Seismic Walkdown Check	list (SWC)	Status: Y N U
Equipment ID No	o.: 1PI-0633	·
Equipment Clas	ss: (18) Instruments on Racks	
Equipment Description	on: SPENT FUEL PIT PUMP SUCTION PRESSURE INDICATOR)
Р	Project: Byron 1 SWEL	
Location (Bldg, Elev, Room/	/Area): FH, 401.00 ft, ALL	
Manufacturer/l	Model:	
Instructions for Completin	ng Checklist	
SWEL. The space below ea	to document the results of the Seismic Walkdown of an item of e ach of the following questions may be used to record the results of s provided at the end of this checklist for documenting other com	of judgments and
Anchorage		
-	juration verification required (i.e., is the item one of the 50% uiring such verification)?	No
2. Is the anchorage fre	ee of bent, broken, missing or loose hardware?	Not Applicable
3. Is the anchorage fre	ee of corrosion that is more than mild surface oxidation?	Not Applicable
4. Is the anchorage fre	ee of visible cracks in the concrete near the anchors?	Not Applicable
-	onfiguration consistent with plant documentation? (Note: applies if the item is one of the 50% for which an anchorage ation is required.)	Not Applicable
potentially adverse s	rely attached to rack that is anchored to seismic block wall	Yes

Correspondence No.: RS-12-161

Sheet 2 of 3

Status: Y Seismic Walkdown Checklist (SWC) Equipment ID No.: 1PI-0633 Equipment Class: (18) Instruments on Racks Equipment Description: SPENT FUEL PIT PUMP SUCTION PRESSURE INDICATO **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? Masonry walls are seismic and would not collapse on equipment 9. Do attached lines have adequate flexibility to avoid damage? Yes 10. Based on the above seismic interaction evaluations, is equipment free of Yes potentially adverse seismic interaction effects? Other Adverse Conditions 11. 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 M. Delaney & P. Gazda 8/9/12 am Evaluated by: Marlene Delaney Date: 10/5/2012 Philip Gazda 10/5/2012

Sheet 3 of 3

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 1PI-0633

Equipment Class: (18) Instruments on Racks

Equipment Description: SPENT FUEL PIT PUMP SUCTION PRESSURE INDICATO

Photos
None.

Seismic Walkdown Checklist (SWC)	us: Y N U
Equipment ID No.: 1PL08J	
Equipment Class: (20) Instrumentation and Control Panels and Cabinets	
Equipment Description: 1B DG CONTROL PANEL	
Project: Byron 1 SWEL	
Location (Bldg, Elev, Room/Area): Auxiliary, 401.00 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 equipm SWEL. The space below each of the following questions may be used to record the results of judg findings. Additional space is provided at the end of this checklist for documenting other comments	gments 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: Note: Note:	Not Applicable
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Welded at base - weld spacing typical to other similar components and judged acceptable	Yes

Seism	ic Walkdown Checklis	(SWC)	Status: Y N U
	Equipment ID No.:	1PL08J	
		(20) Instrumentation and Control Panels and Cabinets	
	Equipment Description:	1B DG CONTROL PANEL	
Intera	ction Effects		
7.	Are soft targets free fro	om impact by nearby equipment or structures?	Yes
8.		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
10.		eismic interaction evaluations, is equipment free of smic interaction effects?	Yes
Other	Adverse Conditions		
	Have you looked for ar	nd found no adverse seismic conditions that could fety functions of the equipment?	Yes
<u>Comm</u> Seismi		laney & P. Gazda 8/7/12 pm	
Evalua	ited by:	Inch	10/5/2012

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 1PL08J

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

Equipment Description: 1B DG CONTROL PANEL







1PL08J Byron 1 & 2 210

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 1PL08J

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

Equipment Description: 1B DG CONTROL PANEL



Seismic Walkdown Checklist (SWC)	s: Y N U
Equipment ID No.: 1PM05J	
Equipment Class: (20) Instrumentation and Control Panels and Cabinets	
Equipment Description: MAIN CONTROL BOARD	
Project: Byron 1 SWEL	
Location (Bldg, Elev, Room/Area): Auxiliary, 451.00 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 equipm SWEL. The space below each of the following questions may be used to record the results of judg findings. Additional space is provided at the end of this checklist for documenting other comments	ments 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?	Yes
5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) Drawing 6E-0-3391AN Revision F Floor is carpeted but could see/touch weld through carpeting. Front of panel	Yes
not visible. Interior not visible due to fireproofing. Anchorage is judged acceptable based on quality of weld verified. 6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	Yes

Seismic V	Valkdown Checklist	(SWC)	Status: Y N U
Ocisinio V			
	Equipment ID No.:	<u> </u>	
		(20) Instrumentation and Control Panels and Cabinets	
	ipment Description:	MAIN CONTROL BOARD	
Interactio 7. Ar		n impact by nearby equipment or structures?	Yes
7. 7	c son targets nee no	in impact by ricarby equipment or structures:	163
8. Ar	e overheed equinme	nt, distribution systems, ceiling tiles and lighting, and	Yes
		t likely to collapse onto the equipment?	103
	-	smic and would not collapse on equipment	
		R03-070 Rev 0 was generated to evaluate the ceiling panels would not fall during a seismic event.	
9. Do	attached lines have	adequate flexibility to avoid damage?	Yes
,			
10. Ba	and on the above on	smic interaction evaluations, is equipment free of	Yes
		mic interaction evaluations, is equipment nee of	165
Other Adv	verse Conditions		
		d found no adverse seismic conditions that could	Yes
		ety functions of the equipment? If back were tightened by equipment operator.	
_	ioodo ouromo un parre	, saon were agmented by equipment operation	
Comment	-		
Seismic w	alkdown team M. Del	aney & P. Gazda 8/6/12 am	
	Marles	L M Delanes	
	V.	e M Selany	
Evaluated	by:	Marlene Delaney Date: 10	/5/2012
	0.	h L	
	6.0.	Philip Gazda 10	/5/2012
			. —

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 1PM05J

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

Equipment Description: MAIN CONTROL BOARD



1PM05J (AWB CABINETS OK) Byron 1 & 2 009



1PM05J (AWB CRACKED CEILING TILE) Byron 1 & 2010



1PM05J Byron 1 & 2 008

Saigmia Malkdawa Chacktia	A (CINC)	Status: Y N U
Seismic Walkdown Checklis		•
Equipment ID No.:		
Equipment Class:	(18) Instruments on Racks	
Equipment Description:	S/G LOOP 1A STM PRESS XMTTR	
Proj	ect: Byron 1 SWEL	
Location (Bldg, Elev, Room/Ar	ea): Auxiliary, 377.00 ft, ALL	
Manufacturer/Mo	del:	
Instructions for Completing	Checklist	
SWEL. The space below each	document the results of the Seismic Walkdown of an item of of the following questions may be used to record the result rovided at the end of this checklist for documenting other co	s of judgments and
<u>Anchorage</u>	·	
 Is anchorage configuration of SWEL items requiring 	ation verification required (i.e., is the item one of the 50% and 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
_	guration consistent with plant documentation? (Note: lies if the item is one of the 50% for which an anchorage on is required.)	Not Applicable
potentially adverse sei	nchorage evaluations, is the anchorage free of smic conditions? nounted on well-supported rack.	Yes

Byron Generating Station Unit 1 12Q0108.20-R-001 Rev. 1

Correspondence No.: RS-12-161 Sheet 2 of 3

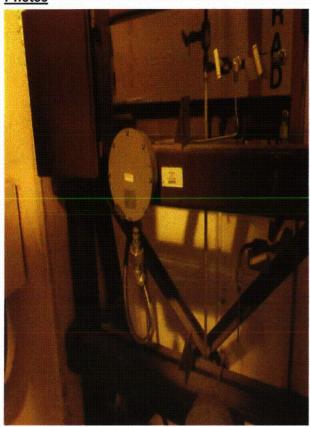
Status: Y N U Seismic Walkdown Checklist (SWC) Equipment ID No.: 1PT-0516 Equipment Class: (18) Instruments on Racks Equipment Description: S/G LOOP 1A STM PRESS XMTTR **Interaction Effects** 7. Are soft targets free from impact by nearby equipment or structures? Yes 8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and Yes masonry block walls not likely to collapse onto the equipment? 9. Do attached lines have adequate flexibility to avoid damage? Yes 10. Based on the above seismic interaction evaluations, is equipment free of Yes potentially adverse seismic interaction effects? **Other Adverse Conditions** Have you looked for and found no adverse seismic conditions that could Yes adversely affect the safety functions of the equipment? Comments Seismic walkdown team M. Delaney & P. Gazda 8/7/12 am O.O. Mych Marlene Delaney Evaluated by: Date: 10/5/2012 Philip Gazda 10/5/2012

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 1PT-0516

Equipment Class: (18) Instruments on Racks

Equipment Description: S/G LOOP 1A STM PRESS XMTTR



1PT-0516 Byron 1 & 2 163

Byron Generating Station Unit 1 12Q0108.20-R-001 Rev. 1

Correspondence No.: RS-12-161

Sheet 1 of 4

Status: Y N U Seismic Walkdown Checklist (SWC) Equipment ID No.: 1RD05E Equipment Class: (20) Instrumentation and Control Panels and Cabinets Equipment Description: REACTOR TRIP SWITCHGEAR Project: Byron 1 SWEL Location (Bldg, Elev, Room/Area): Auxiliary, 451.00 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 Yes 3. Is the anchorage free of corrosion that is more than mild surface oxidation? 4. Is the anchorage free of visible cracks in the concrete near the anchors? Yes Minor shrinkage cracking in floor 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 configuration verification is required.) Anchorage shown on drawing 6E-0-3391D, Rev. AC. 6. Based on the above anchorage evaluations, is the anchorage free of Yes potentially adverse seismic conditions? All cubicle doors opened. All anchorages observed (front, middle, and rear plug welds).

Correspondence No.: RS-12-161

Sheet 2 of 4

Status: Y N U Seismic Walkdown Checklist (SWC) Equipment ID No.: 1RD05E Equipment Class: (20) Instrumentation and Control Panels and Cabinets Equipment Description: REACTOR TRIP SWITCHGEAR Interaction Effects 7. Are soft targets free from impact by nearby equipment or structures? Yes Bottom of south side, west door at hinge end is slightly sprung. Door is adequately latched, therefore there is no seismic concern. 1RD05E is bolted to adjacent panel 1RD03E to eliminate spatial interaction issues during a seismic event. 8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and Yes masonry block walls not likely to collapse onto the equipment? Masonry wall west of switchgear is adequately restrained and seismic - would not collapse on equipment. Do attached lines have adequate flexibility to avoid damage? Yes 10. Based on the above seismic interaction evaluations, is equipment free of Yes potentially adverse seismic interaction effects? **Other Adverse Conditions** Have you looked for and found no adverse seismic conditions that could Yes adversely affect the safety functions of the equipment? All cubicle doors opened. No adverse seismic conditions observed. Comments Seismic Walkdown Team: P. Gazda & J. Griffith - 9/19/2012 Evaluated by: Date: 10/5/2012 Philip Gazda 10/5/2012

Status: Y

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 1RD05E

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

Equipment Description: REACTOR TRIP SWITCHGEAR





1RD05E BYRON 023

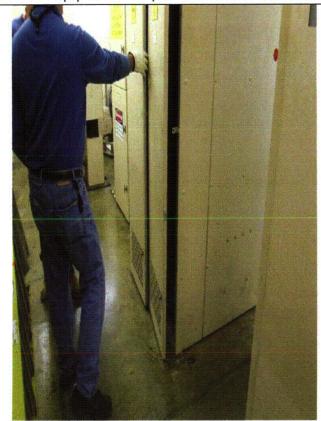
1RD05E BYRON 024

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 1RD05E

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

Equipment Description: REACTOR TRIP SWITCHGEAR





1RD05E BYRON 025

1RD05E BYRON 026

Sta Seismic Walkdown Checklist (SWC)	atus: Y N U
Equipment ID No.: 1RH01PB	
Equipment Class: (6) Vertical Pumps	
Equipment Description: PUMP,1B RESIDUAL HEAT REMOVAL ASMBLY	
Project: Byron 1 SWEL	
Location (Bldg, Elev, Room/Area): Auxiliary, 364.00 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 equip SWEL. The space below each of the following questions may be used to record the results of judings. Additional space is provided at the end of this checklist for documenting other commen	dgments and
<u>Anchorage</u>	
 Is anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? 	Yes
2. Is the anchorage free of bent, broken, missing or loose hardware?	Yes
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	Yes
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Yes
Crack in grout at 2 bolts. Bolts are embedded in pier where there are no cracks. Not a structural/seismic issue - acceptable. IR 1403131 was written to document condition.	
 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.) Drawing M-1219 Sheet 2 Revision AC Detail 9 	Yes
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	Yes

Byron Generating Station Unit 1 12Q0108.20-R-001 Rev. 1

Correspondence No.: RS-12-161

Sheet 2 of 3

Status: Seismic Walkdown Checklist (SWC) Equipment ID No.: 1RH01PB Equipment Class: (6) Vertical Pumps Equipment Description: PUMP,1B RESIDUAL HEAT REMOVAL ASMBLY **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? 9. Do attached lines have adequate flexibility to avoid damage? Yes 10. Based on the above seismic interaction evaluations, is equipment free of Yes potentially adverse seismic interaction effects? Other Adverse Conditions Have you looked for and found no adverse seismic conditions that could Yes adversely affect the safety functions of the equipment? Boric acid on bolts. Not a structural/seismic issue. IR 1403165 written. Comments Seismic walkdown team M. Delaney & P. Gazda 8/21/12 pm Evaluated by: Marlene Delaney Date: 10/5/2012

10/5/2012

Seismic Walkdown Checklist	(SWC)	Status: Y N U
Equipment ID No.:	1RH01PB	
Equipment Class:	(6) Vertical Pumps	
Equipment Description:	PUMP,1B RESIDUAL HEAT REMOVAL ASMBLY	
<u>Photos</u>		
None.		

