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)	N U
Equipment ID No.: 2201-73A	
Equipment Class: (18) Instruments on Racks	
Equipment Description: RACK	
Project: Quad Cities 1 SWEL	
Location (Bldg, Elev, Room/Area): SB, 609.00 ft, ALL	
Manufacturer/Model:	
Instructions for Completing Checklist	
This checklist may be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments a findings. Additional space is provided at the end of this checklist for documenting other comments.	
<u>Anchorage</u>	
 Is anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? 	Yes
2. Is the anchorage free of bent, broken, missing or loose hardware?	Yes
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	Yes
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Yes
 Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) 	Yes
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	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
Equipment ID No.:	2201-73A	
Equipment Class:	(18) Instruments on Racks	
Equipment Description:		
	nt, distribution systems, ceiling tiles and lighting, and of likely to collapse onto the equipment?	Yes
9. Do attached lines have	adequate flexibility to avoid damage?	Yes
	eismic interaction evaluations, is equipment free of smic interaction effects?	Yes
	nd found no adverse seismic conditions that could fety functions of the equipment?	Yes
Comments SEWS Anchorage Notes:		
Panel welded to massive plate	assembly. Base plate anchored by six - 1/2" concrete	expansion anchors.
***** Seismic Walkdown Team: D. C	arter & J. Griffith - 8/20/2012	
Evaluated by: Dalidlat.	David Carter Da	te: 10/4/2012
Juns D. Affr	村 James Griffith	10/4/2012

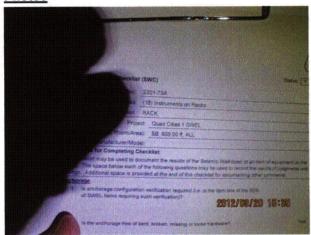
Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2201-73A

Equipment Class: (18) Instruments on Racks

Equipment Description: RACK

Photos



8-20-12 Quad Cities 259 (2)





Seismic Walkdown Checklist (SWC)

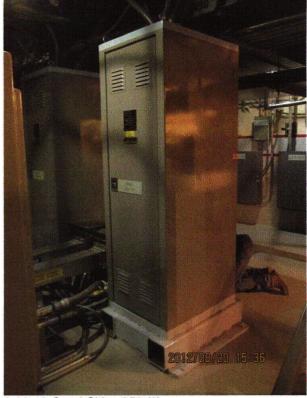
Equipment ID No.: 2201-73A

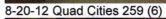
Equipment Class: (18) Instruments on Racks

Equipment Description: RACK



8-20-12 Quad Cities 259 (5)







8-20-12 Quad Cities 259 (7)



8-20-12 Quad Cities 259 (8)

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

Sheet 5 of 5

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2201-73A

Equipment Class: (18) Instruments on Racks

Equipment Description:



8-20-12 Quad Cities 259 (9)

Quad Cities Generating Station Unit 1 12Q0108.40-R-001 Rev. 3

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

Status: Y N U Seismic Walkdown Checklist (SWC) Equipment ID No.: 2201-8 Equipment Class: (18) Instruments on Racks Equipment Description: RACK, AUTO BLOWDOWN 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% Yes of SWEL items requiring such verification)? 2. Is the anchorage free of bent, broken, missing or loose hardware? Yes Minor lack of thread engagement judged to be acceptable. 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 wall shrinkage cracks judged to be acceptable. Gap at east end floor anchor judged to be acceptable due to top braces. 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 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 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.: 2201-8 Equipment Class: (18) Instruments on Racks Equipment Description: RACK, AUTO BLOWDOWN **Interaction Effects** 7. Are soft targets free from impact by nearby equipment or structures? Yes Phone attached to rack. Receiver in cradle. Rack is rigid and vertical seismic acceleration is minimal, therefore receiver will not jump out of cradle. Phone 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? 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 SEWS Anchorage Notes: Instrument rack composed of angle iron and anchored by concrete expansion anchors and braced back to a reinforced concrete wall by structural rolled shapes. Seismic Walkdown Team: D. Carter & J. Griffith - 8/22/2012 See South CRD Bank area walk-by for further notes.

