Quad Cities Generating Station Unit 2 12Q0108.40-R-002, Rev. 3 Correspondence No.: RS-12-169 Sheet 1 of 7

Seismic Walkdown Checklist (SWC)	Status: Y N U
Equipment ID No.: 2212-32	
Equipment Class: (18) Instruments on Racks	
Equipment Description: Wall-mounted Panel DG	
Project: Quad Cities 2 SWEL	4 - 40-4 - 18-4
Location (Bldg, Elev, Room/Area): DG, 595.00 ft, ALL	
Manufacturer/Model:	
Instructions for Completing Checklist	
This checklist may be used to document the results of the Seismic Walkdown of an item of 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	
<ol> <li>Is anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?</li> </ol>	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
Minor shrinkage cracks and pop-outs in wall judged to be acceptable.	
<ol> <li>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.)</li> </ol>	Yes
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	Yes

Seismic Walkdov	wn Checklist (SWC)	Status: Y N U
	ment ID No.: 2212-32	
Equip	ment Class: (18) Instruments on Racks	
	Description: Wall-mounted Panel DG	
Interaction Effect		
7. Are soft ta	argets free from impact by nearby equipment or structures?	Yes
masonry b	ead equipment, distribution systems, ceiling tiles and lighting, and block walls not likely to collapse onto the equipment?  In the dight fixtures judged to be acceptable.	Yes
9. Do attach	ed lines have adequate flexibility to avoid damage?	Yes
	the above seismic interaction evaluations, is equipment free of adverse seismic interaction effects?	Yes
Other Adverse Co	<u>onditions</u>	
	looked for and found no adverse seismic conditions that could affect the safety functions of the equipment?	Yes
Comments SEWS Anchorage	a Notes:	
_		
Rack 2212-32 is a	anchored by four 1/4" CEA.	•
***** Seismic Walkdown	n Team: J. Griffith & M. Wodarcyk - 8/8/2012	
Evaluated by:	James Griffith Date:	10/4/2012
	Michael Wodarcyk	10/4/2012

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Status: Y N U

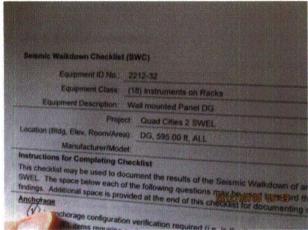
## Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2212-32

Equipment Class: (18) Instruments on Racks

Equipment Description: Wall-mounted Panel DG

#### **Photos**



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Status: Y N U

# Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2212-32

Equipment Class: (18) Instruments on Racks



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Status: Y N U

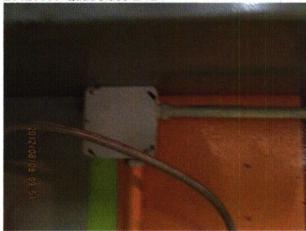
# Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2212-32

Equipment Class: (18) Instruments on Racks



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# Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2212-32

Equipment Class: (18) Instruments on Racks



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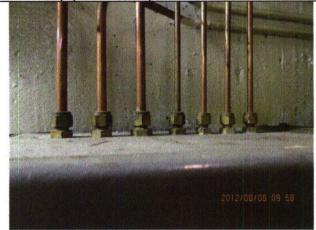
Quad Cities Generating Station Unit 2 12Q0108.40-R-002, Rev. 3 Correspondence No.: RS-12-169 Sheet 7 of 7

Status: Y N U

# Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2212-32

Equipment Class: (18) Instruments on Racks





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Seismic Walkdown Checklist (SWC)	Status: Y N U	
Equipment ID No.: 2-2301-14-MO		
Equipment Class: (8) Motor-Operated and Solenoid-Operated Valves		
Equipment Description: U2 HPCI PMP MIN FLOW VLV		
Project: Quad Cities 2 SWEL		
Location (Bldg, Elev, Room/Area): RB, 554.00 ft, ALL		
Manufacturer/Model:		
Instructions for Completing Checklist		
This checklist may be used to document the results of the Seismic Walkdown of an item of SWEL. The space below each of the following questions may be used to record the results findings. Additional space is provided at the end of this checklist for documenting other con	of judgments and	
Anchorage		
<ol> <li>Is anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?</li> </ol>	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	
<ol> <li>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.)</li> </ol>	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	

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Seismic Walkdown Checklist		Status: Y N U
Equipment ID No.:	2-2301-14-MO	
Equipment Class:	(8) Motor-Operated and Solenoid-Operated Valves	
Equipment Description:	U2 HPCI PMP MIN FLOW VLV	
masonry block walls no Overhead light fixture	nt, distribution systems, ceiling tiles and lighting, and of likely to collapse onto the equipment?  with open S-hooks. Hard targets between light fixture lighterse interaction. Judged to be acceptable.	Yes
9. Do attached lines have	adequate flexibility to avoid damage?	Yes
	ismic interaction evaluations, is equipment free of smic interaction effects?	Yes
	nd found no adverse seismic conditions that could fety functions of the equipment?	Yes
<u>Comments</u> Seismic Walkdown Team: J. G	riffith & M. Wodarcyk - 8/9/2012	
Evaluated by:    Sm. D. Apr.     Minhael	James Griffith Date: 10/4.  A Workship Michael Wodarcyk 10/4.	/2012

Correspondence No.: RS-12-169 Sheet 3 of 8

Status: Y N U

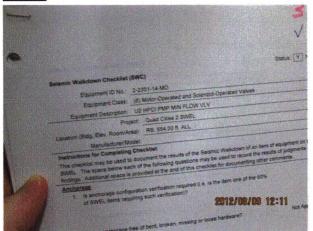
# Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2-2301-14-MO

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

Equipment Description: U2 HPCI PMP MIN FLOW VLV

## **Photos**



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## Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2-2301-14-MO

