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

,

Seismic Walkdown Checklist (SWC)	U
Equipment ID No.: 2-7800-28-1B	
Equipment Class: (1) Motor Control Centers	
Equipment Description: MCC - MCC 28-1B	
Project: Quad Cities 2 SWEL	
Location (Bldg, Elev, Room/Area):	
Manufacturer/Model:	
Instructions for Completing Checklist This checklist may be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.	
Anchorage	
<ol> <li>Is anchorage configuration verification required (i.e., is the item one of the 50% No of SWEL items requiring such verification)?</li> </ol>	0
2. Is the anchorage free of bent, broken, missing or loose hardware? Ye	S
3. Is the anchorage free of corrosion that is more than mild surface oxidation? Ye	S
4. Is the anchorage free of visible cracks in the concrete near the anchors? Ye	S
<ol> <li>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.)</li> </ol>	le
6. Based on the above anchorage evaluations, is the anchorage free of Ye potentially adverse seismic conditions?	)S

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

Seismic Walkdown Checklist (SWC)	Status: YNU
Equipment ID No.: _2-7800-28-1B	
Equipment Class: (1) Motor Control Centers	
Equipment Description: MCC - MCC 28-1B	
Interaction Effects	
7. Are soft targets free from impact by nearby equipment or structures?	Yes
One door slightly askew but adequately latched; judged to be acceptable.	• • •
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Overhead light fixture with an open S-hook. Hard targets mitigate effect of fixture; judged to be acceptable.	Yes
9. Do attached lines have adequate flexibility to avoid damage?	Yes
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	Yes
Other Adverse Conditions 11. Have you looked for and found no adverse seismic conditions that could adversely affect the safety functions of the equipment?	Yes
<u>Comments</u> Seismic Walkdown Team: J. Griffith & M. Wodarcyk - 8/6/2012	
Evaluated by: Jm D. April James Griffith Date:	10/4/2012
Michael Wodarcyk	10/4/2012

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



Quad Cities Generating Station Unit 2 12Q0108.40-R-002, Rev. 3 Correspondence No.: RS-12-169 Sheet 4 of 11

Status: Y N U

### Seismic Walkdown Checklist (SWC)



Quad Cities Generating Station Unit 2 12Q0108.40-R-002, Rev. 3 Correspondence No.: RS-12-169 Sheet 5 of 11

Status: Y N U

#### Seismic Walkdown Checklist (SWC)

	Equipment ID No.:	2-7800-28-1B
	Equipment Class:	(1) Motor Control Centers
an an an da	Equipment Description:	MCC - MCC 28-1B



20120806-QuadCities-2 082



20120806-QuadCities-2 084



20120806-QuadCities-2 083



Quad Cities Generating Station Unit 2 12Q0108.40-R-002, Rev. 3 Correspondence No.: RS-12-169 Sheet 6 of 11

Status: Y N U

### Seismic Walkdown Checklist (SWC)

Equipment ID No.:	2-7800-28-1B	
Equipment Class:	(1) Motor Control Centers	
Equipment Description:	MCC - MCC 28-1B	
	and the second	



20120806-QuadCities-2 086



20120806-QuadCities-2 088



20120806-QuadCities-2 087



Quad Cities Generating Station Unit 2 12Q0108.40-R-002, Rev. 3 Correspondence No.: RS-12-169 Sheet 7 of 11

Status: Y N U

# Seismic Walkdown Checklist (SWC)

Equipment ID No.:	2-7800-28-1B
Equipment Class:	(1) Motor Control Centers
Equipment Description:	MCC - MCC 28-1B



20120806-QuadCities-2 090



20120806-QuadCities-2 092



20120806-QuadCities-2 091



Quad Cities Generating Station Unit 2 12Q0108.40-R-002, Rev. 3 Correspondence No.: RS-12-169 Sheet 8 of 11

Status: Y N U

### Seismic Walkdown Checklist (SWC)

	Equipment ID No.:	2-7800-28-1B	er. 1995 - Den States Constanting (1997) - Parameter (1997) - Parameter (1997) - Parameter (1997) - Parameter (1997)	
	Equipment Class:	(1) Motor Control Centers		participant to the second s
qui	pment Description:	MCC - MCC 28-1B	the second s	National Adv. In Article and an and a state of the second state of the second state of the second state of the



20120806-QuadCities-2 094



20120806-QuadCities-2 096



20120806-QuadCities-2 095



Quad Cities Generating Station Unit 2 12Q0108.40-R-002, Rev. 3 Correspondence No.: RS-12-169 Sheet 9 of 11

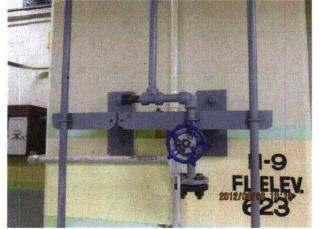
Status: Y N U

# Seismic Walkdown Checklist (SWC)

Equipment ID No .:	2-7800-28-1B	
Equipment Class:	(1) Motor Control Centers	
Equipment Description:	MCC - MCC 28-1B	



