Quad Cities Generating Station Unit 2 12Q0108.40-R-002, Rev. 3 Correspondence No.: RS-12-169 Sheet 1 of 6

Seismic Walkdown Checklist (SWC)	Status: Y N U
Equipment ID No.: 1/2-6661A	
Equipment Class: _(21) Tanks and Heat Exchangers	
Equipment Description: HX, DG COOLING	
Project: Quad Cities 2 SWEL	·
Location (Bldg, Elev, Room/Area): DG, 595.00 ft, ALL	
Manufacturer/Model:	
Instructions for Completing Checklist	
This checklist may be used to document the results of the Seismic Walkdown of an item of a SWEL. The space below each of the following questions may be used to record the results findings. Additional space is provided at the end of this checklist for documenting other con	of judgments and
<u>Anchorage</u>	
 Is anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? 	No .
	•
2. Is the anchorage free of bent, broken, missing or loose hardware?	Yes
Is the anchorage free of corrosion that is more than mild surface oxidation?	Yes
c. To the anomorage was or corresion that is more than mild surface exhaution:	103
	•
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Not Applicable
Heat exchanger mounted to a saddle at each end via a U-bolt. Saddles are	
welded to DG skid.	
5. Is the anchorage configuration consistent with plant documentation? (Note:	Not Applicable
This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)	Not Applicable
6. Based on the above anchorage evaluations, is the anchorage free of	Yes
potentially adverse seismic conditions?	103

Quad Cities Generating Station Unit 2 12Q0108.40-R-002, Rev. 3 Correspondence No.: RS-12-169 Sheet 2 of 6

Seismic Walkdown Checklist (SWC)		Status:	<u>/</u> N U
Equipment ID No.: 1/2-6661A	•		
Equipment Class: (21) Tanks and Heat Exchangers		110	
Equipment Description: HX, DG COOLING			
Interaction Effects			
7. Are soft targets free from impact by nearby equipment or structures?			Yes
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, a masonry block walls not likely to collapse onto the equipment? Overhead light fixtures judged to be acceptable.	nd		Yes
9. Do attached lines have adequate flexibility to avoid damage?			Yes
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?			Yes
Other Adverse Conditions			
Have you looked for and found no adverse seismic conditions that could adversely affect the safety functions of the equipment?			Yes
Comments Seismic Walkdown Team: J. Griffith & M. Wodarcyk - 8/8/2012			
Evaluated by: James Griffith	Date:	10/4/2012	
Michael Wodarcyk		10/4/2012	

Sheet 3 of 6

Status: Y N U

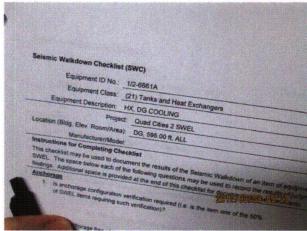
Seismic Walkdown Checklist (SWC)

Equipment ID No.: 1/2-6661A

Equipment Class: (21) Tanks and Heat Exchangers

Equipment Description: HX, DG COOLING

Photos



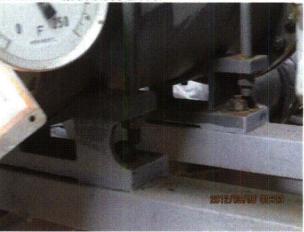
20120808-QuadCities-2 069



20120808-QuadCities-2 071



20120808-QuadCities-2 070



20120808-QuadCities-2 072

Seismic Walkdown Checklist (SWC)

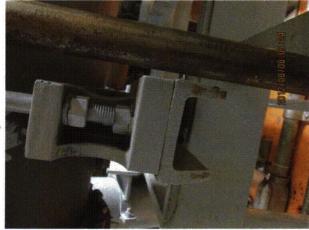
Equipment ID No.: 1/2-6661A

Equipment Class: (21) Tanks and Heat Exchangers

Equipment Description: HX, DG COOLING



20120808-QuadCities-2 073



20120808-QuadCities-2 075



20120808-QuadCities-2 074



20120808-QuadCities-2 076

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 1/2-6661A

Equipment Class: (21) Tanks and Heat Exchangers

Equipment Description: HX, DG COOLING



20120808-QuadCities-2 077



20120808-QuadCities-2 078



20120808-QuadCities-2 079



20120808-QuadCities-2 080

Sheet 6 of 6

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 1/2-6661A

Equipment Class: (21) Tanks and Heat Exchangers

Equipment Description: HX, DG COOLING



20120808-QuadCities-2 081



20120808-QuadCities-2 083



20120808-QuadCities-2 082



20120808-QuadCities-2 084

Quad Cities Generating Station Unit 2 12Q0108.40-R-002, Rev. 3 Correspondence No.: RS-12-169 Sheet 1 of 8

	atus: Y N U
Seismic Walkdown Checklist (SWC)	
Equipment ID No.: 125 VDC BATT 2	
Equipment Class: (15) Batteries on Racks	
Equipment Description: BATTERY, 125V	
Project: Quad Cities 2 SWEL	
Location (Bldg, Elev, Room/Area): TB, 628.00 ft, ALL	
Manufacturer/Model:	
Instructions for Completing Checklist	
This checklist may be used to document the results of the Seismic Walkdown of an item of equip SWEL. The space below each of the following questions may be used to record the results of ju findings. Additional space is provided at the end of this checklist for documenting other commen	dgments and
Anchorage	
 Is anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? 	Yes
2. Is the anchorage free of bent, broken, missing or loose hardware?	Yes
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	Yes
Minor surface corrosion judged to be acceptable.	
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Yes
Minor shrinkage cracks in floor judged to be acceptable.	
	•
 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.) 	Yes
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	Yes

