

Equipment ID No.	HIS 7528	Equip. Class	20. Instrument a	nd Control	Panels			
Equipment Descrip	tion SFA	S CHANNEL 1	BLOCK SW inside	e PNL C57	05			<b>-</b> -
Location: Bldg.	AUXB	Floor El.	623	Room	505			
Manufacturer, Mod	el, Etc.	_					_	
Instructions for Co This checklist may SWEL. The space be findings. Additiona	be used to docume low each of the	ent the results o following quest	ions may be used to	record the	e results of ju	dgments ar		
Anchorage						<b>&gt;</b> 1		
1. Is the anchorage				ne	Y	N X	]	
of the 50% of SW Inside Panel C5705 Back panel doors at 4-1/2" screws.	i, which has simil	ar anchorage to	Panel C5702.					
2. Is the anchorage	free of bent brok	en missing or le	osa hardwara?		X	N	U	N/A
None observed.	nee or bent, brok	en, missing of R	ose naraware:			<u> </u>	<u> </u>	1
					Y	N	U	N/A
3. Is the anchorage oxidation?  None observed.	free of corrosion	that is more than	n mild surface		X			
					Y	N	U	N/A
4. Is the anchorage None observed.	free of visible cra	icks in the concr	ete near the anchor	s?	X			
					Y	N	U	N/A
5. Is the anchorage (Note: This quest which an anchor		if the item is one	of the 50% for		L			X
6. Based on the abo potentially adver	ve anchorage eva		inchorage free of		Y X	N	U_	]



Status: YN U
Seismic Walkdown Checklist (SWC)

Equipment ID No	5. HIS 7528 Equip. Class 20. Instrument and Control I	Panels			
Equipment Descr	ription SFAS CHANNEL 1 BLOCK SW inside PNL C570	)5			
Interaction Effe		Y	N	U	N/A
7. Are soft targets	s free from impact by nearby equipment or structures?	X			
	equipment, distribution systems, ceiling tiles and lighting, lock walls not likely to collapse onto the equipment?	Y	N	U_	N/A
9. Do attached lir	nes have adequate flexibility to avoid damage?	Y	N	U	N/A
	above seismic interaction evaluations, is equipment free adverse seismic interaction effects?	Y X	N	U	
	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)			-	
	= Hall A				
Evaluated by:	Eddie M. Guerra  Date:	7/25/2012		-	
	Adam L. Helffrich	7/25/2012	***	-	



Equipment ID No.	hp2b	Equ	iip. Class	8A. Moto	or-Operated	d Valves					
Equipment Descrip	tion _	MOTOR O	PERATE	D VALVE	HP-2B						<del>-</del> -
Location: Bldg.	AUXB	Flo	or El.	565	_	Room	236				
Manufacturer, Mod	el, Etc.					_				_	
Instructions for Co This checklist may SWEL. The space t findings. Additiona	be used to do below each o	ocument the f the follow	ing questi	ions may be	used to re	cord the	results o	f judg	ments ar		
Anchorage							_	_			
1. Is the anchorage	configuration	n verificatio	n require	d (i.e., is the	e item one		<u>,</u>	<u>′</u> 	N X	7	
of the 50% of SV Valve is horizontall	VEL items re	equiring suc	h verifica	tion)?		the valve	2.			_	
2	C C1 /	1 1 .	. ,		0			<u> </u>	N	U	N/A
2. Is the anchorage	free of bent,	broken, mis	ssing or ic	ose hardwa	ire?					1	X
							3	7	N	U	N/A
3. Is the anchorage oxidation?	free of corro	sion that is	more thar	n mild surfa	ce			<u> </u>			X
MOV found with go	ood surface fi	ìnish and ne	signs of	corrosion.							
								7	N	U	N/A
4. Is the anchorage	free of visibl	le cracks in	the concr	ete near the	anchors?			1			X_
							_	_		**	27/4
5. Is the anchorage	configuration	n consistent	with plar	nt documen	tation?			T	N	U	N/A X
(Note: This quest which an ancho	tion only app	olies if the it	em is one	of the 50%							
									N	U	1
6. Based on the aboretentially adver-			is, is the a	inchorage fi	ree of					<u> </u>	_



Status(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 adversely affect the safety functions of the equipment?  Comments (Additional pages may be added as necessary)  Pipe enters containment penetration P-20 from Aux. Building. The pipe is judged adequate for Seismic Anchor Metalson.	ipment Descript		1 1	ass 8A. Motor-0	- p - 1 - 1 - 1 - 1 - 1 - 1 - 1				
7. Are soft targets free from impact by nearby equipment or structures?  No potential interaction hazards identified from nearby equipment.  8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?  Seismic capacity of block walls in the area verified as walls 2337 and 2347.  Block wall hazard identified as Non-Credible.  9. Do attached lines have adequate flexibility to avoid damage?  Flexible lines inspected and found with adequate flexibility.  10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?  11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment?  12. Comments (Additional pages may be added as necessary)  Pipe enters containment penetration P-20 from Aux. Building. The pipe is judged adequate for Seismic Anchor Methods and the safety function of the power of the propers of the property of the pipe is judged adequate for Seismic Anchor Methods and the pipe is judged adequate for Seismic Anchor Methods and the pipe is judged adequate for Seismic Anchor Methods and the pipe is judged adequate for Seismic Anchor Methods and the pipe is judged adequate for Seismic Anchor Methods and the pipe is judged adequate for Seismic Anchor Methods and the pipe is judged adequate for Seismic Anchor Methods and the pipe is judged adequate for Seismic Anchor Methods and the pipe is judged adequate for Seismic Anchor Methods and the pipe is judged adequate for Seismic Anchor Methods and the pipe is judged adequate for Seismic Anchor Methods and the pipe is judged adequate for Seismic Anchor Methods and the pipe is judged adequate for Seismic Anchor Methods and the pipe is judged adequate for Seismic Anchor Methods and the pipe is judged adequate for Seismic Anchor Methods and the pipe is judged adequate for Seismic Anchor Methods and the pipe is judged adequate for Seismic Anchor Methods and p		otion _	MOTOR OPERA	TED VALVE HP	-2B				-
No potential interaction hazards identified from nearby equipment.  Y N U  B. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?  Seismic capacity of block walls in the area verified as walls 2337 and 2347.  Block wall hazard identified as Non-Credible.  D. Do attached lines have adequate flexibility to avoid damage?  Flexible lines inspected and found with adequate flexibility.  10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?  Other Adverse Conditions  11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment?  Comments (Additional pages may be added as necessary)  Pipe enters containment penetration P-20 from Aux. Building. The pipe is judged adequate for Seismic Anchor Methods.							N	U_	N/A
A. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?  Seismic capacity of block walls in the area verified as walls 2337 and 2347.  Block wall hazard identified as Non-Credible.  D. Do attached lines have adequate flexibility to avoid damage?  Flexible lines inspected and found with adequate flexibility.  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 adversely affect the safety functions of the equipment?  Comments (Additional pages may be added as necessary)  Pipe enters containment penetration P-20 from Aux. Building. The pipe is judged adequate for Seismic Anchor Methods  Comments (Additional pages may be added as necessary)					res?	X		l	<u> </u>
and masonry block walls not likely to collapse onto the equipment?  Seismic capacity of block walls in the area verified as walls 2337 and 2347.  Block wall hazard identified as Non-Credible.  D. Do attached lines have adequate flexibility to avoid damage?  Flexible lines inspected and found with adequate flexibility.  10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?  11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment?  12. Comments (Additional pages may be added as necessary)  Pipe enters containment penetration P-20 from Aux. Building. The pipe is judged adequate for Seismic Anchor Montain and the safety function of the safety function.							N	U	N/A
Block wall hazard identified as Non-Credible.  Y N U  D. Do attached lines have adequate flexibility to avoid damage?  Elexible lines inspected and found with adequate flexibility.  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 adversely affect the safety functions of the equipment?  Comments (Additional pages may be added as necessary)  Pipe enters containment penetration P-20 from Aux. Building. The pipe is judged adequate for Seismic Anchor Max.	d masonry bloc	ck walls not l	ikely to collapse o	onto the equipmen	t?	X		<u>.</u>	
Description of potentially adverse Seismic interaction effects?    Volume				d as walls 2337 a	nd 2347.				
Flexible lines inspected and found with adequate flexibility.  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 adversely affect the safety functions of the equipment?  Comments (Additional pages may be added as necessary)  Pipe enters containment penetration P-20 from Aux. Building. The pipe is judged adequate for Seismic Anchor Management of the safety function of the safety function of the pipe is judged adequate for Seismic Anchor Management fo		-					N	U	N/A
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?  Other Adverse Conditions  11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment?  Comments (Additional pages may be added as necessary)  Pipe enters containment penetration P-20 from Aux. Building. The pipe is judged adequate for Seismic Anchor Meaning and the safety functions of the safety functions.						X			<u> </u>
Other Adverse Conditions  11. Have you looked for and found no other seismic conditions that could YNU adversely affect the safety functions of the equipment? X  Comments (Additional pages may be added as necessary)  Pipe enters containment penetration P-20 from Aux. Building. The pipe is judged adequate for Seismic Anchor Max.							N	U	•
Other Adverse Conditions  11. Have you looked for and found no other seismic conditions that could YNU adversely affect the safety functions of the equipment? X  Comments (Additional pages may be added as necessary)  Pipe enters containment penetration P-20 from Aux. Building. The pipe is judged adequate for Seismic Anchor Metalson.					nt free	X			
Pipe enters containment penetration P-20 from Aux. Building. The pipe is judged adequate for Seismic Anchor Mo					could		N	U	]
Comments (Additional pages may be added as necessary)  Pipe enters containment penetration P-20 from Aux. Building. The pipe is judged adequate for Seismic Anchor Mo (~15' of flex. Length)		the safety fu	nonons of the equ.						•
		the safety fu	nedons of the equ						
			_					-	
	nments (Additio	ional pages m	nay be added as ne	ecessary)	pipe is judged ac	dequate for S	eismic And	- chor Moti	on loads
Evaluated by: Date: 7/25/2012 Eddie M. Guerra	nments (Additio	ional pages m	nay be added as ne	ecessary)	pipe is judged ad	dequate for S	eismic And	- chor Moti	on loads
Adam L. Helffrich  Date: 7/25/2012	nments (Addition of enters contains of flex. Length	ional pages m nment penetre	nay be added as ne	ecessary) ux. Building. The			eismic And	- chor Moti	on loads



Status Y N U

Equipment ID No. hp2b

Equip. Class 8A. Motor-Operated Valves

**Equipment Description** 

### MOTOR OPERATED VALVE HP-2B



HP2B Plate
ID Plate of component



HP2B General General view of component



Equipment ID No.	hp2c	Equip. Class	8A. Motor-Opera	ated Valves				
Equipment Descript	tion <u>MOT</u>	OR OPERATEI	VALVE HP-2C		-			<b>-</b>
Location: Bldg.	AUXB	Floor El.	565	Room	208	_		
Manufacturer, Mode	el, Etc.							
Instructions for Co This checklist may be SWEL. The space be findings. Additional	be used to docume elow each of the	ent the results of following questic	ons may be used to	record the r	esults of jud	gments an	ne d	
Anchorage							_	
1. Is the anchorage c of the 50% of SW Pipe is adequately sa	EL items requiring	ng such verificati	on)?	ne	Y	N X		
2. Is the anchorage fi					Y	N	U	N/A X
3 Is the anchorage f	iron of namenian t	h-4 : 41			Y	N	U	N/A
3. Is the anchorage fi oxidation?	ree or corrosion t	nat is more than	mild surface					X
4. Is the anchorage fi	ree of visible crac	ks in the concret	e near the anchors'	?	Y	N	U	N/A X
5 In the emphases	C.				Y	N	U	N/A
5. Is the anchorage of (Note: This question which an anchorage)	on only applies if	the item is one of	of the 50% for					X
6. Based on the above potentially advers			chorage free of		Y	N	U	





Equipment ID No	b. <u>hp2c</u> Equip. Class 8A. Motor-Operat	ed Valves				
Equipment Descr	iption MOTOR OPERATED VALVE HP-2C					
Interaction Effect			Y	N	- U	N/A
7. Are soft targets	s free from impact by nearby equipment or structures?		X		<u>                                      </u>	· .
	equipment, distribution systems, ceiling tiles and lighting ock walls not likely to collapse onto the equipment?	, ,	Y	N	U	N/A
	es have adequate flexibility to avoid damage? re found with adequate flexibility.		Y	N	U	N/A
10. Based on the	above seismic interaction evaluations, is equipment free adverse seismic interaction effects?		Y	N	U	
	Conditions  ked for and found no other seismic conditions that could  to the safety functions of the equipment?		Y	N	U U	
Comments (Addi	tional pages may be added as necessary)				-	
Evaluated by:	Eddie M. Guerra	Date:	7/25/2012			
	Adam L. Helffrich	Date:	7/25/2012			



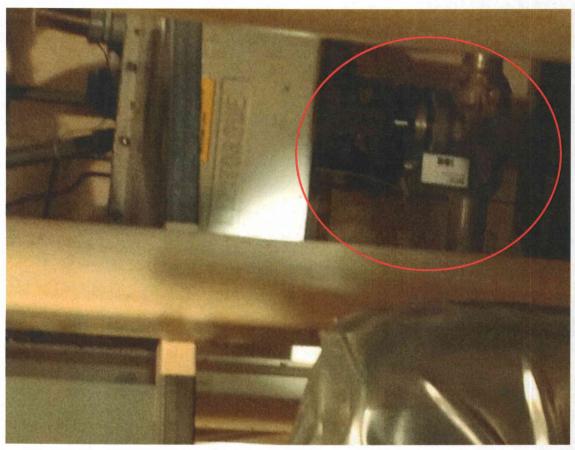
#### Seismic Walkdown Checklist (SWC)

Equipment ID No. hp2c

Equip. Class 8A. Motor-Operated Valves

**Equipment Description** 

MOTOR OPERATED VALVE HP-2C



HP2C General General view of component



Equipment ID No. HV5314	_ Equip. Class	0. Other					
Equipment Description	MOTOR-OPERATE	DAMPER HV 531	4				- -
Location: Bldg. AUXB	_ Floor El.	623	Room	515	_		
Manufacturer, Model, Etc.			_				
Instructions for Completing This checklist may be used to a SWEL. The space below each findings. Additional space is p	document the results of of the following question	ons may be used to r	ecord the	results of jud	lgments an	he id	
Anchorage							
1. In the englishmen and and	:C	LZC CALCE		Y	N	1	
1. Is the anchorage configuration of the 50% of SWEL items in	on verification required	l (1.e., is the item one	;	<u> </u>	X	j	
HSS 6x6 rack anchored to floo	r and wall found in ade	equate condition.					
Damper attached to rack with	jour 1/2" alameier boll	S.		Y	N	U	N/A
2. Is the anchorage free of bent	t, broken, missing or lo	ose hardware?		X	11		IN/A
				V	N		NI/A
3. Is the anchorage free of corr	osion that is more than	mild surface		X	N	U	N/A
oxidation?				L			
				Y	N	U	N/A
4. Is the anchorage free of visit	ole cracks in the concre	te near the anchors?		X	<u> </u>		
				Y	N	U	N/A
5. Is the anchorage configuration	on consistent with plant	documentation?					X
(Note: This question only ap which an anchorage config							
6. Based on the above anchorage potentially adverse seismic		schorage free of		Y X	N	U	





Equipment ID No	D. HV5314 Equip. Class 0. Other					
Equipment Descr	iption MOTOR-OPERATED DAMPER HV 531	4				
Interaction Effect 7. Are soft targets	ets s free from impact by nearby equipment or structures?		Y	N	U	N/A
8. Are overhead e	equipment, distribution systems, ceiling tiles and lighting ock walls not likely to collapse onto the equipment?	,	Y	N	U	N/A
	nes have adequate flexibility to avoid damage?  Suched to component found in good condition.		Y	N	U	N/A
	above seismic interaction evaluations, is equipment free adverse seismic interaction effects?		Y	N	U	
	Conditions ked for and found no other seismic conditions that could ct the safety functions of the equipment?	····	Y	N	U	
Comments (Addi	itional pages may be added as necessary)					
Evaluated by:	Eddie M. Guerra	_Date:	7/25/2012			
	Adam L. Helffrich	_Date:	7/25/2012			



#### Seismic Walkdown Checklist (SWC)

Equipment ID No. HV5314

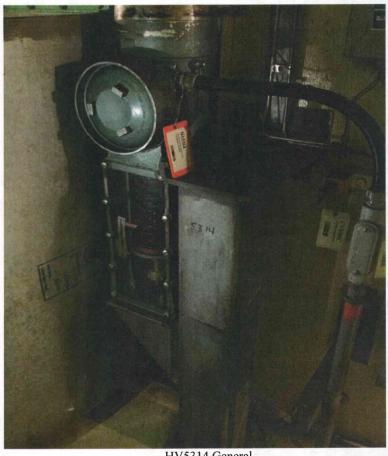
Equip. Class 0. Other

**Equipment Description** 

MOTOR-OPERATED DAMPER HV 5314



HV5314 Plate ID Plate of component



HV5314 General General view of component



#### Seismic Walkdown Checklist (SWC)

Equipment ID No. HV5314 Equip. Class 0. Other

Equipment Description MOTOR-OPERATED DAMPER HV 5314



HV5314 anchorage View of anchorage



Equipment Description IA PCV FOR MU66A  Location: Bldg. AUXB Floor El. 565 Room 208  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 solenoid valve on strut channel, which is attached to concrete wall.  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 which an anchorage configuration verification is required.)	Equipment ID No.	<u>IA-636</u>	_ Equip.	Class	7. Pneumation	c-Operated	d Valve	es				
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 solenoid valve on strut channel, which is attached to concrete wall.  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?  4. Is the anchorage free of visible cracks in the concrete near the anchors?  Y 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.)	Equipment Descrip	tion	IA PCV FOR M	MU66 <i>A</i>	1							- -
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  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 strut channel, which is attached to concrete wall.  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?  4. Is the anchorage free of visible cracks in the concrete near the anchors?  Y N U N/A  5. Is the anchorage configuration consistent with plant documentation?  (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)	Location: Bldg.	AUXB	_ Floor F	El.	565	R	Room	208				
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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 strut channel, which is attached to concrete wall.  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  Y N U N/A  4. Is the anchorage free of visible cracks in the concrete near the anchors?  Y N U N/A  Y N U N/A  Y 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.)	This checklist may SWEL. The space b	be used to opelow each	document the res	questi	ons may be us	ed to reco	rd the r	esults of j	udgmen		;	
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 strut channel, which is attached to concrete wall.  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 which an anchorage configuration verification is required.)	Anchorage							*7		7		
of the 50% of SWEL items requiring such verification)?  Small solenoid valve on strut channel, which is attached to concrete wall.  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?  4. Is the anchorage free of visible cracks in the concrete near the anchors?  Y N U N/A  5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)	1. Is the anchorage	configurați	on verification re	eauired	l (i.e., is the ite	em one		Y				
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  Y N U N/A  Y N U N/A  5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)	of the 50% of SV	VEL items	requiring such ve	erificat	ion)?					<u></u>		
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?  Y N U N/A  Y N U N/A  Y N U N/A  Y 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.)								Y	N	1	U	N/A
3. Is the anchorage free of corrosion that is more than mild surface oxidation?  4. Is the anchorage free of visible cracks in the concrete near the anchors?  Y N U N/A  Y 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.)  Y N U N/A  Y N U N/A  Y N U N/A  Y N U N/A	2. Is the anchorage	free of ben	t, broken, missin	g or lo	ose hardware?	•						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?  Y N U N/A  Y 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.)  Y N U N/A  Y N U N/A  Y N U N/A  Y N U N/A								***			**	27/4
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  Y N U N/A  Y N U N/A  5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)	3. Is the anchorage	free of corr	osion that is mo	re than	mild surface			<u>Y</u>	<u>r</u>	<u> </u>	<u> </u>	
4. Is the anchorage free of visible cracks in the concrete near the anchors?  Y N U N/A  5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)  Y N U								<u> </u>	<u>L</u>	<b>I</b> ,		
5. Is the anchorage configuration consistent with plant documentation?  (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)  Y N U N/A  Y N U N U N/A  Y N U N N N U N N N N U N N N N N N N								Y_	N	1	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.)  Y N U	4. Is the anchorage	free of visi	ble cracks in the	concre	ete near the an	chors?						X
5. Is the anchorage configuration consistent with plant documentation?  (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)  Y N U								3.7	,	т	<b>T</b> T	<b>&gt;</b> 1/ <b>A</b>
(Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)  Y N U	5. Is the anchorage	configurati	on consistent wi	th plan	t documentation	on?		Y		1	U	
	(Note: This quest	tion only ap	plies if the item	is one	of the 50% fo					,,		
potentially adverse seismic conditions?				s the ar	nchorage free	of			N	<u> </u>	U	]



\ /
-----

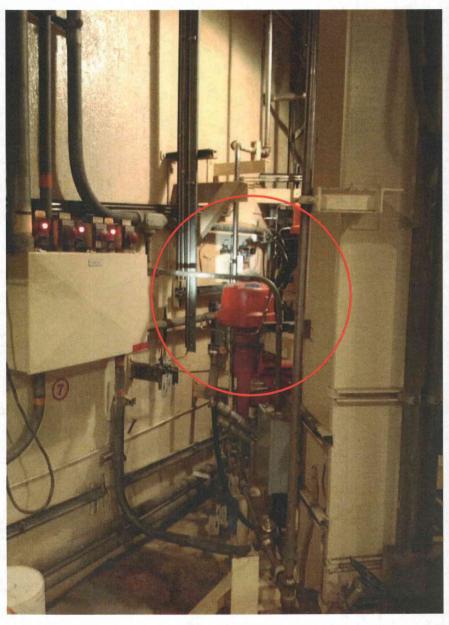
Equipment ID No	b. IA-636 Equip. Class 7. Pneumatic-Oper	ated Valve	es			
Equipment Descr	iption IA PCV FOR MU66A					
Interaction Effe			Y	N	- U	N/A
7. Are soft targets	s free from impact by nearby equipment or structures?		X			
	equipment, distribution systems, ceiling tiles and lighting ock walls not likely to collapse onto the equipment?	,	Y	N	U	N/A
	es have adequate flexibility to avoid damage? re found with adequate flexibility.		Y	N	U_	N/A
10. Based on the	above seismic interaction evaluations, is equipment free adverse seismic interaction effects?		Y	N	U	
	Conditions ked for and found no other seismic conditions that could ct the safety functions of the equipment?		Y X	N	- U	
Comments (Addi	itional pages may be added as necessary)	· <del></del>			-	
Evaluated by:	Eddie M. Guerra	_Date:	7/25/2012	•	-	
	Adam L. Helffrich	_Date:	7/25/2012		-	
	Agam L. Heiffrich					



#### Seismic Walkdown Checklist (SWC)

Equipment ID No. IA-636 Equip. Class 7. Pneumatic-Operated Valves

Equipment Description IA PCV FOR MU66A



IA-636 Plate and General General view of component



Equipment ID No.	ICS11A	Equip. Class	7. Pneumatic-C	Operated Valve	s			
Equipment Descrip	tion <u>ICS</u>	S11A Atmosphere	vent valve					<b>-</b> -
Location: Bldg.	AUXB_	Floor El.	643	Room	602			
Manufacturer, Mod	lel, Etc.			<del></del>				
Instructions for C This checklist may SWEL. The space t findings. Additiona	be used to document below each of the	ment the results of e following questi	ons may be used	to record the r	esults of jud	gments an		
Anchorage								
1. Is the anchorage	configuration ve	erification require	d (i.e. is the item	one	Y	N X	1	
	WEL items requi	ring such verifica	tion)?		L	<u> </u>	_1	
					Y	N	U	N/A
2. Is the anchorage	free of bent, bro	oken, missing or lo	oose hardware?		X			
					Y	N	U	N/A
3. Is the anchorage	free of corrosion	n that is more than	mild surface		X			
oxidation?								
					Y	N	U	N/A
4. Is the anchorage	free of visible c	racks in the concr	ete near the anch	ors?	X			
					Y	N_	U	N/A
5. Is the anchorage				?				X
		s if the item is one on verification is						
					Y	N	U	
6. Based on the abo	ove anchorage ev	valuations, is the a	nchorage free of		X			]
potentially adve	rse seismic conc	litions?						