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2201-8

Equipment Class: (18) Instruments on Racks

Equipment Description: RACK, AUTO BLOWDOWN

Evaluated by:

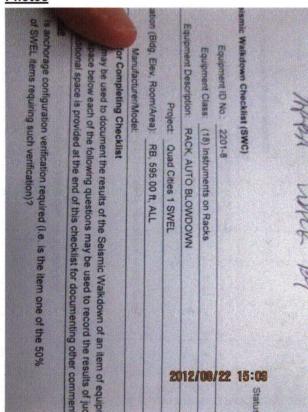
David Carter

Date: 10/4/2012

James Griffith

10/4/2012

Photos



8-22-12 Quad Cities 201



8-22-12 Quad Cities 202

Sheet 4 of 6

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2201-8

Equipment Class: (18) Instruments on Racks

Equipment Description: RACK, AUTO BLOWDOWN



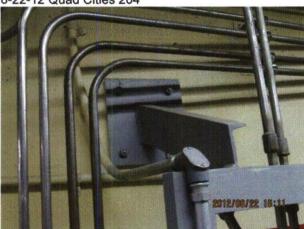
8-22-12 Quad Cities 203



8-22-12 Quad Cities 205



8-22-12 Quad Cities 204



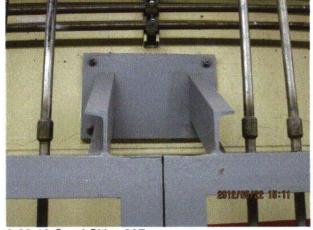
8-22-12 Quad Cities 206

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2201-8

Equipment Class: _(18) Instruments on Racks

Equipment Description: RACK, AUTO BLOWDOWN



8-22-12 Quad Cities 207



8-22-12 Quad Cities 209



8-22-12 Quad Cities 208



8-22-12 Quad Cities 210

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2201-8

Equipment Class: (18) Instruments on Racks

Equipment Description: RACK, AUTO BLOWDOWN



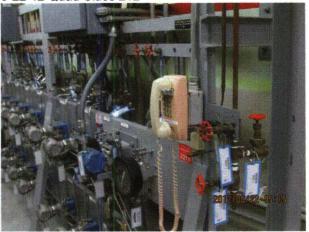
8-22-12 Quad Cities 211



8-22-12 Quad Cities 213



8-22-12 Quad Cities 212



8-22-12 Quad Cities 214

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)] N U
Equipment ID No.: 2251-10	
Equipment Class: (18) Instruments on Racks	
Equipment Description: RACK, U-1 DG RELAY & METERING	
Project: Quad Cities 1 SWEL	
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 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
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	Yes
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Yes
 Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) 	Yes
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	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.:			
• •	(18) Instruments on Racks		
	RACK, U-1 DG RELAY & METERING		
masonry block walls no	nt, distribution systems, ceiling tiles and lighting of tiles to collapse onto the equipment? I significantly significant to be acceptable.	g, and	Yes
O Do attached lines have	adoniusta flovibility to quaid domogo?		· Yes
Do attached lines have	adequate flexibility to avoid damage?		·
		•	
		,	·
	ismic interaction evaluations, is equipment free smic interaction effects?	of	Yes
			•
Other Adverse Conditions		·	
11. Have you looked for an	nd found no adverse seismic conditions that confety functions of the equipment?	uld	Yes
		. : .	
			•
Comments SEWS Anchorage Notes:			
_		•	,
one side of cabinet to edge and	One fillet weld in each of two corners (on outs gles and 1 seam weld which is entirely discount one side of tab welded to cabinet and the other	ed. The c	ther corner is anchored
.***** Seismic Walkdown Team: D. C	arter & J. Griffith - 8/21/2012		
Evaluated by: Sablat	David Carter	Date:	10/4/2012
Juns D. Affr	•		10/4/2012
	•		· .

Sheet 3 of 4

Status: Y N U

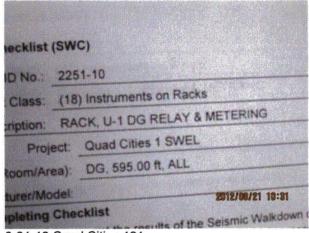
Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2251-10

