Quad Cities Generating Station Unit 1 12Q0108.40-R-001 Rev. 3 Correspondence No.: RS-12-169 Sheet 1 of 4

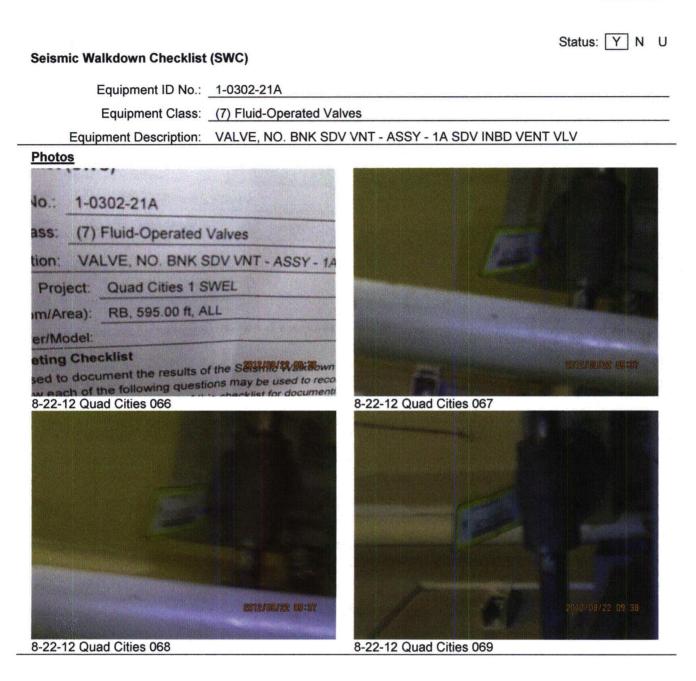
	Status: Y N U
Seismic Walkdown Checklist (SWC)	
Equipment ID No.: 1-0302-21A	
Equipment Class: (7) Fluid-Operated Valves	
Equipment Description: VALVE, NO. BNK SDV VNT - ASSY - 1A SDV INBD VENT	VLV
Project: Quad Cities 1 SWEL	
Location (Bldg, Elev, Room/Area): _RB, 595.00 ft, ALL	
Manufacturer/Model:	
Instructions for Completing Checklist This checklist may be used to document the results of the Seismic Walkdown of an item of e SWEL. The space below each of the following questions may be used to record the results findings. Additional space is provided at the end of this checklist for documenting other com	of judgments and
Anchorage	
 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	
Interaction Effects 7. Are soft targets free from impact by nearby equipment or structures?	Yes

Quad Cities Generating Station Unit 1 12Q0108.40-R-001 Rev. 3 Correspondence No.: RS-12-169 Sheet 2 of 4

Seismic Walkdown Checklist (SWC)	N U
Equipment ID No.: 1-0302-21A	
Equipment Class:	
Equipment Description: VALVE, NO. BNK SDV VNT - ASSY - 1A SDV INBD VENT VLV	
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
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: D. Carter & J. Griffith - 8/22/2012 See North CRD Bank area walk-by for further notes.	
Evaluated by: David Carter Date: 10/4/2012	

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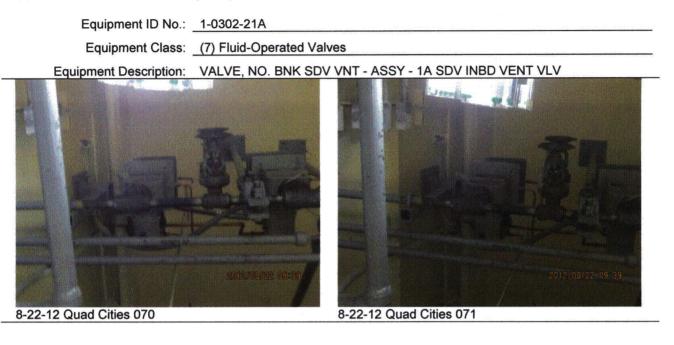
Quad Cities Generating Station Unit 1 12Q0108.40-R-001 Rev. 3 Correspondence No.: RS-12-169 Sheet 3 of 4



Quad Cities Generating Station Unit 1 12Q0108.40-R-001 Rev. 3 Correspondence No.: RS-12-169 Sheet 4 of 4

Status: Y N U

Seismic Walkdown Checklist (SWC)



Quad Cities Generating Station Unit 1 12Q0108.40-R-001 Rev. 3 Correspondence No.: RS-12-169 Sheet 1 of 5

Seism	ic Walkdown Checklist (SWC)	Status: Y N U
	Equipment ID No.: <u>1-0302-22A</u>	
	Equipment Class:(7) Fluid-Operated Valves	
	Equipment Description: VALVE, NO. BNK SDV DRN - 1A SDV INBD DRN VLV	۲
	Project: Quad Cities 1 SWEL	
Locatio	on (Bidg, Elev, Room/Area):	· · · · · · · · · · · · · · · · · · ·
	Manufacturer/Model:	· · · · · · · · · · · · · · · · · · ·
This ch SWEL.	c tions for Completing Checklist necklist may be used to document the results of the Seismic Walkdown of an item of The space below each of the following questions may be used to record the result s. Additional space is provided at the end of this checklist for documenting other co	s of judgments and
Ancho		
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
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.)	Not Applicable
6.	Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	Yes

Quad Cities Generating Station Unit 1 12Q0108.40-R-001 Rev. 3 Correspondence No.: RS-12-169 Sheet 2 of 5

Status: Y N U

Seismic Walkdown Checklist (SWC)			
Equipment ID No.: 1-0302-22A			
Equipment Class: (7) Fluid-Operated Valves	<u>_</u>		
Equipment Description: VALVE, NO. BNK SDV DR	N - 1A SDV INBD DRN VLV		
Interaction Effects			
7 Are soft targets free from impact by nearby equipme	ent or structures? Yes		
Flexible conduits in contact with handrail. Judged t	o be acceptable.		
8. Are overhead equipment, distribution systems, ceilin masonry block walls not likely to collapse onto the e Overhead light fixtures judged to be acceptable.			
9. Do attached lines have adequate flexibility to avoid	damage? Yes		
10. Based on the above seismic interaction evaluations potentially adverse seismic interaction effects?	, is equipment free of Yes		
Other Adverse Conditions	······		
11. Have you looked for and found no adverse seismic adversely affect the safety functions of the equipme			
<u>Comments</u>	· · · · · · · · · · · · · · · · · · ·		
Seismic Walkdown Team: D. Carter & J. Griffith - 8/24/2012			
Evaluated by: David Carter	Date: <u>10/4/2012</u>		
James Griffith	10/4/2012		

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Quad Cities Generating Station Unit 1 12Q0108.40-R-001 Rev. 3 Correspondence No.: RS-12-169 Sheet 3 of 5

Status: Y N U

Seismic Walkdown Checklist (SWC)

	Equipment ID No .:	1-0302-22A
	Equipment Class:	(7) Fluid-Operated Valves
Equ	upment Description:	VALVE, NO. BNK SDV DRN - 1A SDV INBD DRN VLV

Photos



Quad Cities 062

Quad Cities 063

Quad Cities Generating Station Unit 1 12Q0108.40-R-001 Rev. 3 Correspondence No.: RS-12-169 Sheet 4 of 5

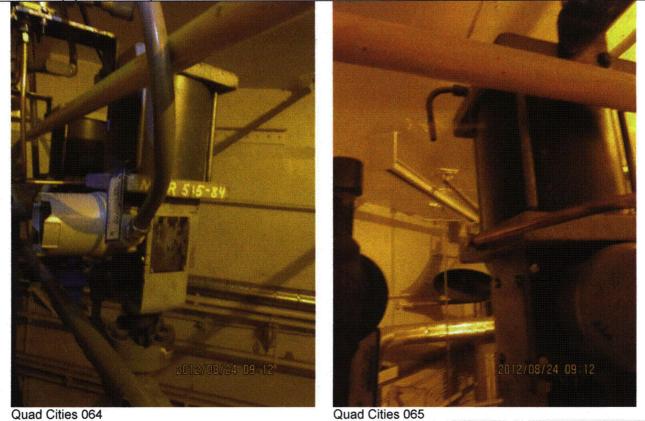
Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 1-0302-22A