Quad Cities Generating Station Unit 2 12Q0108.40-R-002, Rev. 3 Correspondence No.: RS-12-169 Sheet 2 of 8

Seismic Walkdow	n Checklist (SWC)			Status: Y N U
	_	·	TT 0		
	nent ID No.: _				
	ment Class: _				
	Description:	BATTERY, 1	25V		
Interaction Effect 7. Are soft ta	_	impact by n	earby equipment or	structures?	Yes
,			canby equipment of		
					:
					•
			systems, ceiling tiles pse onto the equipm		Yes
9. Do attache	d lines have a	dequate flex	ibility to avoid damaç	ge?	Yes
	he above seis adverse seisn		on evaluations, is eq n effects?	uipment free of	Yes
Other Adverse Co	onditions				•
			verse seismic condit of the equipment?	ions that could	Yes
Comments SEWS Anchorage	Notes:				
Racks are support corner by a 3/8" ex			d to a 8x8x1/2" basep	plate. Each baseplate	is anchored in only one
***** Seismic Walkdowr	Team: J. Grif	fith & M. Woo	darcyk - 8/7/2012		
Evaluated by:	Jus D. Appell	James Grif	fith	Date:	10/4/2012
	Michael J	Wodyk	Michael Wodarcyk		10/4/2012

Sheet 3 of 8

Status: Y N U

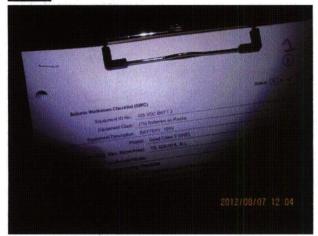
Seismic Walkdown Checklist (SWC)

Equipment ID No.: 125 VDC BATT 2

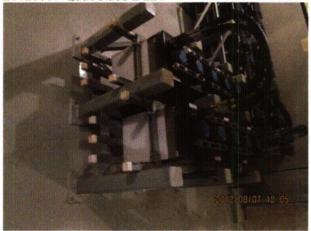
Equipment Class: (15) Batteries on Racks

Equipment Description: BATTERY, 125V

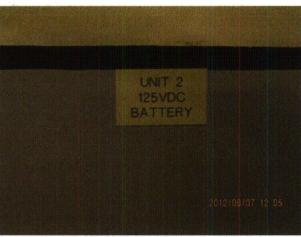
Photos



20120807-QuadCities-2 221



20120807-QuadCities-2 223



20120807-QuadCities-2 222



20120807-QuadCities-2 224

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 125 VDC BATT 2

Equipment Class: _(15) Batteries on Racks



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20120807-QuadCities-2 227





20120807-QuadCities-2 226



20120807-QuadCities-2 228



Sheet 5 of 8

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 125 VDC BATT 2

Equipment Class: (15) Batteries on Racks

Equipment Description: BATTERY, 125V 20120807-QuadCities-2 229

20120807-QuadCities-2 230



20120807-QuadCities-2 231





20120807-QuadCities-2 233



20120807-QuadCities-2 234

Sheet 6 of 8

Status: Y N U

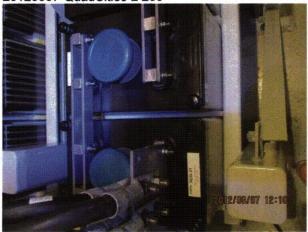
Seismic Walkdown Checklist (SWC)

Equipment ID No.: 125 VDC BATT 2

Equipment Class: (15) Batteries on Racks



20120807-QuadCities-2 235



20120807-QuadCities-2 237



20120807-QuadCities-2 236



20120807-QuadCities-2 238

Sheet 7 of 8

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 125 VDC BATT 2

Equipment Class: (15) Batteries on Racks



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20120807-QuadCities-2 241



20120807-QuadCities-2 240



20120807-QuadCities-2 242

Quad Cities Generating Station Unit 2 12Q0108.40-R-002, Rev. 3 Correspondence No.: RS-12-169

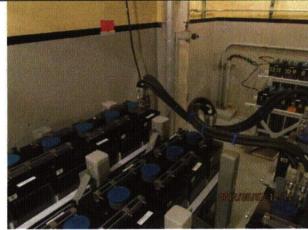
Sheet 8 of 8

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 125 VDC BATT 2

Equipment Class: (15) Batteries on Racks



20120807-QuadCities-2 243

Stat	tus: Y N U
Seismic Walkdown Checklist (SWC)	•
Equipment ID No.: 2-0302-19A	
Equipment Class: (8) Motor-Operated and Solenoid-Operated Valves	
Equipment Description: SOV, B/U SCRAM	
Project: Quad Cities 2 SWEL	
Location (Bldg, Elev, Room/Area): RB, 595.00 ft, ALL	
Manufacturer/Model:	
Instructions for Completing Checklist	
This checklist may be used to document the results of the Seismic Walkdown of an item of equipm SWEL. The space below each of the following questions may be used to record the results of jud findings. Additional space is provided at the end of this checklist for documenting other comment	Igments and
<u>Anchorage</u>	
 Is anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? 	No
2. Is the anchorage free of bent, broken, missing or loose hardware?	Not Applicable
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	Not Applicable
	•
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Not Applicable
	•
	ű.
This question only applies if the item is one of the 50% for which an anchorage	Not Applicable
configuration verification is required.)	
	•
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	Yes