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



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## Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2-2301-14-MO

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



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## Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2-2301-14-MO

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



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## Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2-2301-14-MO

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



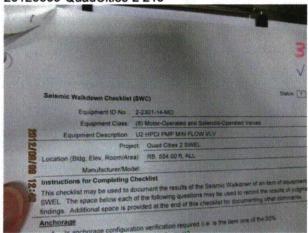
20120809-QuadCities-2 214



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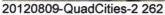
Status: Y N U

# Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2-2301-14-MO

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







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Quad Cities Generating Station Unit 2 12Q0108.40-R-002, Rev. 3

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Status: Y N U Seismic Walkdown Checklist (SWC) Equipment ID No.: 2-2301-29-AO Equipment Class: (7) Fluid-Operated Valves Equipment Description: U-2 HPCI STM LINE TO CONDENSER UPSTREAM DRN VLV Project: Quad Cities 2 SWEL Location (Bldg, Elev, Room/Area): RB, 554.00 ft, ALL Manufacturer/Model: Instructions for Completing Checklist This checklist may be used to document the results of the Seismic Walkdown of an item of 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?

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

Seismic Walkdown Checklist (SWC)	Status: Y N U
Equipment ID No.: 2-2301-29-AO	
Equipment Class: (7) Fluid-Operated Valves	
Equipment Description: U-2 HPCI STM LINE TO CONDENSER UPSTREAM DRN	1 VLV
Interaction Effects	
7. Are soft targets free from impact by nearby equipment or structures?	Yes
Clearance between insulated pipe and solenoid valve associated with 2-2301-29-AO is judged to be acceptable.	
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Overhead light fixtures judged to be acceptable.	Yes
9. Do attached lines have adequate flexibility to avoid damage?	Yes
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?  Insulated piping is rigid and well-supported from same wall as valve restraint brackets and is therefore judged to be acceptable.	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? Missing U-bolt at valve body is an analyzed condition per tag in field.	Yes
Comments	
Seismic Walkdown Team: J. Griffith & M. Wodarcyk - 8/9/2012	
Evaluated by:    Som D April   James Griffith   Date: 1	10/4/2012
Michael Wodarcyk	10/4/2012

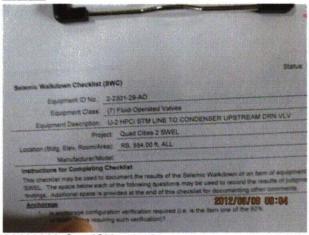
# Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2-2301-29-AO

Equipment Class: (7) Fluid-Operated Valves

Equipment Description: U-2 HPCI STM LINE TO CONDENSER UPSTREAM DRN VLV

#### **Photos**



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Status: Y N U

# Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2-2301-29-AO

Equipment Class: (7) Fluid-Operated Valves



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Status: Y N U

# Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2-2301-29-AO

Equipment Class: (7) Fluid-Operated Valves



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# Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2-2301-29-AO

Equipment Class: (7) Fluid-Operated Valves



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## Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2-2301-29-AO

Equipment Class: (7) Fluid-Operated Valves



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Status: Y N U

## Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2-2301-29-AO

Equipment Class: (7) Fluid-Operated Valves



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Quad Cities Generating Station Unit 2 12Q0108.40-R-002, Rev. 3 Correspondence No.: RS-12-169 Sheet 1 of 7

Seismic Walkdown Checklist (SWC)	Status: Y N U	
Equipment ID No.: 2-2301-31-AO		
Equipment Class: (7) Fluid-Operated Valves		
Equipment Description: U-2 HPCI STM LINE DRN LINE STM TRAP BYP VLV		
Project: Quad Cities 2 SWEL		
Location (Bldg, Elev, Room/Area): RB, 554.00 ft, ALL		
Manufacturer/Model:		
Instructions for Completing Checklist		
This checklist may be used to document the results of the Seismic Walkdown of an item of 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 co	s of judgments and	
<u>Anchorage</u>		
<ol> <li>Is anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?</li> </ol>	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	
<ol> <li>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.)</li> </ol>	Not Applicable	
Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	Yes	
Interaction Effects		
7. Are soft targets free from impact by nearby equipment or structures?	Yes	

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

Correspondence No.: RS-12-169 Sheet 2 of 7

Status: Y N U Seismic Walkdown Checklist (SWC) Equipment ID No.: 2-2301-31-AO Equipment Class: (7) Fluid-Operated Valves Equipment Description: U-2 HPCI STM LINE DRN LINE STM TRAP BYP VLV 8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and Yes masonry block walls not likely to collapse onto the equipment? Do attached lines have adequate flexibility to avoid damage? Yes 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: J. Griffith & M. Wodarcyk - 8/9/2012 James Griffith Evaluated by: Date: 10/4/2012 Michael Wodarcyk 10/4/2012

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Status: Y N U

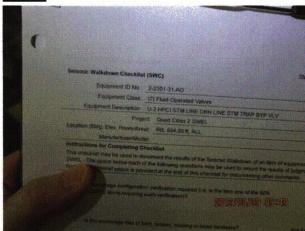
## Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2-2301-31-AO

Equipment Class: (7) Fluid-Operated Valves

Equipment Description: U-2 HPCI STM LINE DRN LINE STM TRAP BYP VLV

### **Photos**



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Status: Y N U

## Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2-2301-31-AO

Equipment Class: \_(7) Fluid-Operated Valves



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# Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2-2301-31-AO

Equipment Class: \_(7) Fluid-Operated Valves



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Status: Y N U

## Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2-2301-31-AO

Equipment Class: \_(7) Fluid-Operated Valves



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Status: Y N U

# Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2-2301-31-AO

Equipment Class: (7) Fluid-Operated Valves



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