Equipment Class: (7) Fluid-Operated Valves

Equipment Description: VALVE, NO. BNK SDV DRN - 1A SDV INBD DRN VLV



Quad Cities Generating Station Unit 1 12Q0108.40-R-001 Rev. 3 Correspondence No.: RS-12-169 Sheet 5 of 5

Status: Y N U

Seismic Walkdown Checklist (SWC)

	Equipment ID No.:	1-0302-22A
	Equipment Class:	(7) Fluid-Operated Valves
Εqι	ipment Description:	VALVE, NO. BNK SDV DRN - 1A SDV INBD DRN VLV



Quad Cities 066

Quad Cities 067

Quad Cities Generating Station Unit 1 12Q0108.40-R-001 Rev. 3 Correspondence No.: RS-12-169 Sheet 1 of 9

Status: Y N U

Seismic Walkdown Checklist (SWC) Equipment ID No.: 1-0305-125-26-31 Equipment Class: (21) Tanks and Heat Exchangers Equipment Description: SCRAM WATER ACCUMULATOR (26-31 G-8 (South)) Project: Quad Cities 1 SWEL Location (Bldg, Elev, Room/Area): _RB, 595.00 ft, ALL Manufacturer/Model: Instructions for Completing Checklist This checklist may be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments. Anchorage 1. Is anchorage configuration verification required (i.e., is the item one of the 50% No of SWEL items requiring such verification)? Not Applicable 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? Not Applicable Not Applicable 4. Is the anchorage free of visible cracks in the concrete near the anchors? 5. Is the anchorage configuration consistent with plant documentation? (Note: Not Applicable This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) 6. Based on the above anchorage evaluations, is the anchorage free of Yes potentially adverse seismic conditions? The scram water accumulator is an inline component that is adequately restrained to the CRD/HCU support frame. Interaction Effects

7. Are soft targets free from impact by nearby equipment or structures? Yes

Quad Cities Generating Station Unit 1 12Q0108.40-R-001 Rev. 3 Correspondence No.: RS-12-169 Sheet 2 of 9

2	· · ·	Status: Y N U
Seismic Walkdown Check	list (SWC)	
Equipment ID N	o.: <u>1-0305-125-26-31</u>	
Equipment Clas	ss: _(21) Tanks and Heat Exchangers	·
Equipment Description	on: SCRAM WATER ACCUMULATOR (26-31 G-8 (S	South))
	ment, distribution systems, ceiling tiles and lighting, and so it is not likely to collapse onto the equipment?	nd Yes
9. Do attached lines ha	ave adequate flexibility to avoid damage?	Yes
· · · · · ·		
	e seismic interaction evaluations, is equipment free of seismic interaction effects?	Yes
		•
adversely affect the	r and found no adverse seismic conditions that could safety functions of the equipment? ipes in contact judged to be acceptable.	Yes
		· · · · · · · · · · · · · · · · · · ·
Comments Seismic Walkdown Team: D	D. Carter & J. Griffith - 8/21/2012	
Evaluated by:	£ David Carter	Date: 10/4/2012
June D.	James Griffith	10/4/2012
· · · ,		

Quad Cities Generating Station Unit 1 12Q0108.40-R-001 Rev. 3 Correspondence No.: RS-12-169 Sheet 3 of 9

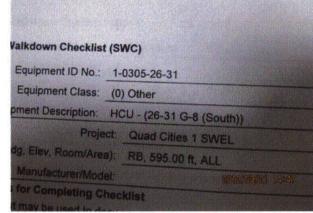
Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: <u>1-0305-125-26-31</u> Equipment Class: <u>(21)</u> Tanks and Heat Exchangers

Equipment Description: SCRAM WATER ACCUMULATOR (26-31 G-8 (South))

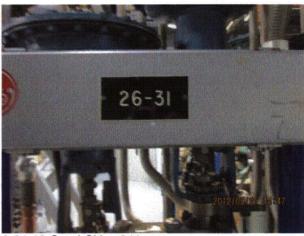
Photos



8-21-12 Quad Cities 240



8-21-12 Quad Cities 242





8-21-12 Quad Cities 243

Quad Cities Generating Station Unit 1 12Q0108.40-R-001 Rev. 3 Correspondence No.: RS-12-169 Sheet 4 of 9

Status: Y N U

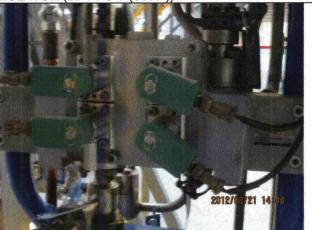
Seismic Walkdown Checklist (SWC)

Equipment ID No.: <u>1-0305-125-26-31</u>

Equipment Class: (21) Tanks and Heat Exchangers

Equipment Description: SCRAM WATER ACCUMULATOR (26-31 G-8 (South))





8-21-12 Quad Cities 245

Quad Cities Generating Station Unit 1 12Q0108.40-R-001 Rev. 3 Correspondence No.: RS-12-169 Sheet 5 of 9

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 1-0305-125-26-31

Equipment Class: (21) Tanks and Heat Exchangers





8-21-12 Quad Cities 246



8-21-12 Quad Cities 247

Quad Cities Generating Station Unit 1 12Q0108.40-R-001 Rev. 3 Correspondence No.: RS-12-169 Sheet 6 of 9

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 1-0305-125-26-31

Equipment Class: (21) Tanks and Heat Exchangers

Equipment Description: SCRAM WATER ACCUMULATOR (26-31 G-8 (South))





8-21-12 Quad Cities 249

8-21-12 Quad Cities 248

Quad Cities Generating Station Unit 1 12Q0108.40-R-001 Rev. 3 Correspondence No.: RS-12-169 Sheet 7 of 9

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No .:	1-0305-125-26-31
Equipment Class:	(21) Tanks and Heat Exchangers
Equipment Description:	SCRAM WATER ACCUMULATOR (26-31 G-8 (South))





8-21-12 Quad Cities 251

Quad Cities Generating Station Unit 1 12Q0108.40-R-001 Rev. 3 Correspondence No.: RS-12-169 Sheet 8 of 9

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.:	1-0305-125-26-31
Equipment Class:	(21) Tanks and Heat Exchangers
Equipment Description:	SCRAM WATER ACCUMULATOR (26-31 G-8 (South))





8-21-12 Quad Cities 252

Quad Cities Generating Station Unit 1 12Q0108.40-R-001 Rev. 3 Correspondence No.: RS-12-169 Sheet 9 of 9

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No .:	1-0305-125-26-31
Equipment Class:	
Equipment Description:	SCRAM WATER ACCUMULATOR (26-31 G-8 (South))



Quad Cities Generating Station Unit 1 12Q0108.40-R-001 Rev. 3 Correspondence No.: RS-12-169 Sheet 1 of 5

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 1-0305-125-30-03		
Equipment Class: (21) Tanks and Heat Exchangers		
Equipment Description: SCRAM WATER ACCUMULATOR (30-03 H-1 (South))		
Project: Quad Cities 1 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 equip SWEL. The space below each of the following questions may be used to record the results of ju findings. Additional space is provided at the end of this checklist for documenting other comment	dgments 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:	Not Applicable	
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	Yes	
potentially adverse seismic conditions? The scram water accumulator is an inline component that is adequately		
restrained to the CRD/HCU support frame.		
Interaction Effects		
Are soft targets free from impact by nearby equipment or structures?	Yes	

Quad Cities Generating Station Unit 1 12Q0108.40-R-001 Rev. 3 Correspondence No.: RS-12-169 Sheet 2 of 5

Seismic Walkdown Checklist (SWC)	Status: Y N U
Equipment ID No.: 1-0305-125-30-03	
Equipment Class: (21) Tanks and Heat Exchangers	
Equipment Description: SCRAM WATER ACCUMULATOR (30-03 H-1 (South))	
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	Yes
9. Do attached lines have adequate flexibility to avoid damage?	Yes
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	Yes
Other Adverse Conditions11. Have you looked for and found no adverse seismic conditions that could adversely affect the safety functions of the equipment?	Yes
<u>Comments</u> Seismic Walkdown Team: D. Carter & J. Griffith - 8/21/2012	
Evaluated by: David Carter Date: 10	0/4/2012
James Griffith 10	0/4/2012

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Quad Cities Generating Station Unit 1 12Q0108.40-R-001 Rev. 3 Correspondence No.: RS-12-169 Sheet 3 of 5