Equipment Class: (18) Instruments on Racks

Equipment Description: RACK, U-1 DG RELAY & METERING

Photos



8-21-12 Quad Cities 121



8-21-12 Quad Cities 123



8-21-12 Quad Cities 122



8-21-12 Quad Cities 124

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2251-10

Equipment Class: (18) Instruments on Racks

Equipment Description: RACK, U-1 DG RELAY & METERING



8-21-12 Quad Cities 125



2012/08/21 10:33

8-21-12 Quad Cities 126

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

Seismic Walkdown Checklist (SWC)	Status: Y N U
Equipment ID No.: 2251-113	
Equipment Class: (18) Instruments on Racks	
Equipment Description: RACK, DG ENGINE CONTROL	
Project: Quad Cities 1 SWEL	
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 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
<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?	Yes
Bottom supported by brackets welded to DG skid. Top supported by bolted bracket to water expansion tank.	
	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?	Not Applicable
Mounted to DG skid.	
Woulded to DO said.	
 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	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
Equipn	nent ID No.: 2251-113	
Equip	ment Class: (18) Instruments on Racks	
Equipment l	Description: RACK, DG ENGINE CONTROL	
masonry b	ead equipment, distribution systems, ceiling tiles and lighting, and lock 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
adversely IR 14030 One panel has locatio	looked for and found no adverse seismic conditions that could affect the safety functions of the equipment?	ft .
Comments ***** Seismic Walkdown	n Team: D. Carter & J. Griffith - 8/21/2012	
Evaluated by:	Dallet David Carter David Carter David Carter	ate: 10/4/2012
	James Griffith	10/4/2012

Sheet 3 of 7

Status: Y N U

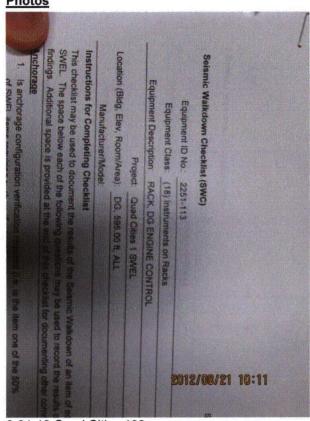
Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2251-113

Equipment Class: (18) Instruments on Racks

Equipment Description: RACK, DG ENGINE CONTROL

Photos





8-21-12 Quad Cities 103

8-21-12 Quad Cities 102

Sheet 4 of 7

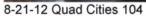
Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2251-113

Equipment Class: (18) Instruments on Racks







8-21-12 Quad Cities 105

Sheet 5 of 7

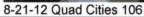
Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2251-113

Equipment Class: (18) Instruments on Racks







8-21-12 Quad Cities 107

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2251-113

Equipment Class: (18) Instruments on Racks





8-21-12 Quad Cities 109

Sheet 7 of 7

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2251-113

Equipment Class: (18) Instruments on Racks



8-21-12 Quad Cities 110

Status: Y	N U
Seismic Walkdown Checklist (SWC)	
Equipment ID No.: 2251-86	
Equipment Class: (18) Instruments on Racks	
Equipment Description: RACK	
Project: Quad Cities 1 SWEL	
Location (Bldg, Elev, Room/Area): TB, 639.00 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.	
Anchorage	
 Is anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? 	Yes
2. Is the anchorage free of bent, broken, missing or loose hardware?	Yes
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	Yes
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Yes
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	
configuration verification is required.)	
O . Decad on the above analysis with the same to the s	V
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	Yes
Interaction Effects	
7 Are soft targets free from impact by nearby equipment or structures?	Yes

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

Seismic Walkdown	Chacklist (SWC)	Status: Y N U
	ent ID No.: 2251-86	
	ent Class: _(18) Instruments on Racks	
	escription: RACK	
8. Are overhea masonry blo <i>Overhead</i>	nd equipment, distribution systems, ceiling tiles and lighting tick walls not likely to collapse onto the equipment? Sight fixtures judged to be acceptable.	
	lines have adequate flexibility to avoid damage? e above seismic interaction evaluations, is equipment free	Yes of Yes
potentially a	dverse seismic interaction effects?	
adversely at Insulated p	nditions oked for and found no adverse seismic conditions that counditions that counditions that counditions that counditions of the equipment? In the safety functions of the equipment? In the safety functions above floor touches P5500 legal exceptable.	
Comments SEWS Anchorage N	lotes:	
Relay box weighing expansion anchors.	less than 100 lbs. mounted on P5500 (Unistrut) frame and	chored by eight - 3/4" concrete
***** Seismic Walkdown	Геат: D. Carter & J. Griffith - 8/20/2012	
Evaluated by:	Daniel Carter June D. Aprill James Griffith	Date: 10/12/2012
	James Griffith	10/12/2012

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2251-86

Equipment Class: (18) Instruments on Racks

Equipment Description: RACK

Photos





8-20-12 Quad Cities 205 (2)

8-20-12 Quad Cities 205 (10)

Sheet 4 of 5

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2251-86

Equipment Class: (18) Instruments on Racks

Equipment Description: RACK



8-20-12 Quad Cities 205 (3)



8-20-12 Quad Cities 205 (6)



8-20-12 Quad Cities 205 (5)



8-20-12 Quad Cities 205 (7)

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2251-86

Equipment Class: (18) Instruments on Racks

Equipment Description: RACK





8-20-12 Quad Cities 205 (9)