Correspondence No.: RS-12-161 Sheet 1 of 3

Status: Y N U Seismic Walkdown Checklist (SWC) Equipment ID No.: 1RH01PB-A Equipment Class: (21) Tanks and Heat Exchangers Equipment Description: RH PUMP 1B SEAL COOLER Project: Byron 1 SWEL Location (Bldg, Elev, Room/Area): Auxiliary, 346.00 ft, ALL Manufacturer/Model: **Instructions for Completing Checklist** This checklist may be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments. Anchorage 1. Is anchorage configuration verification required (i.e., is the item one of the 50% No of SWEL items requiring such verification)? 2. Is the anchorage free of bent, broken, missing or loose hardware? Not Applicable 3. Is the anchorage free of corrosion that is more than mild surface oxidation? Not Applicable Not Applicable 4. Is the anchorage free of visible cracks in the concrete near the anchors? 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? Securely mounted to pump

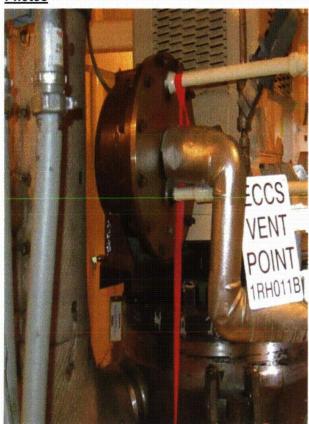
Seismic Walkdown Checklist	(SWC)	Status: Y N U
Equipment ID No.:		
•	(21) Tanks and Heat Exchangers	
	RH PUMP 1B SEAL COOLER	
Interaction Effects		
7. Are soft targets free from	m impact by nearby equipment or structures?	Yes
	nt, distribution systems, ceiling tiles and lighting, and tilkely to collapse onto the equipment?	Yes
9. Do attached lines have	adequate flexibility to avoid damage?	Yes
	ismic interaction evaluations, is equipment free of mic interaction effects?	Yes
	d found no adverse seismic conditions that could ety functions of the equipment?	Yes
Comments Seismic walkdown team M. Dela	aney & P. Gazda 8/21/12 pm	
Evaluated by:	Marlene Delaney Date: Mysh Philip Gazda	10/5/2012

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 1RH01PB-A

Equipment Class: (21) Tanks and Heat Exchangers

Equipment Description: RH PUMP 1B SEAL COOLER



1RH01PB-A Byron 1 & 2 8-21-12 035

Seismic Walkdown Checklist (SW	(C)	Status: Y N U
Equipment ID No.: 1RI	H607	
Equipment Class: (7)		
• • • • • • • • • • • • • • • • • • • •	SIDUAL HEAT REMOVAL HX 1B FLOW CONT VLV ASI	MBLY; 8"
Project:	Byron 1 SWEL	· · · · · · · · · · · · · · · · · · ·
Location (Bldg, Elev, Room/Area):	Auxiliary, 357.00 ft, ALL	
Manufacturer/Model:		
Instructions for Completing Chec	klist	
SWEL. The space below each of th	ment the results of the Seismic Walkdown of an item of ea e following questions may be used to record the results o ed at the end of this checklist for documenting other comm	of judgments and
Anchorage		
Is anchorage configuration of SWEL items requiring such	verification required (i.e., is the item one of the 50% ch verification)?	No
2. Is the anchorage free of ber	nt, broken, missing or loose hardware?	Not Applicable
3. Is the anchorage free of cor	rosion that is more than mild surface oxidation?	Not Applicable
4. Is the anchorage free of vis	ible cracks in the concrete near the anchors?	Not Applicable
•	ion consistent with plant documentation? (Note: f the item is one of the 50% for which an anchorage required.)	Not Applicable
Based on the above anchor potentially adverse seismic	age evaluations, is the anchorage free of conditions?	Yes

Byron Generating Station Unit 1 12Q0108.20-R-001 Rev. 1

Correspondence No.: RS-12-161

Sheet 2 of 3

Status: Seismic Walkdown Checklist (SWC) Equipment ID No.: 1RH607 Equipment Class: (7) Fluid-Operated Valves Equipment Description: RESIDUAL HEAT REMOVAL HX 1B FLOW CONT VLV ASMBLY; 8" **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? 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? No structural/seismic issues Comments Seismic walkdown team M. Delaney & P. Gazda 8-21-12 am Evaluated by: Marlene Delaney Date: 10/5/2012 10/5/2012

Sheet 3 of 3

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 1RH607

Equipment Class: (7) Fluid-Operated Valves

Equipment Description: RESIDUAL HEAT REMOVAL HX 1B FLOW CONT VLV ASMBLY; 8"



1RH607 Byron 1 & 2 8-21-12 010

Status: Y N U

	Seismic Walkdown Checklist (SWC)	
•	Equipment ID No.: 1RH8702A	
	Equipment Class: (8) Motor-Operated and Solenoid-Operated Valves	
	Equipment Description: RC LOOP 1C TO RH PMP 1B SUCT ISOL VLV ASMBLY; 1	2"
	Project: Byron 1 SWEL	
	Location (Bldg, Elev, Room/Area): Cont, 377.00 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 ed 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 comme	of judgments and
	Anchorage	
	 Is anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? 	No
	2. Is the anchorage free of bent, broken, missing or loose hardware?	Not Applicable
	3. Is the anchorage free of corrosion that is more than mild surface oxidation?	Not Applicable
	4. Is the anchorage free of visible cracks in the concrete near the anchors?	Not Applicable
	 Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) 	Not Applicable
	6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	Yes

Seismic Walkdown Checkli	st (SWC)	Status: Y N U
Equipment ID No	: 1RH8702A	
Equipment Class	(8) Motor-Operated and Solenoid-Operated Valves	
Equipment Description	RC LOOP 1C TO RH PMP 1B SUCT ISOL VLV ASMBLY;	12"
Interaction Effects		
7. Are soft targets free f	rom impact by nearby equipment or structures?	Yes
masonry block walls	nent, distribution systems, ceiling tiles and lighting, and not likely to collapse onto the equipment? is adequately restrained in accordance with Exelon	Yes
Scaffold Procedure	to datequately restrained in assortance with Excion	
9. Do attached lines ha	ve adequate flexibility to avoid damage?	Yes
potentially adverse s	seismic interaction evaluations, is equipment free of eismic interaction effects?	Yes
Other Adverse Conditions		
-	and found no adverse seismic conditions that could safety functions of the equipment?	Yes
		.*
Comments		
Seismic Walkdown Team: P.	Gazda & J. Griffith - 9/19/2012	
Evaluated by:	James Griffith Date: 10	0/5/2012
G.6	James Griffith Date: 10 Philip Gazda Date: 10	0/5/2012

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 1RH8702A

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

Equipment Description: RC LOOP 1C TO RH PMP 1B SUCT ISOL VLV ASMBLY; 12"





1RH8702A BYRON 019

1RH8702A BYRON 020

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 1RH8702A

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

Equipment Description: RC LOOP 1C TO RH PMP 1B SUCT ISOL VLV ASMBLY; 12"



1RH8702A BYRON 021

Status: Y N Seismic Walkdown Checklist (SWC)	U
Equipment ID No.: 1RY32MA	
Equipment Class: (21) Tanks and Heat Exchangers	_
Equipment Description: PORV ACCUMULATOR 1A	
Project: Byron 1 SWEL	
Location (Bldg, Elev, Room/Area): Cont, 426.00 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 Company of the Company of	
 Is anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? 	0
2. Is the anchorage free of bent, broken, missing or loose hardware?	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?	s
 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.) 	е
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Tank anchorage consists of pipe trunnions welded to embedded plates on pressurizer coffin wall and is judged acceptable.	s

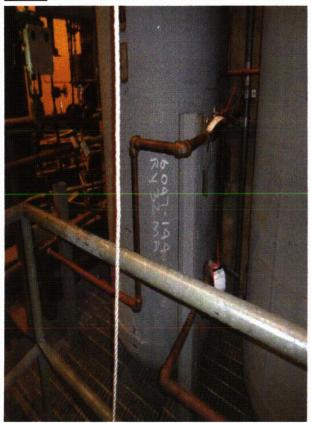
Seismic Walkdown Checklist	(SWC)	Status: Y N U		
Equipment ID No.:				
	(21) Tanks and Heat Exchangers			
• • • •	PORV ACCUMULATOR 1A			
Interaction Effects	PORV ACCOMOLATOR IA	•		
	m impact by nearby equipment or structures?	Yes		
	nt, distribution systems, ceiling tiles and lighting, and tilkely to collapse onto the equipment?	d Yes		
9. Do attached lines have	adequate flexibility to avoid damage?	Yes		
	eismic interaction evaluations, is equipment free of smic interaction effects?	Yes		
Other Adverse Conditions				
11. Have you looked for an	nd found no adverse seismic conditions that could fety functions of the equipment?	Yes		
Comments				
Seismic Walkdown Team: P. G	azda & J. Griffith - 9/19/2012			
Evaluated by: $\frac{\partial^{n} D}{\partial u}$	James Griffith D	10/5/2012 10/5/2012		
	•			

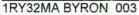
Seismic Walkdown Checklist (SWC)

Equipment ID No.: 1RY32MA

Equipment Class: (21) Tanks and Heat Exchangers

Equipment Description: PORV ACCUMULATOR 1A







1RY32MA BYRON 004

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 1RY32MA

Equipment Class: (21) Tanks and Heat Exchangers

Equipment Description: PORV ACCUMULATOR 1A



1RY32MA BYRON 005

Seismic Walkdown Checklist	(SWC)	Status: Y N U
Equipment ID No.:	•	
•	(7) Fluid-Operated Valves	
•		
	PZR PORV (C/S AT 1PM05J) ASMBLY	
	ect: Byron 1 SWEL	
Location (Bldg, Elev, Room/Are		
Manufacturer/Mod		•
SWEL. The space below each findings. Additional space is pro	necklist ocument the results of the Seismic Walkdown of an item of of the following questions may be used to record the results ovided at the end of this checklist for documenting other con	of judgments and
Anchorage		
Is anchorage configurate of SWEL items requiring	ion verification required (i.e., is the item one of the 50% g such verification)?	No
2. Is the anchorage free or	f bent, broken, missing or loose hardware?	Not Applicable
3. Is the anchorage free or	f corrosion that is more than mild surface oxidation?	Not Applicable
4. Is the anchorage free or	f visible cracks in the concrete near the anchors?	Not Applicable
	uration consistent with plant documentation? (Note: es if the item is one of the 50% for which an anchorage n is required.)	Not Applicable
Based on the above and potentially adverse seis	chorage evaluations, is the anchorage free of mic conditions?	Yes

Correspondence No.: RS-12-161

Sheet 2 of 4

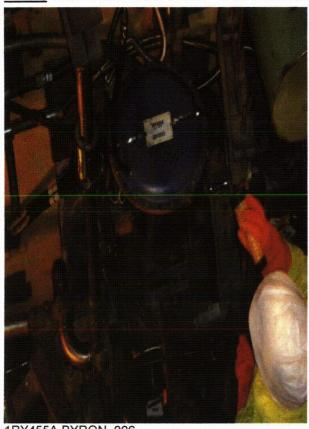
Status: Seismic Walkdown Checklist (SWC) Equipment ID No.: 1RY455A Equipment Class: (7) Fluid-Operated Valves Equipment Description: PZR PORV (C/S AT 1PM05J) ASMBLY Interaction Effects 7. Are soft targets free from impact by nearby equipment or structures? Yes Auxiliary steel members for pipe supports associated with the pipe containing this valve are in contact with/close to the valve. All items are adequatelyrestrained and move together. 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? 9. Do attached lines have adequate flexibility to avoid damage? Yes Yes 10. Based on the above seismic interaction evaluations, is equipment free of 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? Comments Seismic Walkdown Team: P. Gazda & J. Griffith - 9/19/2012 James Griffith Evaluated by: Date: 10/5/2012 Philip Gazda 10/5/2012

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 1RY455A

Equipment Class: (7) Fluid-Operated Valves

Equipment Description: PZR PORV (C/S AT 1PM05J) ASMBLY





1RY455A BYRON 006

1RY455A BYRON 007

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 1RY455A

Equipment Class: (7) Fluid-Operated Valves

Equipment Description: PZR PORV (C/S AT 1PM05J) ASMBLY





1RY455A BYRON 008

1RY455A BYRON 009

Correspondence No.: RS-12-161

Sheet 1 of 3

Status: Y N U Seismic Walkdown Checklist (SWC) Equipment ID No.: 1RY8028 Equipment Class: (8) Motor-Operated and Solenoid-Operated Valves Equipment Description: PW TO PRT CONTAINMENT ISOLATION VLV Project: Byron 1 SWEL Location (Bldg, Elev, Room/Area): Auxiliary, 387.00 ft, ALL Manufacturer/Model: **Instructions for Completing Checklist** This checklist may be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments. **Anchorage** 1. Is anchorage configuration verification required (i.e., is the item one of the 50% No of SWEL items requiring such verification)? 2. Is the anchorage free of bent, broken, missing or loose hardware? Not Applicable Not Applicable 3. Is the anchorage free of corrosion that is more than mild surface oxidation? 4. Is the anchorage free of visible cracks in the concrete near the anchors? Not Applicable 5. Is the anchorage configuration consistent with plant documentation? (Note: Not Applicable This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) 6. Based on the above anchorage evaluations, is the anchorage free of Yes potentially adverse seismic conditions?

Seismic Walkdow	n Checklist	(SWC)		Status: Y N U
Equipm	nent ID No.:	1RY8028		
Equipr	ment Class:	(8) Motor-Operated and Solenoid-Operated	 d Valves	
Equipment [- Description:	PW TO PRT CONTAINMENT ISOLATION		
Interaction Effects	<u> </u>			
7. Are soft tar	gets free fror	n impact by nearby equipment or structures	?	Yes
		t, distribution systems, ceiling tiles and light likely to collapse onto the equipment?	ing, and	Yes
9. Do attache	d lines have	adequate flexibility to avoid damage?	,	Yes
		smic interaction evaluations, is equipment finic interaction effects?	ree of	Yes
Other Adverse Co	nditions			
		d found no adverse seismic conditions that one of the equipment?	could	Yes
Comments				
Seismic walkdown	team M. Dela	nney & P. Gazda 8/8/12 pm		
Evaluated by:	Marles	Marlene Delaney Mych Philip Gazda		0/5/2012

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 1RY8028

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

Equipment Description: PW TO PRT CONTAINMENT ISOLATION VLV



1RY8028 Byron 1 & 2 8-8-12 064

Byron Generating Station Unit 1 12Q0108.20-R-001 Rev. 1 Correspondence No.: RS-12-161 Sheet 1 of 3

Seismic Walkdown Checklist	(SWC)	Status: Y N U
Equipment ID No.:	1SI01T	
, ,	(21) Tanks and Heat Exchangers	
. ,	REFUELING WATER STORAGE TANK	
Proje		
Location (Bldg, Elev, Room/Are		-
Manufacturer/Mod		
Instructions for Completing (
SWEL. The space below each	document the results of the Seismic Walkdown of an item of e of the following questions may be used to record the results rovided at the end of this checklist for documenting other com	of judgments and
Anchorage		
 Is anchorage configura of SWEL items requiring 	tion verification required (i.e., is the item one of the 50% ag such verification)?	No
2. Is the anchorage free o	of bent, broken, missing or loose hardware?	Yes
3. Is the anchorage free of	of corrosion that is more than mild surface oxidation?	Yes
4. Is the anchorage free of	of visible cracks in the concrete near the anchors?	Yes
<u>~</u>	guration consistent with plant documentation? (Note: lies if the item is one of the 50% for which an anchorage on is required.)	Not Applicable
potentially adverse seis Very large reinforced concrete with reinforcin	nchorage evaluations, is the anchorage free of smic conditions? concrete tank - anchorage not visible (anchored into an anchorage). Judged to be acceptable since there is no anthet between the tank and the foundation.	Yes

Correspondence No.: RS-12-161

Sheet 2 of 3

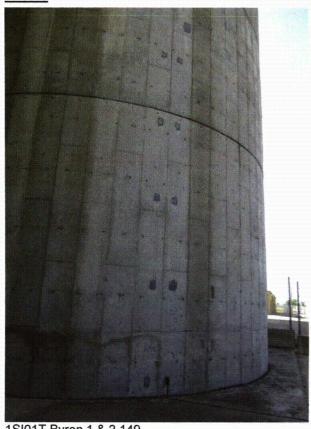
Status: Seismic Walkdown Checklist (SWC) Equipment ID No.: 1SI01T Equipment Class: (21) Tanks and Heat Exchangers Equipment Description: REFUELING WATER STORAGE TANK **Interaction Effects** 7. Are soft targets free from impact by nearby equipment or structures? Yes 8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and Yes masonry block walls not likely to collapse onto the equipment? 9. Do attached lines have adequate flexibility to avoid damage? Yes 10. Based on the above seismic interaction evaluations, is equipment free of Yes potentially adverse seismic interaction effects? **Other Adverse Conditions** Have you looked for and found no adverse seismic conditions that could Yes adversely affect the safety functions of the equipment? Minor concrete cracking/spalling and judged to have no structural impact. Comments Seismic walkdown team M. Delaney & P. Gazda 8/7/12 am Marlene Delaney Evaluated by: Date: 10/5/2012 Philip Gazda 10/5/2012

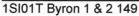
Seismic Walkdown Checklist (SWC)

Equipment ID No.: 1SI01T

Equipment Class: (21) Tanks and Heat Exchangers

Equipment Description: REFUELING WATER STORAGE TANK







1SI01T Byron 1 & 2 150

Byron Generating Station Unit 1 12Q0108.20-R-001 Rev. 1 Correspondence No.: RS-12-161 Sheet 1 of 3

Status: Y N C Seismic Walkdown Checklist (SWC)
Equipment ID No.: 1SI8801B
Equipment Class: (7) Fluid-Operated Valves
CHG PMP TO COLD LEGS INJECTION ISOL VLV (C/S AT 1PM05J)
Equipment Description: ASMBLY; 4"
Project: Byron 1 SWEL
Location (Bldg, Elev, Room/Area): Auxiliary, 375.00 ft, ALL
Manufacturer/Model:
Instructions for Completing Checklist
This checklist may be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.
<u>Anchorage</u>
 Is anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?
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: Not Applicable This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)
Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?