20120806-QuadCities-2 098



20120806-QuadCities-2 100



20120806-QuadCities-2 099



20120806-QuadCities-2 101

Quad Cities Generating Station Unit 2 12Q0108.40-R-002, Rev. 3 Correspondence No.: RS-12-169 Sheet 10 of 11

Status: Y N U

### Seismic Walkdown Checklist (SWC)

Equipment ID No .:	2-7800-28-1B	10. 
Equipment Class:	(1) Motor Control Centers	en November 1995 - State and State
Equipment Description:	MCC - MCC 28-1B	



20120806-QuadCities-2 102



20120806-QuadCities-2 104



20120806-QuadCities-2 103



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

Status: Y N U

# Seismic Walkdown Checklist (SWC)

-

Equipment ID No.:2-7800-28-1B	
Equipment Class: (1) Motor Control Centers	
Equipment Description: MCC - MCC 28-1B	
20120806-QuadCities-2 106	
2012000-@00001063-2 100	

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

Seismic Walkdown Checklist (SWC)	Status: Y N U
Equipment ID No.: 2-7800-28-2	
Equipment Class: (1) Motor Control Centers	<u>.</u>
Equipment Description: MCC - MCC 28-2	
Project: Quad Cities 2 SWEL	
Location (Bldg, Elev, Room/Area): TB, 615.00 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 cord	s 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?	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
<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
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	Yes

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

Seismic Walkdown Checklist (SWC)	Status: Y N L	J
Equipment ID No.: 2-7800-28-2		
Equipment Class: (1) Motor Control Centers		-
Equipment Description: MCC - MCC 28-2		-
Interaction Effects		
7. Are soft targets free from impact by nearby equipment or structures?	Yes	
Emergency phone box conduit rigid and well-supported. Conduit 1/2-inch from MCC. Judged to be acceptable.		
One door slightly bent at bottom. Door is adequately latched and judged to be acceptable.		
<ol> <li>Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?</li> </ol>	Yes	
	· · ·	
9. Do attached lines have adequate flexibility to avoid damage?	Yes	
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	Yes	
Other Adverse Conditions 11. Have you looked for and found no adverse seismic conditions that could adversely affect the safety functions of the equipment?	Yes	
Comments	· · · · · · · · · · · · · · · · · · ·	
Seismic Walkdown Team: J. Griffith & M. Wodarcyk - 8/7/2012	· · · · ·	
Evaluated by: James Griffith Date:	10/4/2012	_
Michael Wodarcyk	10/4/2012	

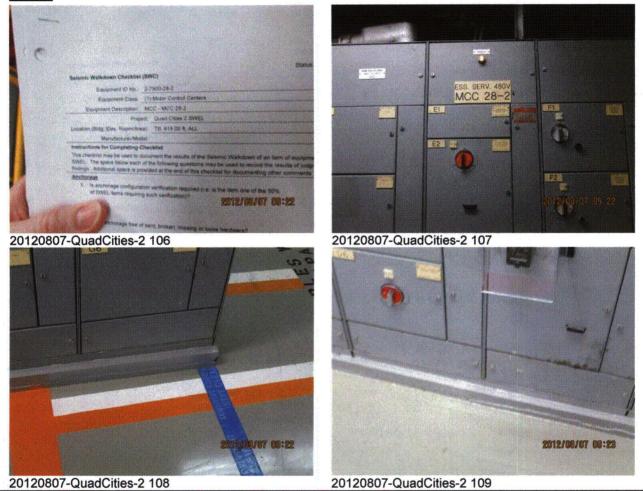
Quad Cities Generating Station Unit 2 12Q0108.40-R-002, Rev. 3 Correspondence No.: RS-12-169 Sheet 3 of 8

Status: Y N U

### Seismic Walkdown Checklist (SWC)

Equipment ID No.:	2-7800-28-2	
Equipment Class:	(1) Motor Control Centers	and the distribution of the state of the database
Equipment Description:	MCC - MCC 28-2	