Equipment ID No	Equip. Class	7. Pneumatic-Operated Val	ves			
Equipment Descri	ption ICS11A Atmosphere vo	ent valve				
Interaction Effect 7. Are soft targets	ts free from impact by nearby equipme	nt or structures?	Y	N	U	N/A
	quipment, distribution systems, ceilin	0 0	Y	N	U	N/A
	es have adequate flexibility to avoid of a with adequate flexibility.	damage?	Y X	N	U	N/A
	bove seismic interaction evaluations, dverse seismic interaction effects?	is equipment free	Y	N	U	
	onditions ed for and found no other seismic cont t the safety functions of the equipment		Y	N	- U	
Comments (Addi	ional pages may be added as necessa	ry)			-	
Evaluated by:	Eddie M. Guerra	Date:	7/25/2012		-	
	Adam L. Helffrich	Date:	7/25/2012	**************************************	-	



#### Seismic Walkdown Checklist (SWC)

Equipment ID No. ICS11A Equipment ID No. ICS11A

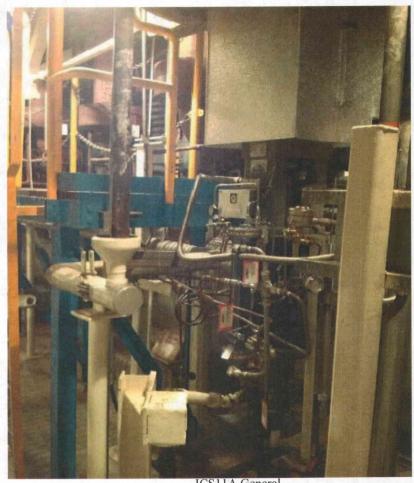
Equip. Class 7. Pneumatic-Operated Valves

**Equipment Description** 

ICS11A Atmosphere vent valve



ICS11A Plate
ID Plate of component



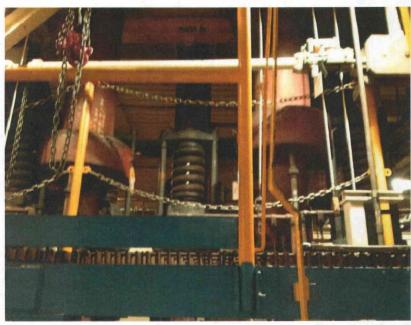
ICS11A General General view of component



#### Seismic Walkdown Checklist (SWC)

Equipment ID No. ICS11A Equip. Class 7. Pneumatic-Operated Valves

Equipment Description ICS11A Atmosphere vent valve



ICS11A brace2
Brace support for component



ICS11A brace Brace support for component



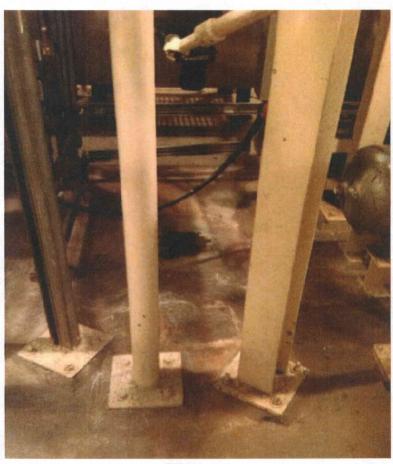
#### Seismic Walkdown Checklist (SWC)

Equipment ID No. ICS11A

Equip. Class 7. Pneumatic-Operated Valves

**Equipment Description** 

ICS11A Atmosphere vent valve



ICS11A anchor View of anchorage



\ /
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Equipment ID No.	K5-1	Equip. Class	17. Engine Generat	ors				
Equipment Descript	tion	Diesel Generator						- -
Location: Bldg.	AUXB	Floor El.	585	Room	318	-		
Manufacturer, Mod	el, Etc.						_	
SWEL. The space b	be used to o	Checklist document the results of of the following question rovided at the end of the	ons may be used to re	ecord the	results of jud	gments an		
Anchorage								
	_	on verification required requiring such verificat	•		Y X	N	]	
2. Is the anchorage	free of bent	, broken, missing or lo	ose hardware?		Y	N_	U	N/A
Equipment found to						J		<u> </u>
3. Is the anchorage oxidation?	free of corr	osion that is more than	mild surface		Y X	N	U	N/A
4. Is the anchorage	free of visil	ole cracks in the concre	ete near the anchors?		Y	N	U	N/A
5. Is the anchorage	configuration	on consistent with plan	t documentation?		Y	N	U	N/A
(Note: This quest which an anchor Anchorage detail fo	tion only ap rage config ound to be c	oplies if the item is one uration verification is ronsistent with the present place bolts spaced as	of the 50% for equired.) ented in SQUG calc			<b>.</b>		
6. Based on the abo potentially adver		ge evaluations, is the ar	nchorage free of		Y X	N	U	]



Status(Y)N U
--------------

Equipment ID No	Equip. Class 17. Engine Generators				
Equipment Descri	ption Diesel Generator		•		•
nteraction Effec		Y	N	- U	N/A
Are soft targets	free from impact by nearby equipment or structures?	X	<u> </u>		
A 1 1		Y	N	U	N/A
and masonry blo eismic capacity of ssociated block t	quipment, distribution systems, ceiling tiles and lighting, ock walls not likely to collapse onto the equipment? of block walls in the area verified. walls identified as: 308D, 309D, 310D, 311D, 338D com report for references. Identified as seismically adequate.	X			
. Do attached line	es have adequate flexibility to avoid damage?	Y X	N	U	N/A
0 D . 1 . 4		Y	N	U	1
	above seismic interaction evaluations, is equipment free adverse seismic interaction effects?	X	<u> </u>		
Other Adverse C				-	
	ted for and found no other seismic conditions that could be the safety functions of the equipment?	X	N	U	
Comments (Addi	tional pages may be added as necessary)			-	
Evaluated by:	Eddie M. Guerra  Date:	7/25/2012		-	
	Chang Defining Date:	7/25/2012	p,41	_	
	Adam L. Helffrich				



Status (: Y)	N	U
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Equipment ID No.	<u>K5-2</u>	Equip. Class	17. Engine Genera	ators				
Equipment Descrip	tion _	Diesel Generator						- -
Location: Bldg.	AUXB	Floor El.	585	Room	319			
Manufacturer, Mod	el, Etc.			_				
SWEL. The space b	be used to do below each o	Checklist ocument the results of of the following question ovided at the end of the	ons may be used to	record the	results of jud	gments an		
Anchorage					**			
1 Is the anchorage	configuratio	n verification required	(i a is the item on	0	X	N	1	
	_	equiring such verificat		C				
					Y	N	U_	N/A
2. Is the anchorage Equipment found to		broken, missing or local elded to base.	ose hardware?		X		1	
					Y	N	U	N/A
3. Is the anchorage oxidation?	free of corro	sion that is more than	mild surface		X			
Oxidation.								
					Y	N	U	N/A
4. Is the anchorage	free of visib	le cracks in the concre	te near the anchors?	?	X			
					Y	N	U	N/A
_	_	n consistent with plan			X			
which an ancho Anchorage detail fo	rage configu ound to be co	blies if the item is one pration verification is represent with the present place bolts spaced ar	equired.) ented in SQUG calc					
		_			<u>Y</u>	N	U	1
6. Based on the abo	_	e evaluations, is the auconditions?	nchorage free of		X	<u> </u>	<u> </u>	J





Equipment ID No	Equip. Class 17. Engine Generators				
Equipment Descri	ption Diesel Generator				
Interaction Effec	ts	Y	N _	U	N/A
7. Are soft targets	free from impact by nearby equipment or structures?	X			
		Y	N	U	N/A
and masonry blo	quipment, distribution systems, ceiling tiles and lighting, ock walls not likely to collapse onto the equipment?  of block walls in the area verified.	X			
Block wall 304D v based on ref. VBW	verified to be to be seismically adequate V12-B001-064, Rev 8 (8/26/87). es have adequate flexibility to avoid damage?	Y	N	U	N/A
9. Do attached IIII	es have adequate hexionity to avoid damage?	Δ			
	above seismic interaction evaluations, is equipment free	Y	N	U	
of potentially a	dverse seismic interaction effects?				
•	conditions  seed for and found no other seismic conditions that could be the safety functions of the equipment?	Y	N	U_	
Comments (Addi	tional pages may be added as necessary)			-	
Evaluated by:	Eddie M. Guerra Date	e: <u>7/25/2012</u>		-	
	Chang Define Date	e: 7/25/2012			
	Adam L. Helffrich				



#### Seismic Walkdown Checklist (SWC)

Equipment ID No. K5-2 Equip. Class 17. Engine Generators

Equipment Description Diesel Generator



K5-2 plate ID Plate of component



K5-2 general General view of component



#### Seismic Walkdown Checklist (SWC)

Equipment ID No. K5-2 Equip. Class 17. Engine Generators

Equipment Description Diesel Generator



K5-2 anchor bolt Partial view of anchorage, view is typical of all anchors



#### Seismic Walkdown Checklist (SWC)

Equipment ID No.	L311	Equip. Class	20a. Inst. in cont	rol panel/cab	inet			
Equipment Descript	tion <u>LOGI</u>	C CHANNEL 1	MODULE L311					- -
Location: Bldg.	AUXB	Floor El.	623	Room	502			
Manufacturer, Mode	el, Etc.							
Instructions for Co This checklist may I SWEL. The space b findings. Additional	be used to docume below each of the f	ent the results of following questi	ons may be used to	o record the r	esults of jud	gments and		
Anchorage					Y	N		
1. Is the anchorage	•	-		one		X	]	
Inside of panel C57 are covered by a tri	ip protection cover	rage of the pand ing that could r	el is external to the not be removed.	panel, they				
Anchorage condition 2. Is the anchorage to					Y	N	U	N/A
2. Is the anchorage	nee of bent, bloke	ii, missing or io	ose nardware?				<u> </u>	LJ
					Y	N	U	N/A
3. Is the anchorage to oxidation?	free of corrosion th	nat is more than	mild surface		X			-
oxidation?								
					Y	N	U	N/A
4. Is the anchorage	tree of visible crac	ks in the concre	ete near the anchor	s?	X		<u></u>	
					Y	N	U	N/A
	configuration constion only applies if rage configuration	the item is one	of the 50% for					X
6. Based on the aborotentially adver	ve anchorage eval		nchorage free of		Y	N	U	] ,

C-CSS-C5762C calculations indicate that MOD95-0032 resolves anchorage concerns and cabinet bolting issues. It was verified that the adjacent panels are connected at the top.

Anchorage adequacy deemed seismically adequate.

Based on good condition of panel and SQUG SEWS, anchorage is judged to be in adequate condition.



L311 Equip. Class 20a. Inst. in control panel/cab	oinet			
tion LOGIC CHANNEL 1 MODULE L311				•
	Y	N	U	N/A
ree from impact by nearby equipment or structures?	<u> X</u>		l	
uipment, distribution systems, ceiling tiles and lighting,	Y	N	U	N/A
k walls not likely to collapse onto the equipment?			•	
	Y	N	U	N/A
s have adequate flexibility to avoid damage?	X		1	
pove seismic interaction evaluations, is equipment free	Y	N	U	]
verse seismic interaction effects?				•
			_	
ed for and found no other seismic conditions that could	Y	N	U	]
the safety functions of the equipment:	<u> </u>			l
onal pages may be added as necessary)			-	
deter White Date:	7/25/2012		_	
/^ /				
Adam L. Helffrich Date:	7/25/2012		-	
	ree from impact by nearby equipment or structures?  Inipment, distribution systems, ceiling tiles and lighting, k walls not likely to collapse onto the equipment?  I have adequate flexibility to avoid damage?  Ove seismic interaction evaluations, is equipment free everse seismic interaction effects?  Inditions  I deform and found no other seismic conditions that could the safety functions of the equipment?  I date Light Light Date:  Eddie M. Guerra  Date:	ree from impact by nearby equipment or structures?  Y  Implement, distribution systems, ceiling tiles and lighting, k walls not likely to collapse onto the equipment?  Y  I have adequate flexibility to avoid damage?  Y  Y  Y  Y  Y  Y  Y  Y  Y  Y  Y  Ove seismic interaction evaluations, is equipment free verse seismic interaction effects?  Inditions  d for and found no other seismic conditions that could the safety functions of the equipment?  Y  Date: 7/25/2012  Eddie M. Guerra  Date: 7/25/2012	tion LOGIC CHANNEL 1 MODULE L311  Y N  ree from impact by nearby equipment or structures?  Y N  sipment, distribution systems, ceiling tiles and lighting, k walls not likely to collapse onto the equipment?  Y N  shave adequate flexibility to avoid damage?  Y N  ove seismic interaction evaluations, is equipment free verse seismic interaction effects?  Inditions  Inditions	tion LOGIC CHANNEL 1 MODULE L311  Tree from impact by nearby equipment or structures?  The property of the equipment of the e



#### Seismic Walkdown Checklist (SWC)

Equipment ID No. L311

Equip. Class 20a. Inst. in control panel/cabinet

**Equipment Description** 

LOGIC CHANNEL 1 MODULE L311



L311 General view of component

#### Seismic Walkdown Checklist (SWC)

Equipment ID No. L311

Equip. Class 20a. Inst. in control panel/cabinet

**Equipment Description** 

LOGIC CHANNEL 1 MODULE L311



L311-511 cabinet
General View of Cabinet housing components



L311-511cabinets bolted together inbetween Cabinets are bolted together in the middle



#### Seismic Walkdown Checklist (SWC)

Equipment ID No. L311

Equip. Class 20a. Inst. in control panel/cabinet

**Equipment Description** 

LOGIC CHANNEL 1 MODULE L311



L311-511 cabinets welded together on left Cabinets are welded together on the left side



L311-511 cabinets welded together on right Cabinets are welded together on the right side



Status (Y)N U

#### Seismic Walkdown Checklist (SWC)

Equipment ID No.	<u>L511</u>	Equip. Class	20a. Inst. in contro	l panel/cat	oinet			
Equipment Descrip	tion <u>LOGI</u>	C CHANNEL 1	MODULE L511					• •
Location: Bldg.	AUXB	Floor El.	623	Room	502			
Manufacturer, Mod	el, Etc.							
SWEL. The space b	be used to docume below each of the fo	nt the results of ollowing questi	the Seismic Walkdoons may be used to ris checklist for docu	ecord the i	results of jud	gments an		
Anchorage					V	N		
			(i.e., is the item one	e	Y	N X		
	VEL items requiring 162C. While anchor		ion)? el is external to the pa	anel, they				
	ip protection coveri		ot be removed. Anch			N	II	N/A
2. Is the anchorage		n, missing or lo	ose hardware?		Y X	N	U	IN/A
2. In the analysis	£ £	-4.3			Y	N	U	N/A
3. Is the anchorage oxidation?	iree of corrosion in	iat is more than	mild surface		<u> </u>	<u> </u>	L	L
				,				
					Y	N_	U	N/A
4. Is the anchorage	free of visible craci	ks in the concre	te near the anchors?		X		<u> </u>	
					•	• •	* 7	21/4
5. Is the anchorage	configuration cons	istent with plan	t documentation?		Y	N	U	N/A X
(Note: This quest	tion only applies if rage configuration	the item is one	of the 50% for					
					Y	N	U	
6. Based on the abo			nchorage free of		X			]
potentially adver	rse seismic condition	ons?						

C-CSS-C5762C calculations indicate that MOD95-0032 resolves anchorage concerns and cabinet bolting issues. It was verified that the adjacent panels are connected at the top.

Anchorage adequacy deemed seismically adequate.

Based on good condition of panel and SQUG SEWS, anchorage is judged to be in adequate condition.





Equipment ID No. L511 Equip. Class 20a. Inst. in control	panel/cab	inet			
Equipment Description LOGIC CHANNEL 1 MODULE L511					•
Interaction Effects		Y	N	U	N/A
7. Are soft targets free from impact by nearby equipment or structures?		X			
8. Are overhead equipment, distribution systems, ceiling tiles and lighting,		Y	N	U	N/A
and masonry block walls not likely to collapse onto the equipment?					
		Y	N	U	N/A
9. Do attached lines have adequate flexibility to avoid damage?		X			
10. Based on the above seismic interaction evaluations, is equipment free		Y	N	U	
of potentially adverse seismic interaction effects?					'
Other Adverse Conditions  11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment?	Y	N	U		
Comments (Additional pages may be added as necessary)			· · · · · · · · · · · · · · · · · · ·	•	
Evaluated by:	_Date:	7/25/2012			
Eddie M. Guerra					
Adam L. Helffrich	_Date:	7/25/2012			



#### Seismic Walkdown Checklist (SWC)

Equipment ID No. L511

Equip. Class 20a. Inst. in control panel/cabinet

**Equipment Description** 

LOGIC CHANNEL 1 MODULE L511



L511 General view of component



#### Seismic Walkdown Checklist (SWC)

Equipment ID No. L511 Equip. Class 20a. Inst. in control panel/cabinet

**Equipment Description** 

LOGIC CHANNEL 1 MODULE L511



L311-511 cabinet
General View of Cabinet housing components



L311-511cabinets bolted together inbetween Cabinets are bolted together in the middle



#### Seismic Walkdown Checklist (SWC)

Equipment ID No. L511

Equip. Class 20a. Inst. in control panel/cabinet

**Equipment Description** 

#### LOGIC CHANNEL 1 MODULE L511



L311-511 cabinets welded together on left Cabinets are welded together on the left side



L311-511 cabinets welded together on right Cabinets are welded together on the right side





Equipment ID No.	<u>LI-1525A</u>	Equip. Class	20. Instrument a	nd Control F	Panels			
Equipment Descrip	tion BWS	ST LEVEL IND	ICATOR INSIDE I	PNL C5716				- -
Location: Bldg.	AUXB	Floor El.	623	Room	502	-		
Manufacturer, Mod	lel, Etc.						_	
Instructions for C This checklist may SWEL. The space I findings. Additiona	be used to docum below each of the	ent the results of following quest	tions may be used to	record the	results of jud	lgments an		
Anchorage					37	N		
	VEL items requiri	ng such verifica			Y	N X	]	
					Y	N	U	N/A
2. Is the anchorage	free of bent, brok	en, missing or l	oose hardware?		X			
3. Is the anchorage	free of corrosion	that is more tha	n mild surface		Y	N_	U	N/A
oxidation?	nee of corrosion	mat is more ma	ii iiiid surface			<u> </u>		
					Y	N	U	N/A
4. Is the anchorage	free of visible cra	icks in the conci	rete near the anchor	s?	X	<u> </u>		
					Y	N_	U	N/A
	configuration cor tion only applies rage configuratio	if the item is on	e of the 50% for				1	X
					Y	N	U	-
6. Based on the about potentially adve	ove anchorage eva		anchorage free of		X			]





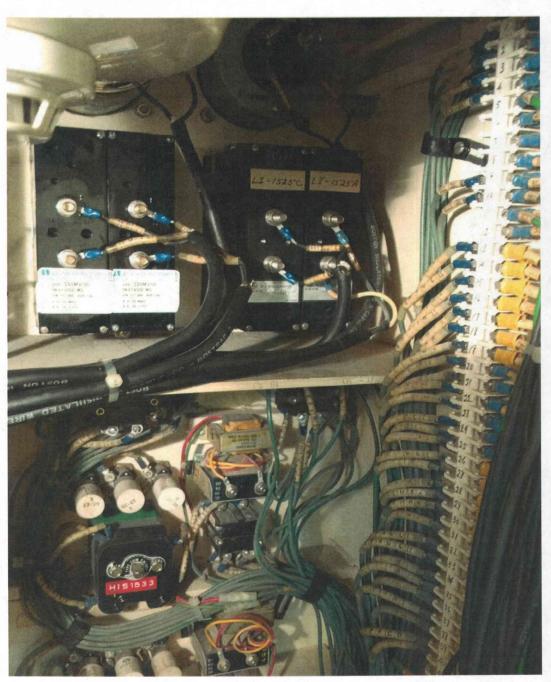
Equipment ID No.	Equip. Class 20. Instrument and Control Par	nels			
Equipment Descri	ption BWST LEVEL INDICATOR INSIDE PNL C5716				•
Interaction Effec		Y	N_	U_	N/A
7. Are soft targets	free from impact by nearby equipment or structures?	X		L	ll
		Y	N	U	N/A
8. Are overhead ed	quipment, distribution systems, ceiling tiles and lighting,	X			
Seismic capacity of Block walls in roo	ock walls not likely to collapse onto the equipment?  of block walls in the area verified  om 502 found to be seismically adequate per 80-11 documentation.				
Refer to Appendix	C for list of walls associated to component.	v	N	U	N/A
9. Do attached line	es have adequate flexibility to avoid damage?	$\begin{array}{c c} Y \\ \hline X \end{array}$	N	Γ	IN/A
		Y	N	U	
	above seismic interaction evaluations, is equipment free adverse seismic interaction effects?	X			
Other Adverse C	onditions			-	
-	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)		<del></del>	-	
Evaluated by:	Eddie M. Guerra  Date:	7/25/2012		-	
	Adam L. Helffrich	7/25/2012		-	