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 1-0305-125-30-03

Equipment Class: (21) Tanks and Heat Exchangers

Equipment Description: SCRAM WATER ACCUMULATOR (30-03 H-1 (South))

Photos



8-21-12 Quad Cities 258

Quad Cities Generating Station Unit 1 12Q0108.40-R-001 Rev. 3 Correspondence No.: RS-12-169 Sheet 4 of 5

Status: Y N U

Seismic Walkdown Checklist (SWC)

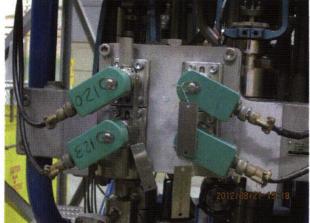
Equipment ID No .:	1-0305-125-30-03	
Equipment Class:	(21) Tanks and Heat Exchangers	
Equipment Description:	SCRAM WATER ACCUMULATOR (3	30-03 H-1 (South))

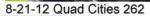




8-21-12 Quad Cities 261

8-21-12 Quad Cities 260







8-21-12 Quad Cities 263

Quad Cities Generating Station Unit 1 12Q0108.40-R-001 Rev. 3 Correspondence No.: RS-12-169 Sheet 5 of 5

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 1-0305-125-30-03

Equipment Class: (21) Tanks and Heat Exchangers

Equipment Description: SCRAM WATER ACCUMULATOR (30-03 H-1 (South))



8-21-12 Quad Cities 264







8-21-12 Quad Cities 267

Quad Cities Generating Station Unit 1 12Q0108.40-R-001 Rev. 3 Correspondence No.: RS-12-169 Sheet 1 of 5

Seismic Walkdown Checklist (SWC)	Status: Y N U
Equipment ID No.: 1-0305-125-34-03	
Equipment Class: (21) Tanks and Heat Exchangers	
Equipment Description: SCRAM WATER ACCUMULATOR (34-03 J-1 (North))	
Project: Quad Cities 1 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 con-	s 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? The scram water accumulator is an inline component that is adequately restrained to the CRD/HCU support frame.	Yes
Interaction Effects	

7. Are soft targets free from impact by nearby equipment or structures?

Yes

Quad Cities Generating Station Unit 1 12Q0108.40-R-001 Rev. 3 Correspondence No.: RS-12-169 Sheet 2 of 5

Seismic Walkd	down Checklist (SWC)	Status: Y N U
Equ	uipment ID No.: 1-0305-125-34-03	
Eq	uipment Class: (21) Tanks and Heat Exchangers	
Equipme	ent Description: SCRAM WATER ACCUMULATOR (34-03 J-1 (North))	
· ·		
masoni	erhead equipment, distribution systems, ceiling tiles and lighting, and iry block walls not likely to collapse onto the equipment? head light fixtures judged to be acceptable.	Yes
9. Do atta	ached lines have adequate flexibility to avoid damage?	Yes
	on the above seismic interaction evaluations, is equipment free of ally adverse seismic interaction effects?	Yes
Other Adverse	e Conditions	· · · · · · · · · · · · · · · · · · ·
11. Have y	you looked for and found no adverse seismic conditions that could ely affect the safety functions of the equipment?	Yes
<u>Comments</u> Seismic Walkdo	own Team: D. Carter & J. Griffith - 8/21/2012	· ·
Evaluated by:		10/4/2012
	James Griffith	10/4/2012
	·	· · · · · · · · · · · · · · · · · · ·

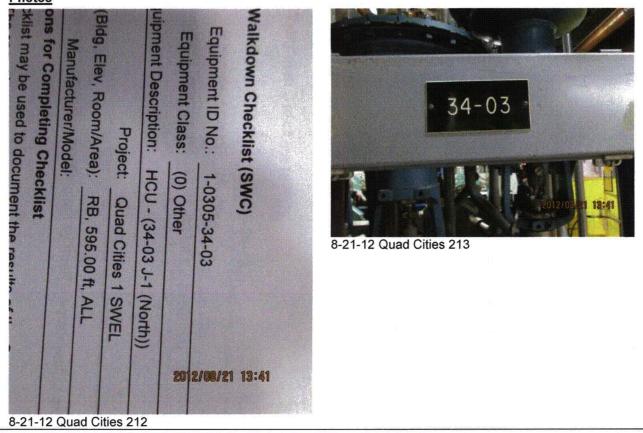
Quad Cities Generating Station Unit 1 12Q0108.40-R-001 Rev. 3 Correspondence No.: RS-12-169 Sheet 3 of 5

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: <u>1-0305-125-34-03</u> Equipment Class: <u>(21) Tanks and Heat Exchangers</u> Equipment Description: SCRAM WATER ACCUMULATOR (34-03 J-1 (North))

Photos



Quad Cities Generating Station Unit 1 12Q0108.40-R-001 Rev. 3 Correspondence No.: RS-12-169 Sheet 4 of 5

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 1-0305-125-34-03

Equipment Class: (21) Tanks and Heat Exchangers

Equipment Description: SCRAM WATER ACCUMULATOR (34-03 J-1 (North))



8-21-12 Quad Cities 214



8-21-12 Quad Cities 216



8-21-12 Quad Cities 215

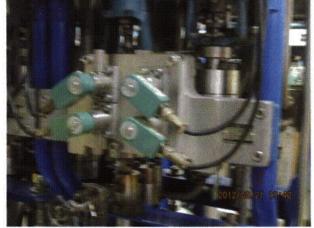


Quad Cities Generating Station Unit 1 12Q0108.40-R-001 Rev. 3 Correspondence No.: RS-12-169 Sheet 5 of 5

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No .:	1-0305-125-34-03
Equipment Class:	(21) Tanks and Heat Exchangers
Equipment Description:	SCRAM WATER ACCUMULATOR (34-03 J-1 (North))



8-21-12 Quad Cities 218



8-21-12 Quad Cities 220



8-21-12 Quad Cities 219



8-21-12 Quad Cities 221

Quad Cities Generating Station Unit 1 12Q0108.40-R-001 Rev. 3 Correspondence No.: RS-12-169 Sheet 1 of 5

Seismic Walkdown Checklist (SWC)	υ
Seisning Walkdowii Checklist (SWC)	
Equipment ID No.: <u>1-0305-125-34-35</u>	
Equipment Class: (21) Tanks and Heat Exchangers	
Equipment Description: SCRAM WATER ACCUMULATOR (34-35 J-9 (North))	
Project: Quad Cities 1 SWEL	_
Location (Bldg, Elev, Room/Area):	
Manufacturer/Model:	
Instructions for Completing Checklist	
This checklist may be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.	
Anchorage	
 Is anchorage configuration verification required (i.e., is the item one of the 50% No of SWEL items requiring such verification)?)
2. Is the anchorage free of bent, broken, missing or loose hardware? Not Applicable)
3. Is the anchorage free of corrosion that is more than mild surface oxidation? Not Applicable	•
4. Is the anchorage free of visible cracks in the concrete near the anchors? Not Applicable	e
 Is the anchorage configuration consistent with plant documentation? (Note: Not Applicable This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) 	•
6. Based on the above anchorage evaluations, is the anchorage free of Yes potentially adverse seismic conditions? <i>The scram water accumulator is an inline component that is adequately restrained to the CRD/HCU support frame.</i>	3
Interaction Effects	

7. Are soft targets free from impact by nearby equipment or structures?

Yes

Quad Cities Generating Station Unit 1 12Q0108.40-R-001 Rev. 3 Correspondence No.: RS-12-169 Sheet 2 of 5

Seismic Walkdown Checklist (SWC)	Status: Y N U
Equipment ID No.: 1-0305-125-34-35	
Equipment Class: (21) Tanks and Heat Exchangers	
Equipment Description: SCRAM WATER ACCUMULATOR (34-35 J-9 (North))	
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
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>Comments</u> Seismic Walkdown Team: D. Carter & J. Griffith - 8/21/2012	
Evaluated by: David Carter Date: 10	0/4/2012
Evaluated by: David Carter Date: 10 Jm D. Apple James Griffith 10	0/4/2012

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Quad Cities Generating Station Unit 1 12Q0108.40-R-001 Rev. 3 Correspondence No.: RS-12-169 Sheet 3 of 5

