Quad Cities Generating Station Unit 2 12Q0108.40-R-002, Rev. 3 Correspondence No.: RS-12-169 Sheet 1 of 11

Status: Y Seismic Walkdown Checklist (SWC)	NU
Equipment ID No.: 2-1001-65C	
Equipment Class: (5) Horizontal Pumps	
Equipment Description: 2C RHR SERVICE WATER PUMP MOTOR	
Project: Quad Cities 2 SWEL	
Location (Bldg, Elev, Room/Area): TB, 547.00 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 or SWEL. The space below each of the following questions may be used to record the results of judgments findings. Additional space is provided at the end of this checklist for documenting other comments.	
<u>Anchorage</u>	.,
 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
Skid has some 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.	
	•
E la the ancherer conferentian agreiatent with plant decomposition 2 (Nets)	Vaa
 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
Figure 1 and 1	
Interaction Effects	
7. Are soft targets free from impact by nearby equipment or structures?	Yes

Quad Cities Generating Station Unit 2 12Q0108.40-R-002, Rev. 3 Correspondence No.: RS-12-169 Sheet 2 of 11

Seismic Walkdown Checklist (SWC)	Status: Y N U
Equipment ID No.: 2-1001-65C	
Equipment Class: (5) Horizontal Pumps	
Equipment Description: 2C RHR SERVICE WATER PUMP MOTOR	
Are overhead equipment, distribution systems, ceiling tiles and lighting, and	Yes
masonry block walls not likely to collapse onto the equipment? Overhead light fixtures judged to be acceptable. 9. Do attached lines have adequate flexibility to avoid damage?	Yes
Do attached lines have adequate flexibility to avoid damage? 10. Based on the above seismic interaction evaluations, is equipment free of	Yes
potentially adverse seismic interaction effects?	
Other Adverse Conditions	1
11. Have you looked for and found no adverse seismic conditions that could adversely affect the safety functions of the equipment?	Yes
Comments SEWS Anchorage Notes:	:
Residual Heat Removal System Water Pump anchored by ten 3/4" (5 per side) cast-in-pl	ace anchors.
***** Seismic Walkdown Team: J. Griffith & M. Wodarcyk - 8/8/2012	·
Evaluated by: James Griffith Date:	10/16/2012
Michael Wodarcyk	10/16/2012

Sheet 3 of 11

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2-1001-65C

Equipment Class: (5) Horizontal Pumps

Equipment Description: 2C RHR SERVICE WATER PUMP MOTOR

Photos



20120808-QuadCities-2 322





20120808-QuadCities-2 324



20120808-QuadCities-2 325

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Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2-1001-65C

Equipment Class: (5) Horizontal Pumps



20120808-QuadCities-2 326



20120808-QuadCities-2 328



20120808-QuadCities-2 327



20120808-QuadCities-2 330

Sheet 5 of 11

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2-1001-65C

Equipment Class: (5) Horizontal Pumps



20120808-QuadCities-2 331



20120808-QuadCities-2 333



20120808-QuadCities-2 332



20120808-QuadCities-2 334

Sheet 6 of 11

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2-1001-65C

Equipment Class: (5) Horizontal Pumps



20120808-QuadCities-2 335



20120808-QuadCities-2 337



20120808-QuadCities-2 336



20120808-QuadCities-2 338

Sheet 7 of 11

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2-1001-65C

Equipment Class: (5) Horizontal Pumps



20120808-QuadCities-2 339



20120808-QuadCities-2 341



20120808-QuadCities-2 340



20120808-QuadCities-2 342

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2-1001-65C

Equipment Class: (5) Horizontal Pumps



20120808-QuadCities-2 343



20120808-QuadCities-2 345



20120808-QuadCities-2 344



20120808-QuadCities-2 346

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2-1001-65C

Equipment Class: (5) Horizontal Pumps



20120808-QuadCities-2 347



20120808-QuadCities-2 349



20120808-QuadCities-2 348



20120808-QuadCities-2 350

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2-1001-65C

Equipment Class: (5) Horizontal Pumps



20120808-QuadCities-2 351



20120808-QuadCities-2 353



20120808-QuadCities-2 352



20120808-QuadCities-2 354

Quad Cities Generating Station Unit 2 12Q0108.40-R-002, Rev. 3 Correspondence No.: RS-12-169 Sheet 11 of 11