Equipment ID No. LI-1525A Equip. Class 20. Instrument and Control Panels

Equipment Description BWST LEVEL INDICATOR INSIDE PNL C5716



LI1525A Plate and General Overall view of component and anchorage



Status (Y)N U	J
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Equipment ID No.	LSHHSP9B6	Equip. Class	18. Instrument (c	on) Racks				
Equipment Descrip	tion <u>SG1</u>	LEVEL SWITC	H SP9B6	-				-
Location: Bldg.	AUXB	Floor El.	623	Room	502			
Manufacturer, Mod	el, Etc.						_	
Instructions for Co This checklist may SWEL. The space be findings. Additiona	be used to docun below each of the	nent the results of following questi	ons may be used to	record the	results of jud	gments an		
Anchorage								
1. Is the anchorage of the 50% of SV This switch is inside	VEL items requir	•		one	Y	N X	]	
2. Is the anchorage	free of bent, brok	ten, missing or lo	ose hardware?		Y X	N	U	N/A
3. Is the anchorage oxidation?	free of corrosion	that is more than	mild surface		Y X	N	U	N/A
4. Is the anchorage	free of visible cra	acks in the concre	ete near the anchor	s?	Y X	N	U	N/A
5. Is the anchorage (Note: This quest		if the item is one	of the 50% for		Y	N	U	N/A X
6. Based on the abo		aluations, is the a			Y	N	U	]





Equipment ID No.	<u>LSHHSP9</u> B6 Equip. Class 18. Instrument (on) Racks				
Equipment Descrip	otion SG1 LEVEL SWITCH SP9B6				
	free from impact by nearby equipment or structures?	Y	N	U	N/A
Adjacent panels co End panels have 3	onnected at top. " gap and also top connected by conduit.	Y	N	U	N/A
	uipment, distribution systems, ceiling tiles and lighting, ck walls not likely to collapse onto the equipment?	X			
9. Do attached line	s have adequate flexibility to avoid damage?	Y	N	U	N/A
	bove seismic interaction evaluations, is equipment free dverse seismic interaction effects?	Y X	N	U	
	ed for and found no other seismic conditions that could the safety functions of the equipment?	Y X	N	U	
Comments (Addit	ional pages may be added as necessary)			-	
Evaluated by:	Eddie M. Guerra  Date:	7/25/2012		-	
	Adam L. Helffrich	7/25/2012		-	

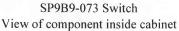


#### Seismic Walkdown Checklist (SWC)

Equipment ID No. LSHHSP9B6 Equip. Class 18. Instrument (on) Racks

Equipment Description SG1 LEVEL SWITCH SP9B6







SP9B9-073
General view of component



## Seismic Walkdown Checklist (SWC)

Equipment ID No. LSHHSP9B6 Equip. Class 18. Instrument (on) Racks

Equipment Description SG1 LEVEL SWITCH SP9B6



SP9B9-073 bolted at top
Cabinet is bolted to adjacent cabinet at the top



Equipment ID No.	<u>LT-1402</u>	Equip. Class	18. Instrument	(on) Racks				
Equipment Descrip	tion <u>CC S</u>	SRG TNK 1-1 SI	DE 1 LV TRAN	S				• •
Location: Bldg.	AUXB	Floor El.	623	Room	501	-		
Manufacturer, Mod	el, Etc.						_	
Instructions for Co This checklist may SWEL. The space be findings. Additiona	be used to docume below each of the	ent the results of following question	ons may be used	to record the re	esults of jud	gments an		
Anchorage					V	N		
1. Is the anchorage of the 50% of SV		_		one	Y	N X	]	
2 Indeed and a second	C		1 1 0		Y	N	U	N/A
2. Is the anchorage Mounted on ~24" to four 1/2" diameter	all HSS 6x6 canti			he floor by	X	<u> </u>		
3. Is the anchorage oxidation?	free of corrosion	that is more than	mild surface		Y X	N	U	N/A
					v	N	ŢŢ	NI/A
4. Is the anchorage While spalling of grant the loader was	rout pad on one s	ide was observed			Y X	N	U	N/A
since the loads are	very smaii (~< 50	(IDS)			Y	N	U	N/A
	configuration contion only applies rage configuration	if the item is one	of the 50% for	?			1	X
6. Based on the aboreout potentially adversarially	ove anchorage eva		nchorage free of	,	Y	N	U	



Equipment ID No.	Equip. Class 18. Instrument (on) Rac	cks				
Equipment Descri	ption CC SRG TNK 1-1 SIDE 1 LV TRANS					
Interaction Effec	ets free from impact by nearby equipment or structures?		Y	N	U	N/A
7. Are soft targets	free from impact by hearby equipment or structures?					<u></u> J
			Y	N	U	N/A
	quipment, distribution systems, ceiling tiles and lighting, ock walls not likely to collapse onto the equipment?		X			
9. Do attached line	es have adequate flexibility to avoid damage?		Y	N	U	N/A
	lines found in addequate condition.					
10 Raced on the a	above seismic interaction evaluations, is equipment free		Y	N	U	l
	adverse seismic interaction effects?		Λ			
_						
	Conditions  ked for and found no other seismic conditions that could  et the safety functions of the equipment?		Y	N	U	
	or the equipment.					ı
	tional pages may be added as necessary) o adjacent rack found acceptable by engineering judgement of	and smo	all demand l	oads.		
Evaluated by:	Take White D	ate:	7/25/2012			
•	Eddie M. Guerra					
	Adam L. Helffrich	ate:	7/25/2012			





Equipment ID No. LT-1402

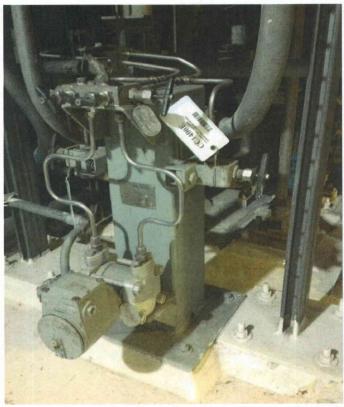
Equip. Class 18. Instrument (on) Racks

**Equipment Description** 

CC SRG TNK 1-1 SIDE 1 LV TRANS



LT1402 Plate
ID Plate of component



LT1402 General General view of component



#### Seismic Walkdown Checklist (SWC)

Equipment ID No. LT-1402

Equip. Class 18. Instrument (on) Racks

**Equipment Description** 

CC SRG TNK 1-1 SIDE 1 LV TRANS



LT1402 anchorage View of anchorage



LT1402 Spalled Grout on Anchor Grout around base plate has crumbled away



#### Seismic Walkdown Checklist (SWC)

potentially adverse seismic conditions?

Equipment ID No.	LT-2787	Equip. Class	18. Instrument (or	n) Racks				
Equipment Descrip	tion <u>I</u>	EDG DAY TANK 1-	LVL TRANSMIT	ГΤ				
Location: Bldg.	AUXB	Floor El.	585	Room	318			
Manufacturer, Mod	lel, Etc.							
SWEL. The space b	be used to do below each of	hecklist cument the results of `the following question vided at the end of th	ons may be used to	record the r	esults of jud	gments an		
Anchorage								
_	_	verification required	•	ne	Y	N X	]	
		' diameter bolts to a v liameter anchor bolts		6x6, which				
s anchored to wall with 4-1/2" diameter anchor bolts.  No degraded conditions found for the wall mounting supporting the transmitter.  2. Is the anchorage free of bent, broken, missing or loose hardware?					Y	N	U_	N/A
2. Is the alleholage	nee or bent,	broken, missing or to	ose natuwate?					
3. Is the anchorage	free of corros	sion that is more than	mild surface		Y	N	U_	N/A
oxidation?					<u>La</u>	-	•	
4 Is the anchorage	free of visible	e cracks in the concre	te near the anchors	?	Y	N	U	N/A
1. 15 the unonorage	iree or vision	e cracks in the concre	te near the anemors	•		<u> </u>	<u> </u>	<u>I</u>
					Y	N	U	N/A
(Note: This ques	tion only app	tion consistent with plant documentation? applies if the item is one of the 50% for guration verification is required.)			L		1	X
6. Based on the abo	ove anchorage	evaluations, is the a	nchorage free of		Y	N	U	]



# Status YN U Seismic Walkdown Checklist (SWC)

Equipment ID No	Equip. Class 18. Instrument (on) R	Racks				
Equipment Descr	iption EDG DAY TANK 1-1 LVL TRANSMITT				<u>.</u>	
Interaction Effect 7. Are soft targets	ets s free from impact by nearby equipment or structures?		Y	N	U	N/A
	equipment, distribution systems, ceiling tiles and lighting, ock walls not likely to collapse onto the equipment?		Y	N	U	N/A
9. Do attached lin	nes have adequate flexibility to avoid damage?		Y	N	U	N/A
	above seismic interaction evaluations, is equipment free adverse seismic interaction effects?	Y X	N	U		
	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)					
Evaluated by:	Eddie M. Guerra	Date:	7/25/2012			
	Adam L. Helffrich	Date:	7/25/2012	17		



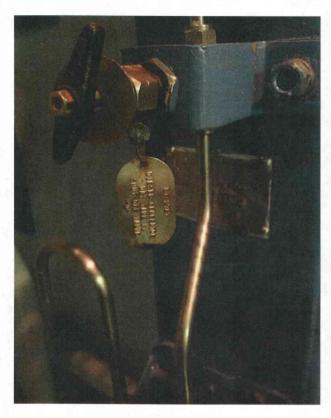
## Seismic Walkdown Checklist (SWC)

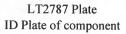
Equipment ID No. LT-2787

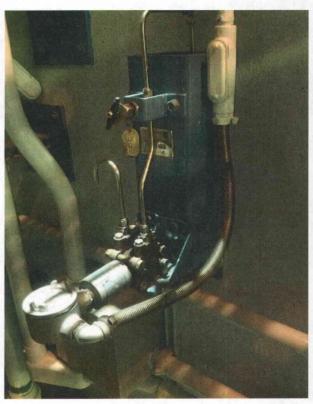
Equip. Class 18. Instrument (on) Racks

**Equipment Description** 

EDG DAY TANK 1-1 LVL TRANSMITT







LT2787 General General view of component



Equipment ID No.	MS101	Equip. Class	7. Pneumatic-Op	erated Valv	es			
Equipment Descrip	tion M	<u>S 101 (MSIV SG1)</u>						<u>.</u>
Location: Bldg.	AUXB	Floor El.	643	Room	601			
Manufacturer, Mod	el, Etc.							
Instructions for Co This checklist may SWEL. The space t findings. Additiona	be used to doc below each of t	ument the results of he following questi	ons may be used to	record the	results of jud	gments an		
Anchorage								
1. Is the anchorage	configuration	verification required	l (i.e. is the item o	me	<u>Y</u>	N X	1	
	VEL items requ	uiring such verificat		one.		A	J	
					Y	N	U	N/A
2. Is the anchorage	free of bent, bi	oken, missing or lo	ose hardware?		X			
					v	N	U	N/A
3. Is the anchorage	free of corrosic	on that is more than	mild surface		X	N		IV/A
oxidation?								
					<u>Y</u>	N	U	N/A
4. Is the anchorage	free of visible	cracks in the concre	te near the anchor	s?	X			
					Y	N	U	N/A
5. Is the anchorage								X
		es if the item is one tion verification is r						
6. Based on the abo	ve anchorage (	evaluations is the a	achorage free of		Y	N	U	1
potentially adver					L - 11	·	<u> </u>	1



Equipment ID No.	Equip. Class 7. Pneumatic-Operated V	alves			
Equipment Descri	ption MS 101 (MSIV SG1)				•
Interaction Effec		Y	N	U	N/A
7. Are soft targets	free from impact by nearby equipment or structures?	X			
8. Are overhead e	quipment, distribution systems, ceiling tiles and lighting,	Y	N	U_	N/A
	ock walls not likely to collapse onto the equipment?	L13			
O. Do attached lin	and have a decrease the Chillian and a child have a con-	Y	N	U	N/A
9. Do attached find	es have adequate flexibility to avoid damage?	X			
10. Based on the a	above seismic interaction evaluations, is equipment free	Y	N	U	
of potentially a	dverse seismic interaction effects?				
Other Adverse C			<del></del>	-	
-	ted for and found no other seismic conditions that could the safety functions of the equipment?	Y	N	U	
Comments (Addi	tional pages may be added as necessary)			-	
Ev <b>aluated by</b> :	Eddie M. Guerra	e: <u>7/25/2012</u>		-	
	Chary Delling Date	e: <u>7/25/2012</u>		_	
	Adam L. Helffrich				

#### Seismic Walkdown Checklist (SWC)

Equipment ID No. MS101

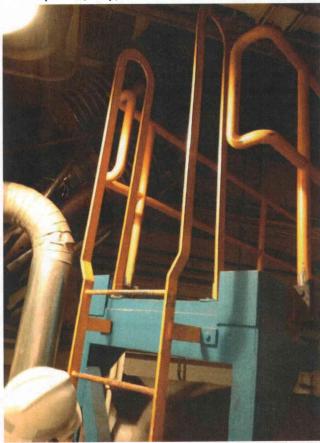
Equip. Class 7. Pneumatic-Operated Valves

**Equipment Description** 

MS 101 (MSIV SG1)



MS101 general
General view of component



MS101 general2 General view of component



## Seismic Walkdown Checklist (SWC)

Equipment ID No. MS101 Equip. Class 7. Pneumatic-Operated Valves

Equipment Description MS 101 (MSIV SG1)



Ms101 attachment to steam pipe Valve connection to main steam line



#### Seismic Walkdown Checklist (SWC)

potentially adverse seismic conditions?

Equipment ID No.	MS5889A	Equip. Class	7. Pneumatic-O	perated Valve	es			
Equipment Descrip	tion	AOV MS 5889A						- -
Location: Bldg.	AUXB	Floor El.	565	Room	237	_		
Manufacturer, Mod	lel, Etc.							
SWEL. The space b	be used to do	Checklist ocument the results of of the following question ovided at the end of the	ons may be used	to record the	results of jud	lgments an		
Anchorage					Y	N		
	Is the anchorage configuration verification required (i.e., is the item one							
			ion)?					
		_	Valve ~2' from or	ne end.	**	<b>.</b>	<b>T</b> T	<b>N</b> T/A
2. Is the anchorage	of the 50% of SWEL items requiring such verification)? Talve on 6" pipe line with considerable weight. The span ~8', rigid supports on either side of valve. Valve ~2' from one end. Is the anchorage free of bent, broken, missing or loose hardware?				X	N	<u> </u>	N/A
· ·								
					Y	N_	U	N/A
3. Is the anchorage oxidation?	free of corre	osion that is more than	mild surface		X			
Oxidation:								
					Y	N	U	N/A
4. Is the anchorage	free of visib	le cracks in the concre	ete near the ancho	rs?	X			17/1
					Y	N	U	N/A
		on consistent with plan					<u> </u>	X
		plies if the item is one ration verification is r						
					Y	N	U	
6. Based on the abo	ove anchorag	ge evaluations, is the a	nchorage free of		X			]



Status: N U

Equipment ID No	. <u>MS588</u>	<u>89A</u>	Equip. Cl	lass 7. Pne	umatic-Oper	ated Valve	s				
Equipment Descri	iption	AOV !	MS 5889A								
Interaction Effec	ets			-			Y		N	U	N/A_
7. Are soft targets	free from	impact by	nearby equ	uipment or st	tructures?		X				
							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	<u> </u>				
9. Do attached lin	es have ad	loguete flo	vihility to a	woid damage	~?		Y		N _	U	N/A
Attached lines fou		-	-	ivoid dailiage	<b>⋷</b> ∶			l		1	
10. Based on the a					ipment free		Y		N	U	
Other Adverse C 11. Have you look adversely affect	ked for and	d found no			ns that could		Y X		N	- U	
Comments (Addi	tional pag	es may be	added as n	ecessary)						•	
Evaluated by:	Eddie	M. Guerra	dett	UShneJ	£	_Date:	7/25/20	12		-	
	Adam	L. Helffric		Deffinin	/ ~/ 	_Date:	7/25/20	12		-	



Status:	Y)	N	U

Equipment ID No.	<u>P14-1</u>	Equip. Class	5. Horizontal Pur	mps				
Equipment Descript	ion <u>/</u>	AFP/T-1						- -
Location: Bldg.	AUXB	Floor El.	565	Room	237			
Manufacturer, Mode	el, Etc.	***************************************						
SWEL. The space b	e used to do clow each of	hecklist ocument the results of the following questi- vided at the end of th	ons may be used to	record the	results of jud	gments and		
Anchorage						N		
	EL items re	n verification required quiring such verificat nchor bolts.		ne	X	N		
2. Is the anchorage f	ree of bent,	broken, missing or lo	ose hardware?		Y X	N	U	N/A
3. Is the anchorage for oxidation?	ree of corros	sion that is more than	mild surface		Y X	N_	U	N/A
4. Is the anchorage t	ree of visible	e cracks in the concre	ete near the anchor	s?	Y X	N_	U	N/A
5. Is the anchorage of	configuration	n consistent with plan	t documentation?		Y	N_	U	N/A
which an anchor	age configui	lies if the item is one ration verification is in ocumented configuration.	required.)	ulation C-C	SS-P14-1			
6. Based on the above potentially adver	_	e evaluations, is the a	nchorage free of		Y X	N	U	]



Equipment ID No	b. P14-1 Equip. Class 5. Horizontal Pumps				
Equipment Descr	iption AFP/T-1				
Interaction Effe		Y	N	U_	N/A
7. Are soft targets	s free from impact by nearby equipment or structures?	X	<u> </u>		
Q Ama ayambaada		Y	N	U	N/A
	equipment, distribution systems, ceiling tiles and lighting, ock walls not likely to collapse onto the equipment?	X		L	<u>                                     </u>
O. Do ottockod lin	and have a discount of one it it is a source of the control of the	Y	N	U-	N/A
9. Do attached lin	nes have adequate flexibility to avoid damage?	X		1	<u> </u>
10. Based on the	above seismic interaction evaluations, is equipment free	Y	N	U	1
	adverse seismic interaction effects?				
Other Adverse (	Conditions ked for and found no other seismic conditions that could	Y	N	- U	
	ct the safety functions of the equipment?	X	IN		]
Comments (Add	itional pages may be added as necessary)			-	
Evaluated by:	Eddie M. Guerra  Date:	7/25/2012		-	
	Chang Difficult Date:	7/25/2012			
	Adam L. Helffrich	112312012		-	



#### Seismic Walkdown Checklist (SWC)

Equipment ID No. P14-1 Equip. Class 5. Horizontal Pumps

Equipment Description

AFP/T-1



P14-1 plate
ID Plate of component



P14-1 general General view of component



#### Seismic Walkdown Checklist (SWC)

Equipment ID No. P14-1

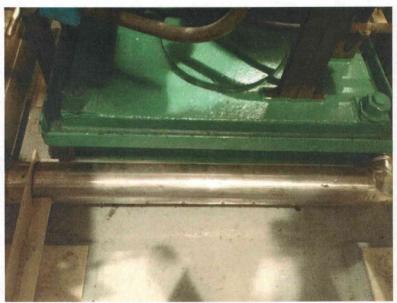
Equip. Class 5. Horizontal Pumps

**Equipment Description** 

AFP/T-1



P14-1 general4
General view of component



P14-1 anchorage Partial view of anchorage, view is typical of all anchors



Status Y N	U
------------	---

Equipment ID No.	<u>P14-2</u>	Equip. Class	5. Horizontal Pu	mps				
Equipment Descrip	tion -	AFP/T-2						• •
Location: Bldg.	AUXB	Floor El.	565	Room	238	-		
Manufacturer, Mod	el, Etc.							
SWEL. The space b	be used to do elow each o	Thecklist Document the results of f the following questi Dovided at the end of th	ons may be used to	record the	results of jud	gments an		
Anchorage					<b>3</b> 7	<b>N</b> T		
1. Is the anchorage	configuration	n verification required	l (i.e. is the item o	ne	X	N	1	
	VEL items re	quiring such verificat					1	
					Y	N	U	N/A
2. Is the anchorage	free of bent,	broken, missing or lo	ose hardware?		X			
					Y	N	U	N/A
3. Is the anchorage oxidation?	free of corro	sion that is more than	mild surface		X		<u> </u>	
					Y	N	U	N/A
4. Is the anchorage	free of visibl	e cracks in the concre	ete near the anchor	s?	X			
					Y	N	U	N/A
		n consistent with plan			X			
which an ancho	rage configu 1 and C-CSS	lies if the item is one ration verification is r S-P14-2 calculation (p firmed in the field dua	equired.) page 4 of 16) ident		figuration			
		e evaluations, is the a	nchorage free of		Y X	N	U	]
potentially adver	rse seismic c	onditions?						