Status: Y N U

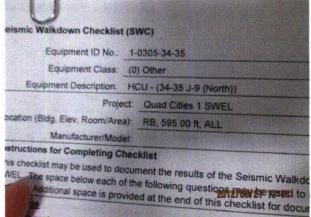
Seismic Walkdown Checklist (SWC)

Equipment ID No.: 1-0305-125-34-35

Equipment Class: (21) Tanks and Heat Exchangers

Equipment Description: SCRAM WATER ACCUMULATOR (34-35 J-9 (North))

Photos



anchorage conf

8-21-12 Quad Cities 202



8-21-12 Quad Cities 204





8-21-12 Quad Cities 205

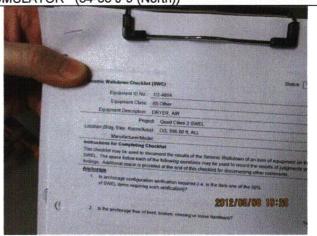
Quad Cities Generating Station Unit 1 12Q0108.40-R-001 Rev. 3 Correspondence No.: RS-12-169 Sheet 4 of 5

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: <u>1-0305-125-34-35</u> Equipment Class: <u>(21) Tanks and Heat Exchangers</u> Equipment Description: SCRAM WATER ACCUMULATOR (34-35 J-9 (North))





8-21-12 Quad Cities 207

Quad Cities Generating Station Unit 1 12Q0108.40-R-001 Rev. 3 Correspondence No.: RS-12-169 Sheet 5 of 5

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 1-0305-125-34-35

Equipment Class: (21) Tanks and Heat Exchangers

Equipment Description: SCRAM WATER ACCUMULATOR (34-35 J-9 (North))



8-21-12 Quad Cities 208





8-21-12 Quad Cities 210



8-21-12 Quad Cities 211

Status: Y N	1 U
Seismic Walkdown Checklist (SWC)	
Equipment ID No.: 1-0305-126-26-31	
Equipment Class: _(7) Fluid-Operated Valves	
Equipment Description: CRD SCRAM Inlet Valve (26-31 G-8 (South))	
Project: Quad Cities 1 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 an findings. Additional space is provided at the end of this checklist for documenting other comments.	
Anchorage	
 Is anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? 	No
2. Is the anchorage free of bent, broken, missing or loose hardware? Not Applica	able
3. Is the anchorage free of corrosion that is more than mild surface oxidation? Not Applica	ible
4. Is the anchorage free of visible cracks in the concrete near the anchors? Not Applica	able
5. Is the anchorage configuration consistent with plant documentation? (Note: Not Applica	able
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	Yes
potentially adverse seismic conditions? The scram inlet valve is an inline component with the operator adequately	
restrained to the CRD/HCU support frame.	
Interaction Effects	

7. Are soft targets free from impact by nearby equipment or structures? Yes

Quad Cities Generating Station Unit 1 12Q0108.40-R-001 Rev. 3 Correspondence No.: RS-12-169 Sheet 2 of 2

Seismic Walkdown Checklist	(SWC)	Status: Y N U
Equipment ID No.:	1-0305-126-26-31	
	(7) Fluid-Operated Valves	
Equipment Description:	CRD SCRAM Inlet Valve (26-31 G-8 (South))	
	nt, distribution systems, ceiling tiles and lighting, t likely to collapse onto the equipment?	and Yes
9. Do attached lines have	adequate flexibility to avoid damage?	Yes
10. Based on the above se potentially adverse seis	ismic interaction evaluations, is equipment free c mic interaction effects?	f Yes
adversely affect the saf	d found no adverse seismic conditions that could ety functions of the equipment? s in contact judged to be acceptable.	Yes
<u>Comments</u> Seismic Walkdown Team: D. C	arter & J. Griffith - 8/21/2012	na far ty dichter. Yn yn wran dy'n tryf y tryf defin Ganad far an di dryfada
Evaluated by:	David Carter	Date: 10/4/2012
June D Affre	James Griffith	10/4/2012
Photos		

Quad Cities Generating Station Unit 1 12Q0108.40-R-001 Rev. 3 Correspondence No.: RS-12-169 Sheet 1 of 2

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: <u>1-0305-126-30-03</u>	
Equipment Class: _(7) Fluid-Operated Valves	
Equipment Description: CRD SCRAM Inlet Valve (30-03 H-1 (South))	
Project: Quad Cities 1 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 co	s 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
5. Is the anchorage configuration consistent with plant documentation? (Note:	Not Applicable
This question only applies if the item is one of the 50% for which an anchorage	
configuration verification is required.)	,
6. Based on the above anchorage evaluations, is the anchorage free of	Yes
potentially adverse seismic conditions?	100
The scram inlet valve is an inline component with the operator adequately restrained to the CRD/HCU support frame.	
Interaction Effects	
7. Are soft targets free from impact by nearby equipment or structures?	Yes

Seismic Walkdown Checklist (SWC)	Status: Y N U
Equipment ID No.: <u>1-0305-126-30-03</u>	
Equipment Class: _(7) Fluid-Operated Valves	
Equipment Description: CRD SCRAM Inlet Valve (30-03 H-1 (South))	
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 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>Comments</u> Seismic Walkdown Team: D. Carter & J. Griffith - 8/21/2012	
Evaluated by: David Carter Date:	10/4/2012
James Griffith	10/4/2012
<u>Photos</u>	

C-58

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Seismic Walkdown Checklist (SWC)	Status: Y N U
Equipment ID No.: 1-0305-126-34-03	
Equipment Class: (7) Fluid-Operated Valves	
Equipment Description: CRD SCRAM Inlet Valve (34-03 J-1 (North))	
Project: Quad Cities 1 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 ea 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	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
5. Is the anchorage configuration consistent with plant documentation? (Note:	Not Applicable
This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)	
comgutation vehication is required.)	
6. Based on the above anchorage evaluations, is the anchorage free of	Yes
potentially adverse seismic conditions?	103
The scram inlet valve is an inline component with the operator adequately restrained to the CRD/HCU support frame.	
Interaction Effects	

7. Are soft targets free from impact by nearby equipment or structures? Yes

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Seismic Walkdow	wn Checklist (SWC)	Status: Y N U
Equipn	ment ID No.: 1-0305-126-34-03	
	oment Class: (7) Fluid-Operated Valves	
	Description: CRD SCRAM Inlet Valve (34-03 J-1 (North))	
masonry b	head equipment, distribution systems, ceiling tiles and lighting, and block walls not likely to collapse onto the equipment? ad light fixtures 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 y adverse seismic interaction effects?	Yes
Other Adverse Co	onditions	
11. Have you	looked for and found no adverse seismic conditions that could affect the safety functions of the equipment?	Yes
<u>Comments</u> Seismic Walkdowr	n Team: D. Carter & J. Griffith - 8/21/2012	
Evaluated by:	David Carter Date:	10/4/2012
	Julit David Carter Date:	10/4/2012
<u>Photos</u>		
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Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 1-0305-126-34-35	
Equipment Class: (7) Fluid-Operated Valves	2
Equipment Description: CRD SCRAM Inlet Valve (34-35 J-9 (North))	,
Project: Quad Cities 1 SWEL	
ocation (Bldg, Elev, Room/Area): RB, 595.00 ft, ALL	•
Manufacturer/Model:	
Instructions for Completing Checklist	
his checklist may be used to document the results of the Seismic Walkdown of an item of equipment on the WEL. The space below each of the following questions may be used to record the results of judgments and ndings. Additional space is provided at the end of this checklist for documenting other comments.	
nchorage	
 Is anchorage configuration verification required (i.e., is the item one of the 50% No of SWEL items requiring such verification)? 	
2. Is the anchorage free of bent, broken, missing or loose hardware? Not Applicable	
3. Is the anchorage free of corrosion that is more than mild surface oxidation? Not Applicable	
4. Is the anchorage free of visible cracks in the concrete near the anchors? Not Applicable	
 Is the anchorage configuration consistent with plant documentation? (Note: Not Applicable This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) 	
6. Based on the above anchorage evaluations, is the anchorage free of Yes potentially adverse seismic conditions? The scram inlet valve is an inline component with the operator adequately restrained to the CRD/HCU support frame.	
nteraction Effects	