#### **Photos**

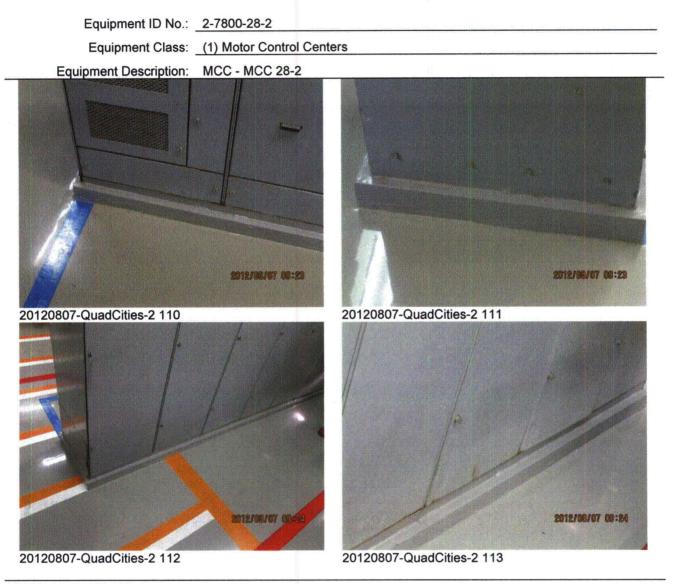


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Quad Cities Generating Station Unit 2 12Q0108.40-R-002, Rev. 3 Correspondence No.: RS-12-169 Sheet 4 of 8

Status: Y N U

### Seismic Walkdown Checklist (SWC)



Quad Cities Generating Station Unit 2 12Q0108.40-R-002, Rev. 3 Correspondence No.: RS-12-169 Sheet 5 of 8

Status: Y N U

## Seismic Walkdown Checklist (SWC)

Equipment ID No .:	2-7800-28-2
Equipment Class:	(1) Motor Control Centers

Equipment Description: MCC - MCC 28-2



20120807-QuadCities-2 114



20120807-QuadCities-2 116



20120807-QuadCities-2 115



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Status:	Y	N	U

### Seismic Walkdown Checklist (SWC)

Equipment ID No.:	2-7800-28-2
Equipment Class:	(1) Motor Control Centers

Equipment Description: MCC - MCC 28-2



20120807-QuadCities-2 118



20120807-QuadCities-2 120



20120807-QuadCities-2 119



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Status: Y I	ΙU

### Seismic Walkdown Checklist (SWC)

Equipment ID No .:	2-7800-28-2
Equipment Class:	(1) Motor Control Centers
Equipment Description:	MCC - MCC 28-2



20120807-QuadCities-2 122



20120807-QuadCities-2 124



20120807-QuadCities-2 123



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Status: Y N U

### Seismic Walkdown Checklist (SWC)

Equipment ID No .:	2-7800-28-2
Equipment Class:	(1) Motor Control Centers
Equipment Description:	MCC - MCC 28-2

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

Seismic Walkdown Checklist (SWC)	Status: Y N U
Equipment ID No.: 2-7800-28295	
Equipment Class: (1) Motor Control Centers	-
Equipment Description: MCC - MCC 28/29-5	
Project: Quad Cities 2 SWEL	
Location (Bldg, Elev, Room/Area): _RB, 595.00 ft, ALL	
Manufacturer/Model:	
Instructions for Completing Checklist	
This checklist may be used to document the results of the Seismic Walkdown of an item of SWEL. The space below each of the following questions may be used to record the result findings. Additional space is provided at the end of this checklist for documenting other contents.	Its 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?	Yes
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	Yes
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Yes
5. Is the anchorage configuration consistent with plant documentation? (Note:	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?	•

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

	Status: Y N U
Seismic Walkdown Checklist (SWC)	•
Equipment ID No.: 2-7800-28295	
Equipment Class: (1) Motor Control Centers	
Equipment Description: MCC - MCC 28/29-5	
Interaction Effects	
7. Are soft targets free from impact by nearby equipment or structures?	Yes
Minor deformation in bottom of one door. Latches are adequately engaged; door 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?	Yes
	•
9. Do attached lines have adequate flexibility to avoid damage?	Yes
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	Yes
Other Adverse Conditions	
11. Have you looked for and found no adverse seismic conditions that could adversely affect the safety functions of the equipment?	Yes
<u>Comments</u> Seismic Walkdown Team: J. Griffith & M. Wodarcyk - 8/6/2012	······
	0/4/2012
Michael Wodarcyk 1	0/4/2012

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

Status: Y N U

### Seismic Walkdown Checklist (SWC)

Equipment ID No .:	2-7800-28295	ji.
Equipment Class:	(1) Motor Control Centers	
Equipment Description:	MCC - MCC 28/29-5	

### **Photos**

States and the second	
Seismic Walkdown Checklist	(SWC)
Equipment ID No.	2-7800-28295
Equipment Class:	(1) Motor Control Centers
Equipment Description	
Proje	
Location (Bidg, Elev, Room/Area	a) RB, 595.00 ft, ALL
Manufacturer/Mone	
Instructions for Completing Cl This checklist may be used to do SWEL. The space below each a	cument the results of the Selection Man
Anchorage	ded at the end of this checklist for documenting of jud
<ul> <li>Is anchorage configuration of SWEL items requiring s</li> </ul>	n verification required (i.e. is the item 2012/00/06 13:25

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20120806-QuadCities-2 252



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Seismic Walkdown Checklist (SWC)	Status: Y N U
Equipment ID No.: _2-7800-28295	
Equipment Class: (1) Motor Control Centers	
Equipment Description: MCC - MCC 28/29-5	
20120806-QuadCities-2 255	
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Status: Y N U