Equipment ID No.	<u>P14-2</u> Equ	ip. Class 5. Horizontal	Pumps				
Equipment Descri	AFP/T-2						
Interaction Effec				Y	N	U	N/A
7. Are soft targets	free from impact by nearl	by equipment or structure	s?	X			
8. Are overhead ed	uipment, distribution sys	tems, ceiling tiles and lig	hting,	Y	N	U	N/A
and masonry blo	ck walls not likely to collection hazards identified i	apse onto the equipment?		<u> </u>			
9. Do attached line	s have adequate flexibilit	y to avoid damage?		Y	N	U	N/A
				Y	N	U	
	pove seismic interaction elements.  Iverse seismic interaction		free	X	14		
	onditions ed for and found no other the safety functions of th		ould	Y	N_	U	
Comments (Addi	ional pages may be added	l as necessary)					
Evaluated by:	Eddie M. Guerra	M. Handt	Date:	7/25/2012			
	Shung) Adam L. Helffrich	Define	Date:	7/25/2012		-	



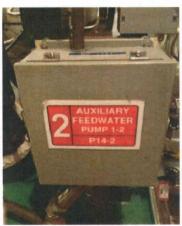
#### Seismic Walkdown Checklist (SWC)

Equipment ID No. P14-2

Equip. Class 5. Horizontal Pumps

**Equipment Description** 

AFP/T-2



P14-2 plate
ID Plate of component



P14-2 general3
General view of component



## Seismic Walkdown Checklist (SWC)

Equipment ID No. P14-2 Equip. Class 5. Horizontal Pumps

**Equipment Description** 

AFP/T-2



P14-2 general General view of component



P14-2 anchorage
Partial view of anchorage, view is typical of all anchors



Equipment ID No.	<u>P3-2</u>	Equip. Class	6. Vertical Pumps					
Equipment Descrip	tion <u>Pur</u>	np P3-2						- -
Location: Bldg.	INTK	Floor El.	576	Room	52	-		
Manufacturer, Mod	el, Etc.							
Instructions for Control This checklist may SWEL. The space of findings. Additional	be used to docu below each of th	ment the results of e following questi	ons may be used to	ecord the	results of jud	lgments an		
Anchorage								
	~ ·				Y	N	1	
1. Is the anchorage	-	•		e	X		j	
No degraded condition		ring such verificat nchorage.	ion)?					
					Y	N	U	N/A
2. Is the anchorage	free of bent, bro	oken, missing or lo	ose hardware?		X			
					Y	N	U	N/A
3. Is the anchorage oxidation?	free of corrosio	n that is more than	mild surface		X			
Slight corrosion for Judged surface corr			ors due to humid en	vironment.				
					Y	N	U	N/A
4. Is the anchorage	free of visible c	racks in the concre	te near the anchors?		X		<u></u>	
·					Y	N	U ·	N/A
5. Is the anchorage					X			
_		s if the item is one on verification is r						
Anchorage configur			• '					
12- 1 1/2"diam bolt	•			. plate.				
	, , , , , , , , , , , , , , , , , , ,			,	Y	N	U	
6. Based on the abo	ve anchorage ev	valuations, is the ar	chorage free of		X			
potentially adver	rse seismic cond	litions?						-



Status (Y) N	U
--------------	---

P3-2	Equip. Class 6. Vertical Pump	os				
otion	Pump P3-2					
<b>S</b>	:		Y	Ņ	U_	N/A
iree irom	impact by nearby equipment or structures?					
uipment,	distribution systems, ceiling tiles and lighti	ng,	Y	N	U	N/A
		C,				
			Y	N	U	N/A
			<u>X</u>			
bove seisr	nic interaction evaluations, is equipment fr	ee	Y	N	U	1
	· • •					•
					_	
		ıld	Y	N	U	
the safety	y functions of the equipment?		X		<u> </u>	
ional page	es may be added as necessary)				-	
	m i 2					
Eddie I	A Guara	Date:	7/25/2012		-	
Eduic	/					
Adam		Date:	7/25/2012		-	
	s ree from uipment, ck walls now the safety for and the safety fonal page.	Pump P3-2  Serie from impact by nearby equipment or structures?  Description impact by nearby equipment or structures?  D	stree from impact by nearby equipment or structures?  uipment, distribution systems, ceiling tiles and lighting, ck walls not likely to collapse onto the equipment?  s have adequate flexibility to avoid damage?  d with adequate flexibility.  bove seismic interaction evaluations, is equipment free liverse seismic interaction effects?  anditions  and for and found no other seismic conditions that could the safety functions of the equipment?  and pages may be added as necessary)  Date:  Eddie M. Guerra  Date:	ree from impact by nearby equipment or structures?  Y  uipment, distribution systems, ceiling tiles and lighting, ck walls not likely to collapse onto the equipment?  Shave adequate flexibility to avoid damage?  A with adequate flexibility.  Y  Soove seismic interaction evaluations, is equipment free elverse seismic interaction effects?  A widitions  and for and found no other seismic conditions that could the safety functions of the equipment?  A conal pages may be added as necessary)  Date: 7/25/2012	s ree from impact by nearby equipment or structures?  Y N  In the stribution systems, ceiling tiles and lighting, sek walls not likely to collapse onto the equipment?  Y N  In the shave adequate flexibility to avoid damage?  In the safety functions of the equipment?  In the safety functions of the equipment functions	ree from impact by nearby equipment or structures?  Y N U  wipment, distribution systems, ceiling tiles and lighting, it walls not likely to collapse onto the equipment?  Y N U  X N U



#### Seismic Walkdown Checklist (SWC)

Equipment ID No. P3-2 Equip. Class 6. Vertical Pumps

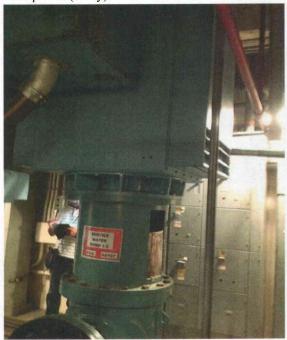
Equipment Description Pump P3-2



P3-2 plate ID Plate of component



P3-2 general2 General view of component



P3-2 general General view of component

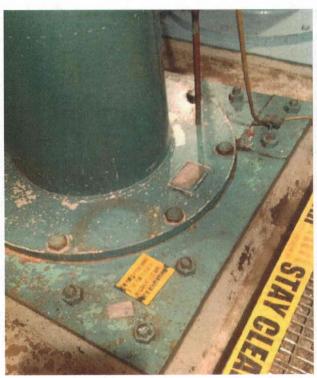
#### Seismic Walkdown Checklist (SWC)

Equipment ID No. P3-2

Equip. Class 6. Vertical Pumps

**Equipment Description** 

Pump P3-2



P3-2 anchorage
Partial view of anchorage, view is typical of all anchors



P3-2 corrosion on bolts Surface corosion on bolts judged not significant



Status: N	U
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Equipment ID No.	<u>P372B</u>	Equip. Class	5. Horizontal Pun	nps				
Equipment Descrip	tion <u>MC</u>	TOR-DRIVEN P	J <b>MP</b>					
Location: Bldg.	AUXB	Floor El.	565	Room	225			
Manufacturer, Mod	el, Etc.						_	
Instructions for Control This checklist may SWEL. The space be findings. Additional	be used to docu below each of th	ment the results of e following question	ons may be used to	record the	results of jud	gments an		
Anchorage								
1. Is the anchorage	configuration ve	erification required	l (i.e., is the item o	ne	X	N	]	
_	VEL items requi	ring such verificat	*				J	
					Y	N	U	N/A
2. Is the anchorage	free of bent, bro	ken, missing or lo	ose hardware?		X			
					Y	N	U	N/A
3. Is the anchorage oxidation?	free of corrosion	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	s?	X			
					Y	N	U	N/A
	tion only applied orage configuration verified b	s if the item is one on verification is to ased on SQUG can	of the 50% for equired.) <i>lculation C-CSS-P</i> .			N		
6. Based on the abo	ve anchorage e	valuations is the a	nchorage free of		X	N	T U	1
potentially adve	_		nenorage free or			<u> </u>	.1.	1



Interaction Effects 7. Are soft targets free from impact by nearby equipment or structures?  Small cart nearby is not securely tied to wall, but judged not to be a potential interaction hazard.  8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?  Seismic capacity of block walls in the area verified.  Block wall 2047 verified to be to be seismically adequate based on ref. VBW06-B001-028, Rev 4 (7/29/88).  9. Do attached lines have adequate flexibility to avoid damage?  Attached lines rigidly connected to equipment. No concern identified from potential relative movement.  10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?  Other Adverse Conditions  11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment?  X   V   N   U    V   V   V    V   V   V    V   V   V	N/A						
7. Are soft targets free from impact by nearby equipment or structures?  Small cart nearby is not securely tied to wall, but judged not to be a potential interaction hazard.  8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?  Seismic capacity of block walls in the area verified.  Block wall 2047 verified to be to be seismically adequate based on ref. VBW06-B001-028, Rev 4 (7/29/88).  9. Do attached lines have adequate flexibility to avoid damage?  Attached lines rigidly connected to equipment. No concern identified from potential relative movement.  10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?  Other Adverse Conditions  11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment?  X  V  N  U  X  V  N  U  X  V  N  U  Adversely affect the safety functions of the equipment?	N/A		-	Equipment Description MOTOR-DRIVEN PUMP			
Small cart nearby is not securely tied to wall, but judged not to be a potential interaction hazard.  8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?  Seismic capacity of block walls in the area verified.  Block wall 2047 verified to be to be seismically adequate based on ref. VBW06-B001-028, Rev 4 (7/29/88).  9. Do attached lines rigidly connected to equipment. No concern idenified from potential relative movement.  10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?  Other Adverse Conditions  11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment?	·	U	N				
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?  Seismic capacity of block walls in the area verified.  Block wall 2047 verified to be to be seismically adequate based on ref. VBW06-B001-028, Rev 4 (7/29/88).  9. Do attached lines have adequate flexibility to avoid damage?  Attached lines rigidly connected to equipment. No concern idenified from potential relative movement.  10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?  Other Adverse Conditions  11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment?  X   V   N   U   V   V   V   V   V   V   V   V   V				X		Small cart nearby is not securely tied to wall, but judged not to be a	
and masonry block walls not likely to collapse onto the equipment?  Seismic capacity of block walls in the area verified.  Block wall 2047 verified to be to be seismically adequate based on ref. VBW06-B001-028, Rev 4 (7/29/88).  9. Do attached lines have adequate flexibility to avoid damage?  Attached lines rigidly connected to equipment. No concern idenified from potential relative movement.  10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?  Other Adverse Conditions  11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment?  X  V  N  U  X  V  N  U  X  V  N  U  X  V  N  U  X  V  N  V	N/A	U	N	Y		or and action house to	
based on ref. VBW06-B001-028, Rev 4 (7/29/88).  9. Do attached lines have adequate flexibility to avoid damage?  Attached lines rigidly connected to equipment. No concern idenified from potential relative movement.  10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?  Other Adverse Conditions  11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment?  Y N U  Y N U  X   U  Y N U  X   V N U  X   V N U  X   V N U  X   V N U  X   V N U				X		and masonry block walls not likely to collapse onto the equipment? Seismic capacity of block walls in the area verified.	
9. Do attached lines have adequate flexibility to avoid damage?  Attached lines rigidly connected to equipment. No concern idenified from potential relative movement.  10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?  Other Adverse Conditions  11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment?  X  V  N  U  X  V  N  U  X  V  N  U  X  V  N  U  X  V  N  U  X  V  N  V	N/A	U	N	Y			
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?  Other Adverse Conditions  11. Have you looked for and found no other seismic conditions that could  Y N U						9. Do attached lines have adequate flexibility to avoid damage?  Attached lines rigidly connected to equipment. No concern idenified from	
11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment?  X  U		U_	N			10. Based on the above seismic interaction evaluations, is equipment free	
		U	N			11. Have you looked for and found no other seismic conditions that could	
		<u>.</u>					
Evaluated by:  Eddie M. Guerra  Date: 7/25/2012				7/25/2012	_Date:	· · · · · · · · · · · · · · · · · · ·	
Adam L. Helffrich  Date: 7/25/2012				7/25/2012	_Date:		



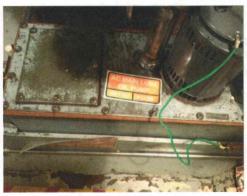
## Seismic Walkdown Checklist (SWC)

Equipment ID No. P372B

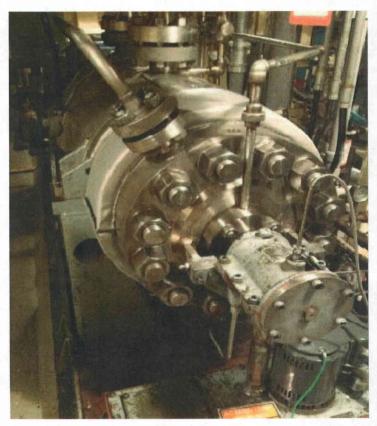
Equip. Class 5. Horizontal Pumps

**Equipment Description** 

MOTOR-DRIVEN PUMP



P372B plate
ID Plate of component



P372B general General view of component

Status: YN U

Equipment ID No. P372B

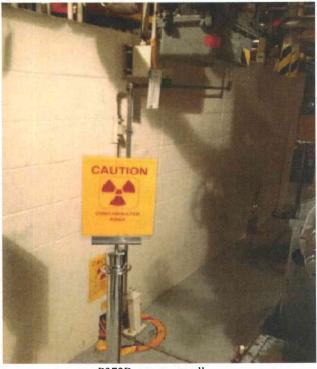
Equip. Class 5. Horizontal Pumps

**Equipment Description** 

#### MOTOR-DRIVEN PUMP



P372B anchorage Partial view of anchorage, view is typical of all anchors



P372B masonry wall
Potential interaction hazard from masonry wall near unit

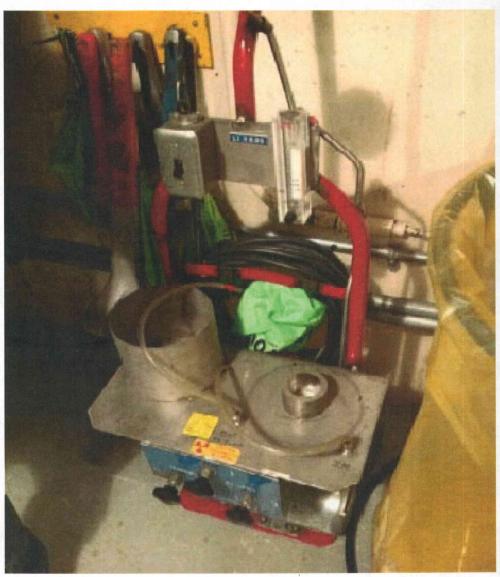


Status: Y U

#### Seismic Walkdown Checklist (SWC)

Equipment ID No. P372B Equip. Class 5. Horizontal Pumps

Equipment Description MOTOR-DRIVEN PUMP



P372B unsecured cart near unit
Possible interaction with nearby cart



Equipment ID No.	P4-1	Equ	ip. Class	0. Other							
Equipment Descrip	tion	Screen wash	pump P	4-1							<b>-</b> -
Location: Bldg.	INTK	Floo	r El.	585		Room	50				
Manufacturer, Mod	el, Etc.			<del></del>							
Instructions for Co This checklist may SWEL. The space to findings. Additional	be used to doelow each o	locument the of the followi	ng questi	ions may be	used to rec	ord the	results of	judgm			
Anchorage											
							Y		N	7	
1. Is the anchorage	_		-		item one				X	ا	
of the 50% of 8v	of the 50% of SWEL items requiring such verification)?										
							Y		N	U	N/A
2. Is the anchorage	free of bent	, broken, mis	sing or lo	ose hardwa	re?		X				
							Y		N	U	N/A
3. Is the anchorage	free of corre	osion that is r	nore thar	n mild surfac	e		X			T	1,,,,,
oxidation?							<u> </u>			1	
							Y		N	U	N/A
4. Is the anchorage	free of visib	ole cracks in t	he concr	ete near the	anchors?		X				
							Y		N	U	N/A
5. Is the anchorage	configuration	on consistent	with plan	nt documenta	ation?						X
(Note: This ques	tion only ap	applies if the item is one of the 50% for figuration verification is required.)						·			
							Y		N	U	_
6. Based on the abo			s, is the a	inchorage fro	ee of		X				J



Status: YN	U

Equipment ID No.	<u>P4-1</u>	Equip. Class 0. Other					
Equipment Descrip	tion	Screen wash pump P4-1					
Interaction Effects 7. Are soft targets f		mpact by nearby equipment or structures?	mearby equipment or structures?  In systems, ceiling tiles and lighting, ocollapse onto the equipment?  It is a collapse onto the equipment free ction effects?  It is a collapse onto the equipment free ction effects?  It is a collapse onto the equipment free ction effects?  It is a collapse onto the equipment free ction effects?  It is a collapse onto the equipment free ction effects?  It is a collapse onto the equipment free ction effects?  It is a collapse onto the equipment free ction effects?  It is a collapse onto the equipment free ction effects?  It is a collapse onto the equipment free ction effects?  It is a collapse onto the equipment free ction effects?  It is a collapse onto the equipment free ction effects?  It is a collapse onto the equipment free ction effects?  It is a collapse onto the equipment free ction evaluations, is equipment free ction effects?  It is a collapse onto the equipment free ction effects?  It is a collapse onto the equipment free ction effects?  It is a collapse onto the equipment free ction effects?  It is a collapse onto the equipment free ction effects?  It is a collapse onto the equipment free ction effects?  It is a collapse onto the equipment free ction effects?  It is a collapse onto the equipment free ction effects?  It is a collapse onto the equipment free ction effects?  It is a collapse onto the equipment free ction effects?	N	U	N/A	
		istribution systems, ceiling tiles and lighting, at likely to collapse onto the equipment?	,		N	U	N/A
9. Do attached line	s have ade	quate flexibility to avoid damage?			N	U	N/A
		ic interaction evaluations, is equipment free mic interaction effects?			N	U	
adversely affect	ed for and the safety	found no other seismic conditions that could functions of the equipment?			N	U	
Evaluated by:	Eddie M	Total Manual 1. Guerra	_ Date:	7/25/2012			
	Adam L	Blum Dellarum . Helffrich	_Date:	7/25/2012			



Equipment ID No.	P42-1	_ Equip. Cla	ss 5. Horizon	tal Pumps				
Equipment Descript	tion	P42-1 Pump for de	cay heat 1-1					- -
Location: Bldg.	AUXB	Floor El.	545	Room	105	-		
Manufacturer, Mod	el, Etc.						_	
SWEL. The space b	be used to elow each	Checklist document the results of the following que rovided at the end o	estions may be	used to record the	results of jud	lgments an		
Anchorage					• •	N		
_	VEL items	on verification requirequiring such verification and the contraction of the contraction o		item one	X	N L	]	
2. Is the anchorage	free of ben	t, broken, missing or	· loose hardwar	e?	Y X	N	U	N/A
3. Is the anchorage oxidation?	free of cor	rosion that is more th	nan mild surfac	e	Y X	N	U	N/A
4. Is the anchorage	free of visi	ble cracks in the cor	ocrete near the a	anchors?	Y X	N	U	N/A
5. Is the anchorage	configurati	on consistent with p	lant documenta	ition?	Y	N	U	N/A
(Note: This quest which an anchor Anchorage configur	tion only aprage configuration verif	pplies if the item is or guration verification fied based on SQUG anchors spaced at	one of the 50% is required.) calculation C-	for			•	:
	ve anchora	ge evaluations, is th		ee of	Y X	N	U	] .



Status YN 1	U
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Equipment ID No	b. P42-1 Equip. Class 5. Horizontal Pumps					
Equipment Descr	iption P42-1 Pump for decay heat 1-1				44	
Interaction Effec	cts s free from impact by nearby equipment or structures?		Y	N	U_	N/A
7. Are soft largets	s free from impact by nearby equipment or structures?					
			Y	N	U_	N/A
	equipment, distribution systems, ceiling tiles and lighting, ock walls not likely to collapse onto the equipment?	Y N  X  Nating,  Y N  X  Y N  X  Y N  X  Y N  X  Y N  X  Y N  X  Y N				
0 Do attached lin	nes have adequate flexibility to avoid damage?			N	U I	N/A
	g found to be rigidly supported.				lL	
10. Based on the	above seismic interaction evaluations, is equipment free			N	U_	
	adverse seismic interaction effects?					
Other Adverse C				NI		
	ked for and found no other seismic conditions that could ct the safety functions of the equipment?			N	U	
Comments (Addi	itional pages may be added as necessary)			· · · · · · · · · · · · · · · · · · ·		
Evaluated by:		Date:	7/25/2012			
	Eddie M. Guerra					
	Adam L. Helffrich	Date:	7/25/2012			



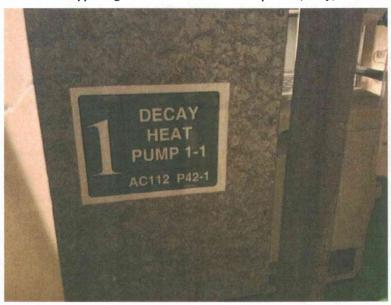
#### Seismic Walkdown Checklist (SWC)

Equipment ID No. P42-1

Equip. Class 5. Horizontal Pumps

**Equipment Description** 

P42-1 Pump for decay heat 1-1



P42-1 plate
ID Plate of component



P42-1 general General view of component



#### Seismic Walkdown Checklist (SWC)

Equipment ID No. P42-1 Equip. Class 5. Horizontal Pumps

Equipment Description P42-1 Pump for decay heat 1-1



P42-1 general2 General view of component



P42-1 anchorage2
Partial view of anchorage, view is typical of all anchors



Equipment ID No.	P43-2	Equip. Class	5. Horizontal Pur	mps				
Equipment Descript	tion	CCW PUMP 1-2						- -
Location: Bldg.	AUXB	Floor El.	585	Room	328	-		
Manufacturer, Mod	el, Etc.						_	
SWEL. The space b	be used to below each	Checklist document the results of of the following question provided at the end of the	ons may be used to	record the	results of ju	dgments an		
Anchorage					•	2.1		
_	_	ion verification required requiring such verificat		ne	Y X	N 	]	
2 Is the enchance	from of hon	t broken missing or lo	asa handuuana?		Y	N_	U	N/A
_	Is the anchorage free of bent, broken, missing or loose hardware?  o missing parts or degraded condition identified for anchorage.			1				
					Y	N	U_	N/A
3. Is the anchorage oxidation?	free of cor	rosion that is more than	mild surface		X			
4. Is the anchorage	free of vis	ible cracks in the concre	ete near the anchor	s?	Y	N	U	N/A
					<u> </u>		<u> </u>	<u> </u>
e i de col	٠.				Y	N	U_	N/A
(Note: This quest which an ancho	tion only a rage config ration veri	ion consistent with plan pplies if the item is one guration verification is r fied based on drawing N 8-1" holts.	of the 50% for equired.)		X			L
			1		Y	N	U	1
potentially adver		age evaluations, is the a	ncnorage tree of				<u> </u>	J



Equipment ID No.	Equip. Class 5. Horizontal Pumps					
Equipment Descri	ption CCW PUMP 1-2					
			Y	N	U	N/A
7. Are soft targets	free from impact by nearby equipment or structures?		X			J
8 Are overhead e	quinment distribution systems ceiling tiles and lighting		Y	N	U	N/A
7. Are soft targets free from impact by nearby equipment or structures?						
o Da awashad lin				N_	U	N/A
				N	U	
11. Have you look	ked for and found no other seismic conditions that could			N	U	
Comments (Addi	tional pages may be added as necessary)					
Evaluated by:	Eddie M. Guerra	Date:	7/25/2012			
	Blum Dellem	Date:	7/25/2012	·		
	Adam L. Helffrich					



