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

Outroite William Collectif (1940)	Status: Y N U
Seismic Walkdown Checklist (SWC)	
Equipment ID No.: 2-5749	
Equipment Class: (10) Air Handlers	
Equipment Description: COOLER, CUBICLE - 2DG CW PMP CUB COOLER	
Project: Quad Cities 2 SWEL	
Location (Bldg, Elev, Room/Area): TB, 547.00 ft, ALL	-
Manufacturer/Model:	
Instructions for Completing Checklist	
This checklist may be used to document the results of the Seismic Walkdown of an item of e SWEL. The space below each of the following questions may be used to record the results findings. Additional space is provided at the end of this checklist for documenting other com-	of judgments and
<u>Anchorage</u>	
 Is anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? 	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
 Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) 	Not Applicable
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	Yes

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

Sajamia Walkdown Chaoklin	(CINIC)	Status: Y N U
Seismic Walkdown Checklist	(SWC)	
Equipment ID No.:	2-5749	
Equipment Class:	(10) Air Handlers	
	COOLER, CUBICLE - 2DG CW PMP CUB COOLE	R
Interaction Effects	om impact by nearby equipment or structures?	Yes
7. Are soit largets free fre	of impact by hearby equipment of structures?	·
masonry block walls no	ent, distribution systems, ceiling tiles and lighting, and of likely to collapse onto the equipment? es judged to be acceptable.	Yes
9. Do attached lines have	e adequate flexibility to avoid damage?	Yes
	eismic interaction evaluations, is equipment free of smic interaction effects?	Yes
Other Adverse Conditions	A CONTRACTOR OF THE PROPERTY O	
11. Have you looked for a	nd found no adverse seismic conditions that could fety functions of the equipment?	Yes
Comments		
Seismic Walkdown Team: J. G	riffith & M. Wodarcyk - 8/8/2012	
Evaluated by:	James Griffith Da	ate: 10/4/2012
Mishael	Michael Wodarcyk	10/4/2012

Sheet 3 of 8

Status: Y N U

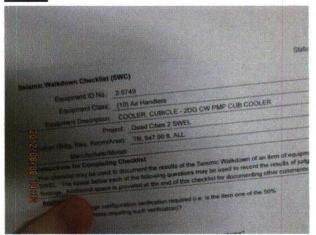
Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2-5749

Equipment Class: (10) Air Handlers

Equipment Description: COOLER, CUBICLE - 2DG CW PMP CUB COOLER

Photos



20120808-QuadCities-2 400



20120808-QuadCities-2 402



20120808-QuadCities-2 401



20120808-QuadCities-2 403

Seismic Walkdown Checklist (SWC)

Equipment ID No.: _2-5749

Equipment Class: (10) Air Handlers



20120808-QuadCities-2 404



20120808-QuadCities-2 406



20120808-QuadCities-2 405



20120808-QuadCities-2 407

Sheet 5 of 8

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2-5749

Equipment Class: (10) Air Handlers



20120808-QuadCities-2 408



20120808-QuadCities-2 410



20120808-QuadCities-2 409



20120808-QuadCities-2 411

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2-5749

Equipment Class: (10) Air Handlers



20120808-QuadCities-2 412



20120808-QuadCities-2 414



20120808-QuadCities-2 413



20120808-QuadCities-2 415

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2-5749

Equipment Class: (10) Air Handlers



20120808-QuadCities-2 416



20120808-QuadCities-2 417



20120808-QuadCities-2 418



20120808-QuadCities-2 419

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2-5749

Equipment Class: (10) Air Handlers



20120808-QuadCities-2 420



20120808-QuadCities-2 421



20120808-QuadCities-2 422



20120808-QuadCities-2 423

Quad Cities Generating Station Unit 2 12Q0108.40-R-002, Rev. 3 Correspondence No.: RS-12-169 Sheet 1 of 9

Seismic Walkdown Checklist (SWC)	Status: Y N U
·	
Equipment ID No.: 2-6705-23-1	
Equipment Class: (3) Medium Voltage Switchgear	
Equipment Description: SWGR 23-1	
Project: Quad Cities 2 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 com	of judgments and
<u>Anchorage</u>	
 Is anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? 	No
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 in floor and wall judged to be acceptable.	
 Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) 	Not Applicable
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	Yes

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

Seismic Walkdown Checklist (SWC)	Status: Y N U
Equipment ID No.: 2-6705-23-1	
Equipment Class: (3) Medium Voltage Switchgear	
Equipment Description: SWGR 23-1	
Interaction Effects	,
7. Are soft targets free from impact by nearby equipment or structures?	Yes
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and	Yes
masonry block walls not likely to collapse onto the equipment? Overhead light fixtures judged to be acceptable. Masonry wall in vicinity	
restrained at top and judged to be acceptable. Wasonly wan in vicinity	
9. Do attached lines have adequate flexibility to avoid damage?	Yes
10. Based on the above seismic interaction evaluations, is equipment free of	Yes
potentially adverse seismic interaction effects?	
Other Adverse Conditions 11. Have you looked for and found no adverse seismic conditions that could	Yes
adversely affect the safety functions of the equipment?	165
	•
Comments	
Seismic Walkdown Team: J. Griffith & M. Wodarcyk - 8/7/2012	
n setti	
Evaluated by: James Griffith Date:	10/4/2012
Evaluated by: James Griffith Date:	
Michael Wodarcyk	10/4/2012