#### Seismic Walkdown Checklist (SWC)



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Status: Y N U

### Seismic Walkdown Checklist (SWC)

Equipment ID No.:	2-7800-28295
Equipment Class:	(1) Motor Control Centers
Equipment Description:	MCC - MCC 28/29-5
and the second	





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20120806-QuadCities-2 265



20120806-QuadCities-2 266

Quad Cities Generating Station Unit 2 12Q0108.40-R-002, Rev. 3 Correspondence No.: RS-12-169 Sheet 7 of 8

Status:	NI	11
Status.	IN	U

# Seismic Walkdown Checklist (SWC)

Equipment ID No .:	2-7800-28295
Equipment Class:	(1) Motor Control Centers

Equipment Description: MCC - MCC 28/29-5



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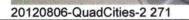
20120806-QuadCities-2 269





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

Seis	mic Walkdown Checklist	(SWC)	Status: Y N U
	Equipment ID No.:		
	Equipment Class:	(1) Motor Control Centers	
1	Equipment Description:	MCC - MCC 28/29-5	



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

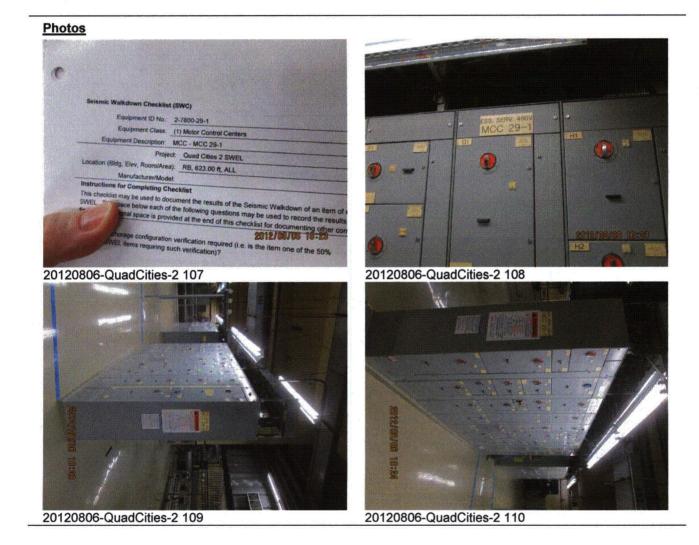
Seismic Walkdown Checklist (SWC)	Status: Y N U
Equipment ID No.: 2-7800-29-1	
Equipment Class: (1) Motor Control Centers	
Equipment Description: MCC - MCC 29-1	
Project: _Quad Cities 2 SWEL	
Location (Bldg, Elev, Room/Area): _RB, 623.00 ft, ALL	
Manufacturer/Model:	
Instructions for Completing Checklist This checklist may be used to document the results of the Seismic Walkdown of an item of ea SWEL. The space below each of the following questions may be used to record the results o findings. Additional space is provided at the end of this checklist for documenting other comm	f 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?	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
<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
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	Yes

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

Seismic Walkdown Checklist (S	WC)	Status: Y N U
Equipment ID No.: 2	-7800-29-1	
Equipment Class: (*	1) Motor Control Centers	
Equipment Description: N	1CC - MCC 29-1	
Interaction Effects		
7. Are soft targets free from	impact by nearby equipment or structures?	Yes
	distribution systems, ceiling tiles and lighting, and kely to collapse onto the equipment?	Yes
9. Do attached lines have ac	lequate flexibility to avoid damage?	Yes
10. Based on the above seisn potentially adverse seismi	nic interaction evaluations, is equipment free of ic interaction effects?	Yes
Other Adverse Conditions		
adversely affect the safety IR 1397864: During the Seismic Walko MCC 29-1 was not secure	ound no adverse seismic conditions that could y functions of the equipment? lowns it was identified that one of the two latches on ed. The other latch is secured. The concern with that during a seismic event the door could open. If the	Yes
door were to open, the do could cause components doors is that when the do Because this MCC is not	ors could bang against the MCC and the impact within to change states. The other issue with open or is open the stiffness of the panel is reduced. a tall MCC, as long as one of the latches is ceptability of the MCC is not compromised.	
Comments Seismic Walkdown Team: J. Griffi	th & M. Wodarcyk - 8/6/2012	

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

Seismic Walkdow	Status: Y N U			
Equip	nent ID No.:	2-7800-29-1	· · ·	
Equip	ment Class:	(1) Motor Control Centers		
Equipment	Description:	MCC - MCC 29-1		
Evaluated by:	June D Auff	James Griffith	Date:	10/4/2012
	Mintral	(). Wedneyk Michael Wodarcyk		10/4/2012



Quad Cities Generating Station Unit 2 12Q0108.40-R-002, Rev. 3 Correspondence No.: RS-12-169 Sheet 4 of 7