8-20-12 Quad Cities 205 (8)

	Status: Y N U
Seismic Walkdown Checklist (SWC)	Otatas. [] IV
Equipment ID No.: 2251-87	
Equipment Class: (18) Instruments on Racks	
Equipment Description: RACK	
Project: Quad Cities 1 SWEL	
Location (Bldg, Elev, Room/Area): TB, 639.00 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 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)? 	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? Minor shrinkage cracking in floor 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.) 	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

Caiomia Malkda	Status: Y] N U
Seismic walkdow	vn Checklist (SWC)	
Equipn	ment ID No.: 2251-87	
Equip	oment Class: _(18) Instruments on Racks	
Equipment	Description: RACK	
	ead 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 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:	
Relay box weighin expansion anchors	ng less than 100 lbs. mounted on P5500 (Unistrut) frame anchored by eight - 3/4" concr s.	ete
***** Seismic Walkdowr	n Team: D. Carter & J. Griffith - 8/20/2012	
Evaluated by:	Date: 10/4/2012	
	James Griffith 10/4/2012	

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2251-87

Equipment Class: (18) Instruments on Racks

Equipment Description: RACK

Photos

quipment ID No.:	2251-87
Equipment Class:	(18) Instruments on Racks
ment Description	RACK
Pro	ect Quad Cities 1 SWEL
ig, Elev, Room/Ar	ea): TB 639 00 ft ALL
Manufacturer/Mo	det
for Completing	Checklist







8-20-12 Quad Cities 224 (4)

Correspondence No.: RS-12-169 Sheet 4 of 5

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2251-87

Equipment Class: (18) Instruments on Racks

Equipment Description: RACK



8-20-12 Quad Cities 224 (5)



8-20-12 Quad Cities 224 (6)

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2251-87

Equipment Class: (18) Instruments on Racks

Equipment Description: RACK



8-20-12 Quad Cities 224 (7)

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)	Status: Y N U
Equipment ID No.: 250VDC BATT 1	
Equipment Class: (15) Batteries on Racks	
•	
Equipment Description: BATTERY, 250V	
Project: Quad Cities 1 SWEL	
Location (Bldg, Elev, Room/Area): TB, 628.00 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 contains.	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
Is the anchorage free of bent, broken, missing or loose hardware? SQUG identified one missing anchor. Thorough examination of anchor determined that all the anchors are in place.	Yes
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	Yes
Is the anchorage free of visible cracks in the concrete near the anchors? Minor shrinkage cracking 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.) 	Yes
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 6

	Status: Y N U
Seismic Walkdown Checklist (SWC)	
Equipment ID No.: 250VDC BATT 1	· · · · · · · · · · · · · · · · · · ·
Equipment Class: (15) Batteries on Racks	
Equipment Description: BATTERY, 250V	•
Interaction Effects	
7. Are soft targets free from impact by nearby equipment or structures?	Yes
Softeners in place between batteries and between the batteries and racks in place to mitigate impacts.	
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
5. Bo ditaonod mico havo adequate noxibility to divid admage.	
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 SEWS Anchorage Notes:	
Each leg anchored by a single 3/8" Wedge type expansion anchor through a 3x3x1/4" clip angle that is thrubolted thru the tube leg. On one of the rack, one bolt was missing from the center leg (sixth one from either end) on the furthest back leg (third from front).	
***** Seismic Walkdown Team: D. Carter & J. Griffith - 8/20/2012	
COOMING TRANSCOMM FORMING D. CARROT & C. CHIMBIT - 0720720 12	

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 250VDC BATT 1

Equipment Class: (15) Batteries on Racks

Equipment Description: BATTERY, 250V

Evaluated by:

Saddlet David Carter

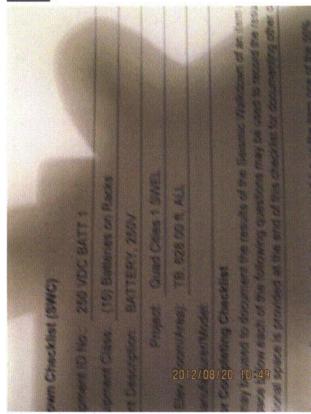
Date: 10/4/2012

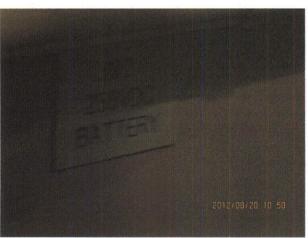
June D Appeted

James Griffith

10/4/2012

Photos





8-20-12 Quad Cities 086 (2)

8-20-12 Quad Cities 086 (1)

