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

Seismic Walkdown Checklist (SWC)	Status: Y N U
Seisific Walkdown Checklist (SWC)	•
Equipment ID No.: 1-1001-166B	·
Equipment Class: (7) Fluid-Operated Valves	<u>.</u>
Equipment Description: VALVE, RELIEF - 1B RHR HX SHELL SIDE RV	
Project: Quad Cities 1 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 complete.	of judgments and
Anchorage	
 Is anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? 	Ņο
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 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)	Status: Y N U
Equipment ID No.: 1-1001-166B	
Equipment Class: (7) Fluid-Operated Valves	
Equipment Description: VALVE, RELIEF - 1B RHR HX SHELL SIDE RV	
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? Lead blanket chain in tension in contact with robust relief valve. Chain not expected to move due to tension. Judged to be acceptable.	Yes
Comments ***** Seismic Walkdown Team: D. Carter & J. Griffith - 8/23/2012	
Evaluated by: David Carter Date: Date:	10/4/2012

Correspondence No.: RS-12-169 Sheet 3 of 4

Status: Y N U

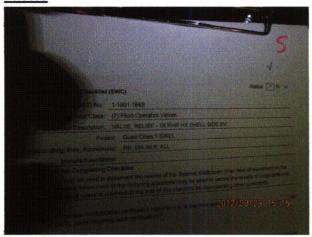
Seismic Walkdown Checklist (SWC)

Equipment ID No.: 1-1001-166B

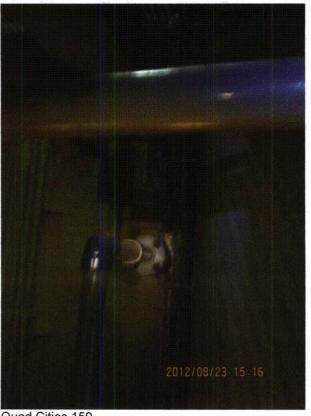
Equipment Class: _(7) Fluid-Operated Valves

Equipment Description: VALVE, RELIEF - 1B RHR HX SHELL SIDE RV

Photos



Quad Cities 158



Quad Cities 159

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 1-1001-166B

Equipment Class: (7) Fluid-Operated Valves

Equipment Description: VALVE, RELIEF - 1B RHR HX SHELL SIDE RV



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Correspondence No.: RS-12-169
Sheet 1 of 6

Status: Y N U Seismic Walkdown Checklist (SWC) Equipment ID No.: 1-1001-16B Equipment Class: (8) Motor-Operated and Solenoid-Operated Valves Equipment Description: VALVE, HX 3B BYPASS - 1B RHR HX BYP VLV Project: Quad Cities 1 SWEL Location (Bldg, Elev, Room/Area): RB, 554.00 ft, ALL Manufacturer/Model: **Instructions for Completing Checklist** This checklist may be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments. **Anchorage** Is anchorage configuration verification required (i.e., is the item one of the 50% 1. No of SWEL items requiring such verification)? 2. Is the anchorage free of bent, broken, missing or loose hardware? Not Applicable Not Applicable 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? 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.) Yes Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? 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 6

Status: Y N U Seismic Walkdown Checklist (SWC) Equipment ID No.: 1-1001-16B Equipment Class: (8) Motor-Operated and Solenoid-Operated Valves Equipment Description: VALVE, HX 3B BYPASS - 1B RHR HX BYP VLV 8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and Yes masonry block walls not likely to collapse onto the equipment? 9. Do attached lines have adequate flexibility to avoid damage? Yes 10. Based on the above seismic interaction evaluations, is equipment free of Yes potentially adverse seismic interaction effects? **Other Adverse Conditions** Yes Have you looked for and found no adverse seismic conditions that could adversely affect the safety functions of the equipment? **Comments** Seismic Walkdown Team: D. Carter & J. Griffith - 8/23/2012 Dallet David Carter Evaluated by: Date: 10/4/2012 James Griffith 10/4/2012

Sheet 3 of 6

Status: Y N U

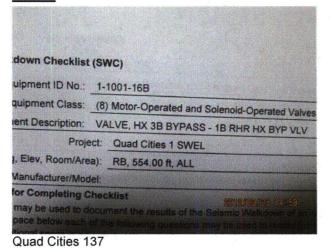
Seismic Walkdown Checklist (SWC)

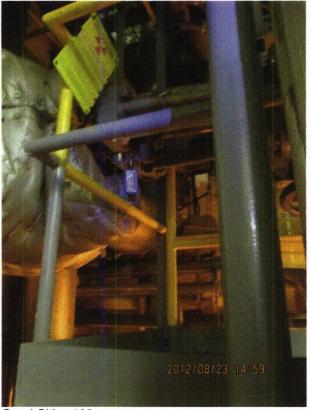
Equipment ID No.: 1-1001-16B

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

Equipment Description: VALVE, HX 3B BYPASS - 1B RHR HX BYP VLV

Photos





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Seismic Walkdown Checklist (SWC)

Equipment ID No.: 1-1001-16B

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

Equipment Description: VALVE, HX 3B BYPASS - 1B RHR HX BYP VLV



Sheet 5 of 6

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 1-1001-16B

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

Equipment Description: VALVE, HX 3B BYPASS - 1B RHR HX BYP VLV



Quad Cities 141



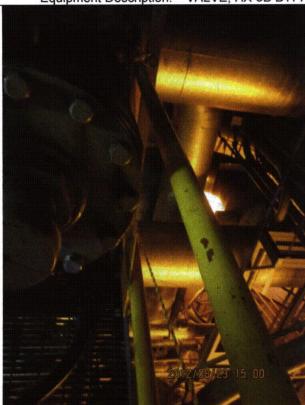
Quad Cities 142

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 1-1001-16B

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

Equipment Description: VALVE, HX 3B BYPASS - 1B RHR HX BYP VLV



2012/08/23 15:00

Quad Cities 144



Quad Cities 145

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

Correspondence No.: RS-12-169 Sheet 1 of 4

Status: Y N U Seismic Walkdown Checklist (SWC) Equipment ID No.: 1-1001-22A Equipment Class: (7) Fluid-Operated Valves Equipment Description: VALVE, RELIEF - 1A LPCI LOOP RV Project: Quad Cities 1 SWEL Location (Bldg, Elev, Room/Area): RB, 554.00 ft, ALL Manufacturer/Model: Instructions for Completing Checklist This checklist may be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments. **Anchorage** 1. 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 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? **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 4

Seismic Walkdown Checklist (SWC)	Status: Y N U
Equipment ID No.: 1-1001-22A	
Equipment Class: (7) Fluid-Operated Valves	
Equipment Description: VALVE, RELIEF - 1A LPCI LOOP RV	
Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	Yes
Overhead light fixtures judged to be acceptable.	
Do attached lines have adequate flexibility to avoid damage?	Yes
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	Yes
Other Adverse Conditions 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 - 8/24/2012	
Evaluated by: David Carter Date:	10/16/2012
Evaluated by: David Carter Date: James Griffith	10/16/2012

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 1-1001-22A

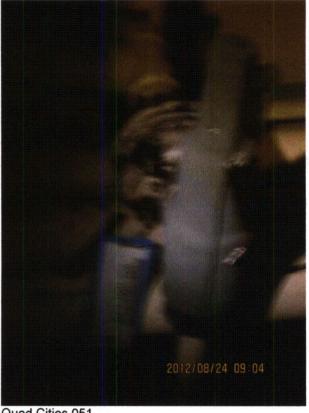
Equipment Class: (7) Fluid-Operated Valves