Status: Y N U

# Seismic Walkdown Checklist (SWC)

Seismic Walkdown Checklist (SWC)	
Equipment ID No.: 2-7800-29-1	
Equipment Class: (1) Motor Co	ontrol Centers
Equipment Description: MCC - MCC	29-1
20120806-QuadCities-2 111	20120806-QuadCities-2 112
20120806-QuadCities-2 113	20120806-QuadCities-2 114

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Status: Y N U

### Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2-7800-29-1

Equipment Class: (1) Motor Control Centers

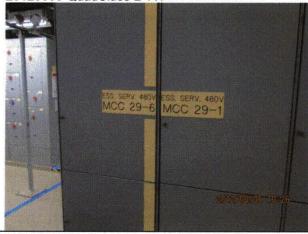
Equipment Description: MCC - MCC 29-1

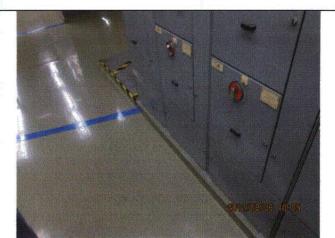


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20120806-QuadCities-2 116





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Status: Y N U

#### Seismic Walkdown Checklist (SWC)

	Equipment ID No .:	2-7800-29-1		
	Equipment Class:	(1) Motor Control Centers		
	Equipment Description:	MCC - MCC 29-1		
140	0806 QuedCities 2 110	201	20806 QuadCities 2 120	

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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

Seismic Walkdown Checklist	t (SWC)	Status: Y N U
Equipment ID No.:	2-7800-29-1	40 20 20 20 20 20 20 20 20 20 20 20 20 20
Equipment Class:	(1) Motor Control Centers	
Equipment Description:	MCC - MCC 29-1	14 <sub>.3</sub> 98.
20120806-QuadCities-2 125	BUILT/OR/OS 10:29	

Quad Cities Generating Station Unit 2 12Q0108.40-R-002, Rev. 3 Correspondence No.: RS-12-169 Sheet 1 of 10

Seismic Walkdown Checklist (SWC)	Status: Y N U
Equipment ID No.: 2-8300-2	
Equipment Class: (16) Battery Chargers and Inverters	
Equipment Description: CHRGR #2, 125V	
Project: Quad Cities 2 SWEL	
Location (Bldg, Elev, Room/Area): TB, 615.00 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 easily 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 compared to the space of th	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
<ol> <li>Is the anchorage free of bent, broken, missing or loose hardware?</li> <li>Is the anchorage free of corrosion that is more than mild surface oxidation?</li> </ol>	Yes
4 In the anchorage free of visible gracks in the concrete near the anchorage	Yes
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Tes
Shrinkage crack in floor 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

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Quad Cities Generating Station Unit 2 12Q0108.40-R-002, Rev. 3 Correspondence No.: RS-12-169 Sheet 2 of 10

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Seism	ic Walkdown Checklist	t (SWC)	Status: Y N U
	Equipment ID No.:	2-8300-2	
	Equipment Class:	(16) Battery Chargers and Inverters	
	Equipment Description:	CHRGR #2, 125V	·
	ction Effects Are soft targets free fro	om impact by nearby equipment or structures?	Yes
		such that it could rattle at bottom. Operations confirmed s in the battery charger. Judged to be acceptable. See	1
8.	masonry block walls no Overhead light fixture	ent, distribution systems, ceiling tiles and lighting, and ot likely to collapse onto the equipment? is judged to be acceptable. Masonry wall in vicinity udged to be acceptable.	Yes
9.	Do attached lines have	e adequate flexibility to avoid damage?	Yes
10.		eismic interaction evaluations, is equipment free of smic interaction effects?	Yes
Other	Adverse Conditions		
11.		nd found no adverse seismic conditions that could fety functions of the equipment?	Yes
Comn SEWS	nents Anchorage Notes:		
	s are welded to the base ne 3/8" dia. non shell exp	channel to accommodate anchorage. Each of the six a pansion bolt.	ingles is bolted to the floor
***** Seism	ic Walkdown Team: J. G	riffith & M. Wodarcyk - 8/7/2012	
Evalua	ited by: Jms D. Afr Minhael	James Griffith Date	e: <u>10/12/2012</u>

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Status: Y N U

## Seismic Walkdown Checklist (SWC)

12/02/07 09:51

Equipment ID No.:	2-8300-2
Equipment Class:	(16) Battery Chargers and Inverters
Equipment Description:	CHRGR #2, 125V





Quad Cities Generating Station Unit 2 12Q0108.40-R-002, Rev. 3 Correspondence No.: RS-12-169 Sheet 4 of 10

