name: 2-64-3-1-27.jpeg Description: View of flexible attached lines



Status: 🕲 N U

Seismic Walkdown Checklist (SWC)

Equipment ID No. <u>WR-P-1A</u> Equip. Class 6. Vertical Pump

Equipment Description

River Plant Water Pump



File Name: 2-73-3-1-27.jpeg Description: View of expansion joint located in pump main line

Paul C. Rizzo Associates, Inc.			She	et 435 of 439
Seismic Walkdown Checklist (SWC)	Status:	\odot	N	U
Equipment ID No. <u>WR-P-1B</u> Equip. Class 6. Vertical Pump				
Equipment Description River Plant Water Pump				
Location: Bldg. INTS Floor El. 705				
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 re findings. Additional space is provided at the end of this checklist for documenting of	tem of equipment esults of judgment her 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)? Pump to base plate anchored with 8-3/4" diam anchors. Base plate connected to concrete with 8-1.25" diam anchors. 	Y X	<u>N</u>		

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

Y	N	U
X		

Ν

Ν

Y

Χ

Y

Χ

Y	Ν	U	N/A
X			

U

U

N/A

N/A

N/A

oxidation? Mild surface oxidation identified but judged to be acceptable.

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.) Size and number of anchor bolts verified against drawing 2C-5011 (See also calculation 52233-C-008)

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



Paul C. Rizzo Associates, Inc. ENCINEERS & CONSULTANTS				Sheet 436 of 439	
Seismic Walkdown Checklist (SWC)		Status:	Ŷ	N	U
Equipment ID No. <u>WR-P-1B</u> Equip. Class 6. Vertical Pump					
Equipment Description River Plant Water Pump			· · ·		
Interaction Effects		_		-	
7. Are soft targets free from impact by nearby equipment or structures?		Y X	N	U	N/A
		37	NT	ŦŢ	21/4
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
Nozzle close to pump found to be well supported.					
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?		Y X	N		
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 X	N	U	
Comments (Additional pages may be added as necessary)				-	
atte Mahra Li					
Evaluated by: Eddie M. Guerra	Date:	10/1/2012			
Stray & Alexan					

Date:



Status: 🕅 N U

Equipment ID No. WR-P-1B

Seismic Walkdown Checklist (SWC)

Equipment Description

River Plant Water Pump

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

Equip. Class 6. Vertical Pump



File Name: 2-61-2-1-28.jpeg Description: Component Plate ID



File Name: 2-62-2-1-28.jpeg Description: General view of component



U

Equipment Description

River Plant Water Pump



File Name: 2-63-2-1-28.jpeg Description: View of anchorage configuration



File Name: 2-64-2-1-28.jpeg Description: View of flexible attached lines



U

N

Status:

Seismic Walkdown Checklist (SWC)

Equipment ID No. WR-P-1B

Equipment Description

River Plant Water Pump

Equip. Class 6. Vertical Pump



File Name: 2-73-2-1-28.jpeg Description: View of expansion joint located in pump main line