Seismic Walkdown Checklist (SWC)	Status: Y N U
Equipment ID No.: 2-0302-19A	•
Equipment Class: (8) Motor-Operated and Solenoid-Operated Valves	
Equipment Description: SOV, B/U SCRAM	and the second s
Interaction Effects	
7. Are soft targets free from impact by nearby equipment or structures?	Yes
Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	Yes
Do attached lines have adequate flexibility to avoid damage?	Yes
Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	Yes
Other Adverse Conditions	£
Have you looked for and found no adverse seismic conditions that could adversely affect the safety functions of the equipment?	Yes
	· · · · · · · · · · · · · · · · · · ·
<u>Comments</u> Seismic Walkdown Team: J. Griffith & M. Wodarcyk - 8/6/2012	
See north HCU bank area walk-by for further notes.	, , , , , , , , , , , , , , , , , , , ,
occ north noc bank area waik by for future notes.	, ,
Evaluated by: James Griffith Date:	10/4/2012
Mitael J. Woodingt	
Michael Wodarcyk	10/4/2012
	•

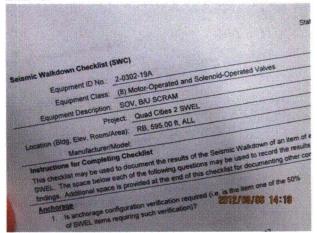
Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2-0302-19A

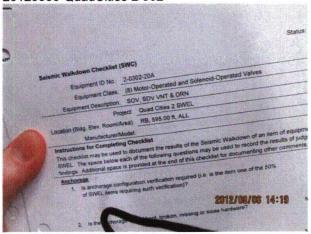
Equipment Class: (8) Motor-Operated and Solenoid-Operated Valves

Equipment Description: SOV, B/U SCRAM

Photos



20120806-QuadCities-2 352



20120806-QuadCities-2 354



20120806-QuadCities-2 353



20120806-QuadCities-2 355

Sheet 4 of 7

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2-0302-19A

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

Equipment Description: SOV, B/U SCRAM



20120806-QuadCities-2 356



20120806-QuadCities-2 358



20120806-QuadCities-2 357



20120806-QuadCities-2 359

Sheet 5 of 7

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2-0302-19A

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

Equipment Description: SOV, B/U SCRAM





20120806-QuadCities-2 362



20120806-QuadCities-2 361



20120806-QuadCities-2 363

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2-0302-19A

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

Equipment Description: SOV, B/U SCRAM



20120806-QuadCities-2 364



20120806-QuadCities-2 366



20120806-QuadCities-2 365



20120806-QuadCities-2 367

Sheet 7 of 7

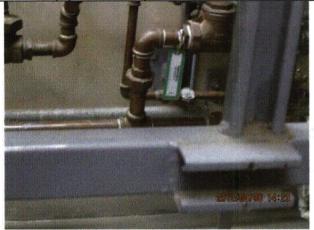
Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2-0302-19A

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

Equipment Description: SOV, B/U SCRAM



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20120806-QuadCities-2 369



20120806-QuadCities-2 370



20120806-QuadCities-2 371

Quad Cities Generating Station Unit 2 12Q0108.40-R-002, Rev. 3 Correspondence No.: RS-12-169 Sheet 1 of 3

Seismic Walkdown Checklist (SWC)	Status: Y N U
Equipment ID No.: 2-0302-20A	
Equipment Class: (8) Motor-Operated and Solenoid-Operated Valves	,
Equipment Description: SOV, SDV VNT & DRN	
Project: Quad Cities 2 SWEL	<u></u>
Location (Bldg, Elev, Room/Area): RB, 595.00 ft, ALL	
Manufacturer/Model:	
Instructions for Completing Checklist	
This checklist may be used to document the results of the Seismic Walkdown of an item o SWEL. The space below each of the following questions may be used to record the resulfindings. Additional space is provided at the end of this checklist for documenting other contents.	ts of judgments and
<u>Anchorage</u>	
 Is anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? 	No No
2. Is the anchorage free of bent, broken, missing or loose hardware?	Not Applicable
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	Not Applicable
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Not Applicable
 Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) 	Not Applicable
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	Yes

Quad Cities Generating Station Unit 2 12Q0108.40-R-002, Rev. 3 Correspondence No.: RS-12-169 Sheet 2 of 3

Seismic Walkdown Checklist (SWC)	Status: Y N U
Equipment ID No.: 2-0302-20A	•
Equipment Class: (8) Motor-Operated and Solenoid-Operated Valves	
Equipment Description: SOV, SDV VNT & DRN	
Interaction Effects	
7. Are soft targets free from impact by nearby equipment or structures?	Yes
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	Yes
masoning block wants not likely to conapse onto the equipment:	
O Do attached lines have adequate flevibility to avoid demage?	Vaa
Do attached lines have adequate flexibility to avoid damage?	Yes
, , , , , , , , , , , , , , , , , , ,	
10. Based on the above seismic interaction evaluations, is equipment free of	Yes
potentially adverse seismic interaction effects?	
	:
Other Adverse Conditions	and the second s
11. Have you looked for and found no adverse seismic conditions that could	Yes
adversely affect the safety functions of the equipment?	
<u>Comments</u>	
Seismic Walkdown Team: J. Griffith & M. Wodarcyk - 8/6/2012	e e e e
See north HCU bank area walk-by for further notes.	
•	
Evaluated by: James Griffith Date	: 10/4/2012
Mishael J. Wodyk	
Michael Wodarcyk	10/4/2012