Sheet 4 of 6

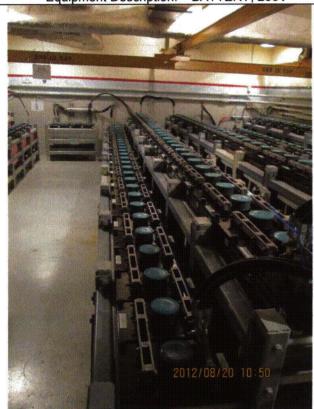
Status: Y N U

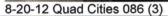
Seismic Walkdown Checklist (SWC)

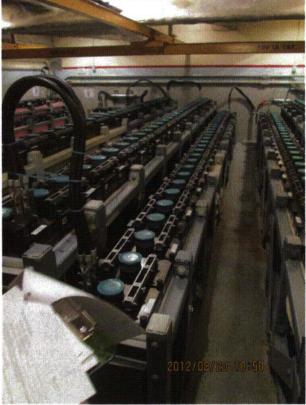
Equipment ID No.: 250VDC BATT 1

Equipment Class: (15) Batteries on Racks

Equipment Description: BATTERY, 250V







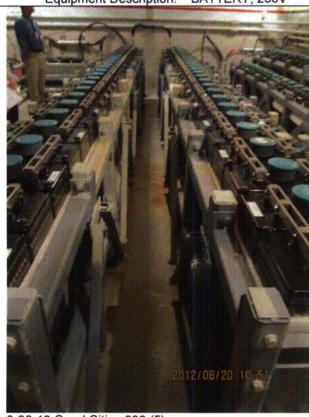
8-20-12 Quad Cities 086 (4)

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 250VDC BATT 1

Equipment Class: _(15) Batteries on Racks

Equipment Description: BATTERY, 250V





8-20-12 Quad Cities 086 (6)

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 250VDC BATT 1

Equipment Class: (15) Batteries on Racks

Equipment Description: BATTERY, 250V





8-20-12 Quad Cities 086 (8)

Status: Y	N U
Seismic Walkdown Checklist (SWC)	
Equipment ID No.: 250VDC MCC 1	
Equipment Class: (1) Motor Control Centers	
Equipment Description: MCC	
Project: Quad Cities 1 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 or SWEL. The space below each of the following questions may be used to record the results of judgment findings. Additional space is provided at the end of this checklist for documenting other comments.	n the s 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
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? Minor shrinkage cracks in the floor 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.) 	Yes
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	Yes
Interaction Effects 7. Are soft targets free from impact by nearby equipment or structures?	Yes

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
Fauinme	nt ID No ·	250VDC MCC 1			
		(1) Motor Control Centers			
Equipment De					
Equipment De	occupació.				
masonry blo	ck walls no	nt, distribution systems, ceiling tiles and lighting, an t likely to collapse onto the equipment? I judged to be acceptable.	d		Yes
to resist later	ral loads.	restrained at top indicating that the wall was design Therefore it is judged to be seismically adequate. adequate flexibility to avoid damage?	ned		Yes
		smic interaction evaluations, is equipment free of mic interaction effects?			Yes
Other Adverse Con	ditions				•
11. Have you loo	oked for an	d found no adverse seismic conditions that could ety functions of the equipment?			Yes
Comments SEWS Anchorage N	otes:	,			
Welded to embedded	d angle wit	1" long 1/4" thick fillet weld in corner of each unit.			
***** Seismic Walkdown T	Геат: D. C	arter & J. Griffith - 8/20/2012			
Evaluated by:	Da IN Pat.	David Carter [↑ James Griffith	Date: _	10/4/2012	
	Jms D. Aff	d James Griffith	_	10/4/2012	

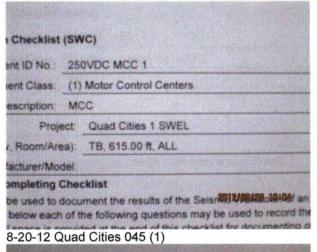
Seismic Walkdown Checklist (SWC)

Equipment ID No.: 250VDC MCC 1

Equipment Class: (1) Motor Control Centers

Equipment Description: MCC

Photos









8-20-12 Quad Cities 045 (10)



8-20-12 Quad Cities 045 (3)

Sheet 4 of 6

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 250VDC MCC 1

Equipment Class: (1) Motor Control Centers

Equipment Description: MCC





8-20-12 Quad Cities 045 (5)

8-20-12 Quad Cities 045 (4)

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 250VDC MCC 1

Equipment Class: (1) Motor Control Centers

Equipment Description: MCC





8-20-12 Quad Cities 045 (7)