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2-1001-65C

Equipment Class: (5) Horizontal Pumps



20120808-QuadCities-2 355

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)	N U
Equipment ID No.: 2-1002A	
Equipment Class: (6) Vertical Pumps	
Equipment Description: PUMP, 2A	
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 equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments a findings. Additional space is provided at the end of this checklist for documenting other comments.	
 Anchorage 1. Is anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? 	Yes
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? Minor surface corrosion judged to be acceptable.	Yes
4. Is the anchorage free of visible cracks in the concrete near the anchors? Minor shrinkage cracks in grout pad and floor judged to be acceptable.	Yes
 Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) 	Yes
Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	Yes
Interaction Effects 7 Are soft targets free from impact by pearby equipment or structures?	Yes
7. Are soft targets free from impact by nearby equipment or structures?	162

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

Colomia Walledown	Chaaklist	(CMC)			Status: Y N U
Seismic Walkdown	Checklist	(344C)	:		
Equipmer	nt ID No.:	2-1002A	A. J. 1999		
Equipme	ent Class:	(6) Vertical Pumps	**************************************		
Equipment De	scription:	PUMP, 2A			
				n	
masonry bloc	ck walls no	nt, distribution systems likely to collapse onto judged to be acceptal	the equipment?	iignting, and	Yes
9. Do attached	lines have	adequate flexibility to a	avoid damage?		Yes
		smic interaction evalua mic interaction effects'		ent free of	Yes
Other Adverse Cond	ditions				
11. Have you loo adversely aff	oked for and ect the safe	d found no adverse selety functions of the equ	ismic conditions to uipment?	hat could	Yes
Comments SEWS Anchorage No	otes:	1 1			The second secon
Pump is anchored wi	th four 1" C	Cast-in-Place bolts.			
****** Seismic Walkdown T	eam: J. Gr	iffith & M. Wodarcyk - 8	8/10/2012		
Evaluated by:	Juns D. Aggra	James Griffith		Date:	10/4/2012
_ 6	fflipal)	1. Washington 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

Status: Y N U

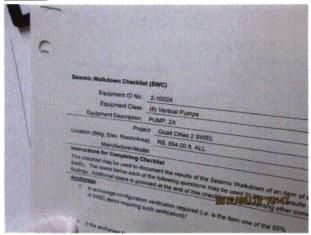
Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2-1002A

Equipment Class: (6) Vertical Pumps

Equipment Description: PUMP, 2A

Photos



Status: Y N Seismic Walkdown Checklist (SWC)	U
Equipment ID No.: 2-1003A	
Equipment Class: (21) Tanks and Heat Exchangers	
	—
Equipment Description: HX, 2A RHR	
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 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.	<u></u>
<u>Anchorage</u>	
 Is anchorage configuration verification required (i.e., is the item one of the 50% You of SWEL items requiring such verification)? 	es
Two bolts were observed at each of the 4 trunnion support points on the gallery steel.	
2. Is the anchorage free of bent, broken, missing or loose hardware?	es
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	es
4. Is the anchorage free of visible cracks in the concrete near the anchors? Not Applicate	ole
Heat exchanger supported from gallery steel.	
 Is the anchorage configuration consistent with plant documentation? (Note: Y This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) 	es
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	es
Interaction Effects	
7. Are soft targets free from impact by nearby equipment or structures?	es

Quad Cities Generating Station Unit 2 12Q0108.40-R-002, Rev. 3 Correspondence No.: RS-12-169 Sheet 2 of 11

Seismic Walkdown Checklist (SWC)	Status: Y N U
Equipment ID No.: 2-1003A	
Equipment Class: (21) Tanks and Heat Exchangers	
Equipment Description: HX, 2A RHR	
Some of heat exchanger not visible due to lead shielding blankets.	
 Lead shielding supported with taut chains and is not expected to move laterally into any soft targets. 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? Overhead light fixtures judged to be acceptable. 	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 SEWS Anchorage Notes:	
Large vertical HX hung on four feet at quadrant points near the top of the HX. Each foot is a 1.25" bolts into structural steel platform and the platform is at Elev. 580'.	anchored by approx.