Equipment Description: VALVE, RELIEF - 1A LPCI LOOP RV

Photos



Quad Cities 049



Quad Cities 051

Sheet 4 of 4

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 1-1001-22A

Equipment Class: _(7) Fluid-Operated Valves

Equipment Description: VALVE, RELIEF - 1A LPCI LOOP RV



2012/08/24 09 06

Quad Cities 061

Quad Cities 059

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

Seismic Walkdown Checklist (SWC)	Status: Y N U
Equipment ID No.: 1-1001-29A	
Equipment Class: (8) Motor-Operated and Solenoid-Operated Valves	
VALVE, LOOP A INBRD - 1A LPCI LOOP DWNSTRM VALVE Equipment Description: OPERATED	/E GATE MOTOR
Project: Quad Cities 1 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 expectation. 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	
 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
	4

Correspondence No.: RS-12-169

Sheet 2 of 4

Status: Y N U Seismic Walkdown Checklist (SWC) Equipment ID No.: 1-1001-29A Equipment Class: (8) Motor-Operated and Solenoid-Operated Valves VALVE, LOOP A INBRD - 1A LPCI LOOP DWNSTRM VALVE GATE MOTOR Equipment Description: OPERATED **Interaction Effects** 7. Are soft targets free from impact by nearby equipment or structures? Yes 8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and Yes masonry block walls not likely to collapse onto the equipment? Overhead light fixtures judged to be acceptable. Do attached lines have adequate flexibility to avoid damage? Yes 10. Based on the above seismic interaction evaluations, is equipment free of Yes potentially adverse seismic interaction effects? **Other Adverse Conditions** Yes Have you looked for and found no adverse seismic conditions that could adversely affect the safety functions of the equipment? **Comments** Seismic Walkdown Team: D. Carter & J. Griffith - 8/24/2012 Wat David Carter Evaluated by: Date: 10/16/2012 10/16/2012

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 1-1001-29A

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

VALVE, LOOP A INBRD - 1A LPCI LOOP DWNSTRM VALVE GATE MOTOR

Equipment Description: OPERATED

Photos



Quad Cities 073



Quad Cities 075



Quad Cities 074



Quad Cities 076

Sheet 4 of 4

Status: Y N U

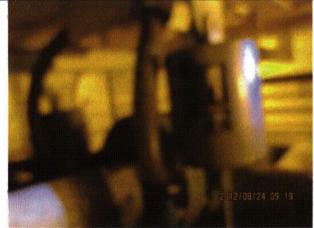
Seismic Walkdown Checklist (SWC)

Equipment ID No.: 1-1001-29A

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

VÁLVE, LOOP A INBRD - 1A LPCI LOOP DWNSTRM VALVE GATE MOTOR

Equipment Description: OPERATED



Quad Cities 078



Quad Cities 079

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

Seismic Walkdown Checklist (SWC)	Status: Y N U
Equipment ID No.: 1-1001-34A	
Equipment Class: (8) Motor-Operated and Solenoid-Operated Valves	
Equipment Description: VALVE, TORUS CLG - 1A TORUS SPRAY/CLG SV	
Project: Quad Cities 1 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 equ SWEL. The space below each of the following questions may be used to record the results of findings. Additional space is provided at the end of this checklist for documenting other common	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
5. Is the anchorage free of corrosion that is more than find surface oxidation:	Not Applicable
	•
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Not Applicable
	•
	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.) 	Not Applicable
configuration vernication is required.)	
	•
6 Paged on the chave anchorage avaluations is the anchorage free of	Va-
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)	Status: Y N U
Equipment ID No.: 1-1001-34A	
Equipment Class: (8) Motor-Operated and Solenoid-Operated Valves	
Equipment Description: VALVE, TORUS CLG - 1A TORUS SPRAY/CLG SV	
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	
Have you looked for and found no adverse seismic conditions that could adversely affect the safety functions of the equipment? Duct hanger rod contacts valve yoke. Judged to be acceptable.	Yes
Comments *****	
Seismic Walkdown Team: D. Carter & J. Griffith - 8/24/2012	
Evaluated by: David Carter Date: 1	10/4/2012
James Griffith 1	10/4/2012

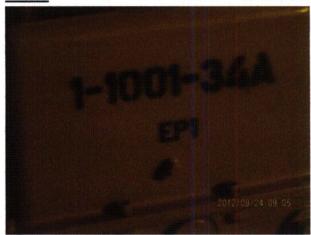
Seismic Walkdown Checklist (SWC)

Equipment ID No.: 1-1001-34A

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

Equipment Description: VALVE, TORUS CLG - 1A TORUS SPRAY/CLG SV

Photos



Quad Cities 054



Quad Cities 056



Quad Cities 055



Quad Cities 057

Sheet 4 of 4

Status: Y N U

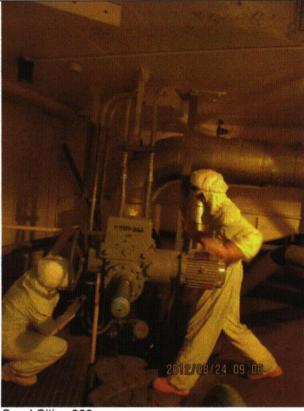
Seismic Walkdown Checklist (SWC)

Equipment ID No.: 1-1001-34A

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

Equipment Description: VALVE, TORUS CLG - 1A TORUS SPRAY/CLG SV





Quad Cities 060

Correspondence No.: RS-12-169 Sheet 1 of 5

Status: Y N U Seismic Walkdown Checklist (SWC) Equipment ID No.: 1-1001-65A Equipment Class: (5) Horizontal Pumps Equipment Description: 1A RHR SERVICE WATER MAIN PUMP Project: Quad Cities 1 SWEL Location (Bldg, Elev, Room/Area): TB, 547.00 ft, ALL Manufacturer/Model: Instructions for Completing Checklist This checklist may be used to document the results of the Seismic Walkdown of an item of equipment 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% Yes of SWEL items requiring such verification)? Is the anchorage free of bent, broken, missing or loose hardware? Yes Is the anchorage free of corrosion that is more than mild surface oxidation? Yes Minor corrosion on skid judged to be acceptable. Is the anchorage free of visible cracks in the concrete near the anchors? Yes Minor spalling on grout pad judged to be acceptable. 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.) Yes Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? 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

Status: Y N U Seismic Walkdown Checklist (SWC) Equipment ID No.: 1-1001-65A Equipment Class: (5) Horizontal Pumps Equipment Description: 1A RHR SERVICE WATER MAIN PUMP 8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and Yes masonry block walls not likely to collapse onto the equipment? Overhead light fixtures judged to be acceptable. 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 Have you looked for and found no adverse seismic conditions that could Yes adversely affect the safety functions of the equipment? Comments SEWS Anchorage Notes: Residual Heat Removal system Water Pump anchored by 10 - 3/4" (5 per side) cast-in-place anchors. Seismic Walkdown Team: D. Carter & J. Griffith - 8/22/2012 David Carter Date: 10/4/2012 Evaluated by: James Griffith 10/4/2012

Sheet 3 of 5

Status: Y N U

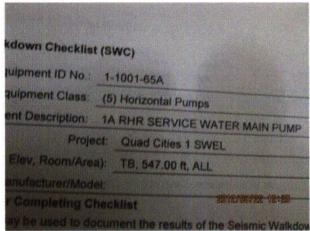
Seismic Walkdown Checklist (SWC)

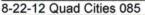
Equipment ID No.: 1-1001-65A

Equipment Class: (5) Horizontal Pumps

Equipment Description: 1A RHR SERVICE WATER MAIN PUMP

Photos







8-22-12 Quad Cities 087



8-22-12 Quad Cities 086



8-22-12 Quad Cities 088

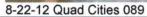
Seismic Walkdown Checklist (SWC)