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 250VDC MCC 1

Equipment Class: (1) Motor Control Centers

Equipment Description: MCC





8-20-12 Quad Cities 045 (9)

8-20-12 Quad Cities 045 (8)

Status: Seismic Walkdown Checklist (SWC)	Y N U
Equipment ID No.: 250VDC MCC 1A	
Equipment Class: (1) Motor Control Centers	
Equipment Description: MCC	
Project: Quad Cities 1 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 equipment SWEL. The space below each of the following questions may be used to record the results of judgme 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)? 	No
2. Is the anchorage free of bent, broken, missing or loose hardware?	Yes
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	Yes
Is the anchorage free of visible cracks in the concrete near the anchors?	Yes
	•
 Is the anchorage configuration consistent with plant documentation? (Note: Not / This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) 	Applicable
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	Yes
Internation Effects	
Interaction Effects 7. Are soft targets free from impact by nearby equipment or structures?	Yes

Seismic Walkdow	vn Checklist (SWC)	Status: Y N U
Equipn	nent ID No.: 250VDC MCC 1A	
Equip	ment Class: (1) Motor Control Centers	
Equipment [Description: MCC	
masonry b	ead equipment, distribution systems, ceiling tiles and lighting, and lock 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
adversely a Two door	bonditions looked for and found no adverse seismic conditions that could affect the safety functions of the equipment? as on the back of the MCC are slightly sprung. They are adequately d judged to be acceptable.	Yes
Comments ***** Seismic Walkdown	n Team: D. Carter & J. Griffith - 8/22/2012	
Evaluated by:	- DATE	10/4/2012
	James Griffith 1	10/4/2012

Sheet 3 of 5

Status: Y N U

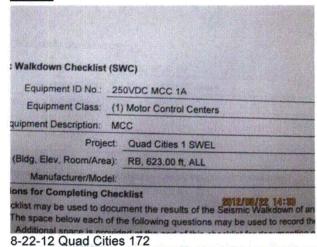
Seismic Walkdown Checklist (SWC)

Equipment ID No.: 250VDC MCC 1A

Equipment Class: (1) Motor Control Centers

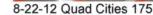
Equipment Description: MCC

Photos

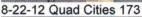












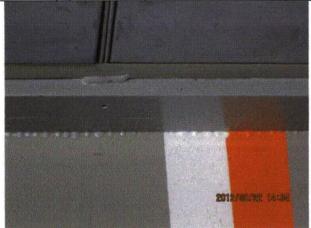


Seismic Walkdown Checklist (SWC)

Equipment ID No.: 250VDC MCC 1A

Equipment Class: (1) Motor Control Centers

Equipment Description: MCC



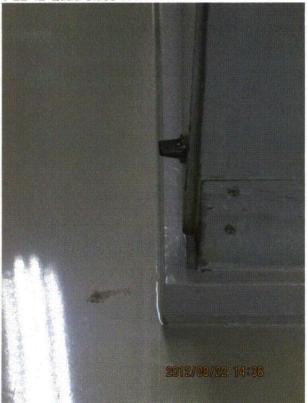
8-22-12 Quad Cities 176



8-22-12 Quad Cities 178



8-22-12 Quad Cities 177



8-22-12 Quad Cities 179

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 250VDC MCC 1A

Equipment Class: (1) Motor Control Centers

Equipment Description: MCC





8-22-12 Quad Cities 181

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

	Status: Y N U
Seismic Walkdown Checklist (SWC)	
Equipment ID No.: 901-3	
Equipment Class: (20) Instrumentation and Control Panels and Cabinets	
Equipment Description: PANEL	
Project: Quad Cities 1 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 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 en	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)? 	Yes
Is the anchorage free of bent, broken, missing or loose hardware?	Yes
Is the anchorage free of bent, broken, missing or loose hardware?	165
Is the anchorage free of corrosion that is more than mild surface oxidation?	Yes
	, 50
	•
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Yes
4. Is the anchorage nee of visible cracks in the concrete near the anchors:	103
	·
 Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage 	Yes
configuration verification is required.)	
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	Yes
Viewed 5 of 9 anchors (all in front). Remaining anchors could not be viewed	
due to cabling and limitation on access. Anchors viewed matched documentation. Thus it is reasonable to conclude that the anchors match plant	
documentation without further verification	