Seismic Walkdown Team: J. Griffith & M. Wodarcyk - 8/10/2012	
Evaluated by: James Griffith Date: 10	0/4/2012
4 // \/	0/4/2012

Sheet 3 of 11

Status: Y N U

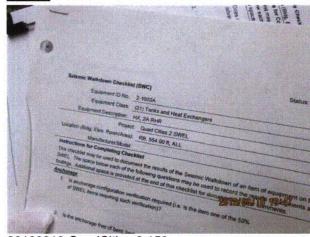
Seismic Walkdown Checklist (SWC)

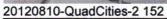
Equipment ID No.: 2-1003A

Equipment Class: (21) Tanks and Heat Exchangers

Equipment Description: HX, 2A RHR

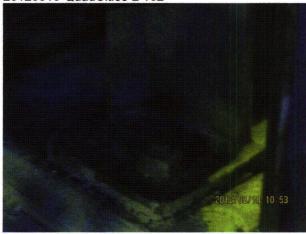
Photos







20120810-QuadCities-2 153



20120810-QuadCities-2 154



20120810-QuadCities-2 155

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2-1003A

Equipment Class: (21) Tanks and Heat Exchangers



20120810-QuadCities-2 156



20120810-QuadCities-2 158



20120810-QuadCities-2 157



20120810-QuadCities-2 159

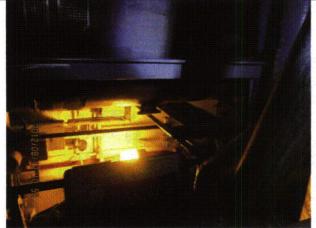
Sheet 5 of 11

Status: Y N U

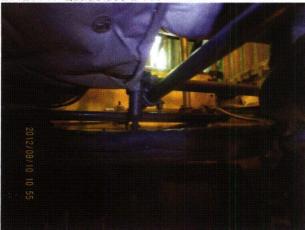
Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2-1003A

Equipment Class: _(21) Tanks and Heat Exchangers



20120810-QuadCities-2 160



20120810-QuadCities-2 162



20120810-QuadCities-2 161



20120810-QuadCities-2 187

Sheet 6 of 11

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2-1003A

Equipment Class: (21) Tanks and Heat Exchangers





20120810-QuadCities-2 190



20120810-QuadCities-2 189



20120810-QuadCities-2 191

Sheet 7 of 11

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2-1003A

Equipment Class: (21) Tanks and Heat Exchangers



20120810-QuadCities-2 192



20120810-QuadCities-2 194



20120810-QuadCities-2 193



20120810-QuadCities-2 195

Sheet 8 of 11

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2-1003A

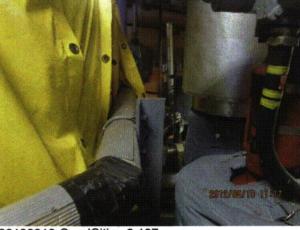
Equipment Class: _(21) Tanks and Heat Exchangers



20120810-QuadCities-2 196



20120810-QuadCities-2 198



20120810-QuadCities-2 197



20120810-QuadCities-2 199

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2-1003A

Equipment Class: (21) Tanks and Heat Exchangers



20120810-QuadCities-2 200



20120810-QuadCities-2 202



20120810-QuadCities-2 201



20120810-QuadCities-2 203

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2-1003A

Equipment Class: (21) Tanks and Heat Exchangers



20120810-QuadCities-2 204



20120810-QuadCities-2 206



20120810-QuadCities-2 205



20120810-QuadCities-2 207

Sheet 11 of 11

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2-1003A

Equipment Class: (21) Tanks and Heat Exchangers

Equipment Description: HX, 2A RHR





20120810-QuadCities-2 228

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.: 2-1601-21-AO	
Equipment Class: (7) Fluid-Operated Valves	
Equipment Description: PSS DRYWELL PURGE AIR-OP VALVE 1601-21	
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