7. Are soft targets free from impact by nearby equipment or structures? Yes

Seismic Walkdowr	Chackliet	(SWC)			Status:	YN U
			_			
		1-0305-126-34-3			· · · · · · · · · · · · · · · · · · ·	
		(7) Fluid-Operate		· · · · · · · · · · · · · · · · · · ·		
Equipment D	escription:	CRD SCRAM Inle	et Valve_(34-35 J-9	9 (North))		
masonry blo	ock walls no		ems, ceiling tiles a onto the equipmer eptable.			Yes
9. Do attached	l lines have	adequate flexibility	y to avoid damage'	?		Yes
		•			· ·	
		ismic interaction ev mic interaction effe	valuations, is equip ects?	oment free of		Yes
Other Adverse Cor	nditions					
		d found no advers ety functions of the	e seismic conditior	ns that could		Yes
			o oquipinont.			
Comments						
Seismic Walkdown	Team: D. C	arter & J. Griffith -	8/21/2012			
Evaluated by:	Da Allat	David Carter		Date:	10/4/2012	
	Jones D. Apr			•		
· -		James Griffith	.,	·	10/4/2012	
<u>Photos</u>						
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C-62

Status: Y N U

Seismic Walkdown Checklist (SWC)

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Equipment ID No.:	
Equipment Class: (7) Fluid-Operated Valves	
Equipment Description: CRD SCRAM Outlet Valve (26-31 G-8 (South))	
Project: Quad Cities 1 SWEL	
Location (Bldg, Elev, Room/Area):	
Manufacturer/Model:	
Instructions for Completing Checklist	
This checklist may be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.	
Anchorage	
 Is anchorage configuration verification required (i.e., is the item one of the 50% No of SWEL items requiring such verification)? 	C
2. Is the anchorage free of bent, broken, missing or loose hardware? Not Applicable	э
3. Is the anchorage free of corrosion that is more than mild surface oxidation? Not Applicable	Э
4. Is the anchorage free of visible cracks in the concrete near the anchors? Not Applicable	e
 Is the anchorage configuration consistent with plant documentation? (Note: Not Applicable This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) 	9
6. Based on the above anchorage evaluations, is the anchorage free of Ye potentially adverse seismic conditions? The scram outlet valve is an inline component with the operator adequately restrained to the CRD/HCU support frame.	S
Interaction Effects	
7. Are soft targets free from impact by nearby equipment or structures? Ye	s

Seismic Walkdown Checklist (SWC)	Status: YNU
Equipment ID No.: 1-0305-127-26-31	
Equipment Class:(7) Fluid-Operated Valves	
Equipment Description: CRD SCRAM Outlet Valve (26-31 G-8 (South))	····
•	· · · · · ·
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	Yes
9. Do attached lines have adequate flexibility to avoid damage?	Yes
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	Yes
Other Adverse Conditions 11. Have you looked for and found no adverse seismic conditions that could adversely affect the safety functions of the equipment? Adjacent flexible pipes in contact judged to be acceptable.	Yes
<u>Comments</u> Seismic Walkdown Team: D. Carter & J. Griffith - 8/21/2012	
Evaluated by: <u>Deliver</u> David Carter David Carter David Carter	te: <u>10/4/2012</u>
James Griffith	10/4/2012
Photos	

C-64

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: _1-0305-127-30-03	
Equipment Class: (7) Fluid-Operated Valves	
Equipment Description: CRD SCRAM Outlet Valve (30-03 H-1 (South))	
Project: Quad Cities 1 SWEL	
Location (Bldg, Elev, Room/Area):	
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 o 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
 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
	V-
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	Yes
The scram outlet valve is an inline component with the operator adequately restrained to the CRD/HCU support frame.	
Interaction Effects	
Are soft targets free from impact by nearby equipment or structures?	Yes

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0		- OL				Status:	YN U
Seism	ic Walkdowr	n Checklist	(SWC)				
	Equipmo	ent ID No.:	1-0305-127-30-03				
	Equipm	nent Class:	(7) Fluid-Operated Val	ves			
	Equipment D	escription:	CRD SCRAM Outlet	/alve (30-03 H-1 (S	outh))		
8.			nt, distribution systems, t likely to collapse onto t		ting, and		Yes
				•	•		
9.	Do attached	d lines have	adequate flexibility to a	void damage?			Yes
10.			ismic interaction evaluat mic interaction effects?	tions, is equipment f	ree of		Yes
<u>Other</u> 11.		ooked for an	d found no adverse seis ety functions of the equi		could		Yes
<u>Comm</u> Seismi		Team: D. C	arter & J. Griffith - 8/21/	2012			
Evalua	ited by:	Ja Allat.	David Carter	· · ·	Date:	10/4/2012	
	-	June D. Appr	灯 James Griffith			10/4/2012	
Photo	<u>s</u>		· · · · · · · · · · · · · · · · · · ·	<u>.</u>			
					····.		

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Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: _1-0305-127-34-03	
Equipment Class: (7) Fluid-Operated Valves	
Equipment Description: CRD SCRAM Outlet Valve (34-03 J-1 (North))	
Project: Quad Cities 1 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 o SWEL. The space below each of the following questions may be used to record the results of judgment findings. Additional space is provided at the end of this checklist for documenting other comments.	
Anchorage	
 Is anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? 	No
2. Is the anchorage free of bent, broken, missing or loose hardware? Not Ap	oplicable
3. Is the anchorage free of corrosion that is more than mild surface oxidation? Not Ap	oplicable
	•
4. Is the anchorage free of visible cracks in the concrete near the anchors? Not Ap	oplicable
	oplicable
This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)	
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	Yes
The scram outlet valve is an inline component with the operator adequately	
restrained to the CRD/HCU support frame.	
Interaction Effects	
7. Are soft targets free from impact by nearby equipment or structures?	Yes

Solemic Walk	lown Checklist	(SM/C)		Status: Y	NU
Seisinc wark	IOWII GHecklist	(3WC)			
Equ	ipment ID No.:	1-0305-127-34-03			
Eq	uipment Class:	(7) Fluid-Operated Valves			
Equipme	ent Description:	CRD SCRAM Outlet Valve (34-03 J-1 (North))			
	· .				
mason	ry block walls no	nt, distribution systems, ceiling tiles and lighting, a tikely to collapse onto the equipment? <i>judged to be acceptable.</i>	nd		Yes
9. Do atta	iched lines have	adequate flexibility to avoid damage?			Yes
		smic interaction evaluations, is equipment free of mic interaction effects?			Yes
Other Adverse	Conditions				
11. Have y	ou looked for an	d found no adverse seismic conditions that could ety functions of the equipment?			Yes
		· · ·			
<u>Comments</u> Seismic Walkd	own Team: D. C	arter & J. Griffith - 8/21/2012		·	
Evaluated by:	Dan Allat.	David Carter	Date:	10/4/2012	
	Jones D. Affr	Julie David Carter		10/4/2012	
				·	
<u>Photos</u>					
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Status: Y N U

Seismic Walkdown Checklist (SWC)

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Equipment ID No.:1-0305-127-34-35	
Equipment Class: (7) Fluid-Operated Valves	
Equipment Description: CRD SCRAM Outlet Valve (34-35 J-9 (North))	
Project: Quad Cities 1 SWEL	
Location (Bldg, Elev, Room/Area):	_
Manufacturer/Model:	_
Instructions for Completing Checklist	_
This checklist may be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.	
Anchorage	
1. Is anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? No	כ
2. Is the anchorage free of bent, broken, missing or loose hardware? Not Applicable	Э
3. Is the anchorage free of corrosion that is more than mild surface oxidation? Not Applicable	9
4. Is the anchorage free of visible cracks in the concrete near the anchors? Not Applicable	9
 Is the anchorage configuration consistent with plant documentation? (Note: Not Applicable This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) 	Э
6. Based on the above anchorage evaluations, is the anchorage free of Ye potentially adverse seismic conditions? The scram outlet valve is an inline component with the operator adequately restrained to the CRD/HCU support frame.	S
Interaction Effects	
7. Are soft targets free from impact by nearby equipment or structures? Ye	s