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

Seismi	c Walkdown Checklist	: (SWC)	Status: Y N U
	Equipment ID No.:	901-3	
	Equipment Class:	(20) Instrumentation and Control Panels and Cabinets	
ı	Equipment Description:	PANEL	
Interac	tion Effects		
7.	Are soft targets free from	om impact by nearby equipment or structures?	Yes
8 .	masonry block walls no Overhead equipment	ent, distribution systems, ceiling tiles and lighting, and of likely to collapse onto the equipment? not visible due to drop ceilings outside of cabinet and	Yes
	sheet metal ceiling insi	de.	
9.	Do attached lines have	adequate flexibility to avoid damage?	Yes
10.		eismic interaction evaluations, is equipment free of smic interaction effects?	Yes
Other A	Adverse Conditions		
11.	adversely affect the sa	nd found no adverse seismic conditions that could fety functions of the equipment? en. No adverse seismic conditions were observed.	Yes
Comm	ents	•	
SEWS	Anchorage Notes:		
		et welding and 13 plug welds attaching cabinet to base channe 2 in center and 2 on back) attaching base channel to embedde	
****		•	
Seismi	c Walkdown Team: D. C	Carter & J. Griffith - 8/20/2012	
Per Op	erations, no photos per	mitted in control room.	
			·

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

Seismic Walkdov	vn Checklist (SWC)		Status: Y N U
Equip	nent ID No.: 901-3		<u></u>
Equip	ment Class: (20) Instrum	nentation and Control Panels and Cabine	ets
Equipment	Description: PANEL		
Evaluated by:	Dallet David Carter	Da	te: _10/4/2012
	James Gri	iffith	10/4/2012
<u>Photos</u>			
		1	

Seismic Walkdown Checklist (SWC)	Status: Y N U
Equipment ID No.: 901-33	
Equipment Class: (20) Instrumentation and Control Panels and Cabinets	
Equipment Description: PANEL	
Project: Quad Cities 1 SWEL	
Location (Bldg, Elev, Room/Area): SB, 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 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.	f 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
	V
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 judged to be acceptable.	
	Van
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	Yes
configuration verification is required.)	
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 7

Seismic Walkdown Checkl	ist (SWC)	Status: Y N U
Equipment ID No		
		hinata
	s: (20) Instrumentation and Control Panels and Ca	binets
Equipment Description	n: PANEL	
Interaction Effects		v
7. Are soft targets free	from impact by nearby equipment or structures?	Yes
	lified to provide clearance to cabinet. Top of 901-33 t 1-47). Therefore, no seismic interaction concerns.	tied to
masonry block walls Overhead light fixtu conduit, unistrut, etc. therefore are accept	nent, distribution systems, ceiling tiles and lighting, a not likely to collapse onto the equipment? tres have open S-hooks. Excessive swing mitigated in Fixtures not judged to disengage from S-hooks and able. S hooks closed during walkdown. Refer to IR	by
1402669. 9. Do attached lines ha	ve adequate flexibility to avoid damage?	Yes
	seismic interaction evaluations, is equipment free of eismic interaction effects?	Yes
Other Adverse Conditions		
adversely affect the	and found no adverse seismic conditions that could safety functions of the equipment? re opened. No adverse seismic conditions were obse	Yes rved.
Comments		``
SEWS Anchorage Notes:		
30"Dx72"Wx90"H Panel and inches in from corners).	hored by 4 - 3/4" (flat-flat on bolt head) CEA shells in	corners (approximately 4

Seismic Walkdown Team: D.	Carter & J. Griffith - 8/20/2012	
Evaluated by:	David Carter	Date: 10/4/2012
Jus D. A	James Griffith	10/4/2012

Sheet 3 of 7

Status: Y N U

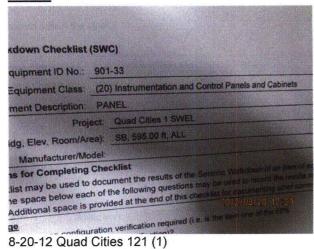
Seismic Walkdown Checklist (SWC)

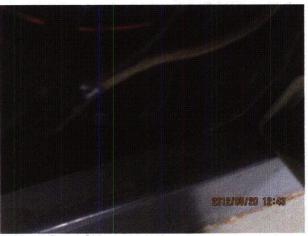
Equipment ID No.: 901-33

Equipment Class: (20) Instrumentation and Control Panels and Cabinets

Equipment Description: PANEL

Photos





8-20-12 Quad Cities 121 (10)

Sheet 4 of 7

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 901-33

Equipment Class: (20) Instrumentation and Control Panels and Cabinets

Equipment Description: PANEL





8-20-12 Quad Cities 121 (2)

8-20-12 Quad Cities 121 (11)

