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

	Status: Y N U
Seismic Walkdown Checklist (SWC)	
Equipment ID No.: 2-0305-127-22-27	
Equipment Class: (7) Fluid-Operated Valves	
Equipment Description: CRD SCRAM Outlet 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 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
<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 configuration verification is required.) 	Not Applicable
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? The scram outlet valve is an in-line component with the operator adequately restrained to the CRD/HCU support frame.	Yes

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

Seismic Walkdown Checklist (SWC)	Status: Y N U
Equipment ID No.: 2-0305-127-22-27	
Equipment Class: (7) Fluid-Operated Valves	*
Equipment Description: CRD SCRAM Outlet Valve (22-27 F-7 (South))	
Interaction Effects	
7. Are soft targets free from impact by nearby equipment or structures?	Yes
Tubes, conduits, and pipes 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? 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
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. Have you looked for and found no adverse seismic conditions that could adversely affect the safety functions of the equipment?	Yes
Tubes in close proximity to gallery bracket. Flexible tubes and gallery braced against lateral translation. Judged to be acceptable.	Market Service
Comments Seismic Walkdown Team: J. Griffith & M. Wodarcyk - 8/6/2012	
Evaluated by: James Griffith Date: 1	0/4/2012
Michael Wodarcyk ,1	0/4/2012
Photos	

	Status: Y N U
Seismic Walkdown Checklist (SWC)	•
Equipment ID No.: 2-0305-127-30-11	
Equipment Class: _(7) Fluid-Operated Valves	
Equipment Description: CRD SCRAM Outlet Valve (30-11 H-3 (South))	
Project: Quad Cities 2 SWEL	the same and the s
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 cords.	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 outlet valve is an in-line component with the operator adequately restrained to the CRD/HCU support frame.	Yes

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

Seismic Walkdow	wn Checklist (SWC)	Status: Y N U
	ment ID No.: 2-0305-127-30-11	
	oment Class: (7) Fluid-Operated Valves	
Interaction Effects	Description: CRD SCRAM Outlet Valve (30-11 H-3 (South))	· · · · · · · · · · · · · · · · · · ·
	argets free from impact by nearby equipment or structures?	Yes
masonry bl One end	nead equipment, distribution systems, ceiling tiles and lighting, and block walls not likely to collapse onto the equipment? If of light supported by a beam clamp oriented incorrectly. Mitigated by ion and softening due to power cord. Judged to be acceptable.	Yes
9. Do attache	ed lines have adequate flexibility to avoid damage?	Yes
	the above seismic interaction evaluations, is equipment free of adverse seismic interaction effects?	Yes
Other Adverse Co	<u>onditions</u>	
adversely a Tubes in	looked for and found no adverse seismic conditions that could affect the safety functions of the equipment? In close proximity to gallery bracket. Flexible tubes and gallery braced teral translation. Judged to be acceptable.	Yes
Comments		
	n Team: J. Griffith & M. Wodarcyk - 8/6/2012	
Evaluated by:	Mishal a Wodysk	10/4/2012
	Michael Wodarcyk	10/4/2012
Photos		

Seismic Walkdown Checklist (SWC)	Status: Y N U
Equipment ID No.: 2-0305-127-38-59	
Equipment Class: (7) Fluid-Operated Valves	
Equipment Description: CRD SCRAM Outlet 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 SWEL. The space below each of the following questions may be used to record the result findings. Additional space is provided at the end of this checklist for documenting other contents.	s 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 configuration verification is required.) 	Not Applicable
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? The scram outlet valve is an in-line component with the operator adequately restrained to the CRD/HCU support frame.	Yes

Correspondence No.: RS-12-169

Sheet 2 of 2

Status: Y N U Seismic Walkdown Checklist (SWC) Equipment ID No.: 2-0305-127-38-59 Equipment Class: (7) Fluid-Operated Valves Equipment Description: CRD SCRAM Outlet Valve (38-59 K-15 (North)) **Interaction Effects** Yes 7. Are soft targets free from impact by nearby equipment or structures? 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** 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 James Griffith Evaluated by: Date: 10/4/2012 Michael Wodarcyk 10/4/2012 **Photos**

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

Seismic Walkdown Checklist (SWC)	Status: Y N U
Equipment ID No.: 2-0305-127-42-27	
Equipment Class: (7) Fluid-Operated Valves	
Equipment Description: CRD SCRAM Outlet 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.	s 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
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 outlet 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

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

Seismic Walkdow	vn Checklist (SWC)		Status: Y	N U
Equipm	nent ID No.: 2-0305-127-42-27			
Equip	ment Class: _(7) Fluid-Operated Valves		· · · · · · · · · · · · · · · · · · ·	
Equipment I	Description: CRD SCRAM Outlet Valve (42-27 L-7 (North))			
Tubes an	d pipes in close proximity are flexible and judged to be acceptab	le.		
•				
	ead equipment, distribution systems, ceiling tiles and lighting, and lock walls not likely to collapse onto the equipment?	d		Yes
9. Do attache	ed lines have adequate flexibility to avoid damage?			Yes
	the above seismic interaction evaluations, is equipment free of adverse seismic interaction effects?			Yes
	onditions looked for and found no adverse seismic conditions that could affect the safety functions of the equipment?			Yes
uuvoissi,				
Comments Seismic Walkdown	Team: J. Griffith & M. Wodarcyk - 8/6/2012			
Evaluated by:		ate:	10/4/2012	······································
	Michael J. Woodingt			
	Michael Wodarcyk		10/4/2012	<u>.</u>
	•			
Photos	· · · · · · · · · · · · · · · · · · ·			