Seismic Walkdown Checklist (S	SWC)		Status: Y	N U
Equipment ID No.: 1	-0305-127-34-35		· ·	
Equipment Class: _(7) Fluid-Operated Valves			
Equipment Description: C	CRD SCRAM Outlet Valve (34-35 J-9 (North))		•	
	distribution systems, ceiling tiles and lighting, a kely to collapse onto the equipment?	nd		Yes
Overhead light fixtures ju				Yes
	nic interaction evaluations, is equipment free of			Yes
Other Adverse Conditions				
11. Have you looked for and t	found no adverse seismic conditions that could y functions of the equipment?			Yes
<u>Comments</u> Seismic Walkdown Team: D. Cart	ter & J. Griffith - 8/21/2012			
Evaluated by: <u>Daddlat Da</u>	avid Carter	Date: 10	0/4/2012	
Jone D. Affred	James Griffith	_1(0/4/2012	
Photos				

S	tatus: YNU
Seismic Walkdown Checklist (SWC)	· · ·
Equipment ID No.: <u>1-0305-26-31</u>	
Equipment Class: _(0) Other	
Equipment Description: HCU - (26-31 G-8 (South))	
Project: Quad Cities 1 SWEL	
Location (Bldg, Elev, Room/Area):	
Manufacturer/Model:	
Instructions for Completing Checklist This checklist may be used to document the results of the Seismic Walkdown of an item of equi SWEL. The space below each of the following questions may be used to record the results of j findings. Additional space is provided at the end of this checklist for documenting other comme	udgments 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
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
5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) Anchorage is shown on Drawings M-346, Rev. L and M-357, sheet 1, Rev.A.	Yes
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	Yes
Interaction Effects	Yes
Are soft targets free from impact by nearby equipment or structures?	tes

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	Status: Y N U
Seismic Walkdown Checklist (SWC)	
Equipment ID No.:	
Equipment Class: _(0) Other	
Equipment Description: HCU - (26-31 G-8 (South))	
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	Yes
9. Do attached lines have adequate flexibility to avoid damage?	Yes
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	Yes
Other Adverse Conditions	· · ·
11. Have you looked for and found no adverse seismic conditions that could adversely affect the safety functions of the equipment? Adjacent flexible pipes in contact judged to be acceptable.	Yes
<u>Comments</u> Seismic Walkdown Team: D. Carter & J. Griffith - 8/21/2012	
Evaluated by: David Carter Date:	10/4/2012
James Griffith	10/4/2012
	·

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Status: Y N U

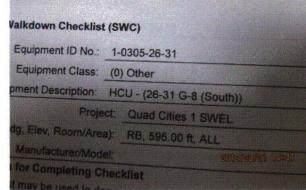
Seismic Walkdown Checklist (SWC)

Equipment ID No.: 1-0305-26-31

Equipment Class: (0) Other

Equipment Description: HCU - (26-31 G-8 (South))

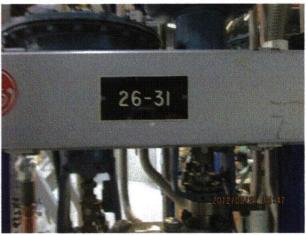
Photos



8-21-12 Quad Cities 240



8-21-12 Quad Cities 242



8-21-12 Quad Cities 241



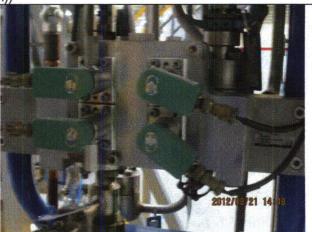
⁸⁻²¹⁻¹² Quad Cities 243

Status:	Y	N	U
otatus.		1.4	0

Seismic Walkdown Checklist (SWC)

Equipment ID No.:	1-0305-26-31	
Equipment Class:	(0) Other	
Equipment Description:	HCU - (26-31 G-8 (South))	





8-21-12 Quad Cities 245

8-21-12 Quad Cities 244

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No .:	1-0305-26-31	
Equipment Class:	(0) Other	

Equipment Description: HCU - (26-31 G-8 (South))



8-21-12 Quad Cities 246



8-21-12 Quad Cities 247

Status: Y N U

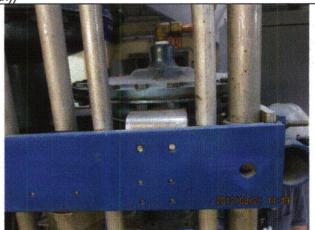
Seismic Walkdown Checklist (SWC)

Equipment ID No.: 1-0305-26-31

Equipment Class: (0) Other

Equipment Description: HCU - (26-31 G-8 (South))





8-21-12 Quad Cities 249

8-21-12 Quad Cities 248

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.:	1-0305-26-31
Equipment Class:	(0) Other
Equipment Description:	HCU - (26-31 G-8 (South))



8-21-12 Quad Cities 250



8-21-12 Quad Cities 251

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No .:	1-0305-26-31
Equipment Class:	(0) Other
Equipment Description:	HCU - (26-31 G-8 (South))
UNIT-I	<image/>

8-21-12 Quad Cities 252

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Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.:	1-0305-26-31
Equipment Class:	
Equipment Description:	HCU - (26-31 G-8 (South))



Sciencia Malladaum Chacklist (SMC)	Status: Y N U
Seismic Walkdown Checklist (SWC)	
Equipment ID No.: 1-0305-30-03	
Equipment Class: _(0) Other	
Equipment Description: HCU - (30-03 H-1 (South))	
Project: Quad Cities 1 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 resu findings. Additional space is provided at the end of this checklist for documenting other c	Its 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
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.) Anchorage is shown on Drawings M-346, Rev. L and M-357, sheet 1, Rev.A. 	Yes
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
· · · · · · · · · · · · · · · · · · ·	

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Seismic Walkdov	wn Checklist (SWC)		Status: Y N U
Equip	ment ID No.: 1-0305-30-03		
Equip	oment Class: (0) Other		
Equipment	Description: HCU - (30-03 H-1 (South))		
	lead equipment, distribution systems, ceiling tiles block walls not likely to collapse onto the equipme		Yes
9. Do attach	ed lines have adequate flexibility to avoid damag	e?	Yes
	the above seismic interaction evaluations, is equ y adverse seismic interaction effects?	lipment free of	Yes
	onditions looked for and found no adverse seismic condition affect the safety functions of the equipment?	ons that could	Yes
<u>Comments</u> Seismic Walkdow	n Team: D. Carter & J. Griffith - 8/21/2012		
Evaluated by:	June D. April James Griffith	Date:	10/4/2012
	James Griffith		10/4/2012

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 1-0305-30-03 Equipment Class: (0) Other Equipment Description: HCU - (30-03 H-1 (South)) Photos alkdown Checklist (SWC) Equipment ID No.: 1-0305-30-03 Equipment ID No.: 1-0305-30-03 Equipment Class: (0) Other

30-03

8-21-12 Quad Cities 257

pment Description: HCU - (30-03 H-1 (South))

Project: Quad Cities 1 SWEL

dg, Elev, Room/Area): RB, 595.00 ft, ALL

Manufacturer/Model:

for Completing Checklist

t may be used to document the results of the Seismic Waldown of an its space below each of the following questions may be used to record the r ditional space is provided at the end of this checklist for documenting oth

8-21-12 Quad Cities 256



8-21-12 Quad Cities 258

8-21-12 Quad Cities 259

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.:	1-0305-30-03
Equipment Class:	
Equipment Description:	HCU - (30-03 H-1 (South))





8-21-12 Quad Cities 261

8-21-12 Quad Cities 260



8-21-12 Quad Cities 262



8-21-12 Quad Cities 263

Status: Y N U

Seismic Walkdown Checklist (SWC)

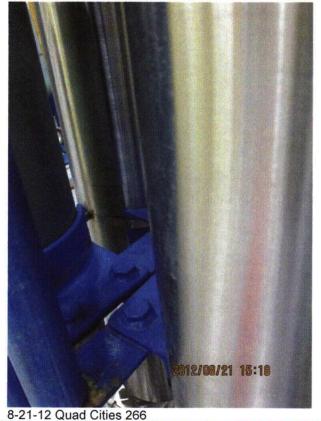
Equipment ID No.: 1-0305-30-03

Equipment Class: (0) Other

Equipment Description: HCU - (30-03 H-1 (South))