#### Seismic Walkdown Checklist (SWC)

Equipment ID No. P43-2

Equip. Class 5. Horizontal Pumps

**Equipment Description** 

CCW PUMP 1-2



P43-2 plate ID Plate of component



P43-2 general General view of component



#### Seismic Walkdown Checklist (SWC)

Equipment ID No. P43-2

Equip. Class 5. Horizontal Pumps

**Equipment Description** 

CCW PUMP 1-2



P43-2 anchorage Partial view of anchorage, view is typical of all anchors



Equipment ID No.	P58-1	_ Equip. Class	5. Horizontal Pu	ımps				
Equipment Descript	tion	HPI PUMP 1-1						- -
Location: Bldg.	AUXB	Floor El.	545	Room	105	-		
Manufacturer, Mod	el, Etc.							
SWEL. The space b	be used to elow each	Checklist document the results of of the following questi rovided at the end of th	ons may be used	to record the	results of jud	lgments an		
Anchorage								
_	/EL items	on verification required requiring such verificate to the bolts.	•	one	Y X	N	]	
					Y	N	U	N/A
_		t, broken, missing or lo condition identified for			X	<u> </u>	<u> </u>	<u> </u>
3. Is the anchorage oxidation?	free of cor	rosion that is more than	mild surface		Y X	N	U	N/A
4. Is the anchorage : No cracks identified		ble cracks in the concre	ete near the ancho	rs?	Y X	N_	U	N/A
					Y	N	U	N/A
(Note: This quest which an anchor	ion only aprage configurations erif	on consistent with plan opplies if the item is one guration verification is a fied with drawing M-51 8 - 1" diam. Bolts.	of the 50% for equired.)		X			
6. Based on the abo potentially adver		ge evaluations, is the a conditions?	nchorage free of		X	N	U	]



Equipment ID No	b. P58-1 Equip. Class 5. Horizontal Pumps				
Equipment Descri	iption HPI PUMP 1-1				
		Y	N	U	N/A
7. Are soft targets	stree from impact by hearby equipment or structures?				
	Are soft targets free from impact by nearby equipment or structures?  Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?  Do attached lines have adequate flexibility to avoid damage?  D. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?  There Adverse Conditions  Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment?  Therefore The Adverse Conditions  Additional pages may be added as necessary)  Date: 7/25/  Eddie M. Guerra	Y	N	U	N/A
and masoning on	ock wans not likely to contapse onto the equipment.				
9. Do attached lin	es have adequate flexibility to avoid damage?	X	N	U 	N/A
		Y	N	U	
			·	_	
11. Have you lool	ked for and found no other seismic conditions that could	Y	N	U	
Comments (Addi	itional pages may be added as necessary)			-	
Evaluated by:		7/25/2012	<u>.</u>	-	
	Blum Deffrey Date:	7/25/2012			
	Adam L. Helffrich			-	



#### Seismic Walkdown Checklist (SWC)

Equipment ID No. P58-1 Equip. Class 5. Horizontal Pumps

Equipment Description HPI PUMP 1-1



P58-1 plate ID Plate of component



P58-1 general
General view of component



#### Seismic Walkdown Checklist (SWC)

Equipment ID No. P58-1

Equip. Class 5. Horizontal Pumps

**Equipment Description** 

HPI PUMP 1-1



P58-1 general2 General view of component



P58-1 anchorage Partial view of anchorage, view is typical of all anchors



Status Y N	1 U
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Equipment ID No.	PS3689D	Equip	. Class	18. Instrun	nent (on) l	Racks					
Equipment Descript	tion	PRESSURE S	WITCH	PS3689D							- -
Location: Bldg.	AUXB	Floor	El.	623		Room	501				
Manufacturer, Mod	el, Etc.										
This checklist may SWEL. The space b	be used to doelow each o	ocument the re	g questic	ons may be	used to rec	ord the	results of	fjudgm	ients an		
Anchorage											
of the 50% of SW Supported on wall-i	VEL items re mounted rac	equiring such v ek. No degrade	verificat	ion)?			Y		X	]	
			-1/2" dia	ameter bolts							
							Y		N	U	N/A
							Y	-	N	U	N/A
3. Is the anchorage oxidation?	pressure switch provided at the end of this checklist for documenting chorage  stee anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?  provided on wall-mounted rack. No degraded condition identified.  sks anchorage with 8-1/2" bolts.  stee anchorage free of bent, broken, missing or loose hardware?  sthe anchorage free of corrosion that is more than mild surface as the anchorage free of visible cracks in the concrete near the anchors?  sthe anchorage free of visible cracks in the concrete near the anchors?  Sthe 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 the anchorage free of sased on the above anchorage evaluations, is the anchorage free of sased on the above anchorage evaluations, is the anchorage free of sased on the above anchorage evaluations, is the anchorage free of sased on the above anchorage evaluations, is the anchorage free of sased on the above anchorage evaluations, is the anchorage free of sased on the above anchorage evaluations, is the anchorage free of sased on the above anchorage evaluations, is the anchorage free of sased on the above anchorage evaluations, is the anchorage free of sased on the above anchorage evaluations, is the anchorage free of sased on the above anchorage evaluations, is the anchorage free of sased on the above anchorage evaluations, is the anchorage free of sased on the above anchorage evaluations, is the anchorage free of sased on the above anchorage evaluations, is the anchorage free of sased on the above anchorage evaluations, is the anchorage free of sased on the above anchorage evaluations, is the anchorage free of sased on the above anchorage evaluations, is the anchorage free of sased on the above anchorage evaluations, is the anchorage free of sased on the above anchorage evaluations, is the anchorage free of sased on the above anchorage free of sased on th										
4 T- 4b b	C	1 1 1 1			1 0		Y		N	U	N/A
4. Is the anchorage	iree of visib	oie cracks in the	e concre	te near the a	inchors?		<u>X</u>			<u> </u>	J
					Room 501  smic Walkdown of an item of equipment on the be used to record the results of judgments and clist for documenting other comments.  The item one The ite	N/A					
_	structions for Completing Checklist is checklist may be used to document the results of the Seismic Walkdown of an item of equipment on the WEL. The space below each of the following questions may be used to record the results of judgments and dings. Additional space is provided at the end of this checklist for documenting other comments.    Check and the completing of the space of the solution	X									
_											
							V		N	<b>T</b> T	
6. Based on the abo	ve anchorag	ge evaluations,	is the ar	nchorage fre	e of				11		
	_						L				_



Equipment ID No.	PS3689D Equip. Class 18. Instrument (on) R	acks				
Equipment Descrip	tion PRESSURE SWITCH PS3689D			<del> </del>		
Interaction Effects			Y	N	U	N/A
7. Are soft targets f	ree from impact by nearby equipment or structures?		X			
8 Are overhead ea	uipment, distribution systems, ceiling tiles and lighting,		Y	N	U	N/A
	ck walls not likely to collapse onto the equipment?					
			Y	N	U	N/A
9. Do attached lines Attached line is flex	s have adequate flexibility to avoid damage?  sible.		X			
10 Based on the ab	pove seismic interaction evaluations, is equipment free		Y	N_	U	
	verse seismic interaction effects?					
	enditions and found no other seismic conditions that could the safety functions of the equipment?		Y	N	U	
Comments (Additi	onal pages may be added as necessary)					
Evaluated by:	Eddie M. Guerra	Date:	7/25/2012			
		Date:	7/25/2012			
	Adam L. Helffrich					



#### Seismic Walkdown Checklist (SWC)

Equipment ID No. PS3689D Equip. Class 18. Instrument (on) Racks

Equipment Description PRESSURE SWITCH PS3689D



PS3689 plate ID Plate of component



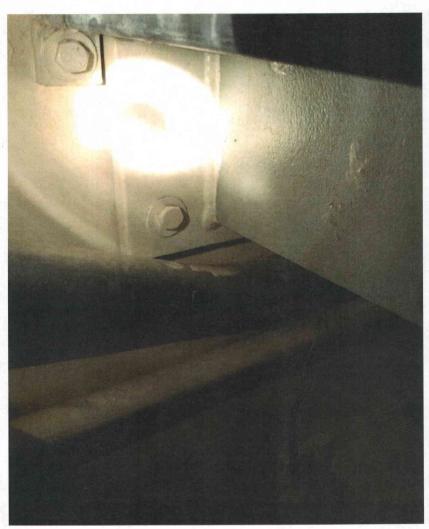
PS3689 general
General view of component



#### Seismic Walkdown Checklist (SWC)

Equipment ID No. PS3689D Equip. Class 18. Instrument (on) Racks

Equipment Description PRESSURE SWITCH PS3689D



PS3689 anchorage typical Partial view of anchorage, view is typical of all anchors



Equipment ID No.	PSL 106C	Equip. Class	18. Instrument (	on) Racks				
Equipment Descrip	tion PRE	SS SWITCH LO	W FOR AFP TUR	B 1-1 INLE	Γ			
Location: Bldg.	AUXB	Floor El.	565	Room	237			
Manufacturer, Mod	lel, Etc.						_	
Instructions for Control This checklist may SWEL. The space of findings. Additional	be used to documbelow each of the	ent the results of following questi	ons may be used t	o record the r	esults of jud	gments an		
Anchorage					Y	<b>&gt;</b> 1		
. Is the anchorage configuration verification required (i.e., is the item one						N X	1	
	WEL items requir	ng such verifica	tion)?	nie		A	I	
					Y	N	U	N/A
2. Is the anchorage	free of bent, brok	en, missing or lo	ose hardware?		X			
					Y	N	U	N/A
3. Is the anchorage oxidation?	free of corrosion	that is more thar	mild surface		X			
					V	N	U	N/A
4. Is the anchorage	free of visible or	ocks in the concr	ete near the ancho	rs?	$\frac{Y}{X}$	N	<del></del>	IN/A
4. 13 the anchorage	nee of visiole en	icks in the conci	ete near the anemor					<u> </u>
					Y	N	U	N/A
5. Is the anchorage	configuration co	nsistent with plan	nt documentation?					X
•	stion only applies orage configuration							
					Y	N	U	-
6. Based on the abo	ove anchorage ever erse seismic condi		inchorage free of		X		1	J



## Status(Y)N U

Equipment ID No.	PSL 106C Equip. Class 18. Instrument (on) Racks				
Equipment Descrip	PRESS SWITCH LOW FOR AFP TURB 1-1 INLET				
Interaction Effect	s	Y	N	U	N/A
7. Are soft targets	free from impact by nearby equipment or structures?	X			
		Y	N	U	N/A
	puipment, distribution systems, ceiling tiles and lighting, ck walls not likely to collapse onto the equipment?	_ ^		<u> </u>	
		Y	N	U	N/A
9. Do attached line	es have adequate flexibility to avoid damage?	X	· · · · · · · · · · · · · · · · · · ·	<u> </u>	
10. Based on the a	bove seismic interaction evaluations, is equipment free	Y	N	U	
	dverse seismic interaction effects?				
•	onditions ed for and found no other seismic conditions that could t the safety functions of the equipment?	Y X	N	U	]
Comments (Addit	tional pages may be added as necessary)			-	
Evaluated by:	Eddie M. Guerra  Date:	7/25/2012		_	
	Adam L. Helffrich	7/25/2012		_	



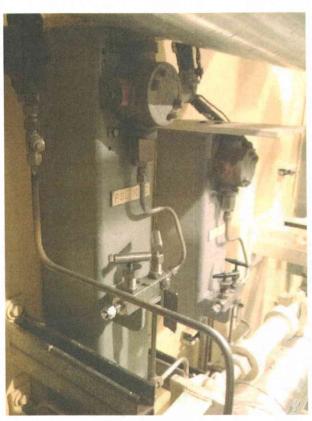
## Seismic Walkdown Checklist (SWC)

Equipment ID No. PSL 106C

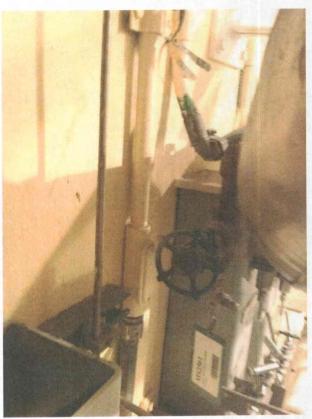
Equip. Class 18. Instrument (on) Racks

**Equipment Description** 

PRESS SWITCH LOW FOR AFP TURB 1-1 INLET



PSL106C Plate and General Overall view of component and anchorage



PSL106C General General view of component



Equipment ID No.	PSL4928A	Equip. Class	18. Instrument (or	n) Racks				
Equipment Descrip	tion PF	RESS SWITCH PS	4928A					
Location: Bldg.	AUXB	Floor El.	565	Room	237			
Manufacturer, Mod	lel, Etc.						_	
SWEL. The space I	be used to doc below each of t	ument the results o he following quest	f the Seismic Walko ions may be used to his checklist for doc	record the	results of jud	gments an		
Anchorage					<b>X</b> 7	N		
1. Is the anchorage	configuration	verification require	d (i.e., is the item or	ne	Y	N X	]	
Switch is mounted	on a cantilever		tion)? ack which is anchor lded to the rack by 4					
					Y	N	U_	N/A
2. Is the anchorage	free of bent, b	oken, missing or l	oose hardware?		X			
					Y	N	U	N/A
3. Is the anchorage oxidation?	free of corrosi	on that is more tha	n mild surface		X			
					Y	N_	U	N/A
4. Is the anchorage	free of visible	cracks in the conci	ete near the anchors	3?	X			
					Y	N	U	N/A
5. Is the anchorage	-	-						X
· ·		es if the item is on- tion verification is						
					Y	N	U	-
6. Based on the abo	_		anchorage free of		X		<u></u>	]



## Status (Y)N U

Equipment ID No.	. <u>PSL492</u>	8 <u>A</u>	Equip. Clas	s 18. Instru	ument (on)	Racks				
Equipment Descri	ption	PRESS	SWITCH P	S 4928A						
Interaction Effec 7. Are soft targets		mpact by	nearby equir	oment or stru	ctures?		Y	N	U	N/A
7. Tire som tangete	nee nom	impact of					<u> </u>	N	11	N/A
8. Are overhead ea and masonry blo							Y X	N	U	IVA
9. Do attached line	es have ade	equate flex	ibility to avo	oid damage?			Y	N	U	N/A
10. Based on the a of potentially a					ment free		Y X	N	 U	
Other Adverse C 11. Have you look adversely affec Anchor spacing to	ked for and at the safety	functions	s of the equip	oment?			Y X	N	U	
Comments (Addi	tional page	s may be	added as nec	essary)						
Evaluated by:	Eddie M	M. Guerra	deter 1/2	hat		_Date:	7/25/201	12		
	Adam I	Au L. Helffric	eny De	Janu -		_Date:	7/25/20	12		



#### Seismic Walkdown Checklist (SWC)

Equipment ID No. PSL4928A Equip. Class 18. Instrument (on) Racks

Equipment Description Pl

PRESS SWITCH PS 4928A



PSL 4928A plate ID Plate of component



PSL4928A General General view of component



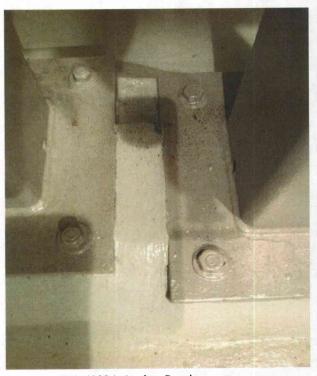
### Seismic Walkdown Checklist (SWC)

Equipment ID No. PSL4928A Equip. Class 18. Instrument (on) Racks

Equipment Description PRESS SWITCH PS 4928A



PSL 4928A anchorage View of anchorage



PSL 4928A Anchor Spacing to Adjacent Rack



Equipment ID No.	RC3701	Equip. Cla	ass 20. Instru	ıment and C	ontrol P	anels			
Equipment Descrip	tion	Relay Cabinet in M	Mechanical Pe	netration Ro	om 4				• •
Location: Bldg.	AUXB	Floor El.	585	_	Room	314	_		
Manufacturer, Mod	el, Etc.							_	
Instructions for Co This checklist may SWEL. The space t findings. Additiona	be used to doelow each o	ocument the result of the following qu	estions may be	e used to rec	ord the	results of jud	lgments an		
Anchorage						Y	N		,
	. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?							]	
of the 50% of SV Mounted on short s		• •							
2. Is the anchorage	free of bent	broken missing o	r loose hardw	ara?		Y	N	U	N/A
2. Is the allehorage	nee or bent	, broken, missing o	i loose nardwa	arc:			<u> </u>	·	11
						Y	N	U	N/A
3. Is the anchorage oxidation?	free of corre	osion that is more t	han mild surfa	ice		X			
						Y	N	U	N/A
4. Is the anchorage	free of visit	ole cracks in the co	ncrete near the	anchors?		X			
						Y	N_	U	N/A
5. Is the anchorage (Note: This ques	-	on consistent with polies if the item is				X		l	
which an ancho	rage config	uration verification	is required.)						
Anchorage configu 4 angle-section leg			alculation C-C	USS-RC3701	<b>'.</b>				
			, ,			Y	N	U	٦
6. Based on the abo potentially adve			ie anchorage t	ree of		X	<u> </u>		J



Equipment ID No.	RC3701 Equip. Class 20. Instrument and Control	ol Panels			
Equipment Descrip	Relay Cabinet in Mechanical Penetration Room	4		_	
Interaction Effect	ts	Y	N	U_	N/A
-	free from impact by nearby equipment or structures? action hazards identified in the area.	X			
	quipment, distribution systems, ceiling tiles and lighting,	Y	N	U	N/A
and masonry blo	ck walls not likely to collapse onto the equipment?				
	es have adequate flexibility to avoid damage?	Y X	N	U	N/A
Апаспеа 10р сопа	uits provide lateral restraint to cabinet.	Y	N_	U	
	bove seismic interaction evaluations, is equipment free dverse seismic interaction effects?	X		L	
Other Adverse C		V	N	-	
•	ted for and found no other seismic conditions that could to the safety functions of the equipment?	Y X	N	U	]
Comments (Addit	tional pages may be added as necessary)			-	
Evaluated by:	The Mine It Dat	e: <u>7/25/2012</u>		_	
	Eddie M. Guerra  Blum Dat	re: 7/25/2012			
	Adam L. Helffrich			_	

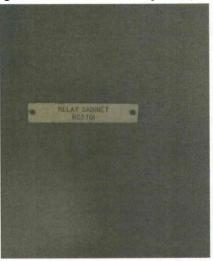
#### Seismic Walkdown Checklist (SWC)

Equipment ID No. RC3701

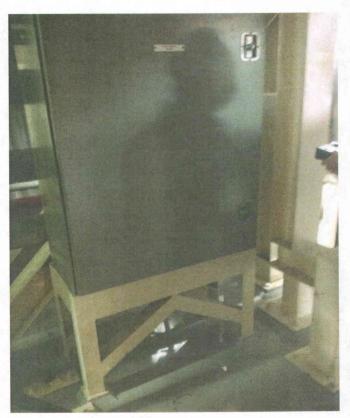
Equip. Class 20. Instrument and Control Panels

**Equipment Description** 

Relay Cabinet in Mechanical Penetration Room 4



RC3701 plate
ID Plate of component



RC3701 general General view of component



#### Seismic Walkdown Checklist (SWC)

Equipment ID No. RC3701 Equip. Class 20. Instrument and Control Panels

Equipment Description Rela

Relay Cabinet in Mechanical Penetration Room 4



RC3701 Conduits
Conduits Going into Cabinet



Status Y N U	J
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Equipment ID No.	<u>SF11</u>	Equip. Class	0d. Other - chee	ck valve or ma	anual valve			
Equipment Descrip	tion <u>BV</u>	VST Supply Line t	o SFP Pumps					•
Location: Bldg.	AUXB	Floor El.	586'	Room	304			
Manufacturer, Mod	el, Etc.						_	
Instructions for Co This checklist may SWEL. The space t findings. Additiona	be used to docu below each of the	ment the results one following quest	ions may be used	to record the	results of jud	gments an		
Anchorage					***	<b>N</b> T		
1. Is the anchorage of the 50% of SV No degraded conditi	VEL items requ	erification require iring such verifica		one	Y	N X	]	
					Y	N	U	N/A
2. Is the anchorage	free of bent, bro	oken, missing or le	oose hardware?		X			
					Y	N	U_	N/A
3. Is the anchorage oxidation?	free of corrosio	on that is more than	n mild surface		X			
Valve found in good	d condition. No	signs of corrosing	g identified in mai	n line.				
				_	Y	N	U	N/A
4. Is the anchorage	free of visible of	cracks in the concr	ete near the ancho	ors?	X		1	
					Y	N	U	N/A
	tion only applie	consistent with places if the item is one ion verification is	e of the 50% for	?				X
					Y	N	U	
6. Based on the abo	-		anchorage free of		X			]



Equipment ID No.	SF11 Equip. Class 0d. Other - check valve or ma	anual valve			
Equipment Descrip	otion BWST Supply Line to SFP Pumps			_	
Interaction Effect		Y	N	U	N/A
7. Are soft targets t	free from impact by nearby equipment or structures?	X			
	quipment, distribution systems, ceiling tiles and lighting,	Y	N	U	N/A
and masonry bloo	ck walls not likely to collapse onto the equipment?				
9. Do attached line	es have adequate flexibility to avoid damage?	Y	N	U_	N/A
10. Based on the all	Y	N	U		
or potentially as	dverse seismic interaction effects?				
	ed for and found no other seismic conditions that could	Y	N	- U	1
adversely affect	t the safety functions of the equipment?			<u> </u>	
Comments (Addit	tional pages may be added as necessary)	<u> </u>	<u>.</u>	-	
Evaluated by:	Eddie M. Guerra Date:	7/25/2012		_	
	Blum Date:	7/25/2012			
	Adam L. Helffrich	,,,23,2012	<del></del>	_	



#### Seismic Walkdown Checklist (SWC)

Equipment ID No. SF11 Equip. Class 0d. Other - check valve or manual valve

Equipment Description BWST Supply Line to SFP Pumps



SF11 component ID ID Plate of component



SF11 general view General view of component



Status: N U

Equipment ID No.	SF1616A	Equip. Class	0d. Other - chec	k valve or m	anual valve			
Equipment Descrip	tion SFP	Cleanup System	FE 1616 KI Sour	ce				•
Location: Bldg.	AUXB	Floor El.	570'3"	Room	122	-		
Manufacturer, Mod	el, Etc.						_	
Instructions for Control This checklist may SWEL. The space of findings. Additional	be used to docum below each of the	ent the results o following quest	ions may be used	to record the	results of jud	lgments an		
Anchorage					Y	N		
1. Is the anchorage of the 50% of SV Small hand value o Pipe rigidly suppor	VEL items requiri n~1" diameter pi	ng such verifica		one		X	]	
					Y	N	U_	N/A
2. Is the anchorage Wall mounted supp		_	oose hardware?		X			
					Y	N	U_	N/A
3. Is the anchorage oxidation?	free of corrosion	that is more than	n mild surface		X		<u> </u>	
	0 0 1 11			٥	Y	N	U	N/A
4. Is the anchorage	free of visible cra	icks in the conci	ete near the ancho	ors?	X	1	<u> </u>	
					Y	N_	U	N/A
	configuration contion only applies orage configuration	if the item is one	e of the 50% for	,		1		X
					Y	N	U	_
6. Based on the abo	ove anchorage eva erse seismic condi		anchorage free of		X			]