Seismic Walkdown Checklist (SWC)	Status: Y N U
Equipment ID No.: _2-0305-22-27	
Equipment Class: (0) Other	
Equipment Description: HCU - (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 SWEL. The space below each of the following questions may be used to record the result findings. Additional space is provided at the end of this checklist for documenting other or the space is provided at the end of this checklist for documenting other or the space is provided at the end of this checklist for documenting other or the space is provided at the end of this checklist for documenting other or the space is provided at the end of this checklist for document in the space is provided at the end of this checklist for document in the space.	ilts of judgments and
Anchorage	
 Is anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? 	Yes
	•
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
	•
4. Is the anchorage free of visible cracks in the concrete near the anchors?	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? Valves and accumulator well-supported on HCU framework. 	Yes
	,
	•
	•

Seismic Walkdown 0	hocklist /SWC	~1		Status: Y] ท บ
	·	•			
	ID No.: <u>2-03</u>		•	•	
Equipmer	t Class: <u>(0) (</u>	Other		1	
	cription: HCL	J - (22-27 F-7 (South))			_
Interaction Effects					
7. Are soft targe	s free from imp	pact by nearby equipment or structures?		•	Yes
Tubes, cond acceptable.	uits, and pipes	in close proximity are flexible and judged	to be		
masonry block One end of l	walls not likely ght supported	stribution systems, ceiling tiles and lighting y to collapse onto the equipment? by a beam clamp oriented incorrectly. Mit lue to power cord. Judged to be acceptable	igated by		Yes
9. Do attached li	nes have adeq	uate flexibility to avoid damage?			Yes
		interaction evaluations, is equipment free nteraction effects?	e of		Yes
Other Adverse Cond	tions				
		nd no adverse seismic conditions that cou	ıld	•	Yes
adversely affe	ct the safety fu	inctions of the equipment?			
		gallery bracket. Tubes are flexible, galler ation. Judged to be acceptable.	y is		
bruoou agame	. ratoral transla				
Comments					=
	am: J. Griffith &	& M. Wodarcyk - 8/6/2012		. ,	
Anchorage is shown of	n Drawings M-	346, Rev. L, and M-357, Sheet 1, Rev. A			
Evaluated by:	∽ D. Appl Ja	nmes Griffith	Date: _	10/4/2012	
<u>/</u> /	Mishal J. Wa	Michael Wodarcyk		10/4/2012	
,					

Sheet 3 of 8

Status: Y N U

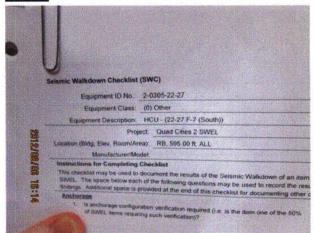
Seismic Walkdown Checklist (SWC)

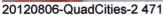
Equipment ID No.: 2-0305-22-27

Equipment Class: (0) Other

Equipment Description: HCU - (22-27 F-7 (South))

Photos







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Sheet 4 of 8

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2-0305-22-27

Equipment Class: (0) Other



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Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2-0305-22-27

Equipment Class: (0) Other



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Sheet 6 of 8

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2-0305-22-27

Equipment Class: (0) Other



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20120806-QuadCities-2 486

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2-0305-22-27

Equipment Class: (0) Other



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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.: 2-0305-22-27

Equipment Class: (0) Other



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Quad Cities Generating Station Unit 2 12Q0108.40-R-002, Rev. 3 Correspondence No.: RS-12-169 Sheet 1 of 5

Seismic Walkdown Checklist (SWC)	Status: Y N U
Equipment ID No.: 2-0305-30-11	
Equipment Class: (0) Other	
Equipment Description: HCU - (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 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
<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
4. Is the anchorage free of visible cracks in the concrete near the anchors?	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
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Valves and accumulator well-supported on HCU framework.	Yes

Quad Cities Generating Station Unit 2 12Q0108.40-R-002, Rev. 3 Correspondence No.: RS-12-169 Sheet 2 of 5

Seismic Walkdown Checklist (SWC)	Status: Y N U
Equipment ID No.: 2-0305-30-11	• .
Equipment Class: (0) Other	
Equipment Description: HCU - (30-11 H-3 (South))	
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? 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
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. Have you looked for and found no adverse seismic conditions that could	Yes
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.	
Comments Seismic Walkdown Team: J. Griffith & M. Wodarcyk - 8/6/2012	
Anchorage is shown on Drawings M-346, Rev. L, and M-357, Sheet 1, Rev. A.	
Evaluated by: James Griffith Date: 1	0/4/2012
	10/4/2012