Equipment ID No.: 1-1001-65A

Equipment Class: _(5) Horizontal Pumps

Equipment Description: 1A RHR SERVICE WATER MAIN PUMP







8-22-12 Quad Cities 090

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 1-1001-65A

Equipment Class: (5) Horizontal Pumps

Equipment Description: 1A RHR SERVICE WATER MAIN PUMP



8-22-12 Quad Cities 091

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

Status: Y Seismic Walkdown Checklist (SWC)]N U
Equipment ID No.: 1-1002C	
Equipment Class: (6) Vertical Pumps	
Equipment Description: PUMP, 1C - RHR PUMP	
Project: Quad Cities 1 SWEL	
Location (Bldg, Elev, Room/Area): RB, 554.00 ft, ALL	
Manufacturer/Model:	
Instructions for Completing Checklist	
This checklist may be used to document the results of the Seismic Walkdown of an item of equipment on SWEL. The space below each of the following questions may be used to record the results of judgments findings. Additional space is provided at the end of this checklist for documenting other comments.	
<u>Anchorage</u>	
 Is anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? 	Yes
,	
2. Is the anchorage free of bent, broken, missing or loose hardware?	Yes
	V
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
Minor spalling on grout pad judged to be acceptable.	
5. 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	103
configuration verification is required.)	
	Vaa
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	Yes

Seismic Walkdow	wn Checklist (SWC)	Status: Y N U
	ment ID No.: 1-1002C	
	oment Class: (6) Vertical Pumps	
Interaction Effect	Description: PUMP, 1C - RHR PUMP	
	argets free from impact by nearby equipment or structures?	Yes
	ass has adequate clearance.	
0 0	·	
	nead equipment, distribution systems, ceiling tiles and lighting, and block walls not likely to collapse onto the equipment?	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	
	looked for and found no adverse seismic conditions that could affect the safety functions of the equipment?	Yes
,		
Comments		
SEWS Anchorage	Notes:	
The pump is ancho	nored with four 1" Cast-in-Place bolts.	
***** Seismic Walkdowr	n Team: D. Carter & J. Griffith - 8/23/2012	
Evaluated by:	So Add Cat. David Carter Date: 10	0/4/2012
	Date: 10	0/4/2012

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

Status:	Y	N	U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 1-1002C

Equipment Class: (6) Vertical Pumps

Equipment Description: PUMP, 1C - RHR PUMP

Seismic Walkdown Checklist (SWC) Equipment ID No. 1-1002C Equipment Description PUMP, 1C-RHR PUMP Project Quad Cities 1 SWEL Manufacturer/Model: Instructions for Completing Checklist SWEL The space below each of the following questions may be used to document the results of the Seismic Walkdown of an item of equipment anchorage 1. Is another.

Quad Cities 210

Seismic Walkdown Checklist (SWC)	Status: Y N U
Equipment ID No.: 1-1003B	
Equipment Class: (21) Tanks and Heat Exchangers	
Equipment Description: HX, 1B RHR	
Project: Quad Cities 1 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
<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
Is the anchorage free of visible cracks in the concrete near the anchors? Attached to structural steel.	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.) 	Yes
Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	Yes

Seismic Walkdow	rn Checklist (SWC)	Status: Y N U
Equipm	nent ID No.: 1-1003B	
• •	ment Class: (21) Tanks and Heat Exchangers	
	Description: HX, 1B RHR	
Interaction Effect		
7. Are soft tar	rgets free from impact by nearby equipment or structures?	Yes
Heat excl concerns.	hanger is covered by well-restrained lead shielding. Not soft target	
	ead equipment, distribution systems, ceiling tiles and lighting, and lock walls not likely to collapse onto the equipment?	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	onditions	
11. Have you l	looked for and found no adverse seismic conditions that could affect the safety functions of the equipment?	Yes
Comments SEWS Anchorage	Notes:	
	nung on four feet at quadrant points near the top of the HX. Each foot uctural steel platform and the platform is at Elev. 580'.	is anchored by approx.
Seismic Walkdown	Team: D. Carter & J. Griffith - 8/23/2012	
Evaluated by:	David Carter David Carter Date:	10/4/2012
	Date: James Griffith	10/4/2012

Sheet 3 of 4

Status: Y N U

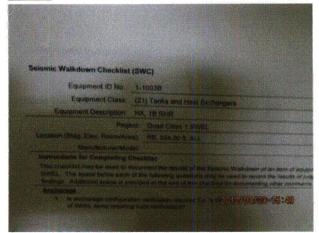
Seismic Walkdown Checklist (SWC)

Equipment ID No.: 1-1003B

Equipment Class: (21) Tanks and Heat Exchangers

Equipment Description: HX, 1B RHR

Photos



Quad Cities 184



Quad Cities 185

Sheet 4 of 4

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 1-1003B

Equipment Class: (21) Tanks and Heat Exchangers

Equipment Description: HX, 1B RHR



Quad Cities 186

Seismic Walkdown Checklist (SWC)	Status: Y N U
Equipment ID No.: 1-1601-21	
Equipment Class: (7) Fluid-Operated Valves	
Equipment Description: VALVE, BUTTERFLY ISO, FC - SOLENOID U1 B To	ORUS VACUUM BKR
Project: Quad Cities 1 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 it SWEL. The space below each of the following questions may be used to record the findings. Additional space is provided at the end of this checklist for documenting other.	results 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 ge
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	Yes
	• **

Correspondence No.: RS-12-169

Sheet 2 of 4

Status: Y N U Seismic Walkdown Checklist (SWC) Equipment ID No.: 1-1601-21 Equipment Class: (7) Fluid-Operated Valves Equipment Description: VALVE, BUTTERFLY ISO, FC - SOLENOID U1 B TORUS VACUUM BKR **Interaction Effects** Yes 7. Are soft targets free from impact by nearby equipment or structures? Air line for valve has 1/8-inch gap to plate on same valve that supports electrical connection box. 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? Overhead light fixture judged to be acceptable. Do attached lines have adequate flexibility to avoid damage? Yes 10. Based on the above seismic interaction evaluations, is equipment free of Yes potentially adverse seismic interaction effects? **Other Adverse Conditions** Have you looked for and found no adverse seismic conditions that could Yes adversely affect the safety functions of the equipment? Air operator has a 3/4-inch gap to ceiling. Judged to be acceptable. Comments Seismic Walkdown Team: D. Carter & J. Griffith - 8/24/2012 ₩@±. David Carter Evaluated by: Date: 10/4/2012 James Griffith 10/4/2012

Sheet 3 of 4

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 1-1601-21

Equipment Class: (7) Fluid-Operated Valves

Equipment Description: VALVE, BUTTERFLY ISO, FC - SOLENOID U1 B TORUS VACUUM BKR

Photos



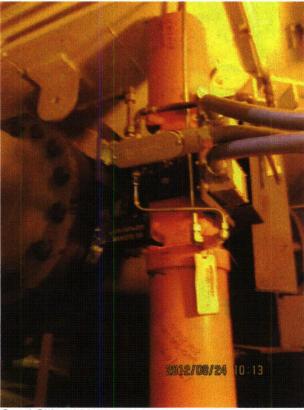
Quad Cities 103



Quad Cities 104



Quad Cities 105



Quad Cities 106

Sheet 4 of 4

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 1-1601-21

Equipment Class: (7) Fluid-Operated Valves

Equipment Description: VALVE, BUTTERFLY ISO, FC - SOLENOID U1 B TORUS VACUUM BKR



Quad Cities 107



Quad Cities 109



Quad Cities 108

Status: Y N U Seismic Walkdown Checklist (SWC) Equipment ID No.: 1-1601-23-AO Equipment Class: (7) Fluid-Operated Valves Equipment Description: VLV, 18", +3', DRYWELL VENT - U-1 DW VENT VLV Project: Quad Cities 1 SWEL Location (Bldg, Elev, Room/Area): RB, 647.00 ft, ALL Manufacturer/Model: **Instructions for Completing Checklist** This checklist may be used to document the results of the Seismic Walkdown of an item of 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)? 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 5. Is the anchorage configuration consistent with plant documentation? (Note: Not Applicable This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) Based on the above anchorage evaluations, is the anchorage free of Yes potentially adverse seismic conditions? Interaction Effects Are soft targets free from impact by nearby equipment or structures? Yes