Correspondence No.: RS-12-161 Sheet 2 of 3

Status: Seismic Walkdown Checklist (SWC) Equipment ID No.: 1SI8801B Equipment Class: (7) Fluid-Operated Valves CHG PMP TO COLD LEGS INJECTION ISOL VLV (C/S AT 1PM05J) Equipment Description: ASMBLY; 4" **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? 9. Do attached lines have adequate flexibility to avoid damage? Yes 10. Based on the above seismic interaction evaluations, is equipment free of Yes potentially adverse seismic interaction effects? **Other Adverse Conditions** Have you looked for and found no adverse seismic conditions that could Yes adversely affect the safety functions of the equipment? No structural/seismic issues Comments Seismic walkdown team M. Delaney & P. Gazda 8-8-12 pm Evaluated by: Marlene Delaney Date: 10/5/2012 10/5/2012

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 1SI8801B

Equipment Class: (7) Fluid-Operated Valves

CHG PMP TO COLD LEGS INJECTION ISOL VLV (C/S AT 1PM05J)

Equipment Description: ASMBLY; 4"



1SI8801B Byron 1 & 2 8-8-12 062

Byron Generating Station Unit 1 12Q0108.20-R-001 Rev. 1 Correspondence No.: RS-12-161

Correspondence No.: RS-12-161 Sheet 1 of 3

Status: Y N U Seismic Walkdown Checklist (SWC) Equipment ID No.: 1SI8804B Equipment Class: (8) Motor-Operated and Solenoid-Operated Valves Equipment Description: ASSY - MOV 1B RH HX TO 1B SI PP SUCT HDR ISOL VLV Project: Byron 1 SWEL Location (Bldg, Elev, Room/Area): Auxiliary, 364.00 ft, ALL Manufacturer/Model: **Instructions for Completing Checklist** This checklist may be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments. **Anchorage** 1. Is anchorage configuration verification required (i.e., is the item one of the 50% No of SWEL items requiring such verification)? Not Applicable 2. Is the anchorage free of bent, broken, missing or loose hardware? 3. Is the anchorage free of corrosion that is more than mild surface oxidation? Not Applicable 4. Is the anchorage free of visible cracks in the concrete near the anchors? Not Applicable 5. Is the anchorage configuration consistent with plant documentation? (Note: Not Applicable This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) Yes Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?

Seismic Walkdown Checklis	et (SWC)	Status: Y N U
Equipment ID No.:		
Equipment Class:		
Equipment Description:		LV
Interaction Effects		
Are soft targets free fr	om impact by nearby equipment or structures?	Yes
	ent, distribution systems, ceiling tiles and lighting, and ot likely to collapse onto the equipment?	Yes
9. Do attached lines have	e adequate flexibility to avoid damage?	Yes
	eismic interaction evaluations, is equipment free of ismic interaction effects?	Yes
00 - 1 - 0 - 10	· .	· · · · · · · · · · · · · · · · · · ·
Other Adverse Conditions 11. Have you looked for a	nd found no adverse seismic conditions that could	Yes
adversely affect the sa	afety functions of the equipment?	
Check valve on this p wall so this is not an is	pipe is close to north wall but laterally braced to south ssue.	
Comments Seismic walkdown team M. De	elaney & P. Gazda 8/8/12 pm	
Evaluated by:	hoh	0/5/2012

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 1SI8804B

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

Equipment Description: ASSY - MOV 1B RH HX TO 1B SI PP SUCT HDR ISOL VLV



1SI8804B Byron 1 & 2 8-8-12 050

Byron Generating Station Unit 1 12Q0108.20-R-001 Rev. 1 Correspondence No.: RS-12-161 Sheet 1 of 3

Seismic Walkdown Checklist	(SWC)	Status: Y N U
Equipment ID No.:		
	(8) Motor-Operated and Solenoid-Operated Valves	
	RH TO COLD LEGS 1B/1C ISOL VLV (1PM06J) ASMBLY	; 8"
Proje		
Location (Bldg, Elev, Room/Are		
Manufacturer/Mod		
SWEL. The space below each findings. Additional space is pr	locument the results of the Seismic Walkdown of an item of e of the following questions may be used to record the results ovided at the end of this checklist for documenting other con	of judgments and
Anchorage		A.L.
 Is anchorage configura of SWEL items requirin 	tion verification required (i.e., is the item one of the 50% g such verification)?	No
2. Is the anchorage free o	f bent, broken, missing or loose hardware?	Not Applicable
3. Is the anchorage free o	f corrosion that is more than mild surface oxidation?	Not Applicable
4. Is the anchorage free o	of visible cracks in the concrete near the anchors?	Not Applicable
	guration consistent with plant documentation? (Note: ies if the item is one of the 50% for which an anchorage is required.)	Not Applicable
Based on the above an potentially adverse seis	chorage evaluations, is the anchorage free of smic conditions?	Yes

Seismic Walkdown Check		status: Y N U	
Equipment ID N	o.: 1SI8809B		
• •	s: (8) Motor-Operated and Solenoid-Operated Valves		
	n: RH TO COLD LEGS 1B/1C ISOL VLV (1PM06J) ASMBLY; 8"		
Interaction Effects		,	
7. Are soft targets free	from impact by nearby equipment or structures?	Yes	
	ment, distribution systems, ceiling tiles and lighting, and not likely to collapse onto the equipment?	Yes	
9. Do attached lines h	eve adequate flexibility to avoid damage?	Yes	
Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?			
	and found no adverse seismic conditions that could safety functions of the equipment?	Yes	
Comments Seismic walkdown team M.	Delaney & P. Gazda 8/8/12 pm		
Evaluated by:	1. In oh	/2012	

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 1SI8809B

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

Equipment Description: RH TO COLD LEGS 1B/1C ISOL VLV (1PM06J) ASMBLY; 8"



1SI8809B Byron 1 & 2 8-8-12 054

Correspondence No.: RS-12-161 Sheet 1 of 3

Status:

Equipment ID No.: 1SX005 Equipment Class: (8) Motor-Operated and Solenoid-Operated Valves Equipment Description: U-0 CC HX INLT VLV ASMBLY; 30" Project: Byron 1 SWEL Location (Bldg, Elev, Room/Area): Auxiliary, 330.00 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% 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

5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)

Not Applicable

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?

Yes

Correspondence No.: RS-12-161

Sheet 2 of 3

Status: Seismic Walkdown Checklist (SWC) Equipment ID No.: 1SX005 Equipment Class: (8) Motor-Operated and Solenoid-Operated Valves Equipment Description: U-0 CC HX INLT VLV ASMBLY; 30" **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? Do attached lines have adequate flexibility to avoid damage? Yes Yes 10. Based on the above seismic interaction evaluations, is equipment free of 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 M. Delaney & P. Gazda 8/10/12 am Marlene Delaney Date: 10/5/2012 Evaluated by: 10/5/2012

Sheet 3 of 3

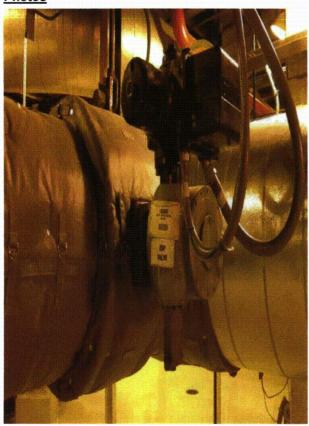
Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 1SX005

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

Equipment Description: U-0 CC HX INLT VLV ASMBLY; 30"



1SX005 Byron 1 & 2 8-10-12 038

Byron Generating Station Unit 1 12Q0108.20-R-001 Rev. 1 Correspondence No.: RS-12-161 Sheet 1 of 4

Seismic Walkdown Checklist (SWC)	Status: Y N U
Equipment ID No.: 1SX01FB	·
Equipment Class: (0) Other	
Equipment Description: 1B SX PP DSCH STRN	
Project: Byron 1 SWEL	
Location (Bldg, Elev, Room/Area): Auxiliary, 330.00 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.	ts of judgments and
<u>Anchorage</u>	.,
 Is anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? 	Yes
2. Is the anchorage free of bent, broken, missing or loose hardware?	Yes
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.) Drawing M-1218 Revision AA Detail 1 	Yes
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	Yes

Byron Generating Station Unit 1 12Q0108.20-R-001 Rev. 1 Correspondence No.: RS-12-161 Sheet 2 of 4

	atus: Y N U				
Seismic	Walkdown Checklist	(SWC)			
	Equipment ID No.:	1SX01FB			
	Equipment Class:	(0) Other			
Ed	quipment Description:	1B SX PP DSCH STRN			
	on Effects				
7. <i>F</i>	Are soft targets free fro	om impact by nearby equipment or structures?	Yes		
		ent, distribution systems, ceiling tiles and lighting, and ot likely to collapse onto the equipment?	Yes		
9. [9. Do attached lines have adequate flexibility to avoid damage?				
	10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?				
Other A	dverse Conditions				
11. H		nd found no adverse seismic conditions that could fety functions of the equipment?	Yes		
Commer Seismic		laney & P. Gazda 8/10/12 pm			
Evaluate	d by:	Marlene Delaney Date: 10/5/2	012		
	6.0	. Shydh Philip Gazda 10/5/2	012		

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 1SX01FB

Equipment Class: (0) Other

1B SX PP DSCH STRN **Equipment Description:**







1SX01FB Byron 1 & 2 8-10-12 030

Byron Generating Station Unit 1 12Q0108.20-R-001 Rev. 1 Correspondence No.: RS-12-161 Sheet 4 of 4

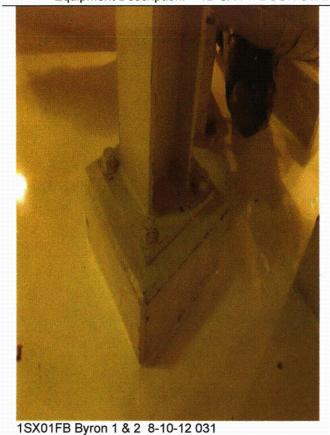
Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 1SX01FB

Equipment Class: (0) Other

Equipment Description: 1B SX PP DSCH STRN



Correspondence No.: RS-12-161

Sheet 1 of 3

Status: Seismic Walkdown Checklist (SWC) Equipment ID No.: 1SX01PB Equipment Class: (5) Horizontal Pumps Equipment Description: PUMP,1B ESSENTIAL SER WTR ASMBLY Project: Byron 1 SWEL Location (Bldg, Elev, Room/Area): Auxiliary, 330.00 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 Yes 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 Is the anchorage free of corrosion that is more than mild surface oxidation? Yes Yes Is the anchorage free of visible cracks in the concrete near the anchors? 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.) Drawing M-1218 Revision AA Yes 6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?

Correspondence No.: RS-12-161

Sheet 2 of 3

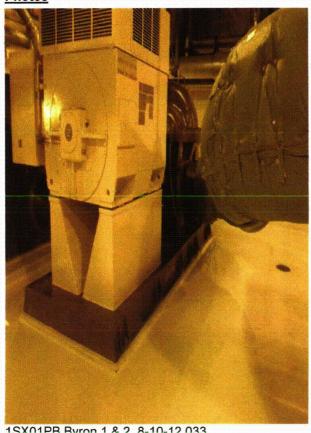
Status: Y Seismic Walkdown Checklist (SWC) Equipment ID No.: 1SX01PB Equipment Class: (5) Horizontal Pumps Equipment Description: PUMP,1B ESSENTIAL SER WTR ASMBLY **Interaction Effects** 7. Are soft targets free from impact by nearby equipment or structures? Yes 8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and Yes masonry block walls not likely to collapse onto the equipment? 9. Do attached lines have adequate flexibility to avoid damage? Yes Yes 10. Based on the above seismic interaction evaluations, is equipment free of 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? **Comments** Seismic walkdown team M. Delaney & P. Gazda 8/10/12 am Marlene Delaney Date: 10/5/2012 Evaluated by: 10/5/2012

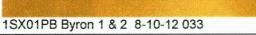
Seismic Walkdown Checklist (SWC)

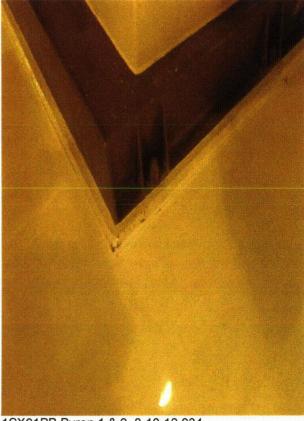
Equipment ID No.: 1SX01PB

Equipment Class: (5) Horizontal Pumps

PUMP,1B ESSENTIAL SER WTR ASMBLY **Equipment Description:**







1SX01PB Byron 1 & 2 8-10-12 034

Byron Generating Station Unit 1 12Q0108.20-R-001 Rev. 1 Correspondence No.: RS-12-161

Correspondence No.: RS-12-161 Sheet 1 of 3

Status: Seismic Walkdown Checklist (SWC) Equipment ID No.: 1SX169B Equipment Class: (7) Fluid-Operated Valves Equipment Description: DG 1B SX VLV ASMBLY; 10" Project: Byron 1 SWEL Location (Bldg, Elev, Room/Area): Auxiliary, 401.00 ft, ALL Manufacturer/Model: **Instructions for Completing Checklist** This checklist may be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments. **Anchorage** 1. Is anchorage configuration verification required (i.e., is the item one of the 50% No of SWEL items requiring such verification)? 2. Is the anchorage free of bent, broken, missing or loose hardware? Not Applicable 3. Is the anchorage free of corrosion that is more than mild surface oxidation? Not Applicable Is the anchorage free of visible cracks in the concrete near the anchors? Not Applicable 5. Is the anchorage configuration consistent with plant documentation? (Note: Not Applicable This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) Based on the above anchorage evaluations, is the anchorage free of Yes potentially adverse seismic conditions?