Seismic \	Walkdown Checklist (SWC)	Status: Y N U
	Equipment ID No.: 2-1601-21-AO	
	Equipment Class: (7) Fluid-Operated Valves	
Eq	uipment Description: PSS DRYWELL PURGE AIR-OP VALVE 1601-21	
	on Effects	
7. A	re soft targets free from impact by nearby equipment or structures?	Yes
(Copper tubing next to flexible conduits judged to be acceptable.	
sı sı 8. A	mall valve 2-4799-1281 has adequate horizontal separation to conduit upport and small vertical separation. Station vertical seismic acceleration is mall; therefore, vertical separation is judged to be acceptable. re overhead equipment, distribution systems, ceiling tiles and lighting, and	Yes
m	nasonry block walls not likely to collapse onto the equipment?	
•		
9. D	o attached lines have adequate flexibility to avoid damage?	Yes
	ased on the above seismic interaction evaluations, is equipment free of otentially adverse seismic interaction effects?	Yes
·		
Other Ad	verse Conditions	
11. H	lave you looked for and found no adverse seismic conditions that could dversely affect the safety functions of the equipment? Light fixture near valve with broken cover. Broken pieces were removed uring walkdown. No seismic interaction concern. See IR 1400092.	Yes
Commen	its	
	Valkdown Team: J. Griffith & M. Wodarcyk - 8/10/2012	
Evaluated	d by: James Griffith Date:	10/4/2012
	Michael Wodarcyk	10/4/2012

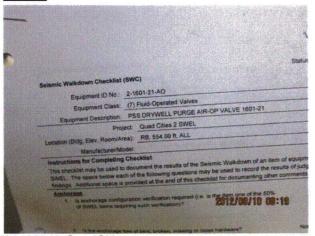
Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2-1601-21-AO

Equipment Class: (7) Fluid-Operated Valves

Equipment Description: PSS DRYWELL PURGE AIR-OP VALVE 1601-21

Photos



20120810-QuadCities-2 002



20120810-QuadCities-2 072



20120810-QuadCities-2 071



20120810-QuadCities-2 073

Sheet 4 of 6

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2-1601-21-AO

Equipment Class: (7) Fluid-Operated Valves

Equipment Description: PSS DRYWELL PURGE AIR-OP VALVE 1601-21



20120810-QuadCities-2 074



20120810-QuadCities-2 076



20120810-QuadCities-2 075



20120810-QuadCities-2 077

Sheet 5 of 6

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2-1601-21-AO

Equipment Class: (7) Fluid-Operated Valves

Equipment Description: PSS DRYWELL PURGE AIR-OP VALVE 1601-21





20120810-QuadCities-2 080



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20120810-QuadCities-2 081

Seismic Walkdown Checklist (SWC)

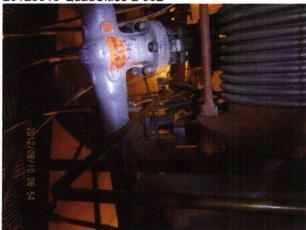
Equipment ID No.: 2-1601-21-AO

Equipment Class: (7) Fluid-Operated Valves

Equipment Description: PSS DRYWELL PURGE AIR-OP VALVE 1601-21



20120810-QuadCities-2 082



20120810-QuadCities-2 084



20120810-QuadCities-2 083



20120810-QuadCities-2 085

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

Seismic Walkdown Checklist (S)	NC)	Status: Y N U
Equipment ID No.: 2-	1601-23-AO	
) Fluid-Operated Valves	
VI	LV, BUTTERFLY ISO, 18 - PSS DRYWELL VENT TO REATMENT AND RB EXH SYS AO VLV 1	STANDBY GAS
Project:	Quad Cities 2 SWEL	
Location (Bldg, Elev, Room/Area):		
Manufacturer/Model:		,
Instructions for Completing Che	cklist	
SWEL. The space below each of t	ument the results of the Seismic Walkdown of an item of the following questions may be used to record the resu ded at the end of this checklist for documenting other c	Its of judgments and
<u>Anchorage</u>		
Is anchorage configuration of SWEL items requiring signs.	verification required (i.e., is the item one of the 50% uch verification)?	No No
2. Is the anchorage free of be	ent, broken, missing or loose hardware?	Not Applicable
3. Is the anchorage free of co	prrosion that is more than mild surface oxidation?	Not Applicable
4. Is the anchorage free of vi	sible cracks in the concrete near the anchors?	Not Applicable
	ation consistent with plant documentation? (Note: if the item is one of the 50% for which an anchorage required.)	Not Applicable
Based on the above anchor potentially adverse seismic	orage evaluations, is the anchorage free of 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)	<u></u> N U
Equipment ID No.: 2-1601-23-AO	
Equipment Class: (7) Fluid-Operated Valves	
VLV, BUTTERFLY ISO, 18 - PSS DRYWELL VENT TO STANDBY GA Equipment Description: TREATMENT AND RB EXH SYS AO VLV 1	S
Interaction Effects	
7. Are soft targets free from impact by nearby equipment or structures?	Yes
Tubes for valve in close proximity are flexible 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? Overhead light fixture judged to be acceptable.	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 - 8/8/2012	
Evaluated by: James Griffith Date: 10/4/2012 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