Seismic Walkdow	vn Checklist (SWC)	Status: Y N U
• •	nent ID No.: 1-1601-23-AO	
	ment Class: (7) Fluid-Operated Valves	
Equipment I	Description: VLV, 18", +3', DRYWELL VENT - U-1 DW VENT VLV	
	•	
masonry b	ead equipment, distribution systems, ceiling tiles and lighting, and block walls not likely to collapse onto the equipment? d 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 adverse seismic interaction effects?	Yes
Other Adverse Co	onditions	
11. Have you l	looked for and found no adverse seismic conditions that could affect the safety functions of the equipment?	Yes
Comments		
***** Seismic Walkdown	n Team: D. Carter & J. Griffith - 8/21/2012	
Evaluated by:	Date: 1	0/4/2012
	James Griffith 1	0/4/2012

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 1-1601-23-AO

Equipment Class: (7) Fluid-Operated Valves

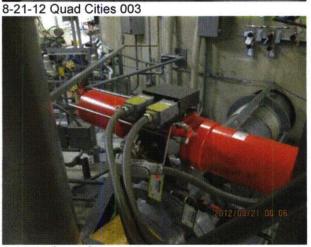
Equipment Description: VLV, 18", +3', DRYWELL VENT - U-1 DW VENT VLV

Photos

mic Walkdown Checklist	
Equipment ID No.	
	(7) Fluid-Operated Valves
	VLV, 18", +3", DRYWELL VENT - U-1 DW VENT VLV
Proje	ect: Quad Cities 1 SWEL
tion (Bldg, Elev, Room/Are Manufacturer/Mod	
L. The space below each	Checklist Iocument the results of the Seismic Walkdown of an item of of the following questions may be used to record the result ovided at the end of this checklist for documenting other or a second secon
orage	tion verification required (i.e. is the item one of the 50%







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)

Equipment ID No.: 1-1601-23-AO

Equipment Class: _(7) Fluid-Operated Valves

Equipment Description: VLV, 18", +3', DRYWELL VENT - U-1 DW VENT VLV



8-21-12 Quad Cities 006

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.: 1-1601-24-AO	
Equipment Class: (7) Fluid-Operated Valves VLV, 18", +5', U-1 CONTAINMENT RX BLDG EXH - A	ASSY - U-1 CNMT RX
Equipment Description: BLDG EXH VENT VLV	
Project: Quad Cities 1 SWEL	
Location (Bldg, Elev, Room/Area): RB, 647.00 ft, ALL	
Manufacturer/Model:	
Instructions for Completing Checklist This checklist may be used to document the results of the Seismic Walkdown of an iter SWEL. The space below each of the following questions may be used to record the refindings. Additional space is provided at the end of this checklist for documenting other	sults of judgments and
Anchorage	
 Is anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? 	s 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

Seism	ic Walkdown Checklis	t (SWC)		Status: Y N U
	Equipment ID No.:			
		(7) Fluid-Operated Valves VLV, 18", +5', U-1 CONTAINMENT RX BLDG EX	XH - ASSY	- U-1 CNMT RX
	Equipment Description:			
<u>Interac</u>	ction Effects			
7.	Are soft targets free fr	om impact by nearby equipment or structures?		Yes
	Flexible conduit in co acceptable.	ontact with valve supply air tubing. Judged to be		,
8.	masonry block walls n	ent, distribution systems, ceiling tiles and lighting, a ot likely to collapse onto the equipment? es judged to be acceptable.	nd	Yes
9.	Do attached lines hav	e adequate flexibility to avoid damage?		Yes
10.		eismic interaction evaluations, is equipment free of ismic interaction effects?		Yes
Other	Adverse Conditions			
	Have you looked for a	nd found no adverse seismic conditions that could afety functions of the equipment?		Yes
Comm	<u>ents</u>			
***** Seismi	c Walkdown Team: D. 0	Carter & J. Griffith - 8/21/2012		
Evalua	ted by: Daniet	David Carter	Date: <u>10/</u>	4/2012
	Jus D. Af	James Griffith	_10/	4/2012

Sheet 3 of 5

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 1-1601-24-AO

Equipment Class: (7) Fluid-Operated Valves

VLV, 18", +5', U-1 CONTAINMENT RX BLDG EXH - ASSY - U-1 CNMT RX

Equipment Description: BLDG EXH VENT VLV

Photos

Checklist	(SWC) Stat
nt ID No.:	1-1601-24-AO
int Class:	(7) Fluid-Operated Valves
scription:	VLV, 18", +5", U-1 CONTAINMENT RX BLDG EXH - ASSY - U-1 BLDG EXH VENT VLV
Proje	ct: Quad Cities 1 SWEL
Room/Are	a): RB, 647.00 ft, ALL
cturer/Mod	el.
	hecklist
pleting C	

8-21-12 Quad Cities 002



8-21-12 Quad Cities 008



8-21-12 Quad Cities 007



8-21-12 Quad Cities 009

Sheet 4 of 5

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 1-1601-24-AO

Equipment Class: _(7) Fluid-Operated Valves VLV, 18", +5', U-1 CONTAINMENT RX BLDG EXH - ASSY - U-1 CNMT RX

BLDG EXH VENT VLV Equipment Description:



8-21-12 Quad Cities 010





8-21-12 Quad Cities 012



8-21-12 Quad Cities 013

Sheet 5 of 5

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 1-1601-24-AO

Equipment Class: _(7) Fluid-Operated Valves VLV, 18", +5', U-1 CONTAINMENT RX BLDG EXH - ASSY - U-1 CNMT RX

BLDG EXH VENT VLV Equipment Description:



8-21-12 Quad Cities 014



8-21-12 Quad Cities 015



8-21-12 Quad Cities 016

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.: 1-1601-57-MO Equipment Class: (8) Motor-Operated and Solenoid-Operated Valves VLV, 1", +1', N2 MAKEUP TO CONTAINMENT - U-1 N2 MU FROM TO CNMT Equipment Description: DOWNSTREAM SV 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)? 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?

Colombia Mallindari	Chaaldiat (SWC)			Status: [Y N U
Seismic Walkdow	n Checklist (SWC)				
Equipn	nent ID No.: _	1-1601-57-MO				
. Equip	ment Class: _	(8) Motor-Operated and Solo	enoid-Operated Valv	es U-1 N2	MU FROM T	O CNMT
Equipment		DOWNSTREAM SV	· · · · · · · · · · · · · · · · · · ·	0 1 112		· · · · · · · · · · · · · · · · · · ·
Interaction Effect	<u>s</u>					
7. Are soft ta	rgets free fron	n impact by nearby equipmen	nt or structures?			Yes
Q Ara ayarba	and aguinman	t diatribution avatama sailin	a tilog and lighting a	nd		Yes
		t, distribution systems, ceilin likely to collapse onto the ed		iiu		i es
	,	•				•
9. Do attache	ed lines have a	adequate flexibility to avoid d	lamage?			Yes
	•					
			,	•		•
40 D	16 1					V
		smic interaction evaluations, nic interaction effects?	is equipment free of			Yes
	•			•		¥.
Other Adverse Co	onditions					
		I found no adverse seismic o				Yes
•						
	.,					
Comments						
****						*
Seismic Walkdowr	n Team: D. Ca	rter & J. Griffith - 8/22/2012				
See South CRD B	ank area walk	-by for further notes.				
Evaluated by:	Dallet.	David Carter		Date:	10/4/2012	
	Jun D. Apport] James Griffith			10/4/2012	