Status: Y N U

Seismic Walkdown Checklist (SWC)	Seismic	Walkdown	Checklist	(SWC)
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Equipment ID No.:	2-8300-2	
Equipment Class:	(16) Battery Chargers and Inverters	
Equipment Description:	CHRGR #2, 125V	



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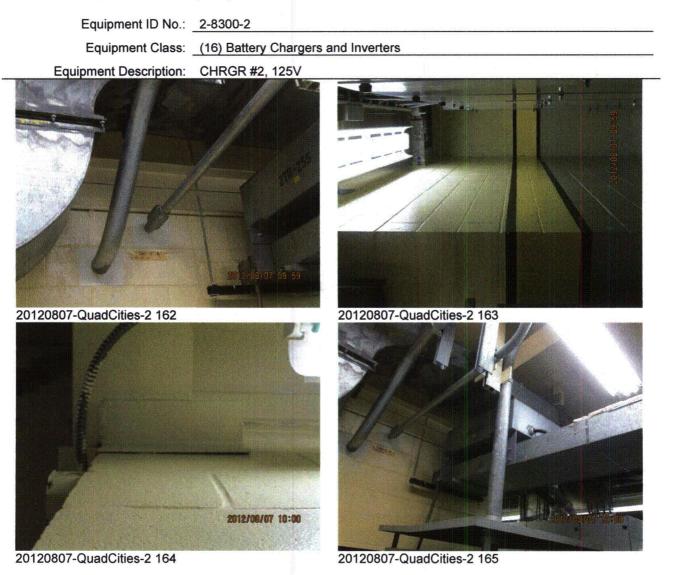
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Status:	Y	N	U

## Seismic Walkdown Checklist (SWC)



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Status: Y N U

# Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2-8300-2

Equipment Class: (16) Battery Chargers and Inverters

Equipment Description: CHRGR #2, 125V



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Status: Y N U

# Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2-8300-2

Equipment Class: (16) Battery Chargers and Inverters

Equipment Description: CHRGR #2, 125V



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Status:	Y	Ν	U
			-

## Seismic Walkdown Checklist (SWC)

Equipment ID No .:	
	(16) Battery Chargers and Inverters

Equipment Description: CHRGR #2, 125V



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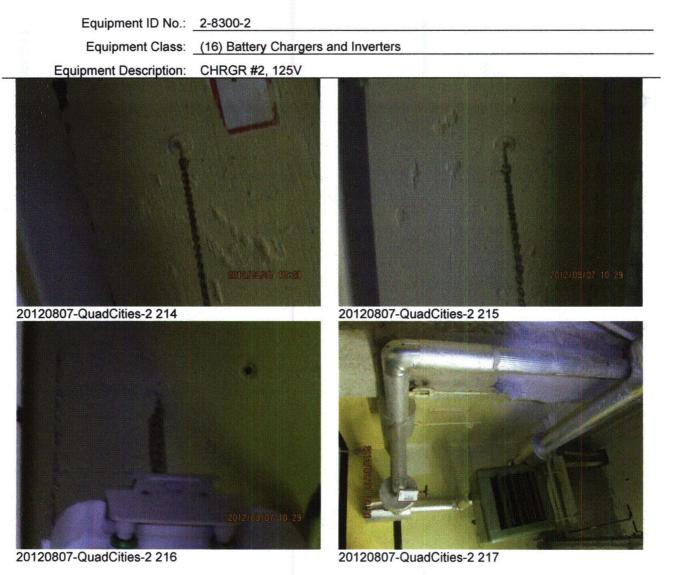
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Status: Y N U

# Seismic Walkdown Checklist (SWC)



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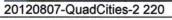
Status:	Y	N	U

# Seismic Walkdown Checklist (SWC)

Equipment ID No .:	2-8300-2
Equipment Class:	(16) Battery Chargers and Inverters
Equipment Description:	CHRGR #2, 125V







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)
Equipment ID No.: 2-8350
Equipment Class: (16) Battery Chargers and Inverters
Equipment Description: CHRGR #2, 250V
Project: Quad Cities 2 SWEL
Location (Bldg, Elev, Room/Area):TB, 615.00 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
<ol> <li>Is anchorage configuration verification required (i.e., is the item one of the 50% No of SWEL items requiring such verification)?</li> </ol>
2. Is the anchorage free of bent, broken, missing or loose hardware? Yes
3. Is the anchorage free of corrosion that is more than mild surface oxidation? Yes
Minor surface corrosion judged to be acceptable.
4. Is the anchorage free of visible cracks in the concrete near the anchors? Yes
Minor shrinkage cracks in floor judged to be acceptable.
<ol> <li>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.)</li> </ol>
6. Based on the above anchorage evaluations, is the anchorage free of Yes potentially adverse seismic conditions?