Status: Y N U

Seismic Walkdown Checklist (SWC)

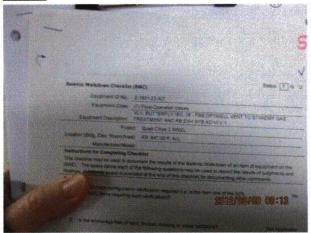
Equipment ID No.: 2-1601-23-AO

Equipment Class: (7) Fluid-Operated Valves

VLV, BUTTERFLY ISO, 18 - PSS DRYWELL VENT TO STANDBY GAS

Equipment Description: TREATMENT AND RB EXH SYS AO VLV 1

Photos



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

Seismic Walkdown Checklist (SWC)	Status: Y N U
Equipment ID No.: 2-1601-24-AO	
Equipment Class: _(7) Fluid-Operated Valves	
Equipment Description: VLV, BUTTERFLY ISO, 18 - U-2 CNMT RX BLDG EXH VENT	VLV
Project: _Quad Cities 2 SWEL	
Location (Bldg, Elev, Room/Area): RB, 647.00 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 comme	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
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 12

Seismic Walkdown Checklist (SWC)	Status: Y N U
Equipment ID No.: 2-1601-24-AO	
Equipment Class: (7) Fluid-Operated Valves	
Equipment Description: VLV, BUTTERFLY ISO, 18 - U-2 CNMT RX BLDG EXH VE	NT 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	Yes
masonry block walls not likely to collapse onto the equipment? Overhead light fixtures judged to be acceptable.	
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	0/4/2012
Mishael J. Wodnight	
Michael Wodarcyk 10	0/4/2012

Sheet 3 of 12

Status: Y N U

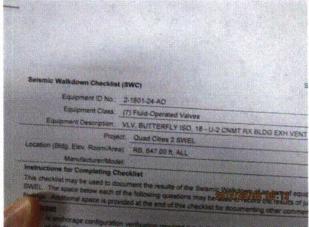
Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2-1601-24-AO

Equipment Class: (7) Fluid-Operated Valves

Equipment Description: VLV, BUTTERFLY ISO, 18 - U-2 CNMT RX BLDG EXH VENT VLV

Photos



20120808-QuadCities-2 002



20120808-QuadCities-2 004



20120808-QuadCities-2 003



20120808-QuadCities-2 005

Sheet 4 of 12

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2-1601-24-AO

Equipment Class: _(7) Fluid-Operated Valves



20120808-QuadCities-2 006



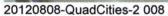
20120808-QuadCities-2 007

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2-1601-24-AO

Equipment Class: _(7) Fluid-Operated Valves







20120808-QuadCities-2 009

Seismic Walkdown Checklist (SWC)