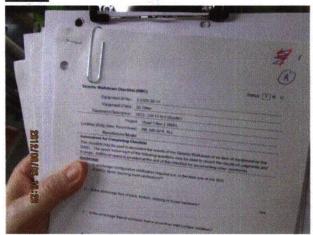
Seismic Walkdown Checklist (SWC)

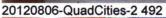
Equipment ID No.: 2-0305-30-11

Equipment Class: (0) Other

Equipment Description: HCU - (30-11 H-3 (South))

Photos







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Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2-0305-30-11

Equipment Class: (0) Other

Equipment Description: HCU - (30-11 H-3 (South))



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20120806-QuadCities-2 497



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Sheet 5 of 5

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2-0305-30-11

Equipment Class: (0) Other

Equipment Description: HCU - (30-11 H-3 (South))



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

Seismic Walkdown Checklist (SWC)	Status: Y N U
Equipment ID No.: 2-0305-38-59	T. P. Commission of the Commis
Equipment Class: (0) Other	
Equipment Description: HCU - (38-59 K-15 (North))	
Project: Quad Cities 2 SWEL	į.
Location (Bldg, Elev, Room/Area): RB, 595.00 ft, ALL	†
Manufacturer/Model:	4
Instructions for Completing Checklist	
This checklist may be used to document the results of the Seismic Walkdown of an item of SWEL. The space below each of the following questions may be used to record the result findings. Additional space is provided at the end of this checklist for documenting other contents.	Its of judgments and
<u>Anchorage</u>	1
 Is anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? 	Yes
	a.
	,
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
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Yes
- Is the anchorage free of visible cracks in the concrete freat the anchors:	103
	:
 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? Valves and accumulator well-supported on HCU framework. 	Yes

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

Seismic Walkdown Checklist	(SWC)	Status: Y N U
Equipment ID No.:	2-0305-38-59	
Equipment Class:		
•	HCU - (38-59 K-15 (North))	
Interaction Effects	, and the second	
7. Are soft targets free from	m impact by nearby equipment or structures?	Yes
Tubes and pipes in clo	ose proximity are flexible and judged to be acceptable.	
	nt, distribution systems, ceiling tiles and lighting, and tilkely to collapse onto the equipment?	Yes
9. Do attached lines have	adequate flexibility to avoid damage?	Yes
		•
	•	·
10. Based on the above sei potentially adverse seis	ismic interaction evaluations, is equipment free of mic interaction effects?	Yes
		•
	d found no adverse seismic conditions that could ety functions of the equipment?	Yes
Comments Seismic Walkdown Team: J. Gr	iffith & M. Wodarcyk - 8/6/2012 gs M-346, Rev. L, and M-357, Sheet 1, Rev. A.	
Evaluated by:	James Griffith Date:	10/4/2012
Evaluated by: Sm. D. Aff		
	Michael Wodarcyk	10/4/2012

Sheet 3 of 8

Status: Y N U

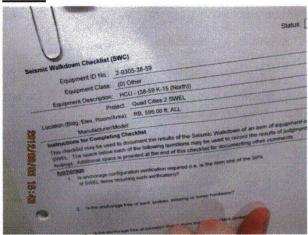
Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2-0305-38-59

Equipment Class: (0) Other

Equipment Description: HCU - (38-59 K-15 (North))

Photos



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20120806-QuadCities-2 413

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2-0305-38-59

Equipment Class: (0) Other



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20120806-QuadCities-2 415



20120806-QuadCities-2 417

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2-0305-38-59

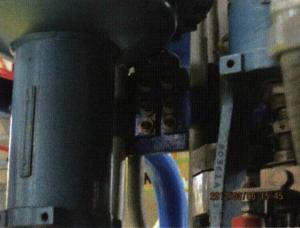
Equipment Class: (0) Other



20120806-QuadCities-2 418



20120806-QuadCities-2 420



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20120806-QuadCities-2 421

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2-0305-38-59

Equipment Class: (0) Other



20120806-QuadCities-2 422



20120806-QuadCities-2 423



20120806-QuadCities-2 424



20120806-QuadCities-2 425

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2-0305-38-59

Equipment Class: (0) Other



20120806-QuadCities-2 426



20120806-QuadCities-2 427



20120806-QuadCities-2 428



20120806-QuadCities-2 429

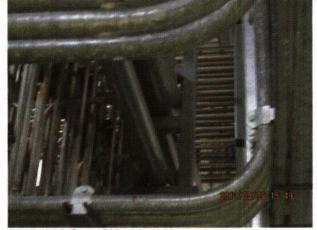
Sheet 8 of 8

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2-0305-38-59

Equipment Class: (0) Other



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20120806-QuadCities-2 431



20120806-QuadCities-2 432

Status: Y N	U				
Seismic Walkdown Checklist (SWC)					
Equipment ID No.: 2-0305-42-27					
Equipment Class: (0) Other					
Equipment Description: HCU - (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 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)? 	es				
Is the anchorage free of bent, broken, missing or loose hardware? Y	es/				
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	es/				
Is the anchorage free of visible cracks in the concrete near the anchors? Y	′es				
 Is the anchorage configuration consistent with plant documentation? (Note: Yes This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) 	es/				
Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Valves and accumulator well-supported on HCU framework.	es/es				