Quad Cities Generating Station Unit 2 12Q0108.40-R-002, Rev. 3 Correspondence No.: RS-12-169 Sheet 3 of 3

Seismic Walkdown Checklist	(SWC)	Status: Y N U
Equipment ID No.:	2-0302-20A	
Equipment Class:	(8) Motor-Operated and Solenoid-Operated Valves	
Equipment Description:	SOV, SDV VNT & DRN	
<u>Photos</u>		

Quad Cities Generating Station Unit 2 12Q0108.40-R-002, Rev. 3 Correspondence No.: RS-12-169 Sheet 1 of 6

Seismic Walkdown Checklist (SWC)	Status: Y N U
Equipment ID No.: 2-0302-21A	
Equipment Class: (7) Fluid-Operated Valves	
Equipment Description: VALVE, NO. BNK SDV VNT - 2A SDV INBD VENT VLV	
Project: Quad Cities 2 SWEL	
Location (Bldg, Elev, Room/Area): RB, 595.00 ft, ALL	
Manufacturer/Model:	
Instructions for Completing Checklist	
This checklist may be used to document the results of the Seismic Walkdown of an item of e SWEL. The space below each of the following questions may be used to record the results findings. Additional space is provided at the end of this checklist for documenting other com	of judgments and
Anchorage 1. Is anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?	No
2. Is the anchorage free of bent, broken, missing or loose hardware?	Not Applicable
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	Not Applicable
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Not Applicable
 Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) 	Not Applicable
Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	Yes

Quad Cities Generating Station Unit 2 12Q0108.40-R-002, Rev. 3 Correspondence No.: RS-12-169 Sheet 2 of 6

Seismic Walkdown Checklist (SWC)	Status: Y N U
Equipment ID No.: 2-0302-21A	
Equipment Class: (7) Fluid-Operated Valves	
Equipment Description: VALVE, NO. BNK SDV VNT - 2A SDV INBD VENT VLV Interaction Effects	
7. Are soft targets free from impact by nearby equipment or structures?	Yes
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	Yes
9. Do attached lines have adequate flexibility to avoid damage?	Yes
Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	Yes
Other Adverse Conditions 11. Have you looked for and found no adverse seismic conditions that could adversely affect the safety functions of the equipment?	Yes
Comments Seismic Walkdown Team: J. Griffith & M. Wodarcyk - 8/6/2012 See north HCU bank area walk-by for further notes.	
Mishael J. Washington	10/4/2012 10/4/2012

Sheet 3 of 6

Status: Y N U

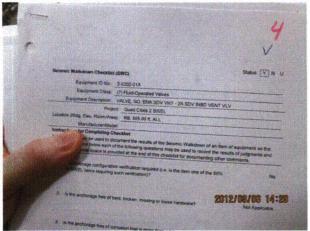
Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2-0302-21A

Equipment Class: (7) Fluid-Operated Valves

Equipment Description: VALVE, NO. BNK SDV VNT - 2A SDV INBD VENT VLV

Photos



20120806-QuadCities-2 372



20120806-QuadCities-2 374



20120806-QuadCities-2 373



20120806-QuadCities-2 375

Sheet 4 of 6

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2-0302-21A

Equipment Class: _(7) Fluid-Operated Valves

Equipment Description: VALVE, NO. BNK SDV VNT - 2A SDV INBD VENT VLV



20120806-QuadCities-2 376



20120806-QuadCities-2 378



20120806-QuadCities-2 377



20120806-QuadCities-2 379

Sheet 5 of 6

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2-0302-21A

Equipment Class: _(7) Fluid-Operated Valves

Equipment Description: VALVE, NO. BNK SDV VNT - 2A SDV INBD VENT VLV



20120806-QuadCities-2 380



20120806-QuadCities-2 381



20120806-QuadCities-2 382



20120806-QuadCities-2 383

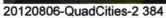
Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2-0302-21A

Equipment Class: (7) Fluid-Operated Valves

Equipment Description: VALVE, NO. BNK SDV VNT - 2A SDV INBD VENT VLV







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Seismic Walkdown Checklist (SWC)	Status: Y N U
Equipment ID No.: 2-0302-22A	
Equipment Class: (7) Fluid-Operated Valves	
Equipment Description: VALVE, NO. BNK SDV DRN - 2A SDV 2A INBD DRN VLV	
Project: Quad Cities 2 SWEL	
Location (Bldg, Elev, Room/Area): RB, 554.00 ft, ALL	
Manufacturer/Model:	
Instructions for Completing Checklist	
This checklist may be used to document the results of the Seismic Walkdown of an item of e SWEL. The space below each of the following questions may be used to record the results findings. Additional space is provided at the end of this checklist for documenting other com-	of judgments and
Anchorage	
 Is anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? 	No
2. Is the anchorage free of bent, broken, missing or loose hardware?	Not Applicable
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	Not Applicable
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Not Applicable
 Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) 	Not Applicable
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	Yes