Correspondence No.: RS-12-161

Sheet 2 of 3

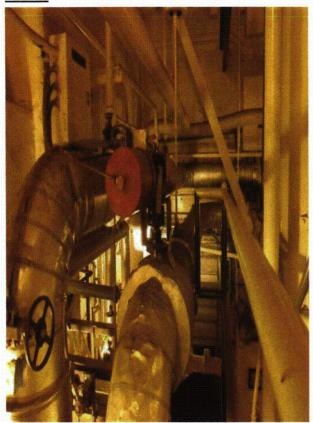
Status: Seismic Walkdown Checklist (SWC) Equipment ID No.: 1SX169B Equipment Class: (7) Fluid-Operated Valves Equipment Description: DG 1B SX VLV ASMBLY; 10" **Interaction Effects** 7. Are soft targets free from impact by nearby equipment or structures? Yes 8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and Yes masonry block walls not likely to collapse onto the equipment? 9. Do attached lines have adequate flexibility to avoid damage? Yes 10. Based on the above seismic interaction evaluations, is equipment free of Yes potentially adverse seismic interaction effects? Other Adverse Conditions Have you looked for and found no adverse seismic conditions that could Yes adversely affect the safety functions of the equipment? No structural/seismic issues Comments Seismic walkdown team M. Delaney & P. Gazda 8-7-12 pm Evaluated by: Marlene Delaney Date: 10/5/2012 10/5/2012

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 1SX169B

Equipment Class: (7) Fluid-Operated Valves

Equipment Description: DG 1B SX VLV ASMBLY; 10"



1SX169B Byron 1 & 2 205

Correspondence No.: RS-12-161

Sheet 1 of 3 Status: Y N U No Not Applicable

Seismic	Walkdown	Checklist (SWC		
		-CIDAL-	407/4	

Equipment ID No.: 1SX173

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

SX SUP VLV TO ENG Driven CLG WTR PP FOR Diesel Driven AF PP ASSY;

Equipment Description:

Project: Byron 1 SWEL

Location (Bldg, Elev, Room/Area): Auxiliary, 383.00 ft, ALL

Manufacturer/Model:

Instructions for Completing Checklist

This checklist may be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

Anchorage

 Is anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?

- 2. Is the anchorage free of bent, broken, missing or loose hardware?
- 3. Is the anchorage free of corrosion that is more than mild surface oxidation?

Not Applicable

Is the anchorage free of visible cracks in the concrete near the anchors?

Not Applicable

5. Is the anchorage configuration consistent with plant documentation? (Note: 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

Byron Generating Station Unit 1 12Q0108.20-R-001 Rev. 1 Correspondence No.: RS-12-161 Sheet 2 of 3

Equipment ID No.: 1SX173 Equipment Class: (8) Motor-Operated and Solenoid-Operated Valves SX SUP VLV TO ENG Driven CLG WTR PP FOR Diesel Driven AF PP_ASSY Equipment Description: 6"				
SX SUP VLV TO ENG Driven CLG WTR PP FOR Diesel Driven AF PP_ASS				
Equipment Description: 6"	SSY;			
Interaction Effects				
7. Are soft targets free from impact by nearby equipment or structures?	Yes			
Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	Yes			
Do attached lines have adequate flexibility to avoid damage? Yes				
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?				
Other Adverse Conditions				
	Yes			
Comments				
Seismic walkdown team M. Delaney & P. Gazda 8/20/12 am				
Evaluated by: Marlene Delaney Date: 10/5/2012 Philip Gazda 10/5/2012				

Seismic Walkdown Checklist (SWC)

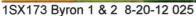
Equipment ID No.: 1SX173

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

SX SUP VLV TO ENG Driven CLG WTR PP FOR Diesel Driven AF PP_ASSY;

Equipment Description: 6







1SX173 Byron 1 & 2 8-20-12 026

Byron Generating Station Unit 1 12Q0108.20-R-001 Rev. 1 Correspondence No.: RS-12-161

Correspondence No.: RS-12-161 Sheet 1 of 3

Status: Y N U Seismic Walkdown Checklist (SWC) Equipment ID No.: 1TE-0604 Equipment Class: (19) Temperature Sensors Equipment Description: RHR LP 1A RETURN TEMPERATURE RTD Project: Byron 1 SWEL Location (Bldg, Elev, Room/Area): Auxiliary, 375.00 ft, ALL Manufacturer/Model: **Instructions for Completing Checklist** This checklist may be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments. **Anchorage** 1. Is anchorage configuration verification required (i.e., is the item one of the 50% No of SWEL items requiring such verification)? 2. Is the anchorage free of bent, broken, missing or loose hardware? Not Applicable 3. Is the anchorage free of corrosion that is more than mild surface oxidation? Not Applicable 4. Is the anchorage free of visible cracks in the concrete near the anchors? Not Applicable 5. Is the anchorage configuration consistent with plant documentation? (Note: Not Applicable This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) 6. Based on the above anchorage evaluations, is the anchorage free of Yes potentially adverse seismic conditions?

Byron Generating Station Unit 1 12Q0108.20-R-001 Rev. 1 Correspondence No.: RS-12-161 Sheet 2 of 3

Cojomio Molkdow	n Chaaldigt	(CIMC)			Status: Y N U
Seismic Walkdow		•			
	ent ID No.:				
		(19) Temperature Sens		·	
· · · · · · · · · · · · · · · · · · ·		RHR LP 1A RETURN	TEMPERATURE RTD		
7. Are soft tar	="	n impact by nearby equ	ipment or structures?		Yes
		t, distribution systems, likely to collapse onto t	ceiling tiles and lighting the equipment?	, and	Yes
9. Do attached	d lines have a	adequate flexibility to av	oid damage?		Yes
		smic interaction evaluat mic interaction effects?	ions, is equipment free	of	Yes
	ooked for and	I found no adverse seis	mic conditions that coul pment?	d	Yes
Comments Seismic walkdown to	team M. Dela	iney & P. Gazda 8/21/1	2 am		
Evaluated by:		Mych Phillip C	Marlene Delaney		10/5/2012 10/5/2012

Byron Generating Station Unit 1 12Q0108.20-R-001 Rev. 1 Correspondence No.: RS-12-161 Sheet 3 of 3

Seismic Walkdown Checklist (SWC)		Status: Y N U
Equipment ID No.:	1TE-0604	
Equipment Class:	(19) Temperature Sensors	
Equipment Description:	RHR LP 1A RETURN TEMPERATURE RTD	
<u>Photos</u>		
None.		

Byron Generating Station Unit 1 12Q0108.20-R-001 Rev. 1

Correspondence No.: RS-12-161 Sheet 1 of 3

Status: Y N U Seismic Walkdown Checklist (SWC) Equipment ID No.: 1TE-RC022A Equipment Class: (19) Temperature Sensors Equipment Description: RC WIDE RANGE LP 1A TEMP Project: Byron 1 SWEL Location (Bldg, Elev, Room/Area): Cont, 390.00 ft, ALL Manufacturer/Model: **Instructions for Completing Checklist** This checklist may be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments. Anchorage 1. Is anchorage configuration verification required (i.e., is the item one of the 50% No of SWEL items requiring such verification)? 2. Is the anchorage free of bent, broken, missing or loose hardware? Not Applicable 3. Is the anchorage free of corrosion that is more than mild surface oxidation? Not Applicable 4. Is the anchorage free of visible cracks in the concrete near the anchors? Not Applicable 5. Is the anchorage configuration consistent with plant documentation? (Note: Not Applicable This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) Yes 6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?

Correspondence No.: RS-12-161 Sheet 2 of 3

Status: Seismic Walkdown Checklist (SWC) Equipment ID No.: 1TE-RC022A Equipment Class: (19) Temperature Sensors Equipment Description: RC WIDE RANGE LP 1A TEMP **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? 9. Do attached lines have adequate flexibility to avoid damage? Yes Yes 10. Based on the above seismic interaction evaluations, is equipment free of 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? Comments Seismic Walkdown Team: P. Gazda & J. Griffith - 9/19/2012 James Griffith Evaluated by: Date: 10/5/2012 Philip Gazda 10/5/2012

Sheet 3 of 3

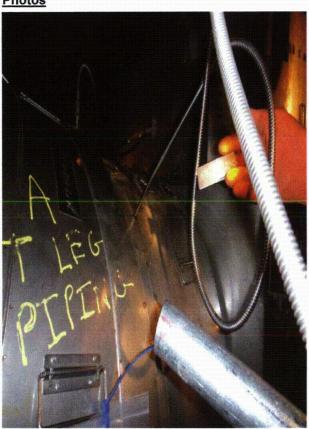
Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 1TE-RC022A

Equipment Class: (19) Temperature Sensors

Equipment Description: RC WIDE RANGE LP 1A TEMP



1TE-RC022 BYRON 022

Status: [Seismic Walkdown Checklist (SWC)	YNU
Equipment ID No.: 1TI-0628	
Equipment Class: (19) Temperature Sensors	
Equipment Description: SPENT FUEL POOL HEAT EXCH OUTLET TEMP INDICAT	
Project: Byron 1 SWEL	
Location (Bldg, Elev, Room/Area): FH, 426.00 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 judgment 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
Is the anchorage free of bent, broken, missing or loose hardware? Not A	pplicable
	.,
·	
3. Is the anchorage free of corrosion that is more than mild surface oxidation? Not A	pplicable
4. Is the anchorage free of visible cracks in the concrete near the anchors? Not A	pplicable
 Is the anchorage configuration consistent with plant documentation? (Note: Not A This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) 	pplicable
Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	Yes

Seismic Walkdown Checklist	(SWC)	Status: Y N U
Equipment ID No.:	1TI-0628	
Equipment Class:	(19) Temperature Sensors	
Equipment Description:	SPENT FUEL POOL HEAT EXCH OUTLET TEMP IN	DICAT
Interaction Effects		
	m impact by nearby equipment or structures?	Yes
		•
	·	
	nt, distribution systems, ceiling tiles and lighting, and tilkely to collapse onto the equipment?	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	· .	
adversely affect the sat NRC questioned the to area used a pin rather to	d found no adverse seismic conditions that could ety functions of the equipment? op bolt on the double clamp detail. Other supports in than a bolt. This configuration is consistent with typical at clamps and not an issue. Clarified with NRC by Jeff	Yes
Comments		
		·
Marler Evaluated by:	Marlene Delaney Date:	10/5/2012
G.o.	Mych Philip Gazda	10/5/2012
Photos		

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 1TI-0628

Equipment Class: (19) Temperature Sensors

Equipment Description: SPENT FUEL POOL HEAT EXCH OUTLET TEMP INDICAT



1TI-0628 (NRC QUESTION - RESOLVED) Byron 1 & 2 8-9-12 015



1TI-0628 Byron 1 & 2 8-9-12 014

Status: Y N Seismic Walkdown Checklist (SWC)	U
Equipment ID No.: 1VA01SB	
Equipment Class: (5) Horizontal Pumps	
Equipment Description: 1B SX Pp Cub Cooler ESSENTIAL SERVICE WATER PUMP 95-10	
Project: Byron 1 SWEL	
Location (Bldg, Elev, Room/Area): Auxiliary, 330.00 ft, ALL	
Manufacturer/Model:	
Instructions for Completing Checklist	_
This checklist may be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.	
Anchorage	_
 Is anchorage configuration verification required (i.e., is the item one of the 50% Ye of SWEL items requiring such verification)? 	S
Is the anchorage free of bent, broken, missing or loose hardware? Ye	es.
3. Is the anchorage free of corrosion that is more than mild surface oxidation? Ye	S
	٠.
4. Is the anchorage free of visible cracks in the concrete near the anchors?	s
Very small cracks in grout pad that do not extend beyond grout surface. Not a structural or seismic issue.	
 Is the anchorage configuration consistent with plant documentation? (Note: Ye This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) Drawing M-1218 Revision AA Detail 83 	IS
Based on the above anchorage evaluations, is the anchorage free of ye potentially adverse seismic conditions?	s

Seismic Walkdown Che	klist (SWC)	Status: Y N U
Equipment ID	No.: 1VA01SB	
• •	ass: (5) Horizontal Pumps	
Equipment Descrip		MP 95-10
Interaction Effects		
7. Are soft targets fr	e from impact by nearby equipment or structures?	Yes
-	pment, distribution systems, ceiling tiles and lighting, and lls not likely to collapse onto the equipment?	Yes
9. Do attached lines	have adequate flexibility to avoid damage?	Yes
	ve seismic interaction evaluations, is equipment free of e seismic interaction effects?	Yes
Other Adverse Conditio	<u>s</u>	
-	or and found no adverse seismic conditions that could e safety functions of the equipment?	Yes
Comments		
Seismic walkdown team I Unit houses 1VA01E - 1V	. Delaney & P. Gazda 8/10/12 am A01H components	
Evaluated by:	1. hrch	0/5/2012

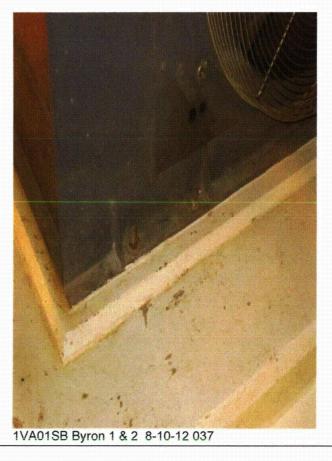
Seismic Walkdown Checklist (SWC)

Equipment ID No.: 1VA01SB

Equipment Class: (5) Horizontal Pumps

Equipment Description: 1B SX Pp Cub Cooler ESSENTIAL SERVICE WATER PUMP 95-10





1VA01SB Byron 1 & 2 8-10-12 036

Correspondence No.: RS-12-161 Sheet 1 of 4

Status: Y N U Seismic Walkdown Checklist (SWC) Equipment ID No.: 1VA02SB Equipment Class: (10) Air Handlers Equipment Description: 1B RHR PUMP ROOM CUB CLR ASMBLY Project: Byron 1 SWEL Location (Bldg, Elev, Room/Area): Auxiliary, 346.00 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 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 Multiple cracks in grout pad that do not extend into base slab. IR 1403145 was written. Grout is for leveling and cosmetic reasons and the cracks are not a concern. 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.) Drawing M-1219 Sheet 3 Revision AH 6. Based on the above anchorage evaluations, is the anchorage free of Yes potentially adverse seismic conditions?