Correspondence No.: RS-12-169

Sheet 3 of 5

Status: Y N U

Seismic Walkdown Checklist (SWC)

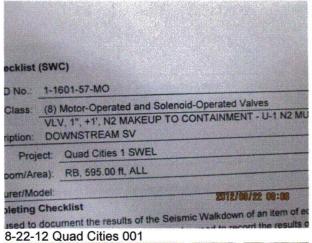
Equipment ID No.: 1-1601-57-MO

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

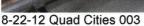
VLV, 1", +1', N2 MAKEUP TO CONTAINMENT - U-1 N2 MU FROM TO CNMT

Equipment Description: DOWNSTREAM SV

Photos









8-22-12 Quad Cities 002



8-22-12 Quad Cities 004

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 1-1601-57-MO

Equipment Class: (8) Motor-Operated and Solenoid-Operated Valves
VLV, 1", +1', N2 MAKEUP TO CONTAINMENT - U-1 N2 MU FROM TO CNMT
DOWNSTREAM SV

Equipment Description:







8-22-12 Quad Cities 007



8-22-12 Quad Cities 008

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 1-1601-57-MO

Equipment Class: (8) Motor-Operated and Solenoid-Operated Valves
VLV, 1", +1', N2 MAKEUP TO CONTAINMENT - U-1 N2 MU FROM TO CNMT

DOWNSTREAM SV Equipment Description:



8-22-12 Quad Cities 009

8-22-12 Quad Cities 010

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

Seismic Walkdown Checklist	(swc)	Status: Y N U
Equipment ID No.:	1-2001-3	
Equipment Class:	(7) Fluid-Operated Valves	
Equipment Description:	VALVE, PNUEMATIC - U-1 DW FLR DRN SUMP PMP UP VLV	STREAM DSCH
	ct: Quad Cities 1 SWEL	
Location (Bldg, Elev, Room/Area		
Manufacturer/Mod	el:	
Instructions for Completing C	hecklist	
SWEL. The space below each	ocument the results of the Seismic Walkdown of an item of of of the following questions may be used to record the results ovided at the end of this checklist for documenting other con	of judgments and
<u>Anchorage</u>		
 Is anchorage configurat of SWEL items requiring 	ion verification required (i.e., is the item one of the 50% g such verification)?	No
2. Is the anchorage free of	f bent, broken, missing or loose hardware?	Not Applicable
3. Is the anchorage free of	f corrosion that is more than mild surface oxidation?	Not Applicable
4. Is the anchorage free of	f visible cracks in the concrete near the anchors?	Not Applicable
	uration consistent with plant documentation? (Note: es if the item is one of the 50% for which an anchorage n is required.)	Not Applicable
Based on the above and potentially adverse seis	chorage evaluations, is the anchorage free of mic conditions?	Yes

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

Sojomio Walkdow	on Charling (CIMC)	Status: Y N U
	n Checklist (SWC)	
	nent ID No.: 1-2001-3	
Equipn	ment Class: (7) Fluid-Operated Valves VALVE, PNUEMATIC - U-1 DW FLR DRN SUMP PMP	LIDSTDEAM DOCK
Equipment D	Description: VLV	UPSTREAM DSCH
Interaction Effects		
Are soft tar	rgets free from impact by nearby equipment or structures?	Yes
	ead equipment, distribution systems, ceiling tiles and lighting, and lock walls not likely to collapse onto the equipment?	Yes
9. Do attache	d lines have adequate flexibility to avoid damage?	Yes
	he above seismic interaction evaluations, is equipment free of adverse seismic interaction effects?	Yes
	onditions ooked for and found no adverse seismic conditions that could affect the safety functions of the equipment?	Yes
Comments	· · · · · · · · · · · · · · · · · · ·	

Seismic Walkdown	Team: D. Carter & J. Griffith - 8/24/2012	
Evaluated by:	Date:	10/4/2012
	James Griffith	10/4/2012

Sheet 3 of 4

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 1-2001-3

Equipment Class: (7) Fluid-Operated Valves

VALVE, PNUEMATIC - U-1 DW FLR DRN SUMP PMP UPSTREAM DSCH

Equipment Description:

Photos



Quad Cities 001



Quad Cities 003



Quad Cities 002



Quad Cities 005

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)

Equipment ID No.: 1-2001-3

Equipment Class: (7) Fluid-Operated Valves

VÁLVE, PNUEMATIC - U-1 DW FLR DRN SUMP PMP UPSTREAM DSCH

Equipment Description: VLV



Quad Cities 006

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

Seismic Walkdown Checklist (SWC)	Status: Y N U
Equipment ID No.: 1-2301-14-MO Equipment Class: (8) Motor-Operated and Solenoid-Operated Valves	• •
Equipment Description: U-1 HPCI PMP MIN FLOW VLV	
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	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
4. To the anomorage free of visible draws in the consider freal the anomora	140t7 (ppiloabic
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?	
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)	Status: Y N U		
Equipment ID No.: 1-2301-14-MO			
Equipment Class: (8) Motor-Operated and Solenoid-Operated Valves			
Equipment Description: U-1 HPCI PMP MIN FLOW VLV			
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; D. Carter & J. Griffith - 8/23/2012			
1 dated	/4/2012 /4/2012		

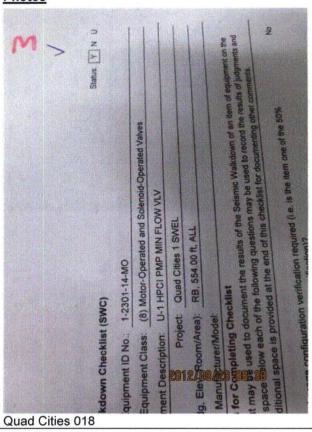
Seismic Walkdown Checklist (SWC)

Equipment ID No.: 1-2301-14-MO

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

Equipment Description: U-1 HPCI PMP MIN FLOW VLV

Photos





Quad Cities 019

Sheet 4 of 4

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 1-2301-14-MO

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

Equipment Description: U-1 HPCI PMP MIN FLOW VLV





Quad Cities 021





Quad Cities 023

Status: Y N Seismic Walkdown Checklist (SWC)	U
Equipment ID No.: 1-2301-29-AO	
Equipment Class: (7) Fluid-Operated Valves	
Equipment Description: U-1 HPCI STM LINE TO CONDENSER UPSTREAM DRN VLV	
Project: Quad Cities 1 SWEL	
Location (Bldg, Elev, Room/Area): RB, 554.00 ft, ALL	
Manufacturer/Model:	
Instructions for Completing Checklist	
This checklist may be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.	l
Anchorage	
 Is anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? 	No
Is the anchorage free of bent, broken, missing or loose hardware? Not Applicate	ble
Is the anchorage free of corrosion that is more than mild surface oxidation? Not Applicate	ble
Is the anchorage free of visible cracks in the concrete near the anchors? Not Applicate	ble
 Is the anchorage configuration consistent with plant documentation? (Note: Not Applical This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) 	ble
Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	'es

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

Seismic Walkdown Checklist (SWC)	Status: Y N U
Equipment ID No.: 1-2301-29-AO	
Equipment Class: (7) Fluid-Operated Valves	
	M DDN VI V
Equipment Description: U-1 HPCI STM LINE TO CONDENSER UPSTREAL Interaction Effects	VI DRIN VLV
7. Are soft targets free from impact by nearby equipment or structures?	Yes
Support for valve is braced in each orthogonal direction. Valve operator in contact with separate conduit support. Conduit support can only move away from valve operator. Judged to be acceptable.	
Gauge within 3/16-inch of separate conduit support. Air line for gauge attach to valve nearby and thus will not move appreciably to cause interaction. Judged to be acceptable.	ned
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	Yes
9. Do attached lines have adequate flexibility to avoid damage?	Yes
Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	Yes
Other Adverse Conditions	·
Have you looked for and found no adverse seismic conditions that could adversely affect the safety functions of the equipment?	Yes
Comments	
<u>Comments</u>	
Seismic Walkdown Team: D. Carter & J. Griffith - 8/23/2012	
	ate: 10/4/2012
James Griffith	10/4/2012