Quad Cities Generating Station Unit 2 12Q0108.40-R-002, Rev. 3 Correspondence No.: RS-12-169 Sheet 2 of 6

Seism	nic Walkdown Checklist (SWC)	Status: Y N U
	Equipment ID No.: 2-0302-22A	
	Equipment Class: (7) Fluid-Operated Valves	
	Equipment Description: VALVE, NO. BNK SDV DRN - 2A SDV 2A INBD DRN VLV	
Intera	ction Effects	
7.	Are soft targets free from impact by nearby equipment or structures?	Yes
	Associated solenoid valve approximately 1/8-inch from existing lifting lug. Pipe is laterally restrained near valve; thus, movement of solenoid valve toward lifting lug is restrained. In addition, valve fails closed. Judged to be acceptable. See IR 1400097.	
8.	Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	Yes
9.	Do attached lines have adequate flexibility to avoid damage?	Yes
10.	Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	Yes
Other Adverse Conditions		
11.		Yes
<u>Comm</u> Seism	nents nic Walkdown Team: J. Griffith & M. Wodarcyk - 8/10/2012	
Evalua	ated by: John D. April James Griffith Date: 10/	4/2012
		4/2012

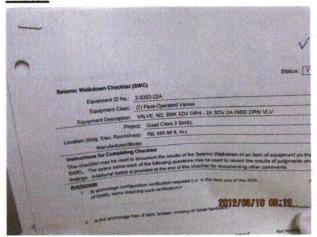
Seismic Walkdown Checklist (SWC)

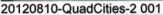
Equipment ID No.: 2-0302-22A

Equipment Class: (7) Fluid-Operated Valves

Equipment Description: VALVE, NO. BNK SDV DRN - 2A SDV 2A INBD DRN VLV

Photos







20120810-QuadCities-2 101



20120810-QuadCities-2 100



20120810-QuadCities-2 102

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2-0302-22A

Equipment Class: (7) Fluid-Operated Valves

Equipment Description: VALVE, NO. BNK SDV DRN - 2A SDV 2A INBD DRN VLV



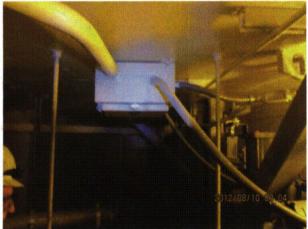
20120810-QuadCities-2 103



20120810-QuadCities-2 105



20120810-QuadCities-2 104



20120810-QuadCities-2 106

Sheet 5 of 6

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2-0302-22A

Equipment Class: _(7) Fluid-Operated Valves

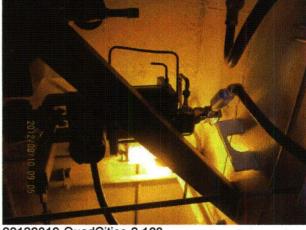
Equipment Description: VALVE, NO. BNK SDV DRN - 2A SDV 2A INBD DRN VLV



20120810-QuadCities-2 107



20120810-QuadCities-2 109



20120810-QuadCities-2 108



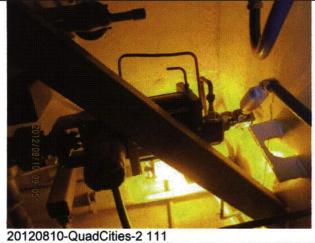
20120810-QuadCities-2 110

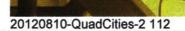
Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2-0302-22A

Equipment Class: (7) Fluid-Operated Valves

Equipment Description: VALVE, NO. BNK SDV DRN - 2A SDV 2A INBD DRN VLV





Seismic Walkdown Checklist (SWC)	Status: Y N U
Equipment Class: (21) Tanks and Heat Exchangers	
Equipment Description: SCRAM WATER ACCUMULTOR (22-27 F-7 (South))	
Project: Quad Cities 2 SWEL	
Location (Bldg, Elev, Room/Area): RB, 595.00 ft, ALL	
Manufacturer/Model:	. <u>.</u>
Instructions for Completing Checklist	
This checklist may be used to document the results of the Seismic Walkdown of an item of SWEL. The space below each of the following questions may be used to record the results findings. Additional space is provided at the end of this checklist for documenting other cor	of judgments and
<u>Anchorage</u>	
 Is anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? 	No
2. Is the anchorage free of bent, broken, missing or loose hardware?	Not Applicable
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	Not Applicable
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Not Applicable
 Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage 	Not Applicable
configuration verification is required.)	•
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	Yes
The scram water accumulator is an in-line component that is adequately restrained to the CRD/HCU support frame.	
Interaction Effects	
7. Are soft targets free from impact by nearby equipment or structures?	Yes