Seism	Status: Y N U					
	Equipment ID No.:	2-0305-42-27				
	Equipment Class:					
	•		- Annual State Mills Committee			
Equipment Description: HCU - (42-27 L-7 (North)) Interaction Effects						
		m impact by nearby equipment or structures?	Yes			
	Tubes and pipes in cl	ose proximity are flexible and judged to be acceptable.				
8.		nt, distribution systems, ceiling tiles and lighting, and of likely to collapse onto the equipment?	Yes			
9.	Do attached lines have	adequate flexibility to avoid damage?	Yes			
			1			
10.		ismic interaction evaluations, is equipment free of	Yes			
	potentially adverse seis	smic interaction effects?				
			,			
Other	Adverse Conditions					
11.	Have you looked for ar	d found no adverse seismic conditions that could fety functions of the equipment?	Yes			
٠.						
Comments Seismic Walkdown Team: J. Griffith & M. Wodarcyk - 8/6/2012						
Ancho	rage is shown on Drawin	gs M-346, Rev. L, and M-357, Sheet 1, Rev. A.				
	Ima D. Addr	<u> </u>				
Evalua	ated by: Sm. D. Aff	James Griffith Date:	10/4/2012			
	Mashael	Michael Wodarcyk	10/4/2012			
	•					

Sheet 3 of 8

Status: Y N U

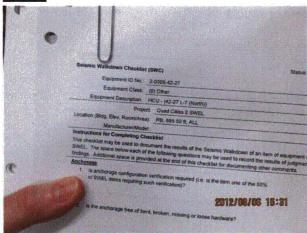
Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2-0305-42-27

Equipment Class: (0) Other

Equipment Description: HCU - (42-27 L-7 (North))

Photos



20120806-QuadCities-2 386



20120806-QuadCities-2 388



20120806-QuadCities-2 387



20120806-QuadCities-2 389

Sheet 4 of 8

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2-0305-42-27

Equipment Class: (0) Other



20120806-QuadCities-2 390



20120806-QuadCities-2 392



20120806-QuadCities-2 391



20120806-QuadCities-2 393

Sheet 5 of 8

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2-0305-42-27

Equipment Class: (0) Other



20120806-QuadCities-2 394



20120806-QuadCities-2 396



20120806-QuadCities-2 395



20120806-QuadCities-2 397

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2-0305-42-27

Equipment Class: (0) Other



20120806-QuadCities-2 398



20120806-QuadCities-2 400



20120806-QuadCities-2 399



20120806-QuadCities-2 401

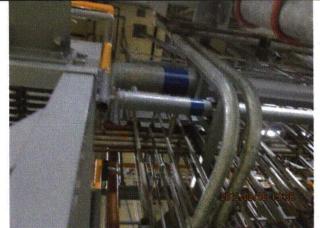
Sheet 7 of 8

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2-0305-42-27

Equipment Class: (0) Other



20120806-QuadCities-2 402



20120806-QuadCities-2 404



20120806-QuadCities-2 403



20120806-QuadCities-2 405

Sheet 8 of 8

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2-0305-42-27

Equipment Class: (0) Other

Equipment Description: HCU - (42-27 L-7 (North))



20120806-QuadCities-2 406



20120806-QuadCities-2 408



20120806-QuadCities-2 407



20120806-QuadCities-2 409

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)	atus: Y N U		
Equipment ID No.: 2-1001-145A			
Equipment Class: (21) Tanks and Heat Exchangers			
Equipment Description: HEAT EXCHANGER			
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 equip SWEL. The space below each of the following questions may be used to record the results of jufindings. Additional space is provided at the end of this checklist for documenting other commen	idgments and		
Anchorage 1. Is anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Anchored to slab at bottom, supported from gallery steel at top.	No		
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		
Is the anchorage free of visible cracks in the concrete near the anchors? Minor shrinkage cracks in floor and grout pad at base 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.) 	Not Applicable		
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 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 3

Seismic Walkdown Checklist (SWC)	Status: Y N U
Equipment ID No.: 2-1001-145A	
Equipment Class: (21) Tanks and Heat Exchangers	
Equipment Description: HEAT EXCHANGER	
	·
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
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	Vaa
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 - 8/10/2012	
No tag on equipment. Item verified to be correct by Equipment Operator.	
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

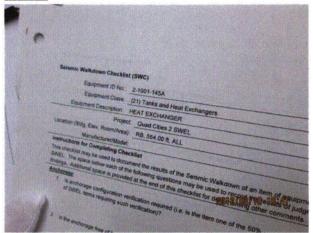
Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2-1001-145A