Seism	ic Walkdown Checklis	status: Y	N U
	Equipment ID No.:	1VA02SB	
	Equipment Class:	(10) Air Handlers	
	Equipment Description:		
Intera	ction Effects		
7.	Are soft targets free from	om impact by nearby equipment or structures?	Yes
		i.	
8.	·	ent, distribution systems, ceiling tiles and lighting, and	Yes
	masonry block walls no	ot likely to collapse onto the equipment?	
9.	Do attached lines have	e adequate flexibility to avoid damage?	Yes
	•	·	
10.	Based on the above se	eismic interaction evaluations, is equipment free of	Yes
10.		ismic interaction effects?	
Other	Adverse Conditions		
11.		nd found no adverse seismic conditions that could	Yes
•		afety functions of the equipment?	
•			
Comn	nante	<u> </u>	
	,	elaney & P. Gazda 8/21/12 pm	
		•	
	Maile	M. M. Selany	
Evalua	ated by:	Marlene Delaney Date: 10/5/2012	
	0.0	Philip Gazda 10/5/2012	
	·	1 11mp Gazaa 10/0/2012	

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 1VA02SB

Equipment Class: (10) Air Handlers

Equipment Description: 1B RHR PUMP ROOM CUB CLR ASMBLY







1VA02SB Byron 1 & 2 8-21-12 038

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 1VA02SB

Equipment Class: (10) Air Handlers

Equipment Description: 1B RHR PUMP ROOM CUB CLR ASMBLY



1VA02SB Byron 1 & 2 8-21-12 039

		Status: Y N U
Seismic Walkdown Checklist	(SWC)	. *
Equipment ID No.:	1VA06SA	
Equipment Class:	(10) Air Handlers	
Equipment Description:	COOLER,CENTRIFUGAL CHARGING PUMP 1A	
Proje	ct: Byron 1 SWEL	
Location (Bldg, Elev, Room/Are	a): Auxiliary, 364.00 ft, ALL	·
Manufacturer/Mod	el:	
SWEL. The space below each findings. Additional space is pro-	hecklist ocument the results of the Seismic Walkdown of an item of equal to the following questions may be used to record the results obvided at the end of this checklist for documenting other comm	f judgments and
Anchorage 1. Is anchorage configurate of SWEL items requiring	ion verification required (i.e., is the item one of the 50% g such verification)?	Yes
2. Is the anchorage free o	bent, broken, missing or loose hardware?	Yes
3. Is the anchorage free o	corrosion that is more than mild surface oxidation?	Yes
4. Is the anchorage free o	visible cracks in the concrete near the anchors?	Yes
•		Yes
Based on the above an potentially adverse seis	chorage evaluations, is the anchorage free of mic conditions?	Yes

Correspondence No.: RS-12-161

Sheet 2 of 3

Status: Seismic Walkdown Checklist (SWC) Equipment ID No.: 1VA06SA Equipment Class: (10) Air Handlers Equipment Description: COOLER, CENTRIFUGAL CHARGING PUMP 1A **Interaction Effects** 7. Are soft targets free from impact by nearby equipment or structures? Yes 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 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 M. Delaney & P. Gazda 8/20/12 pm Marlene Delaney Evaluated by: Date: 10/5/2012 Philip Gazda 10/5/2012

Sheet 3 of 3

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 1VA06SA

Equipment Class: (10) Air Handlers

Equipment Description: COOLER, CENTRIFUGAL CHARGING PUMP 1A







1VA06SA Byron 1 & 2 8-20-12 073

•		Status: Y N U
Seismic Walkdown Checklist (SWC)	
Equipment ID No.:	1VA08CB	_
Equipment Class:	(10) Air Handlers	
Equipment Description:	1B DIESEL DRIVEN AF PUMP CUBICLE CLR (1VA08S)	1B FAN
Projec	t: Byron 1 SWEL	
Location (Bldg, Elev, Room/Area): Auxiliary, 383.00 ft, ALL	
Manufacturer/Mode	d:	
SWEL. The space below each o findings. Additional space is prov	recklist cument the results of the Seismic Walkdown of an item of f the following questions may be used to record the results rided at the end of this checklist for documenting other con	of judgments and
Anchorage	· .	
 Is anchorage configuration of SWEL items requiring 	on verification required (i.e., is the item one of the 50% 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
	ration consistent with plant documentation? (Note: s if the item is one of the 50% for which an anchorage is required.)	Not Applicable
potentially adverse seism	norage evaluations, is the anchorage free of nic conditions? ame mounted to skid and hung from above. No direct	Yes

Correspondence No.: RS-12-161 Sheet 2 of 3

Status: Y N U Seismic Walkdown Checklist (SWC) Equipment ID No.: 1VA08CB Equipment Class: (10) Air Handlers Equipment Description: 1B DIESEL DRIVEN AF PUMP CUBICLE CLR (1VA08S) 1B FAN **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? 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? Comments Seismic walkdown team M. Delaney & P. Gazda 8/20/12 am Evaluated by: Marlene Delaney Date: 10/5/2012 Philip Gazda 10/5/2012

0.1001 0 01

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 1VA08CB

Equipment Class: (10) Air Handlers

Equipment Description: 1B DIESEL DRIVEN AF PUMP CUBICLE CLR (1VA08S) 1B FAN



1VA08CB Byron 1 & 2 8-20-12 033

Seismic Walkdown Checklist	(SWC)	Status: Y N U
Equipment ID No.:		,
	(20) Instrumentation and Control Panels and Cabinets	
• •	CENTRIFUGAL CHARGING PCUBICLE COOLER LOCA	L CONTROL PANEL
Proje		E OOM TOET FINEE
Location (Bldg, Elev, Room/Are		
Manufacturer/Mod		
Instructions for Completing C		
This checklist may be used to d SWEL. The space below each findings. Additional space is pr	ocument the results of the Seismic Walkdown of an item of of the following questions may be used to record the result ovided at the end of this checklist for documenting other co	s of judgments and
Anchorage		
 Is anchorage configura of SWEL items requirin 	tion verification required (i.e., is the item one of the 50% g such verification)?	No
2. Is the anchorage free o	f bent, broken, missing or loose hardware?	Yes
3. Is the anchorage free o	f corrosion that is more than mild surface oxidation?	Yes
4. Is the anchorage free o	f visible cracks in the concrete near the anchors?	Yes
	juration consistent with plant documentation? (Note: ies if the item is one of the 50% for which an anchorage n is required.)	Not Applicable
Based on the above an potentially adverse seis	chorage evaluations, is the anchorage free of mic conditions?	Yes

Byron Generating Station Unit 1 12Q0108.20-R-001 Rev. 1

Sheet 2 of 3

Correspondence No.: RS-12-161

Status: Y Seismic Walkdown Checklist (SWC) Equipment ID No.: 1VA11J Equipment Class: (20) Instrumentation and Control Panels and Cabinets Equipment Description: CENTRIFUGAL CHARGING PCUBICLE COOLER LOCAL CONTROL 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 Yes 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? 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 M. Delaney & P. Gazda 8/8/12 pm Marlene Delaney Evaluated by: Date: 10/5/2012 10/5/2012

Sheet 3 of 3

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 1VA11J

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

Equipment Description: CENTRIFUGAL CHARGING PCUBICLE COOLER LOCAL CONTROL PANEL

Photos

None.

Saiamia Walkdawa Chaaklist (SWC)	Status: Y N U
Seismic Walkdown Checklist (SWC)	·
Equipment ID No.: 1VD01CB	
Equipment Class: (9) Fans	
Equipment Description: 1B DG ROOM HVAC FAN ASMBLY	
Project: Byron 1 SWEL	
Location (Bldg, Elev, Room/Area): Auxiliary, 401.00 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 ec 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 comments.	of judgments and
<u>Anchorage</u>	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
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: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) Drawing M-1222 Sheet 6 Rev K Detail 93 Cannot measure bolt diameter since only the bolt head is visible (No bolt projection) Width across flat of nut equals approximately 1" which corresponds to a 5/8" bolt per AISC 9th edition 4-142 (1/16" difference is negligible and within measuring tolerances)	Yes
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	Yes

Seismic Walkdown Checklist (SWC)	Status: Y N U
Equipment ID No.: 1VD01CB	
Equipment Class: (9) Fans	
Equipment Description: 1B DG ROOM HVAC FAN	ASMBLY
-	
Interaction Effects	
Are soft targets free from impact by nearby equipment	ent or structures? Yes
	•
8. Are overhead equipment, distribution systems, ceilir	ng tiles and lighting, and
masonry block walls not likely to collapse onto the e	
Adjacent permanent scaffold is well-secured and we not labeled as permanent. IR 1398177 written to ac	
structural/seismic issue	•
9. 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 adversely affect the safety functions of the equipme 	
autorous, amost and dansity randoms of the equipme	
Comments	
Seismic walkdown team M. Delaney & P. Gazda 8-7-12 pm	
,	
AI A	
Marline M Silvey	
₹. ∦	
Evaluated by: N	larlene Delaney Date: 10/5/2012
C.O. Mach phillip Come	
Philip Gazo	la 10/5/2012

Seismic Walkdown Checklist (SWC)

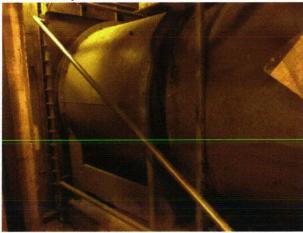
Equipment ID No.: 1VD01CB

Equipment Class: (9) Fans

Equipment Description: 1B DG ROOM HVAC FAN ASMBLY



1VD01CB Byron 1 & 2 200



1VD01CB Byron 1 & 2 203



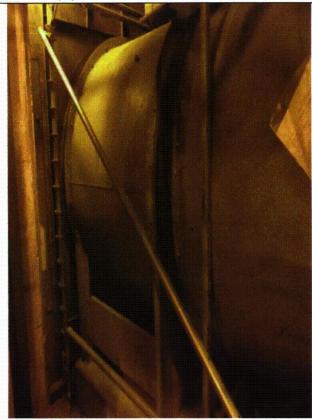
1VD01CB Byron 1 & 2 201

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 1VD01CB

Equipment Class: (9) Fans

Equipment Description: 1B DG ROOM HVAC FAN ASMBLY



1VD01CB Byron 1 & 2 203

Seismic Walkdown Checklist (SWC)	Status: Y N U
Equipment ID No.: 1VE05C Equipment Class: (9) Fans	
Equipment Description: ASSY - U-1 MISC ELEC EQUIP RM DIV 12 EXH FAN	
Project: Byron 1 SWEL	
Location (Bldg, Elev, Room/Area): Auxiliary, 463.00 ft, ALL	
Manufacturer/Model:	
Instructions for Completing Checklist	
This checklist may be used to document the results of the Seismic Walkdown of an item SWEL. The space below each of the following questions may be used to record the resulting. Additional space is provided at the end of this checklist for documenting other of the contract of the space is provided at the end of this checklist for documenting other of the space is provided at the end of this checklist for documenting other of the space is provided at the end of this checklist for documenting other of the space is provided at the end of this checklist for document in the space is provided at the end of this checklist for documenting other of the space is provided at the end of this checklist for documenting other of the space is provided at the end of this checklist for documenting other of the space is provided at the end of this checklist for documenting other of the space is provided at the end of this checklist for documenting other of the space is provided at the end of this checklist for documenting other of the space is provided at the end of this checklist for documenting other of the space is provided at the end of this checklist for documenting other of the space is provided at the end of this checklist for documenting other of the space is provided at the end of this checklist for documenting other of the space is provided at the end of the end of the space is provided at the end of the e	ults 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)?	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? Fan is anchored at ceiling, well-supported and acceptable.	Yes

Sojemic W	alkdown Checklist	(SIAIC)	Status: Y N U
	Equipment ID No.:		
	• •	(9) Fans	
		ASSY - U-1 MISC ELEC EQUIP RM DIV 12 EXH FAN	· · · · · · · · · · · · · · · · · · ·
Interaction		en improved by a nearby constitution and an education of	Van
7. Are	son targets free fro	m impact by nearby equipment or structures?	Yes
		nt, distribution systems, ceiling tiles and lighting, and tilkely to collapse onto the equipment?	Yes
	,	timely to compact one and equipment.	
9. Do	attached lines have	adequate flexibility to avoid damage?	Yes
J. 20	attached intes have	adequate nexionity to avoid damage:	163
		,	
		ismic interaction evaluations, is equipment free of mic interaction effects?	Yes
,	,		
	erse Conditions		.,
	-	d found no adverse seismic conditions that could ety functions of the equipment?	Yes
uu.	ordery amout and da	oty functions of the equipment:	
Comments			
Seismic wa	kdown team M. De	aney & P. Gazda 8-8-12 am	
•	Marle	e M Selany	
Evaluated b			10/5/2012
		Shack Phillip Condo	
	<u> </u>	Philip Gazda	10/5/2012

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 1VE05C

Equipment Class: (9) Fans

Equipment Description: ASSY - U-1 MISC ELEC EQUIP RM DIV 12 EXH FAN







1VE05C Byron 1 & 2 8-8-12 015

Byron Generating Station Unit 1 12Q0108.20-R-001 Rev. 1

Correspondence No.: RS-12-161

Sheet 1 of 5

Status: Y N U Seismic Walkdown Checklist (SWC) Equipment ID No.: 1VP01AA Equipment Class: (10) Air Handlers Equipment Description: CNMT ESS'L SERVICE WATER COIL 1A (RCFC) Project: Byron 1 SWEL Location (Bldg, Elev, Room/Area): Cont, 377.00 ft, ALL Manufacturer/Model: **Instructions for Completing Checklist** This checklist may be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments. **Anchorage** Is anchorage configuration verification required (i.e., is the item one of the 50% No of SWEL items requiring such verification)? Yes 2. Is the anchorage free of bent, broken, missing or loose hardware? 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?

Sheet 2 of 5

Correspondence No.: RS-12-161

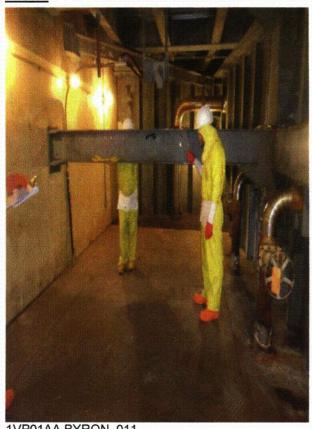
Status: Seismic Walkdown Checklist (SWC) Equipment ID No.: 1VP01AA Equipment Class: (10) Air Handlers Equipment Description: CNMT ESS'L SERVICE WATER COIL 1A (RCFC) **Interaction Effects** 7. Are soft targets free from impact by nearby equipment or structures? Yes 8. Are overhead equipment, distribution 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? Yes 10. Based on the above seismic interaction evaluations, is equipment free of 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: P. Gazda & J. Griffith - 9/19/2012 Evaluated by: James Griffith Date: 10/5/2012 Philip Gazda 10/5/2012

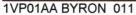
Seismic Walkdown Checklist (SWC)

Equipment ID No.: 1VP01AA

Equipment Class: (10) Air Handlers

Equipment Description: CNMT ESS'L SERVICE WATER COIL 1A (RCFC)







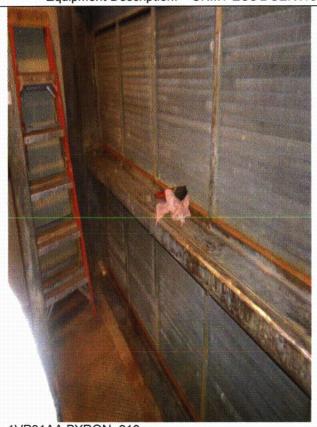
1VP01AA BYRON 012

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 1VP01AA

Equipment Class: (10) Air Handlers

Equipment Description: CNMT ESS'L SERVICE WATER COIL 1A (RCFC)





1VP01AA BYRON 013

1VP01AA BYRON 015

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 1VP01AA

Equipment Class: (10) Air Handlers

Equipment Description: CNMT ESS'L SERVICE WATER COIL 1A (RCFC)



1VP01AA BYRON 014

Byron Generating Station Unit 1 12Q0108.20-R-001 Rev. 1

Correspondence No.: RS-12-161

Sheet 1 of 3

Status: Y N U Seismic Walkdown Checklist (SWC) Equipment ID No.: 1VX07J Equipment Class: (20) Instrumentation and Control Panels and Cabinets Equipment Description: ESF SWGR RM DIV 12 HVAC DMPR START PNL Project: Byron 1 SWEL Location (Bldg, Elev, Room/Area): Auxiliary, 426.00 ft, ALL Manufacturer/Model: Instructions for Completing Checklist This checklist may be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments. **Anchorage** Is anchorage configuration verification required (i.e., is the item one of the 50% Yes of SWEL items requiring such verification)? 2. Is the anchorage free of bent, broken, missing or loose hardware? Yes Is the anchorage free of corrosion that is more than mild surface oxidation? Yes 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.) Drawing 6E-0-3391H Revision AH Yes Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?