8-21-12 Quad Cities 264





8-21-12 Quad Cities 265



8-21-12 Quad Cities 267

Seismic Walkdown Checklist (SWC)	Status: Y N U
Equipment ID No.: 1-0305-34-03	
Equipment Class: (0) Other	
Equipment Description: HCU - (34-03 J-1 (North))	
Project: Quad Cities 1 SWEL	
Location (Bldg, Elev, Room/Area): RB, 595.00 ft, ALL	<u></u>
Manufacturer/Model:	
Instructions for Completing Checklist This checklist may be used to document the results of the Seismic Walkdown of an item of en 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 comp	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
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.) Anchorage is shown on Drawings M-346, Rev. L and M-357, sheet 1, Rev.A. 	Yes
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

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Colored Wolldown Chooklint (CW)		Status: Y N U
Seismic Walkdown Checklist (SW	•)	
Equipment ID No.: _1-03	305-34-03	
Equipment Class: <u>(0)</u>	Other	•
Equipment Description: HCL	J - (34-03 J-1 (North))	
	stribution systems, ceiling tiles and lighting, and y to collapse onto the equipment? red to be acceptable.	d Yes
· ·		
9. Do attached lines have adeq	uate flexibility to avoid damage?	Yes
•		
	•	
10. Based on the above seismic	interaction evaluations, is equipment free of	Yes
potentially adverse seismic i		100
		- -
Other Adverse Conditions		
11. Have you looked for and fou adversely affect the safety fu	nd no adverse seismic conditions that could inctions of the equipment?	Yes
·		
<u>Comments</u>		
Seismic Walkdown Team: D. Carter	& J. Griffith - 8/21/2012	
Evaluated by:	d Carter D	Date: <u>10/4/2012</u>
Evaluated by: <u>And Alet</u> David	mes Griffith	10/4/2012
·		

Status: Y N U

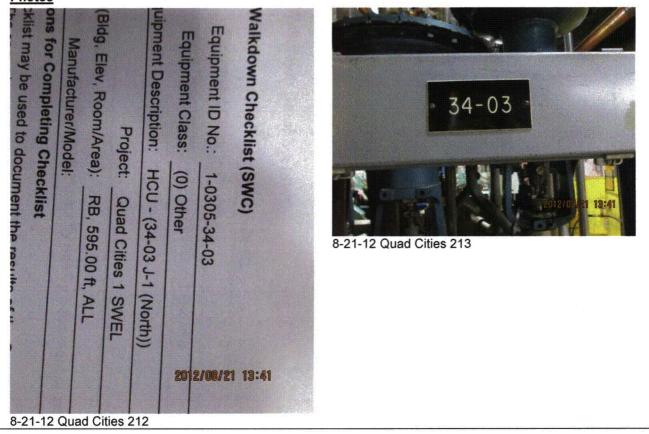
Seismic Walkdown Checklist (SWC)

 Equipment ID No.:
 1-0305-34-03

 Equipment Class:
 (0) Other

 Equipment Description:
 HCU - (34-03 J-1 (North))

Photos



Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 1-0305-34-03

Equipment Class: (0) Other

Equipment Description: HCU - (34-03 J-1 (North))



8-21-12 Quad Cities 214



8-21-12 Quad Cities 216



8-21-12 Quad Cities 215



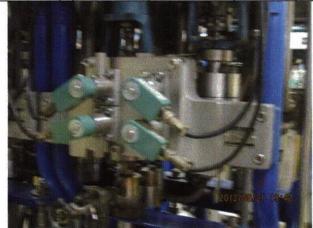
8-21-12 Quad Cities 217

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No .:	1-0305-34-03		
Equipment Class:	(0) Other		

Equipment Description: HCU - (34-03 J-1 (North))



8-21-12 Quad Cities 218



8-21-12 Quad Cities 220



8-21-12 Quad Cities 219



8-21-12 Quad Cities 221

Status: Y N U

Seismic	Walkdown	Checklist	(SWC)
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Equipment ID No.:1-0305-34-35	
Equipment Class:(0) Other	
Equipment Description: HCU - (34-35 J-9 (North))	
Project: Quad Cities 1 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 a findings. Additional space is provided at the end of this checklist for documenting other comments.	
Anchorage	
 Is anchorage configuration verification required (i.e., is the item one of the 50% 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.) Anchorage is shown on Drawings M-346, Rev. L and M-357, sheet 1, Rev.A. 	Yes
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

Seismic Walkdown Checklist (SWC)	Status: Y N U
Equipment ID No.: 1-0305-34-35	
Equipment Class: (0) Other	
Equipment Description: HCU - (34-35 J-9 (North))	
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
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>Comments</u> Seismic Walkdown Team: D. Carter & J. Griffith - 8/21/2012	
Evaluated by: David Carter Date	: 10/4/2012
James Griffith	10/4/2012

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Status: Y N U

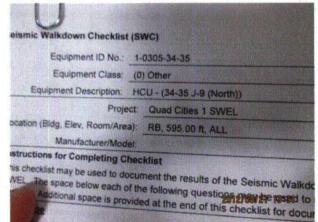
Seismic Walkdown Checklist (SWC)

Equipment ID No.: 1-0305-34-35

Equipment Class: (0) Other

Equipment Description: HCU - (34-35 J-9 (North))

Photos



8-21-12 Quad Cities 202



8-21-12 Quad Cities 204



8-21-12 Quad Cities 203



8-21-12 Quad Cities 205

Status:	Y	N	U

Seismic Walkdown Checklist (SWC)

Equipment ID No .:	1-0305-34-35	Eletertilen zi seren eleter	in internet in the second s	oo	uunuut amaan sad
Equipment Class:	(0) Other				

Equipment Description: HCU - (34-35 J-9 (North))





8-21-12 Quad Cities 207

8-21-12 Quad Cities 206

Quad Cities Generating Station Unit 1 12Q0108.40-R-001 Rev. 3 Correspondence No.: RS-12-169 Sheet 5 of 5

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.:	1-0305-34-35		
Equipment Class:	(0) Other		

Equipment Description: HCU - (34-35 J-9 (North))



8-21-12 Quad Cities 208



8-21-12 Quad Cities 209



8-21-12 Quad Cities 210



8-21-12 Quad Cities 211

Quad Cities Generating Station Unit 1 12Q0108.40-R-001 Rev. 3 Correspondence No.: RS-12-169 Sheet 1 of 7

Seismic Walkdown Checklist (SWC)	Status: Y N U
Equipment ID No.: 1-1001-145C	
Equipment Class: (21) Tanks and Heat Exchangers	
Equipment Description: HEAT EXCHANGER, 1C RHR PUMP	
Project: Quad Cities 1 SWEL	
Location (Bldg, Elev, Room/Area): RB, 554.00 ft, ALL	
Manufacturer/Model:	ı
Instructions for Completing Checklist	
This checklist may be used to document the results of the Seismic Walkdown of an item of ea 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	of judgments and
Anchorage	
 Is anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Bottom anchorage: base plates anchored to floor. 	No
Top anchorage: weld to structural steel.	
2. Is the anchorage free of bent, broken, missing or loose hardware?	Yes
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	Yes
Minor corrosion judged to be acceptable.	
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.) 	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

7. Are soft targets free from impact by nearby equipment or structures?

Quad Cities Generating Station Unit 1 12Q0108.40-R-001 Rev. 3 Correspondence No.: RS-12-169 Sheet 2 of 7

Seismic Walkdow	vn Checklist (SWC)	Status: Y N U
Equipn	ment ID No.: 1-1001-145C	
	oment Class: (21) Tanks and Heat Exchangers	
Equipment	Description: HEAT EXCHANGER, 1C RHR PUMP	
	ead equipment, distribution systems, ceiling tiles and lighting, and block walls not likely to collapse onto the equipment?	Yes
0 De effecte		Vaa
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		
adversely	looked for and found no adverse seismic conditions that could affect the safety functions of the equipment? In test equipment/monitor in vicinity. Heat exchanger rugged. Judged eptable.	Yes
Comments		
Seismic Walkdowr	n Team: D. Carter & J. Griffith - 8/23/2012	
Evaluated by:	Date: David Carter Date:	10/4/2012
	June D. Appt James Griffith	10/4/2012