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	ic Walkdown Checklist	(SWC)	Status: Y N
	Equipment ID No.:	2-8350	
	Equipment Class:	(16) Battery Chargers and Inverters	
	Equipment Description:		
Intera	ction Effects		
7.	Are soft targets free fro	m impact by nearby equipment or structures?	Yes
8.	masonry block walls no	nt, distribution systems, ceiling tiles and lighting, and ot likely to collapse onto the equipment? s judged to be acceptable.	Yes
9.	Do attached lines have	adequate flexibility to avoid damage?	Yes
10.	Based on the above se	ismic interaction evaluations, is equipment free of	Yes
		smic interaction effects?	
	Adverse Conditions		······································
_		Id found no adverse seismic conditions that could fety functions of the equipment?	Yes
11.	adversely affect the sat		Yes
11.	adversely affect the sat	fety functions of the equipment?	Yes
11. Comn Seism	adversely affect the sat	fety functions of the equipment?	Yes 10/4/2012

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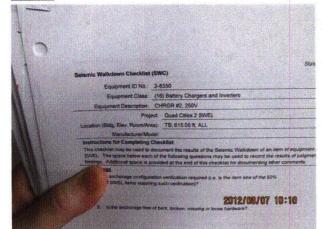
Quad Cities Generating Station Unit 2 12Q0108.40-R-002, Rev. 3 Correspondence No.: RS-12-169 Sheet 3 of 7

Status: Y N U

# Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2-8350 Equipment Class: (16) Battery Chargers and Inverters Equipment Description: CHRGR #2, 250V

#### **Photos**



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Status:	N	11
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# Seismic Walkdown Checklist (SWC)

Equipment ID No.:	2-8350
Equipment Class:	(16) Battery Chargers and Inverters
Equipment Description:	CHRGR #2, 250V



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Status: Y N U

## Seismic Walkdown Checklist (SWC)

Equipment ID No.:	2-8350
Equipment Class:	(16) Battery Chargers and Inverters
Equipment Description:	CHRGR #2, 250V



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Status:	Y	N	U

# Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2-8350

Equipment Class: (16) Battery Chargers and Inverters

Equipment Description: CHRGR #2, 250V



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Status: Y N U

#### Seismic Walkdown Checklist (SWC)

Equipment ID No .:	2-8350
Equipment Class:	(16) Battery Chargers and Inverters
Equipment Description:	CHRGR #2, 250V



Quad Cities Generating Station Unit 2 12Q0108.40-R-002, Rev. 3 Correspondence No.: RS-12-169 Sheet 1 of 10

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Seismi	: Walkdown Checklist (SWC)	Status: Y N U
Celonin	Equipment ID No.: 2-8801A-AO	
		·
	Equipment Class: (7) Fluid-Operated Valves VLV, PNEUMATIC, 3/4 - CONTAINMENT 2G DW COOLI	
E	quipment Description: SMPL VLV	
	Project: Quad Cities 2 SWEL	
Locatior	a (Bldg, Elev, Room/Area):	
	Manufacturer/Model:	
Instruct	ions for Completing Checklist	7
SWEL.	ecklist may be used to document the results of the Seismic Walkdown of an item of The space below each of the following questions may be used to record the result Additional space is provided at the end of this checklist for documenting other co	s of judgments and
Anchor	age	
	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

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Seismic Walkdown Checklist	(SWC)	Status: Y N U
Equipment ID No.:	2-8801A-AQ	
	(7) Fluid-Operated Valves VLV, PNEUMATIC, 3/4 - CONTAINMENT 2G DW	
Equipment Description:	SMPL VLV	
Interaction Effects		
7. Are soft targets free fro	m impact by nearby equipment or structures?	Yes
	nt, distribution systems, ceiling tiles and lighting, and t likely to collapse onto the equipment?	l Yes
9. Do attached lines have	adequate flexibility to avoid damage?	Yes
	ismic interaction evaluations, is equipment free of mic interaction effects?	Yes
Other Adverse Conditions	·	······································
11. Have you looked for an adversely affect the sat Associated solenoid v	d found no adverse seismic conditions that could ety functions of the equipment? alve touches solid pipe insulation (typical for 2-8801 is fail closed upon loss of air per System Engineerin le. See IR 1397616.	
<u>Comments</u> Seismic Walkdown Team: J. Gr	iffith & M. Wodarcyk - 8/6/2012	
Evaluated by: Jm D. Apr Minhael	James Griffith D D. Wishing K	ate: 10/4/2012
1. /	Michael Wodarcyk	10/4/2012

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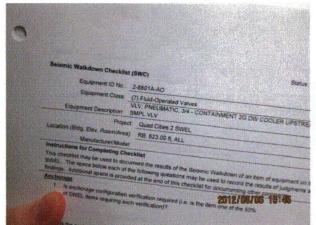
Quad Cities Generating Station Unit 2 12Q0108.40-R-002, Rev. 3 Correspondence No.: RS-12-169 Sheet 3 of 10