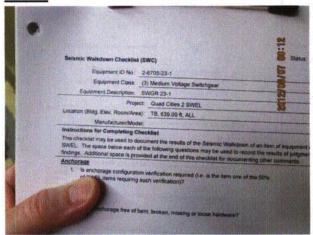
Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2-6705-23-1

Equipment Class: (3) Medium Voltage Switchgear

Equipment Description: SWGR 23-1

Photos



20120807-QuadCities-2 001



4KV BUS
BUS 23-1

REMEMBER!
BLOCK
ALL BREAKE SECTION OF THAT ARE OUT

20120807-QuadCities-2 002



20120807-QuadCities-2 004

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2-6705-23-1

Equipment Class: (3) Medium Voltage Switchgear



20120807-QuadCities-2 005



20120807-QuadCities-2 007



20120807-QuadCities-2 006



20120807-QuadCities-2 008

Sheet 5 of 9

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2-6705-23-1

Equipment Class: (3) Medium Voltage Switchgear



20120807-QuadCities-2 009



20120807-QuadCities-2 011



20120807-QuadCities-2 010



20120807-QuadCities-2 012

Sheet 6 of 9

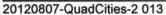
Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2-6705-23-1

Equipment Class: (3) Medium Voltage Switchgear







20120807-QuadCities-2 015



20120807-QuadCities-2 014



20120807-QuadCities-2 016

Sheet 7 of 9

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2-6705-23-1

Equipment Class: (3) Medium Voltage Switchgear



20120807-QuadCities-2 017



20120807-QuadCities-2 019



20120807-QuadCities-2 018



20120807-QuadCities-2 020

Sheet 8 of 9

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2-6705-23-1

Equipment Class: (3) Medium Voltage Switchgear



20120807-QuadCities-2 021



20120807-QuadCities-2 023



20120807-QuadCities-2 022



20120807-QuadCities-2 024

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

Sheet 9 of 9

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2-6705-23-1

Equipment Class: (3) Medium Voltage Switchgear



20120807-QuadCities-2 025

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

Status: Y N U Seismic Walkdown Checklist (SWC)
Equipment ID No.: 2-7100
Equipment Class: _(4) Transformers
Equipment Description: TRANSFORMER T28 4160V-480V
Project: Quad Cities 2 SWEL
Location (Bldg, Elev, Room/Area): _TB, 647.50 ft, ALL
Manufacturer/Model:
Instructions for Completing Checklist
This checklist may be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.
<u>Anchorage</u>
 Is anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?
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 Minor shrinkage cracks in floor judged to be acceptable.
 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 potentially adverse seismic conditions?

Correspondence No.: RS-12-169 Sheet 2 of 8

Status: Y N U Seismic Walkdown Checklist (SWC) Equipment ID No.: 2-7100 Equipment Class: (4) Transformers Equipment Description: TRANSFORMER T28 4160V-480V **Interaction Effects** 7. Are soft targets free from impact by nearby equipment or structures? Yes 8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and Yes masonry block walls not likely to collapse onto the equipment? Yes 9. Do attached lines have adequate flexibility to avoid damage? 10. Based on the above seismic interaction evaluations, is equipment free of Yes potentially adverse seismic interaction effects? **Other Adverse Conditions** Have you looked for and found no adverse seismic conditions that could Yes adversely affect the safety functions of the equipment? Comments Seismic Walkdown Team: J. Griffith & M. Wodarcyk - 8/6/2012 Transformer has been replaced since SQUG walkdown. James Griffith Evaluated by: Date: 10/4/2012 Michael Wodarcyk 10/4/2012

Sheet 3 of 8

Status: Y N U

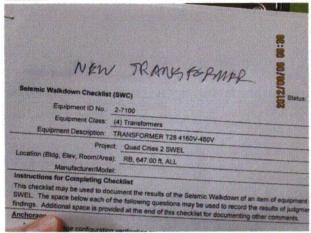
Seismic Walkdown Checklist (SWC)

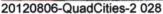
Equipment ID No.: 2-7100

Equipment Class: (4) Transformers

Equipment Description: TRANSFORMER T28 4160V-480V

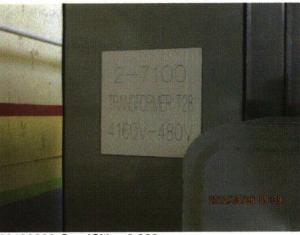
Photos



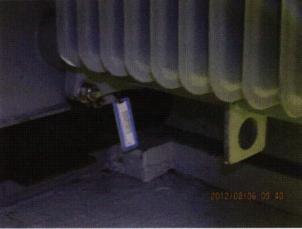




20120806-QuadCities-2 030



20120806-QuadCities-2 029



20120806-QuadCities-2 031

Sheet 4 of 8

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2-7100

Equipment Class: (4) Transformers



20120806-QuadCities-2 032



20120806-QuadCities-2 034



20120806-QuadCities-2 033



20120806-QuadCities-2 035

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2-7100

Equipment Class: (4) Transformers



20120806-QuadCities-2 036



20120806-QuadCities-2 038



20120806-QuadCities-2 037



20120806-QuadCities-2 039

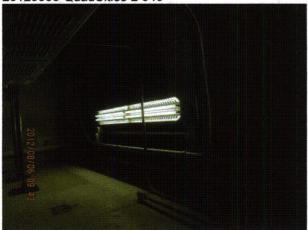
Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2-7100