Status(Y)N U	J
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Equipment ID No. SF1616A Equip. Class 0d. Other - check valve or manual valve								
Equipment Description SFP Cleanup System FE 1616 KI Source								
Interaction Effects 7. Are soft targets free from impact by nearby equipment or structures?					Y	N	U	N/A
7. Are son targets	iree irom impact	by nearby equipment or	structures?					
					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	
	bove seismic inte dverse seismic int	raction evaluations, is eceraction effects?	quipment free		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	N	U	
					X			¥
Comments (Addit	tional pages may l	pe added as necessary)						
Evaluated by:	Eddie M. Guer	dette White I	P. E	_Date:	7/25/2012			
	6	bung Deffmu	/ ''	_Date:	7/25/2012			
	Adam L. Helft	ricii						



#### Seismic Walkdown Checklist (SWC)

Equipment ID No. SF1616A

Equip. Class 0d. Other - check valve or manual valve

**Equipment Description** 

SFP Cleanup System FE 1616 KI Source



SF1616A Plate ID Plate of component



SF1616A General
Overall view of component and anchorage



Status: N U

Equipment ID No.	SF47	_ Equip. Cl	lass 0d. Other	- check valv	e or m	anual valve			
Equipment Descrip	tion	SFP Inlet From S	FP Heat Excha	ngers					<b>-</b> -
Location: Bldg.	AUXB	_ Floor El.	591'2.5"	_ 1	Room	312	_		
Manufacturer, Mod	el, Etc.								
Instructions for Co This checklist may SWEL. The space t findings. Additiona	be used to below each	document the resul of the following qu	uestions may be	used to reco	ord the	results of ju	ıdgments ar		
Anchorage									
1. Is the anchorage	configurați	on verification rea	uired (i.e. is the	e item one		<u>Y</u>	$\frac{N}{X}$	7	
	VEL items	requiring such veri	fication)?	e item one		<u> </u>	<u> </u>	<b>_</b> .	
						Y	N	U	N/A
2. Is the anchorage	free of ben	t, broken, missing o	or loose hardwa	are?					X
						Y	N	U	N/A
3. Is the anchorage	free of cor	rosion that is more	than mild surfa	ce					X
oxidation?									
						Y	N	U	N/A
4. Is the anchorage	free of visi	ble cracks in the co	oncrete near the	anchors?			<u> </u>	<u> </u>	X
						Y	N	U	N/A
5. Is the anchorage	_		-						X
•		pplies if the item is guration verification		o for					
						Y	N	U	_
6. Based on the abo		-	he anchorage fr	ree of		X			_



Equipment ID No.	SF47	Equip. Class 0d. Other - check v	alve or ma	anual valve			
Equipment Descrip	otion	SFP Inlet From SFP Heat Exchangers					
Interaction Effect				Y	N	U	N/A
7. Are soft targets:	free from in	npact by nearby equipment or structures?		X		l	
8. Are overhead ed	uipment. di	stribution systems, ceiling tiles and lighting		Y	N	U	N/A
and masonry blo Seismic capacity of Block walls 3257 o	ck walls not f block wall and 3267 ver	likely to collapse onto the equipment? s in the area verified. rified to be to be seismically adequate 3, Rev 2 (4/27/88) and	,				
VBW16-B001-084,	Rev 5 (4/2)	7/88).		Y	N	U	N/A
9. Do attached line	s have adeq	uate flexibility to avoid damage?		X		<u>L</u> .	
				Y	N	U	•
		c interaction evaluations, is equipment free nic interaction effects?		X		L	
	ed for and f	ound no other seismic conditions that could		Y	N	U	1
adversely affect	t the safety	functions of the equipment?		X			
Comments (Addit	ional pages	may be added as necessary)				-	
Evaluated by:	Eddie M	Guerra	Date:	7/25/2012		-	
	Adam L.	Thurs Definition	Date:	7/25/2012		-	



#### Seismic Walkdown Checklist (SWC)

Equipment ID No. SF47

Equip. Class 0d. Other - check valve or manual valve

**Equipment Description** 

SFP Inlet From SFP Heat Exchangers



SF47 plate
ID Plate of component



SF47 general General view of component



#### Seismic Walkdown Checklist (SWC)

Equipment ID No. SF47 Equip. Class 0d. Other - check valve or manual valve

Equipment Description SFP Inlet From SFP Heat Exchangers



Sf47 adjacent block wall
Potential interaction hazard from masonry wall near unit



Status:(Y)N	U
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Equipment ID No.	SP17A7	_ Ec	juip. Class	7. Pneumat	ic-Operat	ed Valve	es				
Equipment Descript	tion	CODE SA	FETY VA	LVE SP17A7	7						• •
Location: Bldg.	AUXB	_ Fl	oor El.	643		Room	602				
Manufacturer, Mod	el, Etc.									_	
Instructions for Co This checklist may SWEL. The space be findings. Additiona	be used to o	document the follow	wing questi	ions may be u	ised to rec	ord the	results	of judg	ments an		
Anchorage								<b>3</b> 7	N		
1. Is the anchorage of the 50% of SV No degraded conditi	VEL items r	requiring su			item one			Y	X	]	
								Y	N	U	N/A
2. Is the anchorage	free of bent	t, broken, m	issing or lo	ose hardward	e?		<u> </u>				X
3. Is the anchorage oxidation?	free of corr	osion that i	s more thar	n mild surface	e			Y	N	U	N/A X
Valve and main line	e found with	h no signs o	f corrosion			`					
							Γ	Y	N	U	N/A
4. Is the anchorage	free of visit	ble cracks in	n the concr	ete near the a	nchors?			L	<u> </u>		X
5. Is the anchorage	configurați	on consiste	nt with nlar	nt documenta	tion?		_	<u>Y</u>	N	U	N/A X
(Note: This quest which an ancho	tion only ap	plies if the	item is one	of the 50% t			L	<u>.</u>			1 22
6. Based on the about potentially adve.		-		unchorage fre	e of			Y X	N	U	]



Status (Y) N	U
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Equipment ID No.	Equip. Class 7. Pneumatic-Opera	ted Valve	es			
Equipment Descri	ption CODE SAFETY VALVE SP17A7					
Interaction Effect 7. Are soft targets	ts free from impact by nearby equipment or structures?		Y	N	U	N/A
	quipment, distribution systems, ceiling tiles and lighting, ock walls not likely to collapse onto the equipment?		Y	N	U	N/A
9. Do attached line	es have adequate flexibility to avoid damage?		Y	N	U	N/A
	above seismic interaction evaluations, is equipment free adverse seismic interaction effects?		Y	N	U	
•	Conditions  tend for and found no other seismic conditions that could be the safety functions of the equipment?		Y X	N	U	
Comments (Addi	tional pages may be added as necessary)				-	
Evaluated by:	Eddie M. Guerra	_Date:	7/25/2012	.,	-	
	Adam L. Helffrich	_Date:	7/25/2012		_	



Equipment ID No.	SW1399	Equip. Class	8A. Motor-Ope	erated Valves				
Equipment Descrip	tion <u>MO</u>	V SW-1399						
Location: Bldg.	INTK	Floor El.	566.25	Room	53			
Manufacturer, Mod	lel, Etc.		<u></u>					
Instructions for C This checklist may SWEL. The space I findings. Additiona	be used to documbelow each of the	nent the results of following questi	ions may be used	to record the r	esults of jud	gments and		
Anchorage					V	N		
1. Is the anchorage of the 50% of SV No degraded condi	WEL items requir	_		one	Y	X	]	
2. Is the anchorage	free of bent, bro	ken, missing or lo	oose hardware?		Y	N	U	N/A X
3. Is the anchorage oxidation?	free of corrosion	that is more than	n mild surface		Y	N	U	N/A X
4. Is the anchorage	free of visible cr	acks in the concr	ete near the anch	ors?	Y	N	U	N/A X
5. Is the anchorage	-	-		?	Y	N	U	N/A X
	otion only applies orage configuration	on verification is	required.)	,	Y X	N	U	]
potentially adve	erse seismic cond	itions?						



Status(Y)N U

Equipment ID No.	SW1399 Equip. Class 8A. Motor-Operat	ted Valves				
Equipment Descrip	MOV SW-1399					
Interaction Effect			Y	N	U	N/A
7. Are soft targets	free from impact by nearby equipment or structures?					
	quipment, distribution systems, ceiling tiles and lighting	g,	Y	N	U	N/A
and masonry blo	ck walls not likely to collapse onto the equipment?					
0. Do attached line	es have adequate flexibility to avoid damage?		Y	N	U	N/A
	nd with adequate flexibility.					
10 Daged on the a	bove seismic interaction evaluations, is equipment free		Y	N	U	l
	dverse seismic interaction effects?	•	<u> </u>			I
	onditions  end for and found no other seismic conditions that could t the safety functions of the equipment?	d	Y	N	U	]
Comments (Addi	tional pages may be added as necessary)				-	
Evaluated by:	Eddie M. Guerra	Date:	7/25/2012		_	
	Adam L. Helffrich	Date:	7/25/2012		-	



## Seismic Walkdown Checklist (SWC)

Equipment ID No. SW1399

Equip. Class 8A. Motor-Operated Valves

**Equipment Description** 

MOV SW-1399



SW1399 plate ID Plate of component



SW1399 general General view of component



Equipment ID No.	SW3963	_ I	Equip. Class	7. Pneumati	c-Operate	d Valve	es				
Equipment Descrip	tion	RELIEF	VALVE SW	3963							<b>-</b> -
Location: Bldg.	INTK		Floor El.	566.25	F	Room	53				
Manufacturer, Mod	el, Etc.										
Instructions for Control This checklist may SWEL. The space be findings. Additional	be used to below each	document of the foll	the results of owing questi	ons may be u	sed to reco	rd the	results o	of judg	gments an		
Anchorage								J	N		
1. Is the anchorage	configurati	ion verifica	ation required	d (i.e., is the it	tem one		,	<u>Y</u>	$\frac{N}{X}$	1	
of the 50% of SV Mounted on inslude	VEL items:	requiring	such verificat	ion)?				·		_	
								Y ,	N	U	N/A
2. Is the anchorage	free of ben	it, broken,	missing or lo	ose hardware	?				<del></del> .	J	X
								J	N	T I	NI/A
3. Is the anchorage	free of cor	rosion that	is more than	mild surface				<u>Y</u>	N	U	N/A X
oxidation?								.,,,,,			
							<u> </u>	Υ	N	U_	N/A
4. Is the anchorage Anchorage of support Judged not to reduce	orting main	ı line found	d with minor	spalled grout							X
Juagea noi to read	ee seismie e	сирисну бу	зирроп оиз	ν.				Y	N	U	N/A
5. Is the anchorage (Note: This ques which an ancho	tion only a <sub>l</sub>	pplies if th	e item is one	of the 50% fo						1	<u> </u>
								Y	N	U	_
6. Based on the about potentially adve		-		nchorage free	e of			X		<u>l</u>	



# Status YN U Seismic Walkdown Checklist (SWC)

Equipment ID No.	Equip. Class /. Pneumatic-Opera	ited Vaive	es .			
Equipment Descri	ption RELIEF VALVE SW 3963					
Interaction Effect	ts free from impact by nearby equipment or structures?		Y	N	U	N/A
7. Are soft targets	free from impact by hearby equipment of structures:					
	quipment, distribution systems, ceiling tiles and lighting, ock walls not likely to collapse onto the equipment?		Y	N	U	N/A
9. Do attached line	es have adequate flexibility to avoid damage?		Y	N	U_	N/A
7. Do attached line	es have adequate hexiomity to avoid damage.		Y	N	U	
	above seismic interaction evaluations, is equipment free adverse seismic interaction effects?		X			
adversely affect	conditions  seed for and found no other seismic conditions that could be the safety functions of the equipment?  the a is properly restrained.		Y X	N	U	
Comments (Addi	tional pages may be added as necessary)	<del> </del>				
Evaluated by:	Eddie M. Guerra	_Date:	7/25/2012			
	Adam L. Helffrich	_Date:	7/25/2012			





### Seismic Walkdown Checklist (SWC)

Equipment ID No. SW3963 Equip. Class 7. Pneumatic-Operated Valves

Equipment Description RELIEF VALVE SW 3963



SW3963 Plate ID Plate of component



SW3963 General General view of component



Equipment ID No.	SW-5896	Equip. Class	7. Pneumatic-Opera	ated Valve	es			
Equipment Descrip	tion <u>CTR</u>	M EMERG CO	ND 1-1					
Location: Bldg.	AUXB	Floor El.	638	Room	603			
Manufacturer, Mod	lel, Etc.			_			_	
SWEL. The space b	be used to docume below each of the	nent the results of following question	f the Seismic Walkdo ons may be used to re his checklist for docur	ecord the	results of jud	gments an		
Anchorage					Y	N	_	
			d (i.e., is the item one			X	]	
of the 50% of SV Small valve on ~2.5	•	•	tion)? 5' with rigid supports.	Value is	~12"			
from one end of the						N	<b>T</b> T	NI/A
2. Is the anchorage	free of bent, brok	ken, missing or lo	oose hardware?		<u>Y</u>	N	U	N/A X
					Y	N	U	N/A
3. Is the anchorage	free of corrosion	that is more than	mild surface			11		X
oxidation?								
					Y	N	U	N/A
4. Is the anchorage	free of visible cr	acks in the concr	ete near the anchors?					X
5 I. d	<i>C</i>				Y	N	U	N/A X
	tion only applies	if the item is one	of the 50% for					
					Y	N_	U	1
6. Based on the about potentially adve	ove anchorage everse seismic condi		nchorage free of		X		<u> </u>	J



Equipment ID No.	. <u>SW-5</u>	896	Equip. Class	7. Pneumat	ic-Operate	d Valves	3			
Equipment Descri	ption	CTRM	EMERG CO	ND 1-1				-		
Interaction Effec 7. Are soft targets		ree from impact by nearby equipment or structures?					Y X	N I	U	N/A
Are overhead ed and masonry blo							Y	N_	<u>U</u>	N/A
9. Do attached line	es have ac	dequate flex	cibility to avoi	d damage?			Y X	N_	U	N/A
10. Based on the a of potentially a					ent free		Y X	N	U	]
Other Adverse C 11. Have you look adversely affect	ked for an	d found no			at could		YX	N	U	]
Comments (Addi	tional pag	ges may be	added as nece	ssary)						
Evaluated by:	Eddie	M. Guerra	dus U.S.	In It		Date:	7/25/2012	,	-	
	Adam	L. Helffric	my Die	Brie		Date:	7/25/2012	2	-	



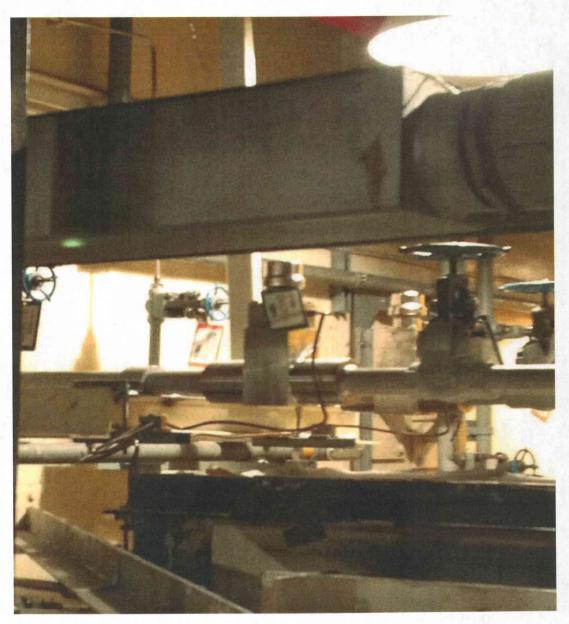
### Seismic Walkdown Checklist (SWC)

Equipment ID No. SW-5896

Equip. Class 7. Pneumatic-Operated Valves

**Equipment Description** 

CTRM EMERG COND 1-1



SW5896 general General view of component



Equipment ID No.	SW82	Equip. Class	0d. Other - chec	k/manual va	lve			
Equipment Descrip	tion <u>MA</u>	NUAL VALVE S	SW 82					• •
Location: Bldg.	INTK	Floor El.	565	Room	251	-		
Manufacturer, Mod	lel, Etc.						_	
Instructions for C This checklist may SWEL. The space I findings. Additiona	be used to document below each of the	ment the results of e following questi	ons may be used t	o record the	results of jud	gments an		
Anchorage					37	<b>N</b> T		
1. Is the anchorage	configuration v	rification require	d (i.a. is the item.	one	Y	N X	1	
_	-	ring such verificat		one		<u> </u>	J	
Small manual valve	•	•		pported				
at about three pipe				• •				
					Y	N	U	N/A
2. Is the anchorage	free of bent, bro	ken, missing or lo	ose hardware?			L	<u> </u>	X
					Y	N	U	N/A
3. Is the anchorage	free of corrosion	that is more than	mild surface				Ϊ́	X
oxidation?					L		<u> </u>	· · · · · · · · · · · · · · · · · · ·
							* *	37/1
1 Is the enchance	fron of visible a	maalsa in tha aaman			Y	N	U	N/A X
4. Is the anchorage	iree of visible c	racks in the concr	ete near the ancho	rs?	L	L		Λ
					Y	N	U	N/A
5. Is the anchorage								X
		s if the item is one on verification is						
					Y	N	U	_
6. Based on the abo	ove anchorage ev	aluations, is the a	nchorage free of		X			]
potentially adve	rse seismic cond	litions?					-	



Equipment ID No.	SW82 Equip. Class 0d. Other - check/m	ianual val	ve			
Equipment Descrip	ption MANUAL VALVE SW 82				-	
Interaction Effect			Y	N	<u>U</u>	N/A
7. Are soft targets	free from impact by nearby equipment or structures?		X			
8 Are overhead ed	quipment, distribution systems, ceiling tiles and lighting,		Y	N	U	N/A
	ck walls not likely to collapse onto the equipment?		<u> </u>			
9. Do attached line	es have adequate flexibility to avoid damage?		Y	N	U	N/A
			v	N	U	
	bove seismic interaction evaluations, is equipment free dverse seismic interaction effects?		X		-	
	onditions ed for and found no other seismic conditions that could t the safety functions of the equipment?		Y X	N	U	
Comments (Addit	tional pages may be added as necessary)				-	
Evaluated by:	Eddie M. Guerra	_Date:	7/25/2012			
	Adam L. Helffrich	_Date:	7/25/2012			
	Audii L. Heilileii					



## Seismic Walkdown Checklist (SWC)

Equipment ID No. SW82

Equip. Class 0d. Other - check/manual valve

**Equipment Description** 

MANUAL VALVE SW 82



SW82 Plate and General Overall view of component



Equipment ID No.	<u>T10</u>	Equip. Class	21. Tanks and I	Heat Exchange	ers			
Equipment Descrip	tion <u>BO</u>	RATED WATER	STORAGE TAN	IK 1-1				
Location: Bldg.	AUXB	Floor El.	565	Room	PT			
Manufacturer, Mod	lel, Etc.							
Instructions for Control This checklist may SWEL. The space of findings. Additional	be used to docu below each of th	ment the results of e following questi	ons may be used	to record the 1	esults of jud	gments and		
Anchorage	<i>a</i> :				Y	N		
1. Is the anchorage of the 50% of SV		ring such verifica		one				
2. Is the anchorage No missing parts in		oken, missing or lo	oose hardware?		Y	Ŋ	U	N/A
3. Is the anchorage		n that is more than	n mild surface		Y	N	U	N/A
oxidation? Slight surface rust	on one anchor b	olt. OK.						
4. Is the anchorage	free of visible of	racks in the concr	ete near the ancho	ors?	Y X	N	U	N/A
5. Is the anchorage	configuration c	onsistent with pla	nt documentation	?	Y	N_	U	N/A
(Note: This ques which an ancho Tank anchorage ve	stion only applie orage configurat erified from drav	s if the item is one ion verification is ving C-34-147 and	e of the 50% for required.)					
<ul><li>C-CSS-T10 showin</li><li>6. Based on the aboptentially adve</li></ul>		valuations, is the	anchorage free of		Y X	N	U	]



Equipment ID No	Equip. Class 21. Tanks and Heat	Exchange	ers			
Equipment Descri	ption BORATED WATER STORAGE TANK 1-	.1				
Interaction Effec			Y	N	U	N/A
	free from impact by nearby equipment or structures? enance equipment identified in the area but no significant ion was expected.		X			27/4
	quipment, distribution systems, ceiling tiles and lighting, ock walls not likely to collapse onto the equipment?		X	N	U	N/A
9. Do attached line	es have adequate flexibility to avoid damage?		Y	N	U	N/A
	above seismic interaction evaluations, is equipment free adverse seismic interaction effects?		Y	N	U	
	Conditions ked for and found no other seismic conditions that could ct the safety functions of the equipment?	-	Y X	N	U	
Comments (Addi	tional pages may be added as necessary)			<u>-</u>	-	
Evaluated by:	Eddie M. Guerra	_Date:	7/25/2012		-	
	Adam L. Helffrich	_Date:	7/25/2012	1	-	

#### Seismic Walkdown Checklist (SWC)

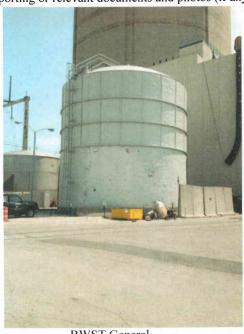
Status Y N U

Equipment ID No. T10

Equip. Class 21. Tanks and Heat Exchangers

**Equipment Description** 

BORATED WATER STORAGE TANK 1-1



BWST General
ID Plate of component



BWST Anchorage
Partial view of anchorage, view is typical of all anchors



Status: (Y)N U

Equipment ID No.	<u>T12</u>	Equip. Class	21. Tanks and Ho	eat Exchange	ers			
Equipment Descript	tion <u>COM</u>	PONENT COO	LING SURGE TA	NLK, T12				
Location: Bldg.	AUXB	Floor El.	623	Room	501			
Manufacturer, Mode	el, Etc.						_	
Instructions for Co This checklist may SWEL. The space b findings. Additional	be used to docume below each of the	ent the results of following questi	ons may be used to	record the	results of jud	gments an		
Anchorage					V	N		
1. Is the anchorage of the 50% of SW Horizontal tank on	VEL items requiri	ng such verificat	tion)?		X X stals.	N	]	
					Y	N	U	N/A
2. Is the anchorage A small gap ~1/4" f Judged not to be a small gap	ound between a n	ut and washer a		ion.	X			
3. Is the anchorage oxidation?	free of corrosion t	that is more than	n mild surface		Y X	N	U_	N/A
4. Is the anchorage	free of visible cra	cks in the concr	ete near the anchor	rs?	YX	N	U	N/A
See item 6 below.								
5. Is the anchorage	•	-			Y X	Ņ	U I	N/A
	tion only applies i rage configuration tion based on SQL	n verification is	required.)	g				
6. Based on the about	ove anchorage eva		anchorage free of		X	N	U	]
Hairline crack on o			lged not a significa	nt adverse c	ondition			