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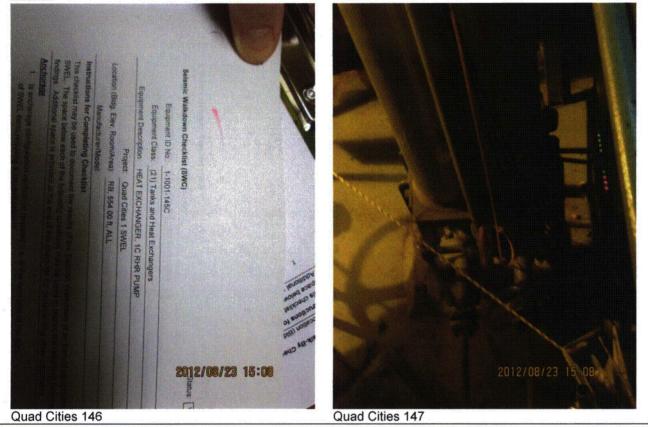
Quad Cities Generating Station Unit 1 12Q0108.40-R-001 Rev. 3 Correspondence No.: RS-12-169 Sheet 3 of 7

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No .:	1-1001-145C
Equipment Class:	(21) Tanks and Heat Exchangers
Equipment Description:	HEAT EXCHANGER, 1C RHR PUMP

Photos



Quad Cities Generating Station Unit 1 12Q0108.40-R-001 Rev. 3 Correspondence No.: RS-12-169 Sheet 4 of 7

Status: Y N U

Seismic Walkdown Checklist (SWC)

Seismic Walkdown Checklist (SWC)					
Equipment ID No .:	1-1001-145C				
Equipment Class:	(21) Tanks and Heat Exchangers				
Equipment Description:	HEAT EXCHANGER, 1C RHR PUMP				
Quad Cities 148	Quad Cities 149				

Quad Cities Generating Station Unit 1 12Q0108.40-R-001 Rev. 3 Correspondence No.: RS-12-169 Sheet 5 of 7

Status: Y N U

Equipment ID No .:	1-1001-145C
Equipment Class:	(21) Tanks and Heat Exchangers
Equipment Description:	HEAT EXCHANGER, 1C RHR PUMP





Quad Cities 151

Quad Cities 150

Quad Cities Generating Station Unit 1 12Q0108.40-R-001 Rev. 3 Correspondence No.: RS-12-169 Sheet 6 of 7

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 1-1001-145C

Equipment Class: (21) Tanks and Heat Exchangers

Equipment Description: HEAT EXCHANGER, 1C RHR PUMP



Quad Cities Generating Station Unit 1 12Q0108.40-R-001 Rev. 3 Correspondence No.: RS-12-169 Sheet 7 of 7

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 1-1001-145C

Equipment Class: (21) Tanks and Heat Exchangers

Equipment Description: HEAT EXCHANGER, 1C RHR PUMP



Quad Cities 154





Quad Cities 156

Quad Cities 155



Quad Cities 157

Quad Cities Generating Station Unit 1 12Q0108.40-R-001 Rev. 3 Correspondence No.: RS-12-169 Sheet 1 of 6

Status: Y N U

	Equipment ID No.:	1-1001-165B	
	Equipment Class:	(7) Fluid-Operated Valves	
E	Equipment Description:	VALVE, RELIEF - 1B RHR HX TUBE SIDE RV	
	Proje	ct: _Quad Cities 1 SWEL	
Locatio	n (Bldg, Elev, Room/Area): _RB, 580.00 ft, ALL	
	Manufacturer/Mode	əl:	
Instruc	tions for Completing C	necklist	
SWEL.	The space below each of	ocument the results of the Seismic Walkdown of an item of ec of the following questions may be used to record the results o vided at the end of this checklist for documenting other comm	f judgments and
Ancho	• •	······································	
1.	Is anchorage configurati of SWEL items requiring	on verification required (i.e., is the item one of the 50% 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.		uration consistent with plant documentation? (Note: es if the item is one of the 50% for which an anchorage is required.)	Not Applicable
			<u></u>
6.	Based on the above and potentially adverse seisi	horage evaluations, is the anchorage free of nic conditions?	Yes
.	····		
	tion Effects	a impact by pearby equipment or structures?	Vaa
1.	Are son largets free from	n impact by nearby equipment or structures?	Yes

Quad Cities Generating Station Unit 1 12Q0108.40-R-001 Rev. 3 Correspondence No.: RS-12-169 Sheet 2 of 6

Seism	nic Walkdow	n Checklist	(SWC)				Status:	YNU
	Equipm	ent ID No.:	1-1001-165B		· · ·			
			(7) Fluid-Operat	ed Valves				<u></u>
				- 1B RHR HX TUB	E SIDE RV			
8.				stems, ceiling tiles a		d		Yes
9.	-			ty to avoid damage				Yes
10.			ismic interaction e	evaluations, is equip ffects?	oment free of			Yes
Other	Adverse Co	nditions						
	Have you I	ooked for ar	d found no advers fety functions of th	se seismic conditior ne equipment?	ns that could			Yes
Comm ***** Seism		Team: D. C	arter & J. Griffith -	- 8/23/2012				
Evalua	ated by:	Dad Allat.	David Carter		C)ate:	10/4/2012	
		June D. App	対 James Griffith				10/4/2012	

Quad Cities Generating Station Unit 1 12Q0108.40-R-001 Rev. 3 Correspondence No.: RS-12-169 Sheet 3 of 6

Status: Y N U

Seismic Walkdown Checklist (SWC)

HX TUBE

SIDE RV

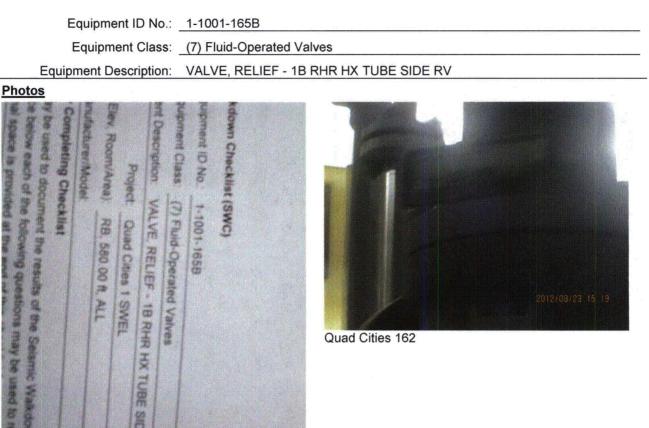
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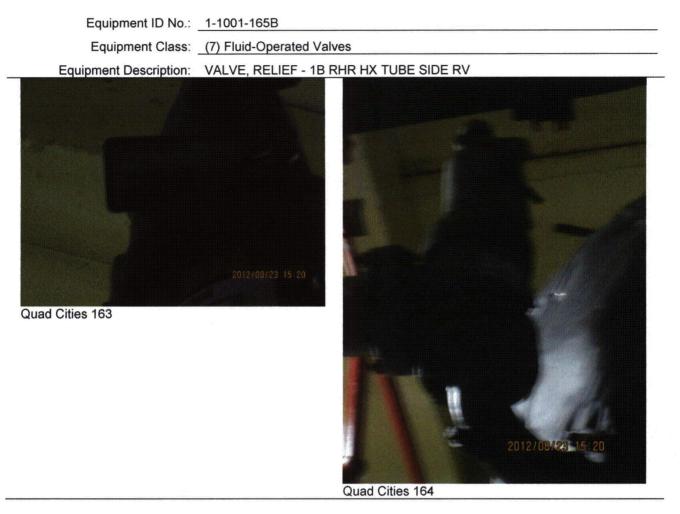
Quad Cities 161



Quad Cities 162

Quad Cities Generating Station Unit 1 12Q0108.40-R-001 Rev. 3 Correspondence No.: RS-12-169 Sheet 4 of 6

Status: Y N U



Quad Cities Generating Station Unit 1 12Q0108.40-R-001 Rev. 3 Correspondence No.: RS-12-169 Sheet 5 of 6

Status: Y N U

Equipment ID No.: _ Equipment Class: _	1-1001-165B (7) Fluid-Operated Valves
Equipment Description:	VALVE, RELIEF - 1B RHR HX TUBE SIDE RV
Quad Cities 165	Quad Cities 166

Quad Cities Generating Station Unit 1 12Q0108.40-R-001 Rev. 3 Correspondence No.: RS-12-169 Sheet 6 of 6

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No .:	1-1001-165B	. Biritiniitikaininiitikai
Equipment Class:	(7) Fluid-Operated Valves	
Equipment Description:	VALVE, RELIEF - 1B RHR HX TUBE SIDE RV	



Quad Cities 167