Sheet 3 of 6

Status: Y N U

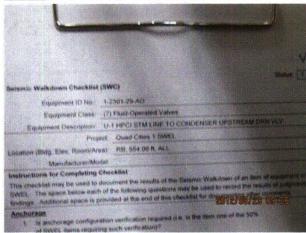
Seismic Walkdown Checklist (SWC)

Equipment ID No.: 1-2301-29-AO

Equipment Class: (7) Fluid-Operated Valves

Equipment Description: U-1 HPCI STM LINE TO CONDENSER UPSTREAM DRN VLV

Photos



Quad Cities 058



Quad Cities 060



Quad Cities 059



Quad Cities 061

Sheet 4 of 6

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 1-2301-29-AO

Equipment Class: (7) Fluid-Operated Valves

Equipment Description: U-1 HPCI STM LINE TO CONDENSER UPSTREAM DRN VLV







Quad Cities 063

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 1-2301-29-AO

Equipment Class: (7) Fluid-Operated Valves

Equipment Description: U-1 HPCI STM LINE TO CONDENSER UPSTREAM DRN VLV



Quad Cities 064



Quad Cities 066



Quad Cities 065



Quad Cities 067

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 1-2301-29-AO

Equipment Class: _(7) Fluid-Operated Valves

Equipment Description: U-1 HPCI STM LINE TO CONDENSER UPSTREAM DRN VLV





Quad Cities 069

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

Seismic Walkdown Checklist (SWC)			
Equipment ID No.: 1-2	2301-31-AO		
Equipment Class: (7)	Fluid-Operated Valves		
	1 HPCI STM LINE DRN LINE STM TRAP BYP VLV		
Project: Quad Cities 1 SWEL			
Location (Bldg, Elev, Room/Area):	RB, 554.00 ft, ALL		
Manufacturer/Model:			
Instructions for Completing Checklist			
This checklist may be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.			
<u>Anchorage</u>			
 Is anchorage configuration of SWEL items requiring su 	verification required (i.e., is the item one of the 50% och verification)?	No	
2. Is the anchorage free of be	nt, broken, missing or loose hardware?	Not Applicable	
3. Is the anchorage free of co	rrosion that is more than mild surface oxidation?	Not Applicable	
4. Is the anchorage free of vis	ible cracks in the concrete near the anchors?	Not Applicable	
	tion consistent with plant documentation? (Note: f the item is one of the 50% for which an anchorage required.)	Not Applicable	
Based on the above anchor potentially adverse seismic	rage evaluations, is the anchorage free of conditions?	Yes	

Seismic Walkdown Checklist (SWC)		Status: Y N U	
Equipr	ment ID No.: 1-2301-31-AO		
	oment Class: (7) Fluid-Operated Valves		
	Description: U-1 HPCI STM LINE DRN LINE STM TRAP BYP VLV		
Interaction Effect			
7. Are soft ta	argets free from impact by nearby equipment or structures?	Yes	
Tube res acceptable	sts on pipe support tube near Valve 1-4799-1217 judged to be le.		
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.			
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 Conditions			
11. Have you looked for and found no adverse seismic conditions that could adversely affect the safety functions of the equipment?			
Comments *****	·		
Seismic Walkdown Team: D. Carter & J. Griffith - 8/22/2012			
Evaluated by:	David Carter Date:	10/4/2012	
	James Griffith	10/4/2012	

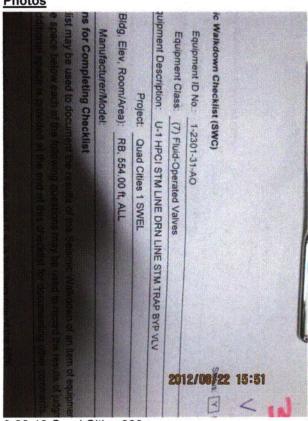
Seismic Walkdown Checklist (SWC)

Equipment ID No.: 1-2301-31-AO

Equipment Class: (7) Fluid-Operated Valves

Equipment Description: U-1 HPCI STM LINE DRN LINE STM TRAP BYP VLV

Photos





8-22-12 Quad Cities 224

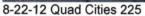
Seismic Walkdown Checklist (SWC)

Equipment ID No.: 1-2301-31-AO

Equipment Class: (7) Fluid-Operated Valves

Equipment Description: U-1 HPCI STM LINE DRN LINE STM TRAP BYP VLV







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Status: Y N U

Seismic Walkdown Checklist (SWC)

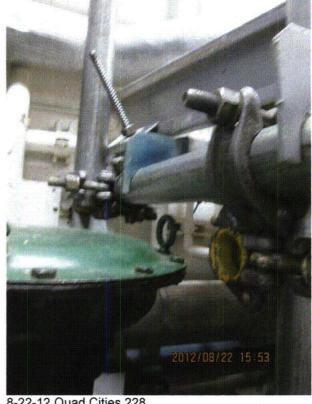
Equipment ID No.: 1-2301-31-AO

Equipment Class: (7) Fluid-Operated Valves

Equipment Description: U-1 HPCI STM LINE DRN LINE STM TRAP BYP VLV



8-22-12 Quad Cities 227



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Seismic Walkdown Checklist (SWC)

Equipment ID No.: 1-2301-31-AO

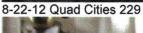
Equipment Class: (7) Fluid-Operated Valves

Equipment Description: U-1 HPCI STM LINE DRN LINE STM TRAP BYP VLV





8-22-12 Quad Cities 230



8-22-12 Quad Cities 231







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Seismic Walkdown Checklist (SWC)	Status: Y N U
Equipment ID No.: 1-2301-35-MO	
Equipment Class: (8) Motor-Operated and Solenoid-Operated Valves	
Equipment Description: U-1 HPCI PMP DOWNSTREAM TORUS SUCT VLV	
Project: Quad Cities 1 SWEL	
Location (Plds Flow Doom(Area)). DR 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 result findings. Additional space is provided at the end of this checklist for documenting other co	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?	Yes

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

Seismic Walkdow	vn Checklist (SWC)	Status: Y N U
Equipn	nent ID No.: 1-2301-35-MO	
Equip	ment Class: (8) Motor-Operated and Solenoid-Operated Valves	
Equipment	Description: U-1 HPCI PMP DOWNSTREAM TORUS SUCT VLV	
Interaction Effect		
7. Are soft ta	rgets free from impact by nearby equipment or structures?	Yes
	in contact with insulation pipe. Flexible conduit in contact with valve ged to be acceptable.	
	ead equipment, distribution systems, ceiling tiles and lighting, and lock walls not likely to collapse onto the equipment?	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	onditions	
	looked for and found no adverse seismic conditions that could affect the safety functions of the equipment?	Yes
Comments		
***** Seismic Walkdown Team: D. Carter & J. Griffith - 8/22/2012		
Colonia Vyaikuowi	Troum. D. Janes & J. Jimier - 0/22/2012	
Evaluated by:	Date: 10	0/4/2012
	David Carter David Carter Date: 10)/4/2012

Sheet 3 of 4

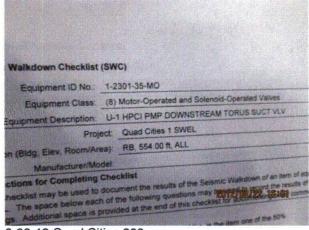
Status: Y N U

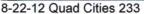
Seismic Walkdown Checklist (SWC)