Status:	V	N	11
Status.		IN	0

# Seismic Walkdown Checklist (SWC)

Equipment ID No .:	2-8801A-AO	
Equipment Class:	(7) Fluid-Operated Valves	
17 TA 19	VLV, PNEUMATIC, 3/4 - CONTAINMENT 2G DW COOLER UPSTREAM AIR	Č
Equipment Description:	SMPL VLV	

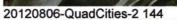
# **Photos**



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AQ 2-8801

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Status: Y N U

#### Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2-8801A-AO

Equipment Class: (7) Fluid-Operated Valves VLV, PNEUMATIC, 3/4 - CONTAINMENT 2G DW COOLER UPSTREAM AIR

Equipment Description: SMPL VLV



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Status: Y N U

## Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2-8801A-AO

Equipment Class: \_(7) Fluid-Operated Valves VLV, PNEUMATIC, 3/4 - CONTAINMENT 2G DW COOLER UPSTREAM AIR

Equipment Description: SMPL VLV



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Status: Y N U

### Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2-8801A-AO

Equipment Class: (7) Fluid-Operated Valves VLV, PNEUMATIC, 3/4 - CONTAINMENT 2G DW COOLER UPSTREAM AIR

Equipment Description: SMPL VLV



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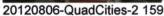
Quad Cities Generating Station Unit 2 12Q0108.40-R-002, Rev. 3 Correspondence No.: RS-12-169 Sheet 7 of 10

Status: Y N U

## Seismic Walkdown Checklist (SWC)

Equipment ID No .:	2-8801A-AO
Equipment Class:	(7) Fluid-Operated Valves
	VLV, PNEUMATIC, 3/4 - CONTAINMENT 2G DW COOLER UPSTREAM AIR
Equipment Description:	SMPL VLV







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Status: Y N U

#### Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2-8801A-AO

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

VLV, PNEUMATIC, 3/4 - CONTAINMENT 2G DW COOLER UPSTREAM AIR SMPL VLV

Equipment Description:



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Status: Y N U

## Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2-8801A-AO

Equipment Class: (7) Fluid-Operated Valves VLV, PNEUMATIC, 3/4 - CONTAINMENT 2G DW COOLER UPSTREAM AIR

Equipment Description: SMPL VLV



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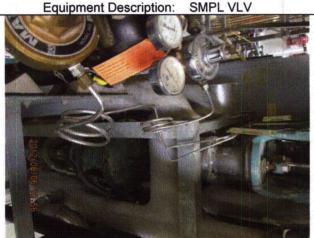
Status: Y N U

## Seismic Walkdown Checklist (SWC)

Equipment ID No.: \_2-8801A-AO

Equipment Class: (7) Fluid-Operated Valves

VLV, PNEUMATIC, 3/4 - CONTAINMENT 2G DW COOLER UPSTREAM AIR SMPL VLV



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

Seismic Walkdown Checklist (SWC)	Status: YNU
Equipment ID No.: 902-3	
Equipment Class: (20) Instrumentation and Control Panels and Cabinet	S .
Equipment Description: PANEL	
Project: Quad Cities 2 SWEL	(
Location (Bldg, Elev, Room/Area):SB, 623.00 ft, ALL	
Manufacturer/Model:	
Instructions for Completing Checklist	
This checklist may be used to document the results of the Seismic Walkdown of an ite 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	esults 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
	le se
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
	· · · · · ·
E lo the exchange configuration consistent with plant decumentation? (Note:	, Voo
<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</li> </ol>	e Yes
configuration verification is required.)	
<ol><li>Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?</li></ol>	Yes
Viewed 6 anchors of 9 total. Remaining anchors could not be viewed due to	
cabling and limitations on access. Anchors viewed matched documentation, therefore it is reasonable to conclude that the anchors match plant	, ,
documentation without further verification.	

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

	Status: Y N U
Seismic Walkdown Checklist (SWC)	
Equipment ID No.: _902-3	
Equipment Class: (20) Instrumentation and Control Panels and Cabinets	
Equipment Description: PANEL	
Interaction Effects	
7. Are soft targets free from impact by nearby equipment or structures?	Yes
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Sheet metal ceiling inside cabinet and drop-panel ceiling outside cabinet prevent overhead access/visibility.	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?         Back of control panel was open. No adverse conditions were observed.	Yes
Comments SEWS Anchorage Notes: Panel 902-3 has 9 welded or bolted friction clips (5 on front, 2 in center and 2 on back) atta to embedded steel. ***** Seismic Walkdown Team: J. Griffith & M. Wodarcyk - 8/7/2012 No photos permitted per Operations.	aching base channel

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

Seismic Walkdow	vn Checklist	SWC)	Status: Y N U	
Equipr	nent ID No.:	.: _902-3		
Equip	ment Class:	s: _(20) Instrumentation and Control Panels and Cabinets		
Equipment	Description:	PANEL		
Evaluated by:	Jon D. App	James Grimitin Date:	10/4/2012	
	1 1	Michael Wodarcyk	10/4/2012	
Photos				