Equipment ID No.	T12 Equip. Class 21. Tanks and Heat Exchange	ers			
Equipment Descrip	tion COMPONENT COOLING SURGE TANLK, T12				
Interaction Effects		Y	N	U	N/A
7. Are soft targets f	ree from impact by nearby equipment or structures?	<u> </u>			
8. Are overhead equ	uipment, distribution systems, ceiling tiles and lighting,	Y	N	U	N/A
and masonry bloc	ck walls not likely to collapse onto the equipment?				
0. Do attached lines	s have adequate flexibility to avoid damage?	Y	N	U	N/A
7. Do attached fines	s have adequate nexionity to avoid damage.				
	pove seismic interaction evaluations, is equipment free	Y X	N	U	
-	lverse seismic interaction effects? running close to tank judged not an adverse condition				
Other Adverse Co	anditions			<del>-</del>	
11. Have you looke	ed for and found no other seismic conditions that could the safety functions of the equipment?	Y	N	U	]
Comments (Additi	ional pages may be added as necessary)			-	
Evaluated by:	Eddie M. Guerra  Date:	7/25/2012		-	
	Blum Dellow Date:	7/25/2012		_	
	Adam L. Helffrich				



#### Seismic Walkdown Checklist (SWC)

Equipment ID No. T12

Equip. Class 21. Tanks and Heat Exchangers

**Equipment Description** 

#### COMPONENT COOLING SURGE TANLK, T12



T12 plate
ID Plate of component



T12 general General view of component



#### Seismic Walkdown Checklist (SWC)

Equipment ID No. T12 Equip. Class 21. Tanks and Heat Exchangers

Equipment Description COMPONENT COOLING SURGE TANLK, T12



T12 anchorage typical
Partial view of anchorage, view is typical of all anchors



T12 loose bolt front right
Anchor bolt coming loose on the front right of component



### Seismic Walkdown Checklist (SWC)

Equipment ID No. T12 Equip. Class 21. Tanks and Heat Exchangers

Equipment Description COMPONENT COOLING SURGE TANLK, T12



T12 Pedestal with Minor Hairline Crack



Equipment ID No.	<u>T153-1</u>	Equip. Class	21. Tanks and H	eat Exchang	ers			
Equipment Descrip	tion <u>ED</u>	G FUEL OIL STO	ORAGE TANK 1-	1, FOR EDG	1-1, PARTI	ALLY BE	LOW GR	OUND
Location: Bldg.	YARD	Floor El.	YARD	Room	YARD			
Manufacturer, Mod	lel, Etc.	Water to the same of the same					_	
Instructions for C This checklist may SWEL. The space be findings. Additional	be used to docu below each of th	ment the results one following questi	ions may be used t	o record the	results of jud	gments an		
Anchorage					Y	N		
1. Is the anchorage of the 50% of SV Tank partially buri	WEL items requ	iring such verifica		one		N X	]	
2. Is the anchorage None observed.	free of bent, bro	oken, missing or k	oose hardware?		Y X	N	U	N/A
3. Is the anchorage oxidation?			n mild surface		Y X	N	U	N/A
None observed, and	cnorage noi acc	essioie.						27/1
4. Is the anchorage None observed, and			ete near the ancho	rs?	X	N	U	N/A
5. Is the anchorage	-	_			Y	N_	U	N/A X
		s if the item is one ion verification is						
C Possel at a large	. 1	1 2 2 2	h 6 6		Y	N	U U	1
<ol><li>Based on the about potentially adve</li></ol>			anchorage free of		<u>X</u>	L	L	J



Equipment ID No.	Equip. Class 21. Tanks and Heat Exchang	ers			
Equipment Descrip	ption EDG FUEL OIL STORAGE TANK 1-1, FOR EDG	1-1, PARTI/	ALLY BE	LOW GR	OUND
Interaction Effect 7. Are soft targets	ts free from impact by nearby equipment or structures?	Y	N	U	N/A
	quipment, distribution systems, ceiling tiles and lighting, ock walls not likely to collapse onto the equipment?	Y	N	U	N/A
9. Do attached line	es have adequate flexibility to avoid damage?	Y X	N_	U	N/A
	above seismic interaction evaluations, is equipment free diverse seismic interaction effects?	Y	N	U_	]
•	conditions  ted for and found no other seismic conditions that could  tet the safety functions of the equipment?	Y	N	U	]
	tional pages may be added as necessary) (S-T153-1 concludes anchorage and attached lines are adequate.			-	
Evaluated by:	Eddie M. Guerra  Date:	7/25/2012		-	
	Adam L. Helffrich Date:	7/25/2012		_	





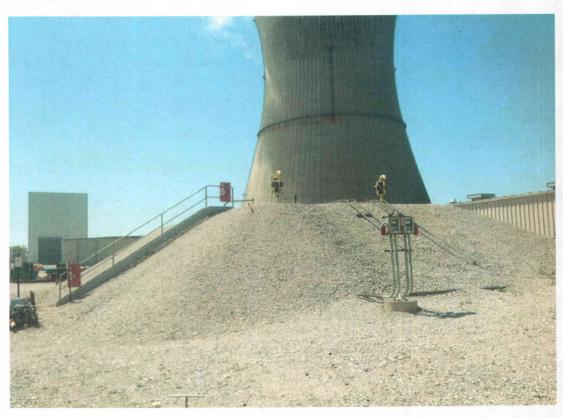
#### Seismic Walkdown Checklist (SWC)

Equipment ID No. T153-1

Equip. Class 21. Tanks and Heat Exchangers

**Equipment Description** 

EDG FUEL OIL STORAGE TANK 1-1, FOR EDG 1-1, PARTIALLY BELOW GROUND



T153-1 General General View of Component



Status:(Y)N U

Equipment ID No.	<u>T46-1</u>	Equip. Class	21. Tanks and He	eat Exchang	ers			
Equipment Descript	tion <u>EM</u> E	ERGENCY DIES	EL GENERATOR	DAY TAN	K 1-1, FOR	EDG 1-1		- -
Location: Bldg.	AUXB	Floor El.	585	Room	321A			
Manufacturer, Mod	el, Etc.							
Instructions for Co This checklist may SWEL. The space b findings. Additional	be used to documelow each of the	ent the results of following questi	ons may be used to	record the	results of jud	gments and		
Anchorage					V	N		
1. Is the anchorage	configuration vei	rification required	d (i.e., is the item o	ne	X	N		
of the 50% of SW Each tank saddle ar	VEL items requir	ing such verificat						
					Y	N	U	N/A
2. Is the anchorage	free of bent, brok	en, missing or lo	ose hardware?		X			
					Y	N	U	N/A
3. Is the anchorage oxidation?	free of corrosion	that is more than	mild surface		X			
Anchorage found in	good condition.	No signs of corre	osion identified.					
					Y	N	U	N/A
4. Is the anchorage	free of visible cra	icks in the concre	ete near the anchors	s?	X			-
					Y	N	U	N/A
5. Is the anchorage	configuration cor	nsistent with plan	t documentation?		X			
(Note: This quest which an anchor Anchorage verified for two saddles and	rage configuratio from SQUG calc	n verification is r C-CSS-T46-1 ar	equired.) ad drawing C-0213.	A				
6 Raced on the cha	ve ancharaca au	duations is the s	naharaga fras af		Y	N	U	1
6. Based on the abo potentially adver	rse seismic condi		nenorage free of		^_	<u> </u>		J



Equipment ID No.	Equip. Class 21. Tanks and Heat Exchanger	rs			
Equipment Descri	ption EMERGENCY DIESEL GENERATOR DAY TANK	( 1-1, FOR I	EDG 1-1		
nteraction Effec		Y	N	U	N/A
. Are soft targets	free from impact by nearby equipment or structures?	X			
		Y_	N	U	N/A
and masonry blo Seismic capacity of	quipment, distribution systems, ceiling tiles and lighting, ock walls not likely to collapse onto the equipment?  of block walls in the area verified.	X			
	and 306D verified to be to be seismically adequate based on refs. 5, Rev 5 (4/21/88) and VBW12-B001-066, Rev 6 (8/26/87)	Y	N	U	N/A
). Do attached line	es have adequate flexibility to avoid damage?	X			
10 Based on the a	above seismic interaction evaluations, is equipment free	Y	N	U	
	dverse seismic interaction effects?				-
	Conditions  seed for and found no other seismic conditions that could  et the safety functions of the equipment?	Y X	N	U	
Comments (Addi	tional pages may be added as necessary)		····		
	The Mil A				
Evaluated by:	Eddie M. Guerra  Date:	7/25/2012			
	Adam L. Helffrich	7/25/2012			



#### Seismic Walkdown Checklist (SWC)

Equipment ID No. T46-1 Equip. Class 21. Tanks and Heat Exchangers

Equipment Description EMERGENCY DIESEL GENERATOR DAY TANK 1-1, FOR EDG 1-1



T46-1 plate
ID Plate of component



T46-1 general General view of component



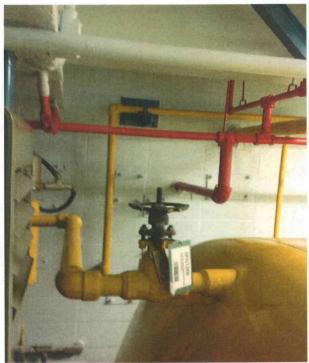
#### Seismic Walkdown Checklist (SWC)

Equipment ID No. T46-1 Equip. Class 21. Tanks and Heat Exchangers

Equipment Description EMERGENCY DIESEL GENERATOR DAY TANK 1-1, FOR EDG 1-1



T46-1 anchorage
Partial view of anchorage, view is typical of all anchors



T46-1 masonry wall
Potential interaction hazard from masonry wall near unit



Equipment ID No.	TE-5329	Equip. Cl	lass 19. T	emperature S	ensors				
Equipment Descrip	tion	EDG RM 318 TE	MP ELEM	IENT					- -
Location: Bldg.	AUXB	Floor El.	585		Room	318	-		
Manufacturer, Mod	el, Etc.							_	
Instructions for Co This checklist may SWEL. The space be findings. Additional	be used to opelow each	locument the resul of the following qu	uestions ma	y be used to	record the	results of jud	gments an		
Anchorage		-				Y	N		
1. Is the anchorage				is the item on	e		X	]	
of the 50% of SV Very small tempera diameter channel n two 3/8" diameter of	iture elemer uts.  The str	ut channel is then	ut channel						
2. Is the anchorage	free of bent	, broken, missing	or loose ha	rdware?		Y	N_	U	N/A X
3. Is the anchorage oxidation?	free of corr	osion that is more	than mild s	surface		Y	N	U	N/A X
4. Is the anchorage	free of visi	ole crocks in the cook	oncrata nag	r the anchors	7	Y	N I	U_	N/A X
4. Is the allehorage	iree or visi	ore cracks in the co	oncrete nea	i the anchors	ı		1	1	
5. Is the anchorage	configuration	on consistent with	nlant docu	mentation?		Y	N	<u>U</u>	N/A X
(Note: This ques	tion only ap	oplies if the item is uration verification	one of the	50% for		<b>L</b>		J.,	
6. Based on the aboreout ally adve		-	the anchora	ige free of		Y X	N	U	]



Status (Y)N U

Equipment ID No	Equip. Class 19. Temperature Sensors				
Equipment Descri	EDG RM 318 TEMP ELEMENT				
Interaction Effec	ets	Y	N	- U	N/A
7. Are soft targets	free from impact by nearby equipment or structures?	X			
		Y	N	U	N/A
and masonry blo Component is and	quipment, distribution systems, ceiling tiles and lighting, ock walls not likely to collapse onto the equipment? Therefore to Block Walls 308D/309D. Seismic adequacy verified by 12-B001-068, Rev 3 (5/27/81) and VBW13-B001-069, Rev 3 (5/28)	X 3/81)			
9. Do attached line	es have adequate flexibility to avoid damage?	X	N	U	N/A
	above seismic interaction evaluations, is equipment free adverse seismic interaction effects?	Y	N	U	
•	ked for and found no other seismic conditions that could	Y	N	- U	ı
adversely affec	et the safety functions of the equipment?	X		<u> </u>	ł
Comments (Addi	tional pages may be added as necessary)			<u>-</u>	
Evaluated by:	Eddie M. Guerra  Date:	7/25/2012		_	
	Adam L. Helffrich Date:	7/25/2012		-	



#### Seismic Walkdown Checklist (SWC)

Equipment ID No. TE-5329

Equip. Class 19. Temperature Sensors

**Equipment Description** 

EDG RM 318 TEMP ELEMENT



TE5329 plate and general Overall view of component and anchorage



Equipment ID No.	TS-5261	_ Equ	ip. Class	18. Instrum	ent (on) R	acks					
Equipment Descrip	tion	CTRM EM	ERG VEN	NT FAN 1 TE	MP SWT						<del>-</del>
Location: Bldg.	AUXB	_ Flo	or El.	638	I	Room	603				
Manufacturer, Mod	el, Etc.							_			
Instructions for Control This checklist may SWEL. The space of findings. Additional	be used to opelow each	document the of the follow	ing questi	ions may be u	sed to reco	ord the 1	results of	judgm			
Anchorage							v		N		
1. Is the anchorage	configuration	on verificatio	n require	d (ie isthei	tem one		Y		N X	]	
Very lightweight te anchored to floor w channels (to HSS) v	ith four 1/2	?" diameter a	nchor bol	ts. The senso				l strut	N	U	N/A
2. Is the anchorage	free of bent	t, broken, mi	ssing or lo	oose hardware	?		X				
3. Is the anchorage oxidation?	free of corr	osion that is	more thar	n mild surface			Y X		N	U	N/A
4. Is the anchorage	free of visi	ble cracks in	the concr	ete near the a	nchors?		Y		N	U	N/A
							Y		N	<u>U</u>	N/A
5. Is the anchorage (Note: This ques which an ancho	tion only ap	oplies if the i	tem is one	of the 50% f			<b>L</b>			<u> </u>	X
6. Based on the aboreout ally adve		-	ns, is the a	anchorage free	e of		Y X		N	U	]



Equipment ID No.	TS-5261 Equip. Class 18. Instrument (on) Racks				
Equipment Descrip	CTRM EMERG VENT FAN I TEMP SWT				•
Interaction Effect 7. Are soft targets	free from impact by nearby equipment or structures?	Y	N	U	N/A
	quipment, distribution systems, ceiling tiles and lighting,	Y	N	U	N/A
Seismic capacity of Block walls 6017,	ck walls not likely to collapse onto the equipment?  f block walls in the area verified.  6107 and 6097 verified to be to be seismically adequate  31-B001-164, Rev 3 (2/14/06),				
VBW32-B001-168,	s Rev 2 (5/10/88) and VBW32-B001-167, Rev 8 (11/7/84). es have adequate flexibility to avoid damage?	Y	N	U_	N/A
9. Do attached line	s nave adequate nexionity to avoid damage?	Λ			L
10. Based on the a	bove seismic interaction evaluations, is equipment free	Y	N	U	]
	dverse seismic interaction effects?			- -	
-	ed for and found no other seismic conditions that could	Y	N	U	1
•	t the safety functions of the equipment?  other nearby instrument racks was judged adequate.	X			J
Comments (Addit	tional pages may be added as necessary)	-	,	-	
Evaluated by:	Eddie M. Guerra  Date:	7/25/2012		-	
	Adam L. Helffrich	: <u>7/25/2012</u>		_	



### Seismic Walkdown Checklist (SWC)

Equipment ID No. TS-5261

Equip. Class 18. Instrument (on) Racks

**Equipment Description** 

CTRM EMERG VENT FAN 1 TEMP SWT



T5261 plate
ID Plate of component



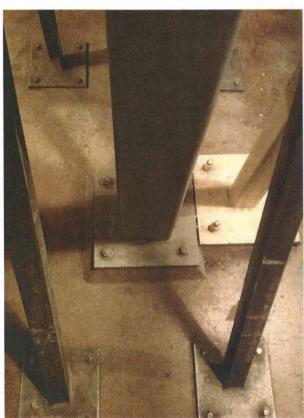
T5261 general General view of component



### Seismic Walkdown Checklist (SWC)

Equipment ID No. TS-5261 Equip. Class 18. Instrument (on) Racks

Equipment Description CTRM EMERG VENT FAN 1 TEMP SWT



T5261 anchorage View of anchorage



T5261 block wall
Potential interaction hazard from masonry wall near unit



Equipment ID No.	XCE1-1	Equip. Class	4. Transformers					
Equipment Descript	tion <u>TRAN</u>	SFORMER CE	E 1-1					
Location: Bldg.	AUXB	Floor El.	603	Room	429			
Manufacturer, Mod	el, Etc.			<del></del>			_	
SWEL. The space b	be used to docume below each of the f	nt the results of ollowing questi	the Seismic Walkdo ons may be used to r is checklist for docu	ecord the	results of jud	gments an		
Anchorage					<b>3</b> 7	NT		
1. Is the anchorage	configuration verif	fication required	l (i.e., is the item one	e	X	N	]	
		ansformer is we	elded to embed chan	nels				
2. Is the anchorage	free of bent, broke	n, missing or lo	ose hardware?		$\frac{Y}{X}$	N_	U	N/A
z, is the anonerage	nee or oung orone	ii, missing or io					·	
					Y	N	U	N/A
3. Is the anchorage oxidation?	free of corrosion th	hat is more than	mild surface		X			
4 Is the anchorage	from of visible area	dre in the concr	ete near the anchors?		Y	N_	U	N/A
4. Is the anchorage	iree or visible crac	ks in the concre	ete near the anchors:				<u> </u>	
E Is the encharges	and annation and	istant with alon	t de commentation?		Y	N	U	N/A
which an ancho Anchorage configu Based on page 6 of	tion only applies if orage configuration ration evaluated in 11 of C-CSS-DF1	the item is one verification is a SQUG calcular, confirmed the	of the 50% for required.)  tions C-CSS-CE1-1		S-DF1-2 and			
6. Based on the abo	ove anchorage eval	uations, is the a	nchorage free of		X	N_	U 	
	rse seismic conditi		Č					-



Equipment ID No.	XCE1-1 Equip. Class 4. Transformers				
Equipment Descrip	otion TRANSFORMER CE 1-1			<u> </u>	
Interaction Effect		Y	N	- U	N/A
7. Are soft targets	free from impact by nearby equipment or structures?	X	<del></del>		
	uipment, distribution systems, ceiling tiles and lighting, ck walls not likely to collapse onto the equipment?	Y	N	U	N/A
	action hazard indetified in the area.				
9. Do attached line	es have adequate flexibility to avoid damage?	Y	N	U	N/A
		Y	N	U	
	bove seismic interaction evaluations, is equipment free dverse seismic interaction effects?	X			
	ed for and found no other seismic conditions that could the safety functions of the equipment?	Y	N	U	
Comments (Addit	ional pages may be added as necessary)			-	
Evaluated by:	Eddie M. Guerra  Date:	7/25/2012		-	
	Adam L. Helffrich	7/25/2012		-	



### Seismic Walkdown Checklist (SWC)

Equipment ID No. XCE1-1

Equip. Class 4. Transformers

**Equipment Description** 

TRANSFORMER CE 1-1



XCE-1 Plate ID Plate of component



XCE-1 General
General view of component

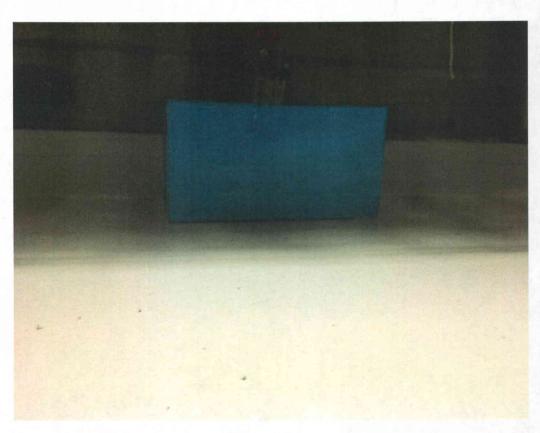


### Seismic Walkdown Checklist (SWC)

Equipment ID No. XCE1-1 Equip. Cla

Equip. Class 4. Transformers

Equipment Description TRANSFORMER CE 1-1



XCE-1 Stitch Weld
Partial view of anchorage, view is typical of all anchors



Status: YN	U
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Equipment ID No.	XDF1-2	Equip. Class	4. Transformers					
Equipment Description	on <u>TRAN</u>	ISFORMER DI	T-2					•
Location: Bldg.	AUXB	Floor El.	603	Room	428			
Manufacturer, Model	, Etc.			-				
Instructions for Con This checklist may be SWEL. The space bel findings. Additional s	e used to docume low each of the f	nt the results of ollowing questi	ons may be used to	record the re	sults of jud	gments and		
Anchorage					Y	N		
1. Is the anchorage co of the 50% of SWE Attached to unit subst	EL items requirin	g such verificat	tion)?		X			
with stitch welds at o					Y	N	U	N/A
2. Is the anchorage fr	ee of bent, broke	n, missing or lo	ose hardware?		X			
3. Is the anchorage fr	ee of corrosion t	nat is more than	mild surface		Y	N	U	N/A
oxidation?								
4. Is the anchorage fr	ree of visible crac	ks in the concre	ete near the anchors	s?	Y	N	U	N/A
					Y	N	U_	N/A
5. Is the anchorage of (Note: This question which an anchorage As-installed anchorage Based on page 6 of 1 side has two 3/8" this	on only applies if age configuration ge configuration I of C-CSS-DF1	the item is one verification is evaluated and j-2, confirmed the	of the 50% for required.) found adequate in State one		X ation C-CSS	S-DF1-2.		
6. Based on the above potentially advers	_		inchorage free of		Y	N	U	]



Status(Y)N U

Equipment ID No.	XDF1-2 Equip. Class 4. Transformers				
Equipment Descrip	otion TRANSFORMER DF 1-2				
Interaction Effect	ts free from impact by nearby equipment or structures?	Y	N	U	N/A
7. The soft angels	nee from impact by ficulty equipment of structures.				
	quipment, distribution systems, ceiling tiles and lighting, ck walls not likely to collapse onto the equipment?	Y	N	U	N/A
	action hazard indetified in the area.				
9. Do attached line	es have adequate flexibility to avoid damage?	Y X	N	U	N/A
		Y	N	U	
	bove seismic interaction evaluations, is equipment free dverse seismic interaction effects?	X	IN		
Other Adverse Co		W. Co.		_	
•	ed for and found no other seismic conditions that could the safety functions of the equipment?	Y	N	U	
Comments (Addit	ional pages may be added as necessary)			-	
Evaluated by:	Eddie M. Guerra  Date:	7/25/2012		_	
	Chang De Jones Date:	7/25/2012		_	
	Adam L. Helffrich				