Seismic W	alkdown Checklist	(SWC)		Status: Y] N U
	Equipment ID No.:	2-0305-125-22-27		<u> </u>	
	Equipment Class:	(21) Tanks and Heat Exchangers			
Equi	pment Description:	SCRAM WATER ACCUMULTOR (22-27 F-7 (So	uth))		
	ibes, conduits, and peptable.	pipes in close proximity are flexible and judged to b	e		
ma: Oi	sonry block walls no ne end of light suppo	nt, distribution systems, ceiling tiles and lighting, art likely to collapse onto the equipment? Inted by a beam clamp oriented incorrectly. Mitigation ing due to power cord. Judged to be acceptable.			Yes
9. Do	attached lines have	adequate flexibility to avoid damage?			Yes
		smic interaction evaluations, is equipment free of mic interaction effects?			Yes
Other Adve	erse Conditions				
11. Hav adv	ve you looked for an versely affect the saf ubes in close proxim	d found no adverse seismic conditions that could ety functions of the equipment? ity to gallery bracket. Flexible tubes and gallery bracket. Judged to be acceptable.	aced		Yes
Comments			v	-	
Seismic Wa	alkdown Team: J. Gr	ffith & M. Wodarcyk - 8/6/2012			
Evaluated b	y: Sms D. Afford	James Griffith Workington	Date: ˌ	10/4/2012	
	1 /	Michael Wodarcyk		10/4/2012	
				P	
<u>Photos</u>					

Seismic Walkdown Checklist (SWC)	Status: Y N U
Equipment ID No.: 2-0305-125-30-11	
Equipment Class: (21) Tanks and Heat Exchangers	
Equipment Description: SCRAM WATER ACCUMULTOR (30-11 H-3 (South))	
Project: Quad Cities 2 SWEL	
Location (Bldg, Elev, Room/Area): RB, 595.00 ft, ALL	
Manufacturer/Model:	
Instructions for Completing Checklist	*
This checklist may be used to document the results of the Seismic Walkdown of an item of example. The space below each of the following questions may be used to record the results of findings. Additional space is provided at the end of this checklist for documenting other comments.	f judgments and
Anchorage 1. Is anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?	No
2. Is the anchorage free of bent, broken, missing or loose hardware?	Not Applicable
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	Not Applicable
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Not Applicable
 Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) 	Not Applicable
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? The scram water accumulator is an in-line component that is adequately restrained to the CRD/HCU support frame.	Yes
Interaction Effects	
7. Are soft targets free from impact by nearby equipment or structures?	Yes

Seismic Walkdown C	Checklist (SWC)	Status: Y N U
Equipment	t ID No.: 2-0305-125-30-11	
• •	nt Class: (21) Tanks and Heat Exchangers	:
Equipment Des	scription: SCRAM WATER ACCUMULTOR (30-11 H-3 (South))	
masonry block One end of li	equipment, distribution systems, ceiling tiles and lighting, and k walls not likely to collapse onto the equipment? ight supported by a beam clamp oriented incorrectly. Mitigated by and softening due to power cord. Judged to be acceptable.	Yes
9. Do attached lii	nes have adequate flexibility to avoid damage?	Yes
	above seismic interaction evaluations, is equipment free of verse seismic interaction effects?	Yes
Other Adverse Condi	itions	
adversely affe Tubes in clos	ked for and found no adverse seismic conditions that could ect the safety functions of the equipment? se proximity to gallery bracket. Flexible tubes and gallery braced I translation. Judged to be acceptable.	Yes
Comments		
Seismic Walkdown Te	eam: J. Griffith & M. Wodarcyk - 8/6/2012	
Evaluated by:	Missel J. Woodingst	10/4/2012
4	Mithael Y. Woodmay to	
_/	Michael Wodarcyk	10/4/2012
<u> </u>		
<u>Photos</u>		

Seismic Walkdown Checklist (SWC)	Status: Y N U
Equipment ID No.: 2-0305-125-38-59	
Equipment Class: (21) Tanks and Heat Exchangers	
Equipment Description: SCRAM WATER ACCUMULTOR (38-59 K-15 (North))	
Project: Quad Cities 2 SWEL	
Location (Bldg, Elev, Room/Area): RB, 595.00 ft, ALL	,
Manufacturer/Model:	
Instructions for Completing Checklist This checklist may be used to document the results of the Seismic Walkdown of an item of eq SWEL. The space below each of the following questions may be used to record the results of findings. Additional space is provided at the end of this checklist for documenting other comments.	f judgments and
 Anchorage 1. Is anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? 	No
2. Is the anchorage free of bent, broken, missing or loose hardware?	Not Applicable
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	Not Applicable
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Not Applicable
 Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) 	Not Applicable
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? The scram water accumulator is an in-line component that is adequately restrained to the CRD/HCU support frame.	Yes
Interaction Effects	
7. Are soft targets free from impact by nearby equipment or structures?	Yes

Seismic Walkdown Checklist (SWC)	Status: Y N U
Equipment ID No.: 2-0305-125-38-59	
Equipment Class: (21) Tanks and Heat Exchangers	
Equipment Description: SCRAM WATER ACCUMULTOR (38-59 K-15 (Nor	th))
Tubes and pipes in close proximity are flexible and judged to be acceptable	е.
Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	Yes
9. Do attached lines have adequate flexibility to avoid damage?	Yes
Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	Yes
Other Adverse Conditions 11. Have you looked for and found no adverse seismic conditions that could adversely affect the safety functions of the equipment?	Yes
Comments Seismic Walkdown Team: J. Griffith & M. Wodarcyk - 8/6/2012	
Evaluated by: James Griffith Da	ate: 10/4/2012
Michael Wodarcyk	10/4/2012
Photos	Att and a second