Status: Y N U

Seismic Walkdown Checklist (SWC)			
	Equipment ID No.:	1VX07J	
	Equipment Class:	(20) Instrumentation and Control Panels and Cabinets	
İ	Equipment Description:	ESF SWGR RM DIV 12 HVAC DMPR START PNL	
Interaction Effects			
7.	Are soft targets free from	om impact by nearby equipment or structures?	Yes
8.	8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Masonry walls are seismic and would not collapse on equipment		
9.	Do attached lines have	e 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 Yes adversely affect the safety functions of the equipment?			
Comments			
Seismic walkdown team M. Delaney & P. Gazda 8/8/12 am			
Evalua		Marlene Delaney Date: 10/5/2012	
	0.0	Philip Gazda 10/5/2012	

Seismic Walkdown Checklist	(SWC)	Status: Y N U
Equipment ID No.:	1VX07J	
Equipment Class:	(20) Instrumentation and Control Panels and Cabinets	
Equipment Description:	ESF SWGR RM DIV 12 HVAC DMPR START PNL	
<u>Photos</u>		 ·
None.		



Area Walk-By Checklists (AWCs)

Table D-1 provides the building, elevation, and location of each area as well as a list of SWEL items associated with each area, and page numbers of each Area Walk-By Checklist.

Table D-1. Summary of Area Walk-By Checklists

AREA WALK-BY	DESCRIPTION	COMPONENT	COMMENTS	PAGE
1	Aux El 451 Unit 1 and 2 Control Room	1PM05J		D - 5
5	Aux El 463 Upper Cable Spreading Room (0VC08Y)	0VC08Y		D - 7
6	Aux El 451 U1 & U2 HV(0VC08Y, 0VC09Y)	0VC09Y		D - 9
	· · · · · · · · · · · · · · · · · · ·	1PA01J		
		1PA02J		
		1PA03J		
		1PA04J		
		1PA06J		
		1PA07J		
		1PA08J		
		1PA09J		
		1PA10J		
		1PA12J		
		1PA14J		
		1PA27J		
		1PA28J		
		1PA33J		
		1PA34J		
		1PA51J		
8	Aux El 451 Unit 1 AEER	1PA52J		D - 11
	Aux El 451 Unit 1 and 2 (U1 HV - 0VC01JA,	0VC01JA		
9	0VC15J, 0VC02FA)	0VC15J		D - 13
12	RWST U1 and U2 (outside)	1SI01T		D - 15
13	Aux El 401 MSIV 1B/1C Room	1MS018B		D - 17
14	Aux El 377 MSIV 1A/1D Room	1PT-0516		D - 19
	, lax 21 or / mort is the free in	1MS001A		
15	Aux El 401 MSIV 1A/1D Room	1MS018A		D - 21
-,-	A LE TO T MOTO 17 OTE TOOM	1AP93E	<u> </u>	
16	ESWCT EI 377 Unit 1 SX A Cooling Room	1AP99E		D - 23
10	ESTABLE OF SIME LOCAL COOKING ROOM	0SX162A		D 20
18	ESWCT Alpha Valve Room	0WW019A		D - 25
10		1AP92E		D 20
20	ESWCT South Elec Room	1AP98E		D - 27
22	ESWCT ROOF	NONE		D - 29
	LOWOT ROOF	1DG01KB		D - 23
		1PL08J		
		1SX169B		
23	Aux El 401, Diesel Generator 1DG01KB	1VD01CB		D - 31
26	Aux El 373, Diesel Oil Storage Tank Room	1DO01TB		D - 31
20	Aux El 373, Diesei Oli Stolage Talik Rooffi	1DC011B		D - 33
		1DC05E		
		1IP05E		
00	Ann El 454 H4 MEED Division 4	1IP07E		D 05
28	Aux El 451 U1 MEER Division 1	1RD05E		D - 35
29	Aux El. 451, Battery Room 111	1DC01E		D - 37

AREA WALK-BY	DESCRIPTION	COMPONENT	COMMENTS	PAGE
VVALIC-DT		1DC04E		
		1DC04E		
		1DC11J		
		1IP08E		
30	Aux El 451, U1 MEER Division 2	1VE05C		D - 39
31	Aux El 451, Battery Room 112	1DC02E		D - 39
31	Aux E1431, ballery Rootti 112	1AP06E		0-41
	·	1AP12E		
20	Anna El 400 Bio 40 Conitabana an Banara	1AP13E	<u> </u>	D 40
32	Aux El 426, Div 12 Switchgear Room	1VX07J		D - 43
33	Aux El 426, U1 4kV Div 1/Div 11 Room	1AP11E	014/51 0	D - 45
36		0FC03PA	SWEL 2	
		0FC8763	SWEL 2	
		OTI-FC007	SWEL 2	
	Aux El 364 Area 5 (curved wall near MCC)	1AP21E		D - 47
		1CV01PB		
,		1CV02SB		
37	Aux El 364 Centrifugal Charging Pump 1B	1VA11J		D - 49
		1LT-0932		
38	Aux El 364 & 379 RWST Tunnel	1SI8804B		D - 51
		1CC685		
		1CV112E		
		1CV8152		
		1FC010	SWEL 2	
		1FC8758	SWEL 2	
		1FC8766	SWEL 2	
		1RY8028		
		1SI8801B		
		1SI8809B		
39	Aux El varies, Area 5 curved wall at penetrations	1TE-0604		D - 53
40	Fuel Handling, El 426	0TIS-0626	SWEL 2	D - 55
41		1FC01A	SWEL 2	
		1FC8762A	SWEL 2	
		1FC8762B	SWEL 2	
		1FC8793	SWEL 2	
		1FC8794	SWEL 2	
	FH El 401 U1 Spent Fuel HX Room	1TI-0628	SWEL 2	D - 57
42		0FC8754	SWEL 2	
		1FC01P	SWEL 2	Ì
		1FC8756	SWEL 2	
	FH El 401 U1 & U2 Spent Fuel Pump Room	1HS-FC001	SWEL 2	D - 59
44		0PI-FC003	SWEL 2	
		1PI-0627	SWEL 2	1
	FH El 401 Adjacent to truckbay	1PI-0633	SWEL 2	D - 61
45	RSH El 702, A & B Pump Room	0SX02PB		D - 63
46	RSH El 702, Diesel Oil Storage Tank Room	0DO08TB		D - 65
47	Aux El 364 Unit 1 (open area)	1AF005E		D - 67

Table D-1 Page 2 of 3

AREA	DESCRIPTION	COMPONENT	COMMENTS	PAGE
WALK-BY	DESCRIPTION	ID	COMMENTS	PAGE
50	Aux El 346, Unit 1 near 1AP38E	1AP38E		D - 69
52		1SX005		
	•	1SX01FB		
· ·	·	1SX01PB		
	Aux El 330, B SX Pump Room	1VA01SB		D - 71
53	Aux El 426 near Q-12, S-13	1AP27E		D - 73
54	Aux El 414, Elec Penetration Area	1AP25E		D - 75
57	Aux El 383 (work with AWC 59)	1AP24E		D - 77
		1AF006B		
		1AF017B		
		1AF01EA-1		
		1AF01EB-A		
	,	1AF01PB		
		1AF024		
		1DO10T		
		1SX173		
58	Aux El 383 1B Aux Feed Pump Room	1VA08CB		D - 79
		1AP22E		
59	Aux El 383 (See AWC 57)	1FT-0132		D - 81
61	· .	0PI-FC005	SWEL 2	
	·	1CC01PB		
		1FT-0121		_
	Aux El 364 U1 and U2 open area	1FT-AF014		D - 83
62	Aux El 364, Centrifugal Charging Pump 1A	1VA06SA		D - 85
64	Aux El 364 1B RH HX Room	1RH607		D - 87
64a	Aux El 364 MCR Chillers	0WO01CB		D - 89
-66	·	1RH01PB		
		1RH01PB-A		
	Aux El 1B RH Pump Room	1VA02SB		D - 91
	Cont El 426 near 1RY32MA	1RY32MA		D - 93
	Cont El 451 near 1RY455A	1RY455A		D - 95
	Cont El 412 near 1LT-0518	1LT-0518		D - 97
	Cont El 377 near 1RH8702A	1RH8702A		D - 99
	Cont El 377 near 1VP01AA (inside Plenum)	1VP01AA		D - 101
	Cont El 377 near 1LT-0459	1LT-0459	•	D - 103
Outage-7	Cont El 390 near 1TE-RC022A	1TE-RC022A		D - 105

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Status: Y N U

Area Walk-By Checklist (AWC)

Location (Bldg, Elev, Room/Area): Area Walk-by 01 Aux El 451 Unit 1 and 2 Control Room

Instructions for Completing Checklist

This checklist may be used to document the results of the Area Walk-By near one or more SWEL items. 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.

1. Does anchorage of equipment in the area appear to be free of potentially Yes adverse seismic conditions (if visible without necessarily opening cabinets)? 2. Does anchorage of equipment in the area appear to be free of significant Yes degraded conditions? 3. Based on a visual inspection from the floor, do the cable/conduit raceways and Yes HVAC ducting appear to be free of potentially adverse seismic conditions (e.g., condition of supports is adequate and fill conditions of cable trays appear to be inside acceptable limits)? 4. Does it appear that the area is free of potentially adverse seismic spatial Yes interactions with other equipment in the area (e.g., ceiling tiles and lighting)? Calculation 8.11.6.9-BYR03-070 Rev 0 generated for ceiling tiles and determined that they would not fall in a seismic event. Diffuser panel at Panels 1PM07J and 1PM08J is sagging but it is not a structural/seismic issue since they are lightweight and would have no impact if they fell - IR 1397699 written for repair 5. Does it appear that the area is free of potentially adverse seismic interactions Yes that could cause flooding or spray in the area? 6. Does it appear that the area is free of potentially adverse seismic interactions Yes that could cause a fire in the area? 7. Does it appear that the area is free of potentially adverse seismic interactions Yes

associated with housekeeping practices, storage of portable equipment, and

Area Walk-By Checklist (AWC)	Status: Y N U
Location (Bldg, Elev, Room/Area): Area Walk-by 01 Aux El 451 Unit 1 and 2 Contro	ol Room
temporary installations (e.g., scaffolding, lead shielding)?	ST TOOM
Locker and cabinets on east wall have adequate standoff distance that there are no seismic interaction issues with safety related equipment. Also the cabinets and locker are on carpeting and would not easily slide due to friction between the carpet and cabinets. 8. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment in the area? There are loose screws on the backs of several control board panels. Most were tightened by the equipment operator as the walkdowns were performed. The following IR addresses screws that were stripped or couldn't be tightened: IR 1399487	Yes
Comments Seismic walkdown team M. Delaney & P. Gazda 8/6/12 am	
Evaluated by: Marlene Delaney Date:	10/5/2012
C.C. Mych Philip Gazda	10/5/2012
Photos None	·

Sheet 1 of 2

Status: Y N U

Area Walk-By Checklist (AWC)

Location (Bldg, Elev, Room/Area): Area Walk-by 05 Aux El 463 Upper Cable Spreading Room (0VC08Y)

Instructions for Completing Checklist

This checklist may be used to document the results of the Area Walk-By near one or more SWEL items. 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.

dditic	onal space is provided at the end of this checklist for documenting other comments.	
1.	Does anchorage of equipment in the area appear to be free of potentially adverse seismic conditions (if visible without necessarily opening cabinets)?	Yes
2.	Does anchorage of equipment in the area appear to be free of significant degraded conditions?	Yes
3.	Based on a visual inspection from the floor, do the cable/conduit raceways and HVAC ducting appear to be free of potentially adverse seismic conditions (e.g., condition of supports is adequate and fill conditions of cable trays appear to be inside acceptable limits)?	Yes
4.	Does it appear that the area is free of potentially adverse seismic spatial interactions with other equipment in the area (e.g., ceiling tiles and lighting)?	Yes
5.	Does it appear that the area is free of potentially adverse seismic interactions that could cause flooding or spray in the area?	Yes
6.	Roof drain has Vitaulic couplings but piping is well-supported laterally and vertically and is acceptable. Does it appear that the area is free of potentially adverse seismic interactions that could cause a fire in the area?	Yes
7.	Does it appear that the area is free of potentially adverse seismic interactions associated with housekeeping practices, storage of portable equipment, and temporary installations (e.g., scaffolding, lead shielding)?	Yes

Area Walk-By Cho	acklist (AWC)				Status:	∏N U
•	, Elev, Room/Area):	Area Walk-by 0	5 Aux El 463 Upper Ca	able Sprea	ding Room (0\	/C08Y)
adversely <i>Water da</i>	affect the safety funct	tions of the equip	conditions that could oment in the area? al/seismic issue since i	it is not		Yes
does not for Comments	, ,	l component - pu	seismic issue since tra irpose is to protect cab	-		- A 3,000 M
Evaluated by:	Marlene M		Marlene Delaney azda	Date: _ 	10/5/2012	
Photos None.	:				· 	·.

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Status: Y N U

Area Walk-By Checklist (AWC)

Location (Bldg, Elev, Room/Area): Area Walk-by 06 Aux El 451 U1 & U2 HV(0VC09Y)

Instructions for Completing Checklist

This checklist may be used to document the results of the Area Walk-By near one or more SWEL items. 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.

 Does anchorage of equipment in the area appear to be free of potentially Yes adverse seismic conditions (if visible without necessarily opening cabinets)? 2. Does anchorage of equipment in the area appear to be free of significant Yes degraded conditions? 3. Based on a visual inspection from the floor, do the cable/conduit raceways and Yes HVAC ducting appear to be free of potentially adverse seismic conditions (e.g., condition of supports is adequate and fill conditions of cable trays appear to be inside acceptable limits)? 4. Does it appear that the area is free of potentially adverse seismic spatial Yes interactions with other equipment in the area (e.g., ceiling tiles and lighting)? Masonry walls are seismic and would not collapse on equipment 5. Does it appear that the area is free of potentially adverse seismic interactions Yes that could cause flooding or spray in the area? Does it appear that the area is free of potentially adverse seismic interactions Yes that could cause a fire in the area? 7. Does it appear that the area is free of potentially adverse seismic interactions Yes associated with housekeeping practices, storage of portable equipment, and temporary installations (e.g., scaffolding, lead shielding)?

Status:	Υ	N	U	
^				

Area Walk-By Checklist (AWC)

		00.4 51.454.514.0.110		2010	
8. Have you adversely <i>Water o</i>	g, Elev, Room/Area): Area Walk-by looked for and found no other seism affect the safety functions of the equ n floor due to leak above and drain lin /seismic issue since not near critical	ic conditions that could uipment in the area? ne condensation. Not a			Yes
Comments Seismic walkdowr	n team M. Delaney & P. Gazda 8/6/12	2 pm			
Evaluated by:	Marlere M Seleny	Marlene Delaney	Date:	10/5/2012	
·	C.O. Shapeh Phillip	Gazda	·	10/5/2012	· · · · · · · · · · · · · · · · · · ·
Photos None.		·			

Correspondence No.: RS-12-161 Sheet 1 of 2

Status: Y N U

Area Walk-By Checklist (AWC)

Location (Bldg, Elev, Room/Area): Area Walk-by 08 Aux El 451 Unit 1 AEER

Instructions for Completing Checklist

This checklist may be used to document the results of the Area Walk-By near one or more SWEL items. 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.

 Does anchorage of equipment in the area appear to be free of potentially adverse seismic conditions (if visible without necessarily opening cabinets)?
 See discussion in Section 5 of report to address cove molding at anchorage detail. Anchorage is judged to be acceptable. Yes

2. Does anchorage of equipment in the area appear to be free of significant degraded conditions? Yes

3. Based on a visual inspection from the floor, do the cable/conduit raceways and HVAC ducting appear to be free of potentially adverse seismic conditions (e.g., condition of supports is adequate and fill conditions of cable trays appear to be inside acceptable limits)?