Equipment ID No.: 1-2301-35-MO

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

Equipment Description: U-1 HPCI PMP DOWNSTREAM TORUS SUCT VLV







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8-22-12 Quad Cities 234



8-22-12 Quad Cities 236

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

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Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 1-2301-35-MO

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

Equipment Description: U-1 HPCI PMP DOWNSTREAM TORUS SUCT VLV



8-22-12 Quad Cities 237

Seismic Walkdown Checklist (SWC)	Status: Y N U
Equipment ID No.: 1-2301-3-MO	
Equipment Class: (8) Motor-Operated and Solenoid-Operated Valves	
Equipment Description: U1 HPCI TURB INLET VLV (HW)	
Project: Quad Cities 1 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	
 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

Status: Y N U Seismic Walkdown Checklist (SWC) Equipment ID No.: 1-2301-3-MO Equipment Class: (8) Motor-Operated and Solenoid-Operated Valves Equipment Description: U1 HPCI TURB INLET VLV (HW) 8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and Yes masonry block walls not likely to collapse onto the equipment? Overhead light fixtures judged to be acceptable. 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** 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: D. Carter & J. Griffith - 8/22/2012 Salulat David Carter Evaluated by: James Griffith 10/16/2012

Sheet 3 of 4

Status: Y N U

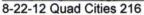
Seismic Walkdown Checklist (SWC)

Equipment ID No.: 1-2301-3-MO

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

Equipment Description: U1 HPCI TURB INLET VLV (HW)







8-22-12 Quad Cities 217



8-22-12 Quad Cities 218



8-22-12 Quad Cities 220

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 1-2301-3-MO

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

Equipment Description: U1 HPCI TURB INLET VLV (HW)





8-22-12 Quad Cities 222

Seismic Walkdown Checklist (SWC)	Status: Y N U
Equipment ID No.: 1-2301-49-MO	
Equipment Class: (8) Motor-Operated and Solenoid-Operated Valves	
Equipment Description: U-1 HPCI CLG WTR PMP TEST VLV	
Project: Quad Cities 1 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 results findings. Additional space is provided at the end of this checklist for documenting other continuous control of the space is provided at the end of this checklist for documenting other control of the space is provided at the end of this checklist for documenting other control of the space is provided at the end of this checklist for documenting other control of the space is provided at the end of this checklist for documenting other control of the space is provided at the end of this checklist for documenting other control of the space is provided at the end of this checklist for documenting other control of the space is provided at the end of this checklist for documenting other control of the space is provided at the end of this checklist for documenting other control of the space is provided at the end of this checklist for documenting other control of the space is provided at the end of this checklist for documenting other control of the space is provided at the end of this checklist for documenting other control of the space is provided at the end of this checklist for documenting other control of the space is provided at the end of this checklist for documenting other control of the space is provided at the end of the	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?	Yes
Interaction Effects	
7 Are soft targets free from impact by nearby equipment or structures?	Yes

Seismic Walk	down Checklist (SWC)		Status: Y N U
Fo	uipment ID No.:	1-2301- 4 9-MO		
	· —	(8) Motor-Operated and Solenoid-	Operated Valves	
	· ·	U-1 HPCI CLG WTR PMP TEST \		
		, distribution systems, ceiling tiles likely to collapse onto the equipme		Yes
9. Do att	ached lines have a	dequate flexibility to avoid damage	e?	Yes
		mic interaction evaluations, is equ nic interaction effects?	ipment free of	Yes
Other Advers				
		found no adverse seismic condition to the found to the sequipment?	ons that could	Yes
Comments				
Seismic Walkdown Team: D. Carter & J. Griffith - 8/23/2012				
			·	
Evaluated by:	Dadwlat. [Pavid Carter	Date:	10/4/2012
	Jus D. Affold	James Griffith		10/4/2012
<u> </u>				· · · · · · · · · · · · · · · · · · ·

Correspondence No.: RS-12-169 Sheet 3 of 4

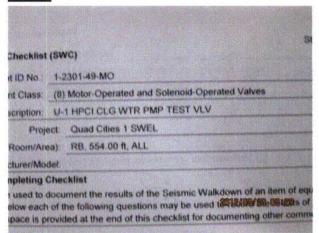
Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 1-2301-49-MO

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

Equipment Description: U-1 HPCI CLG WTR PMP TEST VLV







Quad Cities 014



Quad Cities 013



Quad Cities 015

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 1-2301-49-MO

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

Equipment Description: U-1 HPCI CLG WTR PMP TEST VLV





Quad Cities 017

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.: 1-2301-6-MO Equipment Class: (8) Motor-Operated and Solenoid-Operated Valves Equipment Description: U-1 HPCI PMP CCST SUCT VLV Project: Quad Cities 1 SWEL Location (Bldg, Elev, Room/Area): RB, 554.00 ft, ALL Manufacturer/Model: **Instructions for Completing Checklist** This checklist may be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments. Anchorage Is anchorage configuration verification required (i.e., is the item one of the 50% 1. No of SWEL items requiring such verification)? 2. Is the anchorage free of bent, broken, missing or loose hardware? Not Applicable 3. Is the anchorage free of corrosion that is more than mild surface oxidation? Not Applicable 4. Is the anchorage free of visible cracks in the concrete near the anchors? Not Applicable 5. Is the anchorage configuration consistent with plant documentation? (Note: Not Applicable This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) Based on the above anchorage evaluations, is the anchorage free of Yes potentially adverse seismic conditions?

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

Interaction Effects

C-192

Yes

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

Seismic Walkdowr	n Checklist (SWC)	Status: Y N U
Equipme	ent ID No.: 1-2301-6-MO	
	nent Class: (8) Motor-Operated and Solenoid-Operated Valves	
Equipment D	Description: U-1 HPCI PMP CCST SUCT VLV	
	ad equipment, distribution systems, ceiling tiles and lighting, and ock walls not likely to collapse onto the equipment?	Yes
9. Do attached	d lines have adequate flexibility to avoid damage?	Yes
	ne above seismic interaction evaluations, is equipment free of adverse seismic interaction effects?	Yes
adversely a One of the support fron side. The c	nditions coked for and found no adverse seismic conditions that could affect the safety functions of the equipment? e conduits for this valve is missing a clamp at the first unistrut on the valve. The flexible portion of the same conduit is split on the conduit run from the valve to the junction box is short and within conduit spans. The split conduit is not a seismic concern.	Yes
Comments		
	Team: D. Carter & J. Griffith - 8/23/2012	
Evaluated by:	Date:	10/4/2012
-	James Griffith	10/4/2012

Sheet 3 of 5

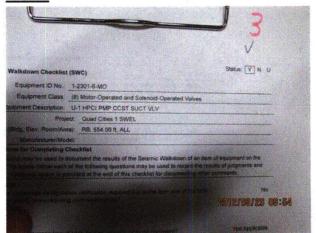
Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 1-2301-6-MO

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

Equipment Description: U-1 HPCI PMP CCST SUCT VLV



Quad Cities 040



Quad Cities 041

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 1-2301-6-MO

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

Equipment Description: U-1 HPCI PMP CCST SUCT VLV





Seismic Walkdown Checklist (SWC)

Equipment ID No.: 1-2301-6-MO

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

Equipment Description: U-1 HPCI PMP CCST SUCT VLV



Quad Cities 044



Quad Cities 045



Quad Cities 046

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

ondence No.: RS-12-169 Sheet 1 of 5

Status: Y N U Seismic Walkdown Checklist (SWC) Equipment ID No.: 1-2301-9-MO Equipment Class: (8) Motor-Operated and Solenoid-Operated Valves Equipment Description: U-1 HPCI PMP DSCH VLV Project: Quad Cities 1 SWEL Location (Bldg, Elev, Room/Area): RB, 554.00 ft, ALL Manufacturer/Model: **Instructions for Completing Checklist** This checklist may be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments. Anchorage 1. 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 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.) 6. Based on the above anchorage evaluations, is the anchorage free of Yes potentially adverse seismic conditions?