Equipment Class: _(21) Tanks and Heat Exchangers

Equipment Description: HEAT EXCHANGER

Photos



20120810-QuadCities-2 151

Seismic Walkdown Checklist (SWC)	Status: Y N U
Equipment ID No.: 2-1001-165A	
Equipment Class: (7) Fluid-Operated Valves	
Equipment Description: VALVE, RELIEF - 2A RHR HX TUBE SIDE RV	
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 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
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
Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	Yes
Interaction Effects 7. Are not torrest from impact by poorby equipment or structures?	Vaa
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 6

Seismic Walkdown Checklist (SWC)	Status: Y N U
Equipment ID No.: 2-1001-165A	
Equipment Class: _(7) Fluid-Operated Valves	
Equipment Description: VALVE, RELIEF - 2A RHR HX TUBE SIDE RV	
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Light fixture mounted to concrete beam judged to be acceptable.	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. 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 - 8/9/2012	
Michael J. Wodwayk	0/4/2012

Correspondence No.: RS-12-169

Sheet 3 of 6

Status: Y N U

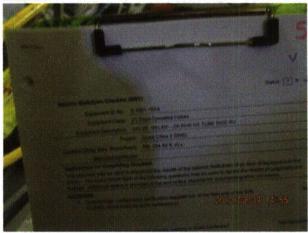
Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2-1001-165A

Equipment Class: (7) Fluid-Operated Valves

Equipment Description: VALVE, RELIEF - 2A RHR HX TUBE SIDE RV

Photos



20120809-QuadCities-2 381



20120809-QuadCities-2 383



20120809-QuadCities-2 382



20120809-QuadCities-2 384

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2-1001-165A

Equipment Class: (7) Fluid-Operated Valves

Equipment Description: VALVE, RELIEF - 2A RHR HX TUBE SIDE RV



20120809-QuadCities-2 385



20120809-QuadCities-2 387



20120809-QuadCities-2 386



20120809-QuadCities-2 388

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2-1001-165A

Equipment Class: (7) Fluid-Operated Valves

Equipment Description: VALVE, RELIEF - 2A RHR HX TUBE SIDE RV



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20120809-QuadCities-2 391



20120809-QuadCities-2 390



20120809-QuadCities-2 392

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

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2-1001-165A

Equipment Class: (7) Fluid-Operated Valves

Equipment Description: VALVE, RELIEF - 2A RHR HX TUBE SIDE RV



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.: 2-1001-166A	
Equipment Class: (7) Fluid-Operated Valves	
Equipment Description: VALVE, RELIEF - 2A RHR HX SHELL SIDE RV	
Project: Quad Cities 2 SWEL	
Location (Bldg, Elev, Room/Area): RB, 580.00 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 comm	f 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
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	Not Applicable
configuration verification is required.)	
6. Based on the above anchorage evaluations, is the anchorage free of	Yes
potentially adverse seismic conditions?	•
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 6

Seism	ic Walkdown Checklist (SWC)	Status: Y N U
	Equipment ID No.: 2-1001-166A	
	Equipment Class: (7) Fluid-Operated Valves	
	Equipment Description: VALVE, RELIEF - 2A RHR HX SHELL SIDE RV	
	Lead shielding support chains are taut; thus, lead shielding configuration is not expected to swing. Support chains near valve flange 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? Valve protected by gallery support beam directly above.	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.	Have you looked for and found no adverse seismic conditions that could adversely affect the safety functions of the equipment?	Yes
<u>Comm</u> Seismi	nents ic Walkdown Team: J. Griffith & M. Wodarcyk - 8/9/2012	
Evalua	Michael Wodarcyk	10/4/2012

Sheet 3 of 6

Status: Y N U

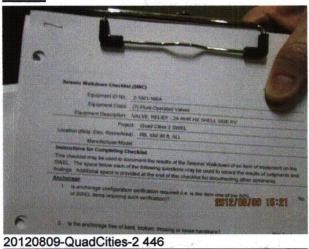
Seismic Walkdown Checklist (SWC)

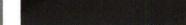
Equipment ID No.: 2-1001-166A

Equipment Class: (7) Fluid-Operated Valves

Equipment Description: VALVE, RELIEF - 2A RHR HX SHELL SIDE RV

Photos





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Sheet 4 of 6

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2-1001-166A

Equipment Class: _(7) Fluid-Operated Valves

Equipment Description: VALVE, RELIEF - 2A RHR HX SHELL SIDE RV



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20120809-QuadCities-2 452



20120809-QuadCities-2 451



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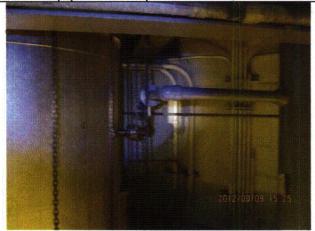
Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2-1001-166A