Equipment Class: (4) Transformers



20120806-QuadCities-2 040



20120806-QuadCities-2 042



20120806-QuadCities-2 041



20120806-QuadCities-2 043

Sheet 7 of 8

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2-7100

Equipment Class: (4) Transformers



20120806-QuadCities-2 044



20120806-QuadCities-2 046



20120806-QuadCities-2 045



20120806-QuadCities-2 047

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

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2-7100

Equipment Class: (4) Transformers



20120806-QuadCities-2 048

Status: Y Seismic Walkdown Checklist (SWC)	N U
Equipment ID No.: 2-7100-28	
Equipment Class: (2) Low Voltage Switchgear	
Equipment Description: SWGR 28	
Project: Quad Cities 2 SWEL	
Location (Bldg, Elev, Room/Area): TB, 647.50 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 th SWEL. The space below each of the following questions may be used to record the results of judgments at findings. Additional space is provided at the end of this checklist for documenting other comments.	
 Anchorage 1. Is anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? 	Yes
2. Is the anchorage free of bent, broken, missing or loose hardware?	Yes
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	Yes
Is the anchorage free of visible cracks in the concrete near the anchors? 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.) Anchorage is shown on drawings 4E-2054A, Rev. I and 4E-2054D, Rev. G. 	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 2 12Q0108.40-R-002, Rev. 3 Correspondence No.: RS-12-169 Sheet 2 of 13

Seismic Walkdown Checklist (SWC)	Status: Y N U
Equipment ID No.: 2-7100-28	
Equipment Class: (2) Low Voltage Switchgear	
Equipment Description: SWGR 28	
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? Trolley on top of switchgear free to roll; not pinned against movement. Trolley place in middle of switchgear away from end stops to mitigate vibration effects due to hitting stop. See IR 1397866.	Yes
Comments Seismic Walkdown Team: J. Griffith & M. Wodarcyk - 8/6/2012 K. Hall & J. Kim - 9/17/2012	
Evaluated by: J. Griffith Das D. Aprill M. Wodarcyk M. Wodarcyk	Date: 10/4/12
Kevin Hall Julie Kim Julie Bini	10/5/12

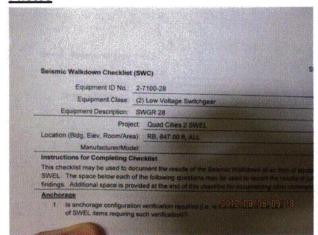
Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2-7100-28

Equipment Class: (2) Low Voltage Switchgear

Equipment Description: SWGR 28

Photos



20120806-QuadCities-2 001



20120806-QuadCities-2 003



20120806-QuadCities-2 002



20120806-QuadCities-2 004

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2-7100-28

Equipment Class: (2) Low Voltage Switchgear



20120806-QuadCities-2 005



20120806-QuadCities-2 007



20120806-QuadCities-2 006



20120806-QuadCities-2 008

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2-7100-28

Equipment Class: (2) Low Voltage Switchgear



20120806-QuadCities-2 009



20120806-QuadCities-2 011



20120806-QuadCities-2 010



20120806-QuadCities-2 012

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2-7100-28

Equipment Class: (2) Low Voltage Switchgear



20120806-QuadCities-2 013



20120806-QuadCities-2 015



20120806-QuadCities-2 014



20120806-QuadCities-2 016

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2-7100-28

Equipment Class: (2) Low Voltage Switchgear



20120806-QuadCities-2 017



20120806-QuadCities-2 019



20120806-QuadCities-2 018



20120806-QuadCities-2 020

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2-7100-28

Equipment Class: (2) Low Voltage Switchgear



20120806-QuadCities-2 021



20120806-QuadCities-2 023



20120806-QuadCities-2 022



20120806-QuadCities-2 024

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2-7100-28

Equipment Class: (2) Low Voltage Switchgear



20120806-QuadCities-2 025



20120806-QuadCities-2 027



20120806-QuadCities-2 026



MG_7242

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2-7100-28

Equipment Class: (2) Low Voltage Switchgear

Equipment Description: SWGR 28









MG_7245

MG_7246

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2-7100-28

Equipment Class: (2) Low Voltage Switchgear









MG_7249

MG_7251

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2-7100-28

Equipment Class: (2) Low Voltage Switchgear

Equipment Description: SWGR 28









MG_7254

MG_7255

Sheet 13 of 13

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2-7100-28

Equipment Class: (2) Low Voltage Switchgear