Yes

4. Does it appear that the area is free of potentially adverse seismic spatial interactions with other equipment in the area (e.g., ceiling tiles and lighting)? . Numerous partially open S-hooks identified. It is unlikely that the lights would become disengaged since the hooks are only partially open and not all hooks are open - judged acceptable. IR 1397693 written.

Yes

- Masonry walls are seismic and would not collapse on equipment.
- 5. Does it appear that the area is free of potentially adverse seismic interactions that could cause flooding or spray in the area?

Yes

6. Does it appear that the area is free of potentially adverse seismic interactions that could cause a fire in the area?

Yes

7. Does it appear that the area is free of potentially adverse seismic interactions associated with housekeeping practices, storage of portable equipment, and temporary installations (e.g., scaffolding, lead shielding)?

Yes

Area Walk-By Ch	ecklist (AWC)			Status: Y N U
Location (Bldg	Elev, Room/Area): A	rea Walk-by 08 Aux El 451 Unit 1 A	EER	
•		other seismic conditions that could ns of the equipment in the area?		Yes
Comments				
Seismic walkdown	team M. Delaney & P. 0	Gazda 8/6/12 pm		
Evaluated by:	Marlene M. A.	Marlene Delaney	Date:	10/5/2012
	C.O. Mya	Philip Gazda		10/5/2012
			·	
Photos None.				

Byron Generating Station Unit 1 12Q0108.20-R-001 Rev. 1

Correspondence No.: RS-12-161 Sheet 1 of 2

Status: Y N U

Area Walk-By Checklist (AWC)

Area Walk-by 09 Aux El 451 Unit 1 and 2 (U1 HV - 0VC01JA,

Location (Bldg, Elev, Room/Area): 0VC15J, 0VC02FA)

Instructions for Completing Checklist

This checklist may be used to document the results of the Area Walk-By near one or more SWEL items. 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.

1. Does anchorage of equipment in the area appear to be free of potentially adverse seismic conditions (if visible without necessarily opening cabinets)?

Yes

2. Does anchorage of equipment in the area appear to be free of significant degraded conditions?

Yes

3. Based on a visual inspection from the floor, do the cable/conduit raceways and HVAC ducting appear to be free of potentially adverse seismic conditions (e.g., condition of supports is adequate and fill conditions of cable trays appear to be inside acceptable limits)? Yes

4. Does it appear that the area is free of potentially adverse seismic spatial interactions with other equipment in the area (e.g., ceiling tiles and lighting)? Masonry walls are seismic and would not collapse on equipment Yes

5. Does it appear that the area is free of potentially adverse seismic interactions that could cause flooding or spray in the area?
Fire protection piping is well-supported. Fire protection valve 0FP332 valve is leaking but is not near critical components so not an immediate concern.

IR1397710 was written to repair.

Yes

Roof drain line with Victaulic couplings enters room and drops down and up (similar to a U shape) and exits room. Line could swing from side to side resulting in leaking at the top couplings however the equipment below is partially sealed with closed entry points and tops so no water damage could occur. IR 1397711 was written.

6. Does it appear that the area is free of potentially adverse seismic interactions that could cause a fire in the area?

Yes

Area Walk-By Checklist (A		s: Y N U
Location (Bldg, Elev, R	Area Walk-by 09 Aux El 451 Unit 1 and 2 (U1 HV - 0VC0	1JA,
associated with hou	the area is free of potentially adverse seismic interactions usekeeping practices, storage of portable equipment, and ons (e.g., scaffolding, lead shielding)?	Yes
•	r and found no other seismic conditions that could safety functions of the equipment in the area?	Yes
Comments		
Seismic walkdown team M.	Delaney & P. Gazda 8/6/12 pm	
Evaluated by:	Marlene Delaney Date: 10/5/201:	2
	Philip Gazda 10/5/201	2
Photos None		•

Correspondence No.: RS-12-161 Sheet 1 of 2

Status: Y N U

Area Walk-By Checklist (AWC)

Location (Bldg, Elev, Room/Area): Area Walk-by 12 RWST U1 and U2 (outside) **Instructions for Completing Checklist** This checklist may be used to document the results of the Area Walk-By near one or more SWEL items. 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. 1. Does anchorage of equipment in the area appear to be free of potentially Yes adverse seismic conditions (if visible without necessarily opening cabinets)? 2. Does anchorage of equipment in the area appear to be free of significant Yes degraded conditions? 3. Based on a visual inspection from the floor, do the cable/conduit raceways and Yes HVAC ducting appear to be free of potentially adverse seismic conditions (e.g., condition of supports is adequate and fill conditions of cable trays appear to be inside acceptable limits)? 4. Does it appear that the area is free of potentially adverse seismic spatial Yes interactions with other equipment in the area (e.g., ceiling tiles and lighting)? 5. Does it appear that the area is free of potentially adverse seismic interactions Yes that could cause flooding or spray in the area? 6. Does it appear that the area is free of potentially adverse seismic interactions Yes that could cause a fire in the area?

Area Walk-By Che	ecklist (AWC)	Status: Y N U
_		
7. Does it appassociated temporary Two very acceptable Equipment	pear that the area is free of potentially adverse seismic interactions di with housekeeping practices, storage of portable equipment, and installations (e.g., scaffolding, lead shielding)? I large scaffolds adjacent to tanks are well-braced and anchored - e. It carts near tanks have wheels chocked - not credible considering quration (large reinforced concrete tank)	Yes
8. Have you l adversely a	looked for and found no other seismic conditions that could affect the safety functions of the equipment in the area? Increte spalling/cracking - no structural/seismic impact.	Yes
Comments Seismic walkdown	team M. Delaney & P. Gazda 8/7/12 am	
Evaluated by:	Marlene Delaney Date:	10/5/2012
	C. U. Shych Philip Gazda	10/5/2012
Photos None.		

orrespondence No.: RS-12-161 Sheet 1 of 2

Status: Y N U

Area Walk-By Checklist (AWC)

Location (Bldg, Elev, Room/Area): Area Walk-by 13 Aux El 401 MSIV 1B/1C Room

Instructions for Completing Checklist This checklist may be used to document the results of the Area Walk-By near one or more SWEL items. 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. 1. Does anchorage of equipment in the area appear to be free of potentially Yes adverse seismic conditions (if visible without necessarily opening cabinets)? 2. Does anchorage of equipment in the area appear to be free of significant Yes degraded conditions? Yes 3. Based on a visual inspection from the floor, do the cable/conduit raceways and HVAC ducting appear to be free of potentially adverse seismic conditions (e.g., condition of supports is adequate and fill conditions of cable trays appear to be inside acceptable limits)? 4. Does it appear that the area is free of potentially adverse seismic spatial Yes interactions with other equipment in the area (e.g., ceiling tiles and lighting)? 5. Does it appear that the area is free of potentially adverse seismic interactions Yes that could cause flooding or spray in the area? 6. Does it appear that the area is free of potentially adverse seismic interactions Yes that could cause a fire in the area?

Aroa Walk By	Checklist (AWC)	Status: Y N U
Area Walk-by	Diecklist (AWC)	
Location (B	dg, Elev, Room/Area): Area Walk-by 13 Aux El 401 MSIV 1B/1C Room	
	appear that the area is free of potentially adverse seismic interactions	Yes
	ted with housekeeping practices, storage of portable equipment, and	
•	ry installations (e.g., scaffolding, lead shielding)?	
	handrail tied off with rope in accordance with Byron Seismic	
Housek	eeping Procedure	
Perman	ent scaffolds in area is well-supported and tied off in accordance with	•
Exelon	Scaffold Procedure	
	u looked for and found no other seismic conditions that could	Yes
	ly affect the safety functions of the equipment in the area?	
-	dation at ceiling at containment wall. The joints in question are made	
· · · · · · · · · · · · · · · · · · ·	me sort of compressible/flexible material. Since the containment	•
	e is a standalone structure and is analyzed and designed that way	
	a gap between it and an adjacent structure (like the MSIV rooms). The ized to allow seismic movements of each structure and is filled with the	
• .	material. The material is only there to close the opening and has no	
	al or seismic significance.	
Comments		
	vn team M. Delaney & P. Gazda 8/7/12 am	
Seisiffic Walkub	will team wil. Delaney & F. Gazda of 1712 am	
	Marline M Selasy	
	Marline M Silary	
Evaluated by:	()	10/5/2012
Evaluated by:	Marlene Delaney Date:	10/3/2012
	C. U. Shach Britis Condo	٠
	C.U. Mayan Philip Gazda	10/5/2012
•	- Timp Gazda	10/0/2012
Photos		
None.		

Correspondence No.: RS-12-161 Sheet 1 of 2

Status: Y N U

Area Walk-By Checklist (AWC)

Location (Bldg, Elev, Room/Area): Area Walk-by 14 Aux El 377 MSIV 1A/1D Room

Instructions for Completing Checklist

This checklist may be used to document the results of the Area Walk-By near one or more SWEL items. 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.

	anal space is provided at the end of this checklist for documenting other comments.	
1.	Does anchorage of equipment in the area appear to be free of potentially adverse seismic conditions (if visible without necessarily opening cabinets)?	Yes
2.	Does anchorage of equipment in the area appear to be free of significant degraded conditions?	Yes
3.	Based on a visual inspection from the floor, do the cable/conduit raceways and HVAC ducting appear to be free of potentially adverse seismic conditions (e.g., condition of supports is adequate and fill conditions of cable trays appear to be inside acceptable limits)?	Yes
4.	Does it appear that the area is free of potentially adverse seismic spatial interactions with other equipment in the area (e.g., ceiling tiles and lighting)?	Yes
5.	Does it appear that the area is free of potentially adverse seismic interactions that could cause flooding or spray in the area?	Yes
6.	Does it appear that the area is free of potentially adverse seismic interactions that could cause a fire in the area?	Yes
7.	Does it appear that the area is free of potentially adverse seismic interactions associated with housekeeping practices, storage of portable equipment, and temporary installations (e.g., scaffolding, lead shielding)?	Yes

					Status: Y	ט א [
Area Walk-By Ch	ecklist (AWC)			, .		
Location (Bldg	, Elev, Room/Area):	Area Walk-by	14 Aux El 377 MSIV 1A	/1D Room	1	
adversely NRC ide	looked for and found affect the safety func ntified broken FME co seismic issue.	tions of the equi				Yes
Comments			•			
	team M. Delaney & F	P. Gazda 8/7/12	am			
Evaluated by:	Marlere M	Seleny	Mariene Delaney	Date:	10/5/2012	
	C.O. My	A Philip (Gazda	_	10/5/2012	-
· · · · · · · · · · · · · · · · · · ·		·		•		
<u>Photos</u>						
None.						

Correspondence No.: RS-12-161 Sheet 1 of 2

Status: Y N U

Area Walk-By Checklist (AWC)

Location (Bldg, Elev, Room/Area): Area Walk-by 15 Aux El 401 MSIV 1A/1D Room

Instructions for Completing Checklist This checklist may be used to document the results of the Area Walk-By near one or more SWEL items. 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.

1. Does anchorage of equipment in the area appear to be free of potentially adverse seismic conditions (if visible without necessarily opening cabinets)? Yes

2. Does anchorage of equipment in the area appear to be free of significant degraded conditions?

Yes

3. Based on a visual inspection from the floor, do the cable/conduit raceways and HVAC ducting appear to be free of potentially adverse seismic conditions (e.g., condition of supports is adequate and fill conditions of cable trays appear to be inside acceptable limits)?

Yes

4. Does it appear that the area is free of potentially adverse seismic spatial interactions with other equipment in the area (e.g., ceiling tiles and lighting)?

Yes

5. Does it appear that the area is free of potentially adverse seismic interactions that could cause flooding or spray in the area?

Yes

6. Does it appear that the area is free of potentially adverse seismic interactions that could cause a fire in the area?

Yes

04-4	<u> </u>		
Status:	ΙΥ.	N N	U

Area waik-by Checklist (AWC)				
Location (Bldg	Elev, Room/Area): Area Walk-by 15 Aux El 401 MSIV 1A/1D Ro	om		
7. Does it appear that the area is free of potentially adverse seismic interactions associated with housekeeping practices, storage of portable equipment, and temporary installations (e.g., scaffolding, lead shielding)?				
Permanen Scaffold Pi	scaffolds well-supported and tied off in accordance with Exelon ocedure			
adversely a Floor sea	pooked for and found no other seismic conditions that could affect the safety functions of the equipment in the area? If at containment is degraded. IR 1398191 written. Not a seismic issue since the joint is not a barrier and does serve a function.	Yes		
Comments				
	team M. Delaney & P. Gazda 8/7/12 am			
Evaluated by:	Marlene Delaney Date	e: 10/5/2012		
	C.a. Mych Phillip Gazda	10/5/2012		
Photos				
None.				

Byron Generating Station Unit 1 12Q0108.20-R-001 Rev. 1

Correspondence No.: RS-12-161

Status:

Sheet 1 of 2

Area Walk-By Checklist (AWC)

Location (Bldg, Elev, Room/Area): Area Walk-by 16 ESWCT El 377 Unit 1 SX A Cooling Room (

Instructions for Completing Checklist

This checklist may be used to document the results of the Area Walk-By near one or more SWEL items. 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.

1. Does anchorage of equipment in the area appear to be free of potentially Yes adverse seismic conditions (if visible without necessarily opening cabinets)? 2. Does anchorage of equipment in the area appear to be free of significant Yes degraded conditions? 3. Based on a visual inspection from the floor, do the cable/conduit raceways and Yes HVAC ducting appear to be free of potentially adverse seismic conditions (e.g., condition of supports is adequate and fill conditions of cable trays appear to be inside acceptable limits)? 4. Does it appear that the area is free of potentially adverse seismic spatial Yes interactions with other equipment in the area (e.g., ceiling tiles and lighting)? 5. Does it appear that the area is free of potentially adverse seismic interactions Yes that could cause flooding or spray in the area? Does it appear that the area is free of potentially adverse seismic interactions Yes that could cause a fire in the area?