Sheet 5 of 7

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 901-33

Equipment Class: (20) Instrumentation and Control Panels and Cabinets



8-20-12 Quad Cities 121 (3)



8-20-12 Quad Cities 121 (4)

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 901-33

Equipment Class: (20) Instrumentation and Control Panels and Cabinets

Equipment Description: PANEL





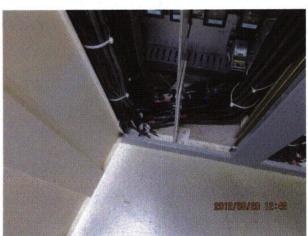
8-20-12 Quad Cities 121 (6)



8-20-12 Quad Cities 121 (5)

8-20-12 Quad Cities 121 (7)





8-20-12 Quad Cities 121 (8)

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

Sheet 7 of 7

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 901-33

Equipment Class: _(20) Instrumentation and Control Panels and Cabinets



8-20-12 Quad Cities 121 (9)

Seismic Walkdown Checklist (SWC)	Status: Y N U
Equipment ID No.: 901-39	·
Equipment Class: (20) Instrumentation and Control Panels and Cabinets	
Equipment Description: PANEL	
Project: Quad Cities 1 SWEL	
Location (Bldg, Elev, Room/Area): SB, 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	V
 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
2. In the analysis of associan that is more than mild surface evidation?	Yes
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	res
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Yes
Minor shrinkage cracking 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	165
configuration verification is required.)	
6 Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	Yes
,	
Interaction Effects	
7. Are soft targets free from impact by nearby equipment or structures?	Yes

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

Seismic Walkdown Checklis	t (SWC)	Status: Y N U
Equipment ID No.:	901-39	
Equipment Class:	(20) Instrumentation and Control Panels and Cabinets	
Equipment Description:	PANEL	
masonry block walls n Overhead light fixture conduit, unistrut, etc. I	ent, distribution systems, ceiling tiles and lighting, and ot likely to collapse onto the equipment? es have open S-hooks. Excessive swing mitigated by Fixtures not judged to disengage from S-hooks and ole. Refer to IR 1402669.	Yes
9. Do attached lines have	e adequate flexibility to avoid damage?	Yes
	eismic interaction evaluations, is equipment free of ismic interaction effects?	Yes
		·
Other Adverse Conditions		·
adversely affect the sa	nd found no adverse seismic conditions that could afety functions of the equipment? opened. No adverse seismic conditions were observed.	Yes
Comments SEWS Anchorage Notes:	· · · · · · · · · · · · · · · · · · ·	
30"Dx48"Wx90"H Panel ancho	ored by 4 - 3/4" (flat-flat on bolt head) CEA in corners.	

Seismic Walkdown Team: D. 0	Carter & J. Griffith - 8/20/2012	
Evaluated by:	David Carter Date:	10/4/2012
Jms D. Af	利 James Griffith	10/4/2012

Sheet 3 of 7

Status: Y N U

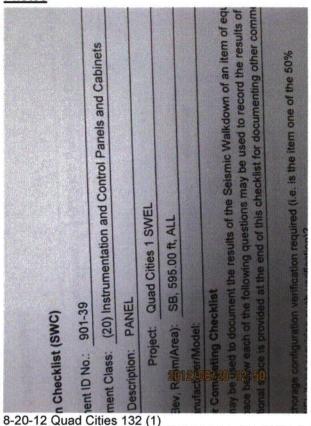
Seismic Walkdown Checklist (SWC)

Equipment ID No.: 901-39

Equipment Class: (20) Instrumentation and Control Panels and Cabinets

Equipment Description: PANEL

Photos





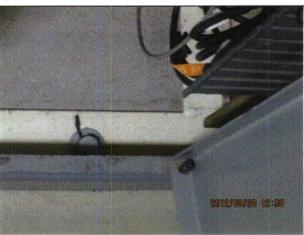
8-20-12 Quad Cities 132 (2)

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 901-39

Equipment Class: (20) Instrumentation and Control Panels and Cabinets





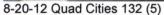
8-20-12 Quad Cities 132 (4)

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 901-39

Equipment Class: (20) Instrumentation and Control Panels and Cabinets







8-20-12 Quad Cities 132 (6)

Sheet 6 of 7

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 901-39

Equipment Class: (20) Instrumentation and Control Panels and Cabinets

Equipment Description: PANEL





8-20-12 Quad Cities 132 (8)

8-20-12 Quad Cities 132 (7)

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 901-39

Equipment Class: (20) Instrumentation and Control Panels and Cabinets



8-20-12 Quad Cities 132 (9)