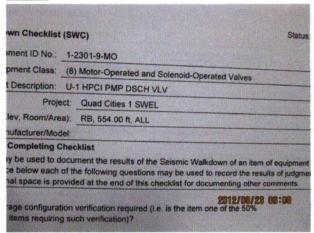
Seismic Walkdown Cl	hecklist (SWC)	Status: Y N U
Equipment	ID No.: 1-2301-9-MO	
• •	t Class: (8) Motor-Operated and Solenoid-Operated Valves	
	cription: U-1 HPCI PMP DSCH VLV	
Interaction Effects		
	s free from impact by nearby equipment or structures?	Yes
	r approximately 2 inches from pipe, approximately 4 inches from udged to be acceptable.	
	equipment, distribution systems, ceiling tiles and lighting, and walls not likely to collapse onto the equipment?	Yes
9. Do attached lin	es have adequate flexibility to avoid damage?	Yes
	above seismic interaction evaluations, is equipment free of erse seismic interaction effects?	Yes
		·
Other Adverse Condit	tions	
	ed for and found no adverse seismic conditions that could t the safety functions of the equipment?	Yes
		·
Comments		
	am: D. Carter & J. Griffith - 8/23/2012	
Evaluated by:	Date: _1	10/4/2012
<u>}</u>	James Griffith 1	10/4/2012

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 1-2301-9-MO

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

Equipment Description: U-1 HPCI PMP DSCH VLV







Quad Cities 052

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 1-2301-9-MO

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

Equipment Description: U-1 HPCI PMP DSCH VLV







Quad Cities 054

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 1-2301-9-MO

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

Equipment Description: U-1 HPCI PMP DSCH VLV



Quad Cities 055



Quad Cities 057



Quad Cities 056

Seismic Walkdown Checklist (SWC)	Status: Y N U
Equipment ID No.: 1-2302	
Equipment Class: (5) Horizontal Pumps	
Equipment Description: HPCI/ HPCI Pump	
Project: Quad Cities 1 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 results findings. Additional space is provided at the end of this checklist for documenting other cor	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)?	Yes
2. Is the anchorage free of bent, broken, missing or loose hardware?	Yes
 Is the anchorage free of corrosion that is more than mild surface oxidation? Minor corrosion on skid judged to be acceptable. 	Yes
Is the anchorage free of visible cracks in the concrete near the anchors? Minor grout pad spalling 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.) Anchorage shown on drawing M-347, Rev. M and M-358, Rev. J 	Yes
Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	Yes
Interaction Effects 7. Are soft targets free from impact by 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
Equipmer	nt ID No.: 1-2302	
Equipme	nt Class: (5) Horizontal Pumps	
Equipment De	scription: HPCI/ HPCI Pump	
	d equipment, distribution systems, ceiling tiles and lighting, and kk walls not likely to collapse onto the equipment?	Yes
9. Do attached l	lines have adequate flexibility to avoid damage?	Yes
	above seismic interaction evaluations, is equipment free of liverse seismic interaction effects?	Yes
	ditions ked for and found no adverse seismic conditions that could ect the safety functions of the equipment?	Yes
Comments Seismic Walkdown Te	eam: D. Carter & J. Griffith - 8/23/2012	
Evaluated by:	Date:	10/4/2012
	James Griffith	10/4/2012
	·	

Sheet 3 of 5

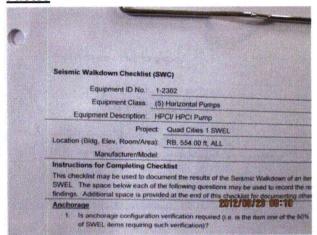
Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 1-2302

Equipment Class: (5) Horizontal Pumps

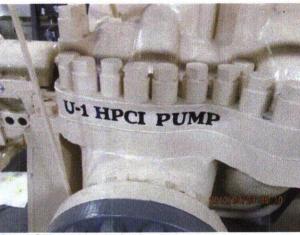
Equipment Description: HPCI/ HPCI Pump







Quad Cities 003



Quad Cities 002



Quad Cities 004

Sheet 4 of 5

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 1-2302

Equipment Class: (5) Horizontal Pumps

Equipment Description: HPCI/ HPCI Pump



Quad Cities 005



Quad Cities 007



Quad Cities 006



Quad Cities 008

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 1-2302

Equipment Class: (5) Horizontal Pumps

Equipment Description: HPCI/ HPCI Pump



Quad Cities 009



Quad Cities 011



Quad Cities 010

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

Status: Y N Seismic Walkdown Checklist (SWC)	U
Equipment ID No.: 1-2304	
Equipment Class: (5) Horizontal Pumps	
Equipment Description: PUMP U- HPCI CONDENSATE	
Project: Quad Cities 1 SWEL	
Location (Bldg, Elev, Room/Area): RB, 554.00 ft, ALL	
Manufacturer/Model:	
Instructions for Completing Checklist	
This checklist may be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.	
<u>Anchorage</u>	
 Is anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? 	10
Pump skid anchored to floor at one end and supported by 2 U-bolts from gland seal condenser at other end.	
2. Is the anchorage free of bent, broken, missing or loose hardware?	∍s
 Is the anchorage free of corrosion that is more than mild surface oxidation? 	es
Minor corrosion on anchors and on pump and motor hold-down bolts judged to be acceptable.	
4. Is the anchorage free of visible cracks in the concrete near the anchors?	es
 Is the anchorage configuration consistent with plant documentation? (Note: Not Applicab This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) 	le
Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Yes	∍s

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

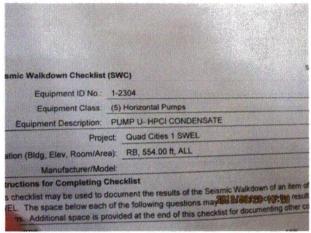
Seismic Walkdown Checklist (SWC)	Status: Y N U
Equipment ID No.: 1-2304	
Equipment Class: (5) Horizontal Pumps	
Equipment Description: PUMP U- HPCI CONDENSATE	
Interaction Effects	
7. Are soft targets free from impact by nearby equipment or structures?	Yes
Flexible conduit from pump motor rests on pipe; judged to be acceptable.	
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	Yes
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	ı
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 - 8/23/2012	
	0/4/2012
James Griffith 1	0/4/2012

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 1-2304

Equipment Class: (5) Horizontal Pumps

Equipment Description: PUMP U- HPCI CONDENSATE







Quad Cities 092



Quad Cities 091



Quad Cities 093

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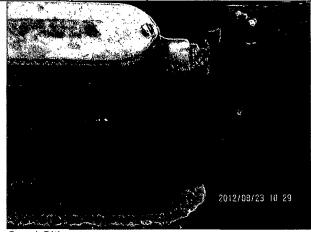
Status: Y N U

Seismic Walkdown Checklist (SWC)

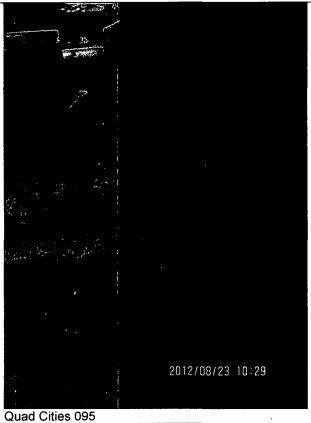
Equipment ID No.: 1-2304

Equipment Class: (5) Horizontal Pumps

Equipment Description: PUMP U- HPCI CONDENSATE



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Seismic Walkdown Checklist (SWC)

Equipment ID No.: 1-2304

Equipment Class: (5) Horizontal Pumps

Equipment Description: PUMP U- HPCI CONDENSATE





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Quad Cities 097