### Seismic Walkdown Checklist (SWC)

Equipment ID No. XDF1-2

Equip. Class 4. Transformers

**Equipment Description** 

TRANSFORMER DF 1-2



XDF1-2 Plate
ID Plate of component



XDF1-2 General General view of component



### Seismic Walkdown Checklist (SWC)

Equipment ID No. XDF1-2

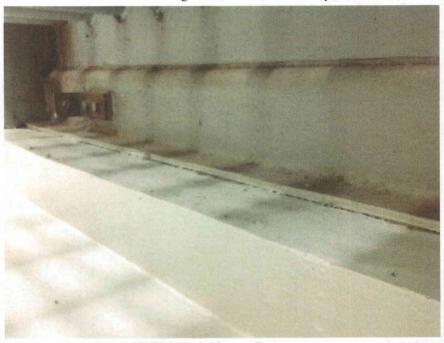
Equip. Class 4. Transformers

**Equipment Description** 

TRANSFORMER DF 1-2



XDF1-2 Stitch Weld Front
Unit is stitch welded along the entire front of the component



XDF1-2 No Anchorage Rear No welding apparent on rear of component as used on the front of the unit



Status: (Y) N U	J
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Equipment ID No.	<u>Y105</u>	Equip. Class	20. Instrumer	nt and Control P	anels			
Equipment Descript	tion <u>EI</u>	OG 1-1 DISCONN	ECT SWITCH	FOR C3615 insi	ide PNL Y1			•
Location: Bldg.	AUXB	Floor El.	603	Room	429			
Manufacturer, Mod	el, Etc.	<u> </u>	· · · · · · · · · · · · · · · · · · ·				_	
Instructions for Co This checklist may SWEL. The space b findings. Additiona	be used to docu below each of the	ament the results o he following quest	ions may be use	ed to record the	results of jud	gments an		
Anchorage								
1. Is the anchorage of the 50% of SW Inside Panel Y1. Po No degraded condi	VEL items requanted was	iiring such verifica	tion)?	m one	Y	N X	]	
No degraded condi	tion jouna.				Y	N	U	N/A
2. Is the anchorage None observed duri		oken, missing or lo	oose hardware?		X			
3. Is the anchorage oxidation?	free of corrosic	on that is more than	n mild surface		Y X	N	U	N/A
None observed duri	ing walkdown.							
4. Is the anchorage	free of visible	cracks in the concr	ete near the and	chors?	Y X	N	U	N/A
None observed duri	ing walkdown.							
					Y	N	U	N/A
_	tion only applic	consistent with plants if the item is one tion verification is	of the 50% for					X
6. Based on the aboreout potentially adversarially	_		anchorage free	of	Y	N	U	]



Status:(Y)N U	J
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Equipment ID No.	Equip. Class 20. Instrument and	Control P	anels			
Equipment Descri	ption EDG 1-1 DISCONNECT SWITCH FOR C	C3615 ins	ide PNL Y1			
Interaction Effect 7. Are soft targets	ts free from impact by nearby equipment or structures?		Y	N	U	N/A
	quipment, distribution systems, ceiling tiles and lighting, ock walls not likely to collapse onto the equipment?	,	Y	N	U	N/A
	es have adequate flexibility to avoid damage?  ided by top entry conduit.		Y X	N	U	N/A
	above seismic interaction evaluations, is equipment free adverse seismic interaction effects?		Y X	N	U	
	Conditions  seed 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)				-	
Evaluated by:	Eddie M. Guerra	_Date:	7/25/2012		-	
	Adam L. Helffrich	_Date:	7/25/2012		_	



Status:(Y)N U

Equipment ID No.	<u>Y2</u>	Equip. Class	14. Distributi	on Panels				
Equipment Descrip	tion	PNL Y2						
Location: Bldg.	AUXB	Floor El.	603	Room	428	_		
Manufacturer, Mod	el, Etc.						_	
SWEL. The space b	be used to below each	Checklist document the results o of the following quest provided at the end of the	ions may be use	d to record the	results of jud	dgments an		
Anchorage						<b></b>		
	-	ion verification require requiring such verifica		m one	X	N		
		liameter anchor bolts a	• • •		mahor			
brackets at one state	e oj ine par	nel which are anchored	i each with one .	5/4 aiameiei i	YY	N	U_	N/A
2. Is the anchorage	free of ben	t, broken, missing or lo	oose hardware?		X			
					Y	N	U	N/A
3. Is the anchorage oxidation?	free of cor	rosion that is more than	n mild surface		X	<u> </u>		
					Y	N	U	N/A
4. Is the anchorage	free of visi	ible cracks in the concr	ete near the and	hors?	X			<u> </u>
					Y_	N	U	N/A
(Note: This ques which an ancho	tion only a orage config	ion consistent with plant pplies if the item is one guration verification is nown seismically adequates.	e of the 50% for required.)		X SS-Y2.			
6. Based on the about potentially adve		age evaluations, is the a	anchorage free o	of	Y X	N	U	]



# Status(Y)N U

Equipment ID No	Equip. Class 14. Distribution Panels				
Equipment Descri	ption PNL Y2				
Interaction Effec	rts free from impact by nearby equipment or structures?	Y	N	U	N/A
	s are rigidly connected and provide	A			
	quipment, distribution systems, ceiling tiles and lighting, ock walls not likely to collapse onto the equipment?	Y	N	U	N/A
9. Do attached line	es have adequate flexibility to avoid damage?	Y	N_	U	N/A
10 Based on the s	above seismic interaction evaluations, is equipment free	Y	N	U	
	adverse seismic interaction effects?				•
•	Conditions  ked for and found no other seismic conditions that could  t the safety functions of the equipment?	Y	N	U	l
Comments (Addi	tional pages may be added as necessary)			-	
Evaluated by:	Teddio M. Course Date:	7/25/2012			
	Eddie M. Guerra  Share Date:	7/25/2012			



### Seismic Walkdown Checklist (SWC)

Equipment ID No. Y2	Equip. Class	14. Distribution Panels
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Equipment Description P

PNL Y2



Y2 plate ID Plate of component



Y2 general General view of component



### Seismic Walkdown Checklist (SWC)

Equipment ID No. Y2

Equip. Class 14. Distribution Panels

**Equipment Description** 

PNL Y2



Y2 anchorage Partial view of anchorage, view is typical of all anchors



Y2 anchorage one side only Additional anchorage on outside of the unit, on one side only



No adverse condition identified for stitch weld of cabinet.

Status: Y	$\mathcal{I}$	U
_	_	

Equipment ID No.	YE2B	Equip. Class	4. Transformers	3				
Equipment Descrip	tion 2	40-120V TRANSFO	RMER					<b>.</b>
Location: Bldg.	AUXB	Floor El.	585	Room	304			
Manufacturer, Mod	el, Etc.							
SWEL. The space b	be used to doo below each of	ecklist cument the results of the following question ided at the end of th	ons may be used	to record the	results of j	udgments an		
Anchorage								
1 Is the analysmass	C 4:	:c:	Contact to		Y	N X	1	
-	-	verification required uiring such verificati		one	L	X	_	
			,.					
					Y	N	U	N/A
2. Is the anchorage	free of bent, b	roken, missing or lo	ose hardware?		X			1,,,,,
					Y_	N	U	N/A
	free of corrosi	on that is more than	mild surface		X			
oxidation?								
					Y	N	U	N/A
4. Is the anchorage	free of visible	cracks in the concre	te near the ancho	rs?	X			1,771
_								
					Y	N	U	N/A
	_	consistent with plant						X
		es if the item is one ation verification is re						
					Y	N	U	
	_	evaluations, is the ar	chorage free of		X			]
potentially adver			aa	1				
		C YE2. 3 Section Mo d base channels with		_	hase chann	nel .		
		channel in concrete j		ons and me	Case Chaill	•		



Status(Y)N 1	U
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Equipment ID No.	YE2B	Equip. Class 4. Transform	ners				
Equipment Descri	ption	240-120V TRANSFORMER			·		
Interaction Effec			0	Y	N	U	N/A
-		mpact by nearby equipment or structur Identified in the area.	res?	X		<u> </u>	
		listribution systems, ceiling tiles and li ot likely to collapse onto the equipmen	-	Y X	N	U	N/A
		quate flexibility to avoid damage?		Y	N_	U	N/A
10. Based on the a	bove seism	igid supports and will provide lateral r iic interaction evaluations, is equipmer mic interaction effects?		Y X	N	U	
•	ed for and	found no other seismic conditions that functions of the equipment?	could	Y	N	U	
Comments (Addi	tional page	s may be added as necessary)				-	
Evaluated by:	Eddie N	Add Michael 1. Guerra	Date:	7/25/2012		-	
	Adam I	Blum Defferen	Date:	7/25/2012		-	

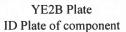


### Seismic Walkdown Checklist (SWC)

Equipment ID No. YE2B Equip. Class 4. Transformers

Equipment Description 240-120V TRANSFORMER







YE2B General General view of component



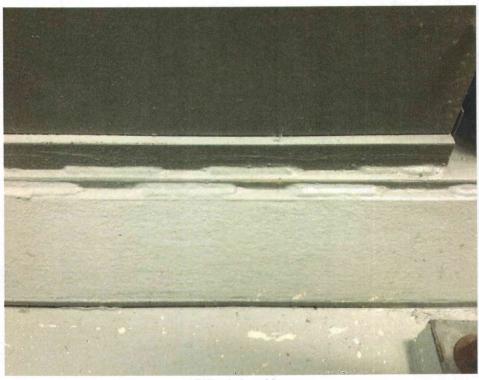
### Seismic Walkdown Checklist (SWC)

Equipment ID No. YE2B

Equip. Class 4. Transformers

**Equipment Description** 

240-120V TRANSFORMER



YE2B stitch weld Partial view of anchorage, view is typical of all anchors



Equipment ID No. YF1 Equi	p. Class 14. Distribution	on Panels				
Equipment Description MCC YF1,	Emergency Diesel Gener	rator Room 2				
Location: Bldg. AUXB Floo	r El. <u>585</u>	Room	319			
Manufacturer, Model, Etc.						
Instructions for Completing Checklist This checklist may be used to document the SWEL. The space below each of the followi findings. Additional space is provided at the	ng questions may be used	d to record the	results of jud	gments and		
Anchorage			V	N		
1. Is the anchorage configuration verification	n required (i.e., is the iten	n one	X	N		
of the 50% of SWEL items requiring such in line with MCC F12B welded to embedded an average of at least 5" of 3/16" fillet welds	channel with					/.
2. Is the anchorage free of bent, broken, miss	sing or loose hardware?		Y	N	U	N/A
3. Is the anchorage free of corrosion that is r			Y X	N	U	N/A
oxidation?	ldd	0	Y	N	U	N/A
4. Is the anchorage free of visible cracks in t	he concrete near the anch	nors?	X			
		0	Y	N	U	N/A
5. Is the anchorage configuration consistent (Note: This question only applies if the ite which an anchorage configuration verific SQUG calculations C-CSS-YF1 and C-CSS the as-built anchorage configuration.	em is one of the 50% for cation is required.)		X			
6. Based on the above anchorage evaluations potentially adverse seismic conditions?	s, is the anchorage free o	f	Y	N	U	]



Status(Y)N	U
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Equipment ID No.	YF1 Equip. Class 14. Distribution Panels				
Equipment Descri	ption MCC YF1, Emergency Diesel Generator Room 2		<u>.</u>		
Interaction Effec	ts free from impact by nearby equipment or structures?	Y	N		N/A
	quipment identified in the area.	A			
	quipment, distribution systems, ceiling tiles and lighting, ock walls not likely to collapse onto the equipment?	Y	N	U	N/A
		Y	N	U	N/A
9. Do attached line	es have adequate flexibility to avoid damage?	X			
	bove seismic interaction evaluations, is equipment free dverse seismic interaction effects?	Y X	N	U	
	onditions  red for and found no other seismic conditions that could t the safety functions of the equipment?	YX	N	U	
Comments (Addi	tional pages may be added as necessary)			•	
Evaluated by:	Eddie M. Guerra  Date:	7/25/2012		-	
	Adam L. Helffrich	7/25/2012		-	



## Seismic Walkdown Checklist (SWC)

Equipment ID No. YF1

Equip. Class 14. Distribution Panels

**Equipment Description** 

MCC YF1, Emergency Diesel Generator Room 2



YF1 Plate ID Plate of component



YF1 General General view of component



# Status: Y U

Equipment ID No.	YRF2	_ Equ	uip. Class	16. Batte	ry Charger	s and Inv	erters				
Equipment Descrip	tion	Regulating	Rectifier	YRF2							- -
Location: Bldg.	AUXB	Flo	or El.	603	_	Room	428				
Manufacturer, Mod	el, Etc.	-				-				_	
Instructions for Co This checklist may SWEL. The space t findings. Additiona	be used to below each	document the of the follow	ing questi	ons may be	e used to re	cord the	results	of judg	gments an		
Anchorage								. 7	N		
1. Is the anchorage	configurat	ion verification	on require	d (i.e., is th	e item one			Y X	N	]	
of the 50% of SV The equipment is in of these panels was with four 1" diamet	a line with verified.	h other cabin Each of these	ets D2P a	nd YV2. TV							
								Y	N	U_	N/A
2. Is the anchorage	free of ber	nt, broken, mi	ssing or lo	ose hardwa	are?			X		<u> </u>	
							•	Y	N	U	N/A
3. Is the anchorage oxidation?	free of cor	rosion that is	more than	mild surfa	ice			X			1071
4. Is the anchorage	free of vis	ible cracks in	the concre	ete near the	anchors?			Y X [	N	U	N/A
	<b>a</b>						,	Y	N	U	N/A
5. Is the anchorage (Note: This quest which an ancho SQUG calculation of YRF2 is referenced The seismic qualification of	tion only a rage config C-CSS-YV. as lighter cation of th	applies if the i guration verif 2 references I and exact sai he line-up tha	tem is one ication is:  YRF2 with ne cabinet	of the 50% required.) no anchor tas YV2.	6 for age concer			X ]	N	11	
6. Based on the abo	ve anchor	age evaluatio	ns is the a	nchorage f	ree of			$\frac{Y}{X}$	N	U	1
notentially adver		-	, 15 tile a					· ^		1	J



Status:(Y)N	U
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Equipment ID No	Equip. Class 16. Battery Chargers and I	nverters			
Equipment Descri	iption Regulating Rectifier YRF2				
Interaction Effec	ets	Y	N	U	N/A
7. Are soft targets	s free from impact by nearby equipment or structures?	X			
		Y	N	U	N/A
and masonry blo	equipment, distribution systems, ceiling tiles and lighting, ock walls not likely to collapse onto the equipment? guisher not strapped to wall. Judged not to be a significant inter	X action.			
O. Do attached lin	og have adequate flevihility to avoid damage?	Y	N	U	N/A
	tes have adequate flexibility to avoid damage?  Its have adequate flexibility.			1	
	above seismic interaction evaluations, is equipment free	Y	N X	U	
o. po	adverse seismic interaction effects?				
	Conditions ked for and found no other seismic conditions that could ct the safety functions of the equipment?	Y X	N	U U	
Comments (Addi	itional pages may be added as necessary)	<del> </del>		-	
Evaluated by:	Eddie M. Guerra  Date	: <u>7/25/2012</u>		-	
	Adam L. Helffrich	: 7/25/2012		-	



Status: Y U

### Seismic Walkdown Checklist (SWC)

Equipment ID No. YRF2

Equip. Class 16. Battery Chargers and Inverters

**Equipment Description** 

Regulating Rectifier YRF2



YRF2 plate
ID Plate of component



YRF2 general General view of component



Status: Y U

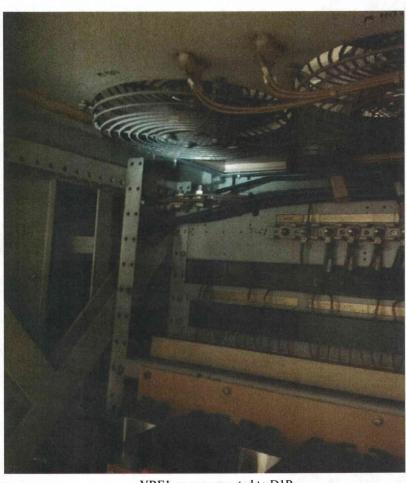
### Seismic Walkdown Checklist (SWC)

Equipment ID No. YRF2

Equip. Class 16. Battery Chargers and Inverters

**Equipment Description** 

Regulating Rectifier YRF2



YRF1 open connected to D1P Corresponding train 1 component opened to view internal bolting



Equipment ID No.	YV2	_ Equip. Class	s 16. Battery C	Chargers and Inve	rters			
Equipment Descrip	tion	Regulating Inverter	YV2					
Location: Bldg.	AUXB	Floor El.	603	Room	428			
Manufacturer, Mod	lel, Etc.							
SWEL. The space I	be used to below each	Checklist document the results of the following questorovided at the end of	tions may be us	ed to record the re	esults of jud	gments an		
Anchorage					37	λī		
1. Is the anchorage	configurat	ion verification require	ed (i.e., is the ite	em one	X	N	1	
The equipment is in of these panels was with four 1" diameter	n a line wit. verified. I ter anchor	requiring such verific h other cabinets D2P of Each of these panels arbolts.  nt, broken, missing or leading to the capacity of the capacity and the capacity are capacity and the capacity are capacity and the capacity are capacity and capacity are capacity and capacity are capacity and capacity are capacity are capacity and capacity are capacity are capacity and capacity are capacity and capacity are capacity and capacity are capacity and capacity are capacity are capacity and capacity are capacity are capacity and capacity are capa	and YRF2. The i re anchored to t	he concrete floor	Y X	N	U	N/A
2.7.4	<b>.</b>				Y	N	U_	N/A
oxidation?  No significant corr		rosion that is more that	in mild surface				<u> </u>	
4. Is the anchorage	free of vis	ible cracks in the conc	rete near the an	chors?	Y X	N	U	N/A
5 T al. 1	<b>.</b>			0	Y	N	U_	N/A
(Note: This ques which an ancho The seismic qualifi in SQUG calculation SQUG calculation	ntion only a prage confi cation of the on C-CSS-YV	tion consistent with plant plant is or applies if the item is or guration verification is the line-up that consists D2P. The indicates FCR 86-02 pinets, confirming FCF	ne of the 50% fo s required.) s of YRF2, D2P 272 implemented	r and YV2 is	X  anding conce	l ern.	<u> </u>	
6. Based on the about potentially adve		age evaluations, is the conditions?	anchorage free	of	Y X	N	U	]



Equipment ID No	Equip. Class 16. Battery Chargers	and Inve	erters			
Equipment Descri	iption Regulating Inverter YV2					
Interaction Effec	ets	Y	N	- U	N/A	
7. Are soft targets	free from impact by nearby equipment or structures?  equipment identified in the area.		X			
R Are overhead e	quipment, distribution systems, ceiling tiles and lighting,		Y	N	U	N/A
	ock walls not likely to collapse onto the equipment?		A			
9. Do attached lin	es have adequate flexibility to avoid damage?		Y	N_	U	N/A
	,i v		V	NT	11	
	above seismic interaction evaluations, is equipment free adverse seismic interaction effects?		Y	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	N	U	
Comments (Addi	itional pages may be added as necessary)				-	
Evaluated by:	Eddie M. Guerra	Date:	7/25/2012	- Lander de la companya de la compa	-	
		Date:	7/25/2012		_	
	Adam L. Helffrich					N/A

### Seismic Walkdown Checklist (SWC)

Equipment ID No. YV2

Equip. Class 16. Battery Chargers and Inverters

**Equipment Description** 

Regulating Inverter YV2



YV2 plate
ID Plate of component



YV2 general General view of component



YV2 4 anchor bolts
Partial view of anchorage, view is typical of all anchors



Status: Y	U

Equipment ID No.	YV4	Equip. Class	16. Battery Charg	ers and Inv	erters			
Equipment Descript	tion 125V	DC/120VAC IN	IVERTER CH 4					
Location: Bldg.	AUXB	Floor El.	603	Room	428B			
Manufacturer, Mod	el, Etc.							
Instructions for Co This checklist may SWEL. The space be findings. Additiona	be used to docume below each of the f	ent the results of following questi	ons may be used to	record the	results of jud	gments an		
Anchorage					V	N		
1. Is the anchorage	-			ne	Y X	N	]	
of the 50% of SV This panel is part of to the concrete with	•	cludes D2N and		is anchored	d			
					Y	N	<u>U</u> _	N/A
2. Is the anchorage	free of bent, broke	en, missing or lo	oose hardware?		X			
					Y	N	U_	N/A
3. Is the anchorage oxidation?	free of corrosion t	hat is more thar	n mild surface		X			
4. In the anahomen	func of which has one	aka in the conor	ata nagritha anghars	.9	Y	N	U	N/A
4. Is the anchorage	iree of visible cra	cks in the conci	ete near the anchors	) <b>(</b>				
					Y	N	U	N/A
which an ancho	tion only applies i	f the item is one verification is	e of the 50% for required.)	ND 05 0024	X yanahan a n	ounding of	oncarn	
			nchors and that MC ere confirmed during			mining CC	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
					Y	N	U	1
6. Based on the about potentially adve	ove anchorage eva erse seismic condit		anchorage free of		X	<u> </u>	<u> </u>	j



Equipment ID No	. <u>YV4</u>	Equip. Class 16. Battery Char	gers and Inve	erters			
Equipment Descri	ption						
Interaction Effec				Y	N_	U	N/A
7. Are soft targets	free from in	spact by nearby equipment or structures?		X			
				Y	N	U	N/A
3. Are overhead ed and masonry blo Seismic capacity of Block wall 4016 v	ng,	X					
· ·		0, Rev 14 (12/6/88). uate flexibility to avoid damage?		Y X	N	U	N/A
		c interaction evaluations, is equipment fro	ee	Y X	N	U	
Other Adverse C 11. Have you look adversely affec	ld	Y	N	U			
Comments (Addi	tional pages	may be added as necessary)					
Evaluated by:	Eddie M.	Guerra Guerra	Date:	7/25/2012		-	
	Adam I	Show Definer	Date:	7/25/2012		-	
Evaluated by:	Eddie M.	Share Define				-	