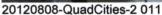
Equipment ID No.: 2-1601-24-AO

Equipment Class: (7) Fluid-Operated Valves



20120808-QuadCities-2 010







20120808-QuadCities-2 012



20120808-QuadCities-2 013

Sheet 7 of 12

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2-1601-24-AO

Equipment Class: _(7) Fluid-Operated Valves



20120808-QuadCities-2 014



20120808-QuadCities-2 016



20120808-QuadCities-2 015



20120808-QuadCities-2 017

Sheet 8 of 12

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2-1601-24-AO

Equipment Class: _(7) Fluid-Operated Valves



20120808-QuadCities-2 018



20120808-QuadCities-2 019

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2-1601-24-AO

Equipment Class: _(7) Fluid-Operated Valves



20120808-QuadCities-2 020



20120808-QuadCities-2 021

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2-1601-24-AO

Equipment Class: (7) Fluid-Operated Valves



20120808-QuadCities-2 022



20120808-QuadCities-2 024



20120808-QuadCities-2 023



20120808-QuadCities-2 025

Sheet 11 of 12

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2-1601-24-AO

Equipment Class: (7) Fluid-Operated Valves

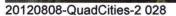


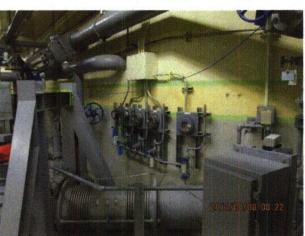


20120808-QuadCities-2 027









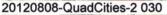
20120808-QuadCities-2 029

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2-1601-24-AO

Equipment Class: (7) Fluid-Operated Valves







20120808-QuadCities-2 031



20120808-QuadCities-2 032

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.: 2-1601-57-MO	
Equipment Class: (8) Motor-Operated and Solenoid-Operated Valves	
VLV, IS0, 1", N2 MAKEUP TO CONTAIMENT - U-2 N2 MU Equipment Description: DOWNSTREAM SV HANDWHEEL	TO CNMT
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.	
<u>Anchorage</u>	
 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: 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

Correspondence No.: RS-12-169

Sheet 2 of 6

Status: Y N U Seismic Walkdown Checklist (SWC) Equipment ID No.: 2-1601-57-MO Equipment Class: (8) Motor-Operated and Solenoid-Operated Valves VLV, ISO, 1", N2 MAKEUP TO CONTAIMENT - U-2 N2 MU TO CNMT Equipment Description: DOWNSTREAM SV HANDWHEEL **Interaction Effects** 7. Are soft targets free from impact by nearby equipment or structures? Yes Small pipe near rugged MOV motor 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** 11. Have you looked for and found no adverse seismic conditions that could Yes adversely affect the safety functions of the equipment? Comments Seismic Walkdown Team: J. Griffith & M. Wodarcyk - 8/6/2012 See south HCU bank area walk-by for further notes. James Griffith Evaluated by: Date: 10/4/2012 Michael Wodarcyk 10/4/2012

Sheet 3 of 6

Status: Y N U

Seismic Walkdown Checklist (SWC)

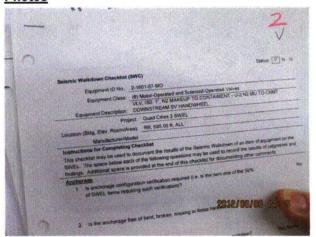
Equipment ID No.: 2-1601-57-MO

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

VLV, ISO, 1", N2 MAKEUP TO CONTAIMENT - U-2 N2 MU TO CNMT

Equipment Description: DOWNSTREAM SV HANDWHEEL

Photos



20120806-QuadCities-2 337



20120806-QuadCities-2 339



20120806-QuadCities-2 340

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2-1601-57-MO

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

VLV, ISO, 1", N2 MAKEUP TO CONTAIMENT - U-2 N2 MU TO CNMT

Equipment Description: DOWNSTREAM SV HANDWHEEL





20120806-QuadCities-2 343



20120806-QuadCities-2 342



20120806-QuadCities-2 344

Sheet 5 of 6

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2-1601-57-MO

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

VLV, ISO, 1", N2 MAKEUP TO CONTAIMENT - U-2 N2 MU TO CNMT

Equipment Description: DOWNSTREAM SV HANDWHEEL



20120806-QuadCities-2 345



20120806-QuadCities-2 346



20120806-QuadCities-2 347



20120806-QuadCities-2 348

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2-1601-57-MO

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

VLV, ISO, 1", N2 MAKEUP TO CONTAIMENT - U-2 N2 MU TO CNMT

Equipment Description: DOWNSTREAM SV HANDWHEEL



20120806-QuadCities-2 349





20120806-QuadCities-2 351