Equipment Class: _(7) Fluid-Operated Valves

Equipment Description: VALVE, RELIEF - 2A RHR HX SHELL SIDE RV



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20120809-QuadCities-2 455



20120809-QuadCities-2 457

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

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2-1001-166A

Equipment Class: _(7) Fluid-Operated Valves

Equipment Description: VALVE, RELIEF - 2A RHR HX SHELL SIDE RV



20120809-QuadCities-2 458

 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? 	us: YN U	Statu nic Walkdown Checklist (SWC)
Equipment Class: (8) Motor-Operated and Solenoid-Operated Valves Equipment Description: VALVE, HX 2A BYPASS - 2A RHR HX BYP 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 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 comments Anchorage 1. Is anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? 2. Is the anchorage free of bent, broken, missing or loose hardware? 1. Is the anchorage free of visible cracks in the concrete near the anchors? 1. Is the anchorage free of visible cracks in the concrete near the anchors? 1. 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.: 2-1001-16A
Equipment Description: VALVE, HX 2A BYPASS - 2A RHR HX BYP 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 equipm SWEL. The space below each of the following questions may be used to record the results of judgindings. 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)? 2. Is the anchorage free of bent, broken, missing or loose hardware? 1. Is the anchorage free of corrosion that is more than mild surface oxidation? 1. Is the anchorage free of visible cracks in the concrete near the anchors? 1. 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.)		
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 equipm SWEL. The space below each of the following questions may be used to record the results of judgindings. 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)? 2. Is the anchorage free of bent, broken, missing or loose hardware? 3. Is the anchorage free of corrosion that is more than mild surface oxidation? 4. Is the anchorage free of visible cracks in the concrete near the anchors? 5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)		
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 judgifindings. 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)? 2. Is the anchorage free of bent, broken, missing or loose hardware? 1. Is the anchorage free of corrosion that is more than mild surface oxidation? 1. Is the anchorage free of visible cracks in the concrete near the anchors? 1. 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.)		
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 judgindings. 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)? 2. Is the anchorage free of bent, broken, missing or loose hardware? 1. Is the anchorage free of corrosion that is more than mild surface oxidation? 2. Is the anchorage free of visible cracks in the concrete near the anchors? 3. Is the anchorage free of visible cracks in the concrete near the anchors? 4. 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.)	,	on (Bldg, Elev, Room/Area): RB, 554.00 ft, ALL
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 judginedings. 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)? 2. Is the anchorage free of bent, broken, missing or loose hardware? 3. Is the anchorage free of corrosion that is more than mild surface oxidation? 4. Is the anchorage free of visible cracks in the concrete near the anchors? 5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)		
SWEL. The space below each of the following questions may be used to record the results of judgindings. 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)? 2. Is the anchorage free of bent, broken, missing or loose hardware? 3. Is the anchorage free of corrosion that is more than mild surface oxidation? 4. Is the anchorage free of visible cracks in the concrete near the anchors? 5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)		ctions for Completing Checklist
 Is anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Is the anchorage free of bent, broken, missing or loose hardware? Is the anchorage free of corrosion that is more than mild surface oxidation? Is the anchorage free of visible cracks in the concrete near the anchors? Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) Based on the above anchorage evaluations, is the anchorage free of 	gments and	The space below each of the following questions may be used to record the results of judg
of SWEL items requiring such verification)? 2. Is the anchorage free of bent, broken, missing or loose hardware? 3. Is the anchorage free of corrosion that is more than mild surface oxidation? 4. Is the anchorage free of visible cracks in the concrete near the anchors? 5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)		
 Is the anchorage free of corrosion that is more than mild surface oxidation? Is the anchorage free of visible cracks in the concrete near the anchors? Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) Based on the above anchorage evaluations, is the anchorage free of 	No	
 Is the anchorage free of corrosion that is more than mild surface oxidation? Is the anchorage free of visible cracks in the concrete near the anchors? Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) Based on the above anchorage evaluations, is the anchorage free of 		
 4. Is the anchorage free of visible cracks in the concrete near the anchors? 5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) 6. Based on the above anchorage evaluations, is the anchorage free of 	Not Applicable	Is the anchorage free of bent, broken, missing or loose hardware?
 4. Is the anchorage free of visible cracks in the concrete near the anchors? 5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) 6. Based on the above anchorage evaluations, is the anchorage free of 		
 5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) 6. Based on the above anchorage evaluations, is the anchorage free of 	Not Applicable	Is the anchorage free of corrosion that is more than mild surface oxidation?
This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) 6. Based on the above anchorage evaluations, is the anchorage free of	Not Applicable	Is the anchorage free of visible cracks in the concrete near the anchors? N
This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) 6. Based on the above anchorage evaluations, is the anchorage free of		
	Not Applicable	This question only applies if the item is one of the 50% for which an anchorage
	Yes	
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 7

Seismic Walkdown Checklist	(SWC)	Status: Y N U
Equipment ID No.:	2-1001-16A	
	(8) Motor-Operated and Solenoid-Operated Valves	
• •	VALVE, HX 2A BYPASS - 2A RHR HX BYP VLV	
	nt, distribution systems, ceiling tiles and lighting, and tilkely to collapse onto the equipment?	Yes
9. Do attached lines have	adequate flexibility to avoid damage?	Yes
	ismic interaction evaluations, is equipment free of mic interaction effects?	Yes
	d found no adverse seismic conditions that could ety functions of the equipment?	Yes
Comments Seismic Walkdown Team: J. Gr	iffith & M. Wodarcyk - 8/9/2012	
Evaluated by: Sm. D. After	J. Wodneyk	0/4/2012