Seismic Walkdown Checklist (SWC)	Y N U
Equipment ID No.: 2-0305-125-42-27	
Equipment Class: (21) Tanks and Heat Exchangers	
Equipment Description: SCRAM WATER ACCUMULTOR (42-27 L-7 (North))	
Project: Quad Cities 2 SWEL	
Location (Bldg, Elev, Room/Area): RB, 595.00 ft, ALL	
Manufacturer/Model:	
Instructions for Completing Checklist This checklist may be used to document the results of the Seismic Walkdown of an item of equipment SWEL. The space below each of the following questions may be used to record the results of judgmentings. Additional space is provided at the end of this checklist for documenting other comments.	
 Anchorage 1. Is anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? 	No
Is the anchorage free of bent, broken, missing or loose hardware? Not	Applicable
3. Is the anchorage free of corrosion that is more than mild surface oxidation? Not	Applicable
4. Is the anchorage free of visible cracks in the concrete near the anchors? Not	Applicable
 Is the anchorage configuration consistent with plant documentation? (Note: Not This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) 	Applicable
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? The scram water accumulator is an in-line component that is adequately restrained to the CRD/HCU support frame.	Yes
Interaction Effects	
7. Are soft targets free from impact by nearby equipment or structures?	Yes

Seismic Walkdown Checklist (SWC)	Stat	us: Y N U
Equipment ID No.: 2-0305-125-42-27		,
Equipment Class: (21) Tanks and Heat E	xchangers	
Equipment Description: SCRAM WATER ACC	1 ,	
Tubes and pipes in close proximity are flexible		
Are overhead equipment, distribution systems, masonry block walls not likely to collapse onto the systems.		Yes
Do attached lines have adequate flexibility to av	oid damage?	Yes
Based on the above seismic interaction evaluat potentially adverse seismic interaction effects?	ions, is equipment free of	Yes
Other Adverse Conditions		
Have you looked for and found no adverse seis adversely affect the safety functions of the equipart of th		Yes
Comments		
Seismic Walkdown Team: J. Griffith & M. Wodarcyk - 8/	6/2012	
Evaluated by: Som D. Appt James Griffith	Date: 10/4/20 Vodarcyk 10/4/20	
Photos		

Seismic Walkdown Checklist (SWC)	Status: Y N U
Equipment ID No.: 2-0305-126-22-27	
Equipment Class: (7) Fluid-Operated Valves	
Equipment Description: CRD SCRAM Inlet Valve (22-27 F-7 (South))	
Project: Quad Cities 2 SWEL	
Location (Bldg, Elev, Room/Area): RB, 595.00 ft, ALL	
Manufacturer/Model:	
Instructions for Completing Checklist This checklist may be used to document the results of the Seismic Walkdown of an item of equ SWEL. The space below each of the following questions may be used to record the results of findings. Additional space is provided at the end of this checklist for documenting other comm	judgments and
Anchorage 1. Is anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?	No
2. Is the anchorage free of bent, broken, missing or loose hardware?	Not Applicable
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	Not Applicable
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Not Applicable
 Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) 	Not Applicable
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? The scram inlet valve is an in-line component with the operator adequately restrained to the CRD/HCU support frame.	Yes
Interaction Effects	
7. Are soft targets free from impact by nearby equipment or structures?	Yes

Seismic Walkdown Checklist (SWC)	Status: Y N U
Equipment ID No.: 2-0305-126-22-27	
Equipment Class: (7) Fluid-Operated Valves	1
Equipment Description: CRD SCRAM Inlet Valve (22-27 F-7 (South)) Tubes, conduits, and pipes in close proximity are flexible and judged to be	<u>;</u>
acceptable.	
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? One end of light supported by a beam clamp oriented incorrectly. Mitigated by deceleration and softening due to power cord. Judged to be acceptable.	Yes
Do attached lines have adequate flexibility to avoid damage?	Yes
Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	Yes
Other Adverse Conditions	
11. Have you looked for and found no adverse seismic conditions that could adversely affect the safety functions of the equipment? Tubes in close proximity to gallery bracket. Flexible tubes and gallery braced against lateral translation. Judged to be acceptable.	Yes
Comments Seismic Walkdown Team: J. Griffith & M. Wodarcyk - 8/6/2012	
Evaluated by: James Griffith Date:	10/4/2012
Michael J. Woodingto	
Michael Wodarcyk	10/4/2012
Photos	

	Status: Y N U
Seismic Walkdown Checklist (SWC)	
Equipment ID No.: 2-0305-126-30-11	
Equipment Class: (7) Fluid-Operated Valves	
Equipment Description: CRD SCRAM Inlet Valve (30-11 H-3 (South))	
Project: Quad Cities 2 SWEL	
Location (Bldg, Elev, Room/Area): RB, 595.00 ft, ALL	
Manufacturer/Model:	
Instructions for Completing Checklist This checklist may be used to document the results of the Seismic Walkdown of an item of a SWEL. The space below each of the following questions may be used to record the results findings. Additional space is provided at the end of this checklist for documenting other con	of judgments and
 Anchorage 1. Is anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? 	No
2. Is the anchorage free of bent, broken, missing or loose hardware?	Not Applicable
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	Not Applicable
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Not Applicable
 Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) 	Not Applicable
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? The scram inlet valve is an in-line component with the operator adequately restrained to the CRD/HCU support frame.	Yes
Interaction Effects	
7. Are soft targets free from impact by nearby equipment or structures?	Yes