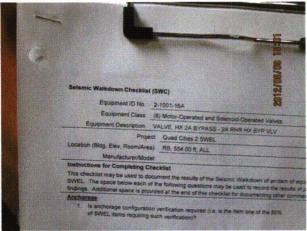
Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2-1001-16A

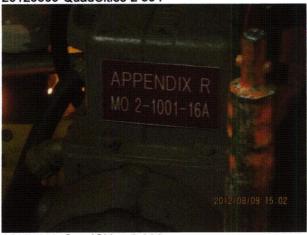
Equipment Class: _(8) Motor-Operated and Solenoid-Operated Valves

Equipment Description: VALVE, HX 2A BYPASS - 2A RHR HX BYP VLV

Photos



20120809-QuadCities-2 394



20120809-QuadCities-2 396



20120809-QuadCities-2 395



20120809-QuadCities-2 397

Sheet 4 of 7

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2-1001-16A

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



20120809-QuadCities-2 398



20120809-QuadCities-2 400



20120809-QuadCities-2 399



20120809-QuadCities-2 401

Sheet 5 of 7

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2-1001-16A

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



20120809-QuadCities-2 402



20120809-QuadCities-2 404



20120809-QuadCities-2 403



20120809-QuadCities-2 405

Sheet 6 of 7

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2-1001-16A

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



20120809-QuadCities-2 406





20120809-QuadCities-2 408



20120809-QuadCities-2 409

Sheet 7 of 7

Status: Y N U

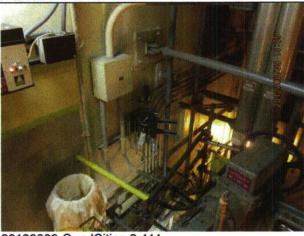
Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2-1001-16A

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



20120809-QuadCities-2 410



20120809-QuadCities-2 411



20120809-QuadCities-2 412

Quad Cities Generating Station Unit 2 12Q0108.40-R-002, Rev. 3 Correspondence No.: RS-12-169 Sheet 1 of 5

Seismic Walkdown Checklist (SWC)	Status: Y N U		
Equipment ID No.: 2-1001-22A			
Equipment Class: (7) Fluid-Operated Valves			
Equipment Description: VALVE, RELIEF - 2A LPCI LOOP RV			
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 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 com-	of judgments and		
Anchorage 1. Is anchorage configuration varification required (i.e. in the item one of the 50%)	No		
 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		
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 5

Seismic Walkdown Checklist (SWC)	Status: Y N U
Equipment ID No.: 2-1001-22A	
Equipment Class: _(7) Fluid-Operated Valves	
Equipment Description: VALVE, RELIEF - 2A LPCI LOOP RV	
8. 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
	•
10. 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 - 8/10/2012	•
Evaluated by: Date: 10.	/4/2012
Meihael J. Wodwayk	
Michael Wodarcyk 10	/4/2012

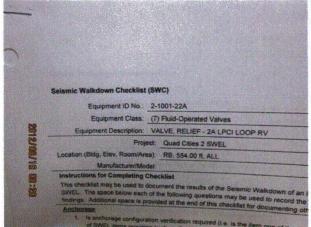
Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2-1001-22A

Equipment Class: (7) Fluid-Operated Valves

Equipment Description: VALVE, RELIEF - 2A LPCI LOOP RV

Photos



20120810-QuadCities-2 006



20120810-QuadCities-2 052



20120810-QuadCities-2 051



20120810-QuadCities-2 053

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2-1001-22A

Equipment Class: (7) Fluid-Operated Valves

Equipment Description: VALVE, RELIEF - 2A LPCI LOOP RV



20120810-QuadCities-2 054



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20120810-QuadCities-2 057

Seismic Walkdown Checklist (SWC)

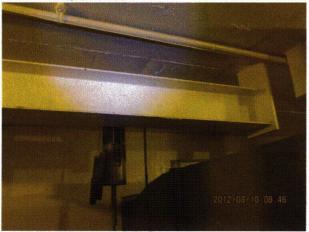
Equipment ID No.: 2-1001-22A

Equipment Class: (7) Fluid-Operated Valves

Equipment Description: VALVE, RELIEF - 2A LPCI LOOP RV



20120810-QuadCities-2 058



20120810-QuadCities-2 060



20120810-QuadCities-2 059



20120810-QuadCities-2 061

Quad Cities Generating Station Unit 2 12Q0108.40-R-002, Rev. 3 Correspondence No.: RS-12-169 Sheet 1 of 4

Seismic Walkdown Checklist (SWC)	Status: Y N U
Equipment ID No.: 2-1001-29A	
Equipment Class: (8) Motor-Operated and Solenoid-Operated Valves	<u> </u>
	TO A DECIDE
Equipment Description: VALVE, LOOP A LPCI INJ - LPCI OUTBOARD INJECTION	TO A RECIRC
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 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.	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
Interaction Effects	
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 4

Seismic W	alkdown Checklist	(SWC)	Status: Y N U
	Equipment ID No.:	2-1001-29A	
	Equipment Class:	(8) Motor-Operated and Solenoid-Operated Valves	
Equi	pment Description:	VALVE, LOOP A LPCI INJ - LPCI OUTBOARD INJECT	TON TO A RECIRC
		nt, distribution systems, ceiling tiles and lighting, and tilkely to collapse onto the equipment?	Yes
9. Do	attached lines have	adequate flexibility to avoid damage?	Yes
		ismic interaction evaluations, is equipment free of mic interaction effects?	Yes
Other Adve	erse Conditions		
11. Ha	ve you looked for an	d found no adverse seismic conditions that could ety functions of the equipment?	Yes
Comments Seismic Wa	="	iffith & M. Wodarcyk - 8/10/2012	
Evaluated t	oy: Sm D Apr	James Griffith Date:	10/4/2012
	1	Michael Wodarcyk	10/4/2012

Sheet 3 of 4

Status: Y N U

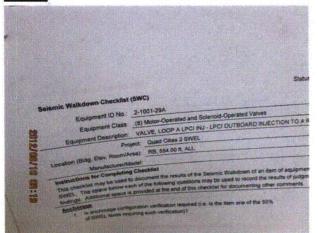
Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2-1001-29A

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

Equipment Description: VALVE, LOOP A LPCI INJ - LPCI OUTBOARD INJECTION TO A RECIRC

Photos



20120810-QuadCities-2 003



20120810-QuadCities-2 135



20120810-QuadCities-2 134



20120810-QuadCities-2 136

Sheet 4 of 4

Status: Y N U

Seismic Walkdown Checklist (SWC)

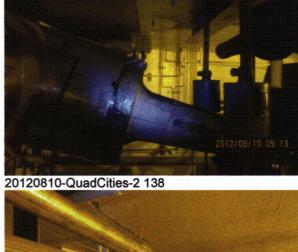
Equipment ID No.: 2-1001-29A

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

Equipment Description: VALVE, LOOP A LPCI INJ - LPCI OUTBOARD INJECTION TO A RECIRC

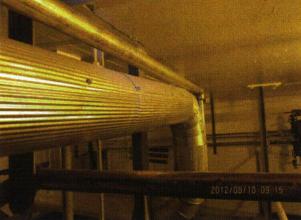


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20120810-QuadCities-2 139



20120810-QuadCities-2 140

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.: 2-1001-34A	
Equipment Class: (8) Motor-Operated and Solenoid-Operated Valves	
Equipment Description: VALVE, TORUS CLG - 2A TORUS SPRAY/CLG SV	
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 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
hada an adi an Fift ada	
Interaction Effects 7. Are soft targets free from impact by nearby equipment or structures?	Yes
and determined and a control to the property of the property o	

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.: 2-1001-34A	
Equipment Class: (8) Motor-Operated and Solenoid-Operated Valves	
Equipment Description: VALVE, TORUS CLG - 2A TORUS SPRAY/CLG SV	
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. 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 - 8/10/2012	
Mishal J. Wodneyt	0/4/2012 0/4/2012

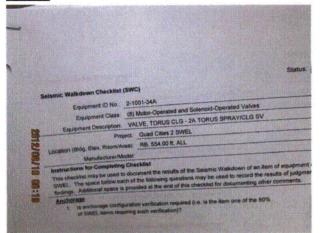
Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2-1001-34A

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

Equipment Description: VALVE, TORUS CLG - 2A TORUS SPRAY/CLG SV

Photos



20120810-QuadCities-2 004



20120810-QuadCities-2 039



20120810-QuadCities-2 038



20120810-QuadCities-2 040

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Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2-1001-34A

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

Equipment Description: VALVE, TORUS CLG - 2A TORUS SPRAY/CLG SV



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20120810-QuadCities-2 042



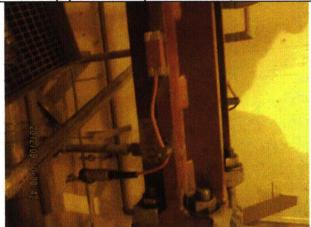
20120810-QuadCities-2 044

Seismic Walkdown Checklist (SWC)

Equipment ID No.: _2-1001-34A

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

Equipment Description: VALVE, TORUS CLG - 2A TORUS SPRAY/CLG SV



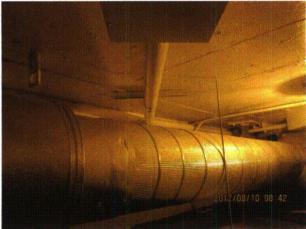
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20120810-QuadCities-2 046



20120810-QuadCities-2 048

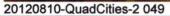
Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2-1001-34A

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

Equipment Description: VALVE, TORUS CLG - 2A TORUS SPRAY/CLG SV







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