Seismic Walkdown Checklist (SWC)	Status: Y N U
Equipment ID No.: 2-0305-126-30-11	
Equipment Class: (7) Fluid-Operated Valves	
Equipment Description: CRD SCRAM Inlet Valve (30-11 H-3 (South))	
Are overhead equipment, distribution systems, ceiling tiles and lighting, and	Yes
masonry block walls not likely to collapse onto the equipment? One end of light supported by a beam clamp oriented incorrectly. Mitigated by deceleration and softening due to power cord. Judged to be acceptable.	
9. Do attached lines have adequate flexibility to avoid damage?	Yes
Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	Yes
Other Adverse Conditions 11. Have you looked for and found no adverse seismic conditions that could adversely affect the safety functions of the equipment? Tubes in close proximity to gallery bracket. Flexible tubes and gallery braced against lateral translation. Judged to be acceptable.	Yes
Comments Seismic Walkdown Team: J. Griffith & M. Wodarcyk - 8/6/2012	
Evaluated by: James Griffith Date:	10/4/2012
Michael Wodarcyk	10/4/2012
Photos	

Correspondence No.: RS-12-169 Sheet 1 of 2

Status: Y N U Seismic Walkdown Checklist (SWC) Equipment ID No.: 2-0305-126-38-59 Equipment Class: (7) Fluid-Operated Valves Equipment Description: CRD SCRAM Inlet Valve (38-59 K-15 (North)) Project: Quad Cities 2 SWEL Location (Bldg, Elev, Room/Area): RB, 595.00 ft, ALL Manufacturer/Model: Instructions for Completing Checklist This checklist may be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments. Anchorage Is anchorage configuration verification required (i.e., is the item one of the 50% No of SWEL items requiring such verification)? 2. Is the anchorage free of bent, broken, missing or loose hardware? Not Applicable 3. Is the anchorage free of corrosion that is more than mild surface oxidation? Not Applicable 4. Is the anchorage free of visible cracks in the concrete near the anchors? Not Applicable 5. Is the anchorage configuration consistent with plant documentation? (Note: Not Applicable This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) Based on the above anchorage evaluations, is the anchorage free of Yes potentially adverse seismic conditions? The scram inlet valve is an in-line component with the operator adequately restrained to the CRD/HCU support frame. **Interaction Effects** Are soft targets free from impact by nearby equipment or structures? Yes

Seismic Walkdown Checklist (SWC)	Status: Y N U
Equipment ID No.: 2-0305-126-38-59	
Equipment Class: (7) Fluid-Operated Valves	
Equipment Description: CRD SCRAM Inlet Valve (38-59 K-15 (North)) Tubes and pipes in close proximity are flexible and judged to be acceptable.	
rubes and pipes in close proximity are nexible and judged to be acceptable.	
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	Yes
9. Do attached lines have adequate flexibility to avoid damage?	Yes
Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	Yes
Other Adverse Conditions	
Have you looked for and found no adverse seismic conditions that could adversely affect the safety functions of the equipment?	Yes
Comments Seismic Walkdown Team: J. Griffith & M. Wodarcyk - 8/6/2012	
	10/4/2012
Mishael J. Wodningto	
Michael Wodarcyk	10/4/2012
<u>Photos</u>	

Sajamia Malkdayın Chaakilat (SMC)	Status: Y N U
Seismic Walkdown Checklist (SWC)	
Equipment ID No.: 2-0305-126-42-27	
Equipment Class: (7) Fluid-Operated Valves	
Equipment Description: CRD SCRAM Inlet Valve (42-27 L-7 (North))	
Project: Quad Cities 2 SWEL	
Location (Bldg, Elev, Room/Area): RB, 595.00 ft, ALL	
Manufacturer/Model:	·
Instructions for Completing Checklist This checklist may be used to document the results of the Seismic Walkdown of an item of SWEL. The space below each of the following questions may be used to record the results findings. Additional space is provided at the end of this checklist for documenting other continuous space.	of judgments and
Anchorage 1. Is anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?	No
2. Is the anchorage free of bent, broken, missing or loose hardware?	Not Applicable
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	Not Applicable
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Not Applicable
 Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) 	Not Applicable
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? The scram inlet valve is an in-line component with the operator adequately restrained to the CRD/HCU support frame.	Yes
Interaction Effects 7 Are soft targets free from impact by nearby equipment or structures?	Yes

Correspondence No.: RS-12-169

ondence No.: RS-12-169 Sheet 2 of 2

Status: Y N U Seismic Walkdown Checklist (SWC) Equipment ID No.: 2-0305-126-42-27 Equipment Class: (7) Fluid-Operated Valves Equipment Description: CRD SCRAM Inlet Valve (42-27 L-7 (North)) Tubes and pipes in close proximity are flexible and judged to be acceptable. 8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and Yes masonry block walls not likely to collapse onto the equipment? 9. Do attached lines have adequate flexibility to avoid damage? Yes 10. Based on the above seismic interaction evaluations, is equipment free of Yes potentially adverse seismic interaction effects? **Other Adverse Conditions** Yes Have you looked for and found no adverse seismic conditions that could adversely affect the safety functions of the equipment? Comments Seismic Walkdown Team: J. Griffith & M. Wodarcyk - 8/6/2012 James Griffith Evaluated by: Date: 10/4/2012 Michael Wodarcyk 10/4/2012 **Photos**