		Status: Y N U
Area Walk-By Cho	ecklist (AWC)	
Location (Bldg	, Elev, Room/Area): Area Walk-by 16 ESWCT El 377 Unit 1 SX A Coo	oling Room (
7. Does it appassociated temporary Partially of the hooks acceptable Operation	pear that the area is free of potentially adverse seismic interactions d with housekeeping practices, storage of portable equipment, and installations (e.g., scaffolding, lead shielding)? open S-hooks in room. Unlikely that lights would disengage since are only slightly open and not all hooks are open. Therefore e. IR 1398127 written to close. HVS gear cabinet on west wall has adequate standoff distance in the with Byron Seismic Housekeeping Procedure.	Yes
8. Have you l adversely Hairline o wall (uppe structural/s	looked for and found no other seismic conditions that could affect the safety functions of the equipment in the area? diagonal cracks on east and south wall and at door frame on west r corner). Cracks are small and therefore judged not to be a seismic issue (noted for NP-6695).	Yes
Comments		
Seismic walkdown	team M. Delaney & P. Gazda 8/7/12 am	
Evaluated by:	Marlene Delaney Date:	10/5/2012
	C.O. Mych Philip Gazda	10/5/2012
Photos		
None.		•
•		

Correspondence No.: RS-12-161 Sheet 1 of 2

Status: Y N U

Area Walk-By Checklist (AWC)

Location (Bldg, Elev, Room/Area): Area Walk-by 18 ESWCT Alpha Valve Room

Instructions for Completing Checklist

This checklist may be used to document the results of the Area Walk-By near one or more SWEL items. 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.

	nal space is provided at the end of this checklist for documenting other comments.	•
1.	Does anchorage of equipment in the area appear to be free of potentially adverse seismic conditions (if visible without necessarily opening cabinets)?	Yes
•		Yes
2.	Does anchorage of equipment in the area appear to be free of significant degraded conditions?	ies
3.	Based on a visual inspection from the floor, do the cable/conduit raceways and HVAC ducting appear to be free of potentially adverse seismic conditions (e.g.,	Yes
	condition of supports is adequate and fill conditions of cable trays appear to be inside acceptable limits)?	
4.	Does it appear that the area is free of potentially adverse seismic spatial interactions with other equipment in the area (e.g., ceiling tiles and lighting)?	Yes
5.	Does it appear that the area is free of potentially adverse seismic interactions that could cause flooding or spray in the area?	Yes
6.	Does it appear that the area is free of potentially adverse seismic interactions	Yes
	that could cause a fire in the area?	
7.	Does it appear that the area is free of potentially adverse seismic interactions associated with housekeeping practices, storage of portable equipment, and temporary installations (e.g., scaffolding, lead shielding)?	Yes

Area Walk-By Che	ecklist (AWC)				Status:	Y N U
Location (Bldg	, Elev, Room/Area):	Area Walk-by 1	8 ESWCT Alpha Valve	Room		
adversely a Hairline v	affect the safety func	tions of the equip	conditions that could oment in the area? It to be a structural/sei	smic	•	Yes
Comments Seismic walkdown	team M. Delaney & I	P. Gazda 8/7/12	am			· · · · · · · · ·
Evaluated by:	Marlene My		Marlene Delaney azda	_ Date:	10/5/2012	
Photos None.						

respondence No.: RS-12-161 Sheet 1 of 2

Status: Y N U

Area Walk-By Checklist (AWC)

Location (Bldg, Elev, Room/Area): Area Walk-by 20, ESWCT South Elec Room

Instructions for Completing Checklist

that could cause a fire in the area?

This checklist may be used to document the results of the Area Walk-By near one or more SWEL items. 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.

1. Does anchorage of equipment in the area appear to be free of potentially Yes adverse seismic conditions (if visible without necessarily opening cabinets)? Does anchorage of equipment in the area appear to be free of significant Yes degraded conditions? 3. Based on a visual inspection from the floor, do the cable/conduit raceways and Yes HVAC ducting appear to be free of potentially adverse seismic conditions (e.g., condition of supports is adequate and fill conditions of cable trays appear to be inside acceptable limits)? 4. Does it appear that the area is free of potentially adverse seismic spatial Yes interactions with other equipment in the area (e.g., ceiling tiles and lighting)? S-hooks appear closed from floor. IR 1398127 written as an extent of condition to check all S-hooks in ESWCT. 5. Does it appear that the area is free of potentially adverse seismic interactions Yes that could cause flooding or spray in the area? 6. Does it appear that the area is free of potentially adverse seismic interactions Yes

Area Walk-By Ch	ecklist (AWC)	Status: [YNU
Location (Bldg	, Elev, Room/Area): Area Walk-by 20, ESWCT South Elec Room		
associated temporary Storage	pear that the area is free of potentially adverse seismic interactions d with housekeeping practices, storage of portable equipment, and installations (e.g., scaffolding, lead shielding)? box at south wall more than 12" away from transformer in see with Byron Seismic Housekeeping Procedure		Yes
adversely Water lea concrete - Missing bo	looked for and found no other seismic conditions that could affect the safety functions of the equipment in the area? aking at north wall (not active leak), numerous small cracks in judged not to be a structural/seismic issue. Out at 1AP98E top panel - adequate bolts in place - judged not a seismic issue		Yes
Comments Seismic walkdown	team M. Delaney & P. Gazda 8/7/12 am		
Evaluated by:	Mariene Delaney Date:	10/5/2012	
,	C.C. Shydh Philip Gazda	10/5/2012	•
Photos None.			

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Correspondence No.: RS-12-161 Sheet 1 of 2

Status: Y N U

Area Walk-By Checklist (AWC)

Location (Bldg, Elev, Room/Area): Area Walk-by 22 ESWCT roof

Instructions for Completing Checklist

This checklist may be used to document the results of the Area Walk-By near one or more SWEL items. 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.

dditio	nal space is provided at the end of this checklist for documenting other comments.	
1.	Does anchorage of equipment in the area appear to be free of potentially adverse seismic conditions (if visible without necessarily opening cabinets)? Eight SX Cooling Tower Motors are well-anchored. No other components in area.	Yes
2.	Does anchorage of equipment in the area appear to be free of significant degraded conditions?	Yes
3.	Based on a visual inspection from the floor, do the cable/conduit raceways and HVAC ducting appear to be free of potentially adverse seismic conditions (e.g., condition of supports is adequate and fill conditions of cable trays appear to be inside acceptable limits)?	Yes
4.	Does it appear that the area is free of potentially adverse seismic spatial interactions with other equipment in the area (e.g., ceiling tiles and lighting)?	Yes
5.	Does it appear that the area is free of potentially adverse seismic interactions that could cause flooding or spray in the area?	Yes
6.	Does it appear that the area is free of potentially adverse seismic interactions that could cause a fire in the area?	Yes
7.	Does it appear that the area is free of potentially adverse seismic interactions associated with housekeeping practices, storage of portable equipment, and temporary installations (e.g., scaffolding, lead shielding)?	Yes

Sheet 2 of 2

Area Walk-By Ch	ecklist (AWC)		Status: Y N U
Location (Bldg	Elev, Room/Area): Area Walk-by 22 ESWCT	roof	
adversely Small cra the small s	ooked for and found no other seismic conditions affect the safety functions of the equipment in the cks in concrete - judged not to be a structural/so ize ad components and no seismic spatial interaction	ne area? eismic issue due to	Yes
Comments	ad compenente and no colonic opalial interestic	m locaco.	
Evaluated by:	Marlene Marlene	Delaney Date:	10/5/2012
	C.C. Mych Philip Gazda		10/5/2012
Photos None.			,
	,		

Status: Y N U

Area Walk-By Checklist (AWC)

Location (Bldg, Elev, Room/Area): Area Walk-by 23, Aux El 401, Diesel Generator 1DG01KB

Instructions for Completing Checklist

This checklist may be used to document the results of the Area Walk-By near one or more SWEL items. 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.

	pelow each of the following questions may be used to record the results of judgments and findings. In all space is provided at the end of this checklist for documenting other comments.	
1.	Does anchorage of equipment in the area appear to be free of potentially adverse seismic conditions (if visible without necessarily opening cabinets)?	Yes
2.	Does anchorage of equipment in the area appear to be free of significant degraded conditions?	Yes
3.	Based on a visual inspection from the floor, do the cable/conduit raceways and HVAC ducting appear to be free of potentially adverse seismic conditions (e.g., condition of supports is adequate and fill conditions of cable trays appear to be inside acceptable limits)?	Yes
4.	Does it appear that the area is free of potentially adverse seismic spatial interactions with other equipment in the area (e.g., ceiling tiles and lighting)? Masonry walls are seismic and would not collapse on equipment	Yes
5.	Does it appear that the area is free of potentially adverse seismic interactions that could cause flooding or spray in the area?	Yes
6.	Does it appear that the area is free of potentially adverse seismic interactions that could cause a fire in the area?	Yes
7.	Does it appear that the area is free of potentially adverse seismic interactions associated with housekeeping practices, storage of portable equipment, and temporary installations (e.g., scaffolding, lead shielding)?	Yes

			Status: [YNU
Area Walk-By Ch	ecklist (AWC)		•	
Location (Bldg	g, Elev, Room/Area): Area Walk-by 23, Aux El 401, Diesel G	Senerator	1DG01KB	
	looked for and found no other seismic conditions that could		•	Yes
adversely	affect the safety functions of the equipment in the area?			
Comments			- -	
Comments				
	Ma Occasión de la companya della companya de la companya della com		· ·	
	Marlere M Selary			
Evaluated by:	Mariene Delaney	_ Date:	10/5/2012	
	C. C. Shyah Philip Gazda		10/5/2012	
		_		
		. <u></u>		
<u>Photos</u>				
None.				

Byron Generating Station Unit 1 12Q0108.20-R-001 Rev. 1

Correspondence No.: RS-12-161 Sheet 1 of 2

Status: Y N U

Area Walk-By Checklist (AWC)

Location (Bldg, Elev, Room/Area): Area Walk-by 26, Aux El 373, Diesel Oil Storage Tank Room **Instructions for Completing Checklist** This checklist may be used to document the results of the Area Walk-By near one or more SWEL items. 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. Does anchorage of equipment in the area appear to be free of potentially Yes adverse seismic conditions (if visible without necessarily opening cabinets)? 2. Does anchorage of equipment in the area appear to be free of significant Yes degraded conditions? Crack in grout pad for 1DO01TD that does not extend into the base slab. See SWC for 1D001TB and IR 1398190. Hairline crack is acceptable. 3. Based on a visual inspection from the floor, do the cable/conduit raceways and Yes HVAC ducting appear to be free of potentially adverse seismic conditions (e.g., condition of supports is adequate and fill conditions of cable trays appear to be inside acceptable limits)? 4. Does it appear that the area is free of potentially adverse seismic spatial Yes interactions with other equipment in the area (e.g., ceiling tiles and lighting)? 5. Does it appear that the area is free of potentially adverse seismic interactions Yes that could cause flooding or spray in the area? 6. Does it appear that the area is free of potentially adverse seismic interactions Yes that could cause a fire in the area? 7. Does it appear that the area is free of potentially adverse seismic interactions Yes associated with housekeeping practices, storage of portable equipment, and temporary installations (e.g., scaffolding, lead shielding)?

					Status: Y] N U
Area Walk-By Ch	ecklist (AWC)					
Location (Bld	g, Elev, Room/Area):	Area Walk-by 26, A	ux El 373, Diesel (Dil Storag	e Tank Room	
	•			•		
· ·	looked for and found r affect the safety functi					Yes
·						
Comments						
Seismic walkdowr	n team M. Delaney & P	. Gazda 8/7/12 pm				
Evaluated by:	Marlene M	[]	edone Delenev	Doto:	10/5/2012	
Evaluated by:		<u> </u>	arlene Delaney	_ Date:	10/5/2012	
	C.O. My	A Philip Gazd	a		10/5/2012	
<u>Photos</u>			·····			
None.						

Sheet 1 of 2

Status: Y N U

Area Walk-By Checklist (AWC)

Location (Bldg, Elev, Room/Area): Area Walk-by 28, Aux El 451 U1 MEER Division 1

Instructions for Completing Checklist

This checklist may be used to document the results of the Area Walk-By near one or more SWEL items. The sp Αc

pace 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.				
1.	Does anchorage of equipment in the area appear to be free of potentially adverse seismic conditions (if visible without necessarily opening cabinets)?	Yes		
2.	Does anchorage of equipment in the area appear to be free of significant degraded conditions?	Yes		
3.	Based on a visual inspection from the floor, do the cable/conduit raceways and HVAC ducting appear to be free of potentially adverse seismic conditions (e.g., condition of supports is adequate and fill conditions of cable trays appear to be inside acceptable limits)? 2 cable risers open but secured with grips - acceptable	Yes		
4.	Does it appear that the area is free of potentially adverse seismic spatial interactions with other equipment in the area (e.g., ceiling tiles and lighting)? Masonry walls are seismic and would not collapse on equipment	Yes		
5.	Does it appear that the area is free of potentially adverse seismic interactions that could cause flooding or spray in the area? Roof drain piping in room has Victaulic couplings but piping is vertically and laterally well-supported.	Yes		
6.	Does it appear that the area is free of potentially adverse seismic interactions that could cause a fire in the area?	Yes		
7.	Does it appear that the area is free of potentially adverse seismic interactions associated with housekeeping practices, storage of portable equipment, and temporary installations (e.g., scaffolding, lead shielding)?	Yes		

Status:	Y	N	U

Area Walk-By Checklist (AWC)

	,				
Location (Bldg	g, Elev, Room/Area): Area Walk-by 2	28, Aux El 451 U1 MEE	R Divisio	n 1	
	looked for and found no other seismic affect the safety functions of the equi				Yes
Comments					
	team M. Delaney & P. Gazda 8/8/12	am			
Ocisitiic Walkdowi	team w. Delaney & F. Gazda 6/6/12	am ·			
Evaluated by:	Marlere M Selesy	Marlene Delaney	_ Date:	10/5/2012	
	C.C. Shych Philip C	Sazda	-	10/5/2012	
Photos					 _
None.					
NONG.					
· 				 	

Sheet 1 of 2

Status: Y N U

Area Walk-By Checklist (AWC)

Location (Bldg, Elev, Room/Area): Area Walk-by 29, Aux El. 451, Battery Room 111

Instructions for Completing Checklist

This checklist may be used to document the results of the Area Walk-By near one or more SWEL items. The sp Αd

	below each of the following questions may be used to record the results of judgments and findings and space is provided at the end of this checklist for documenting other comments.	
1.	Does anchorage of equipment in the area appear to be free of potentially adverse seismic conditions (if visible without necessarily opening cabinets)?	Yes
2.	Does anchorage of equipment in the area appear to be free of significant degraded conditions?	Yes
3.	Based on a visual inspection from the floor, do the cable/conduit raceways and HVAC ducting appear to be free of potentially adverse seismic conditions (e.g., condition of supports is adequate and fill conditions of cable trays appear to be inside acceptable limits)?	Yes
4.	Does it appear that the area is free of potentially adverse seismic spatial interactions with other equipment in the area (e.g., ceiling tiles and lighting)? Masonry walls are seismic and could not collapse on equipment.	Yes
5.	S hooks appear closed but many are not visible. IR 1399377 written to address extent of condition and follow-up S-hook inspection Does it appear that the area is free of potentially adverse seismic interactions that could cause flooding or spray in the area?	Yes
6.	Does it appear that the area is free of potentially adverse seismic interactions that could cause a fire in the area?	Yes
7.	Does it appear that the area is free of potentially adverse seismic interactions	Yes

associated with housekeeping practices, storage of portable equipment, and

temporary installations (e.g., scaffolding, lead shielding)?

Area Walk-By Checklist (AWC)	Status: Y N U
Location (Bldg, Elev, Room/Area): Area Walk-by 29, Aux El. 451, Battery Room 111	
Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment in the area?	Yes
Comments	
Seismic walkdown team M. Delaney & P. Gazda 8/8/12 am	
Ca. Inch	0/5/2012
Photos None.	

Sheet 1 of 2

Status: Y N U

Area Walk-By Checklist (AWC)

Location (Bldg, Elev, Room/Area): Area Walk-by 30, Aux El 451, U1 MEER Division 2

Instructions for Completing Checklist This checklist may be used to document the results of the Area Walk-By near one or more SWEL items. The

pace	hecklist may be used to document the results of the Area Walk-By near one or more SWEL ite below each of the following questions may be used to record the results of judgments and find onal space is provided at the end of this checklist for documenting other comments.	
1.	Does anchorage of equipment in the area appear to be free of potentially adverse seismic conditions (if visible without necessarily opening cabinets)?	Yes
2.	Does anchorage of equipment in the area appear to be free of significant degraded conditions?	Yes
3.	Based on a visual inspection from the floor, do the cable/conduit raceways and HVAC ducting appear to be free of potentially adverse seismic conditions (e.g., condition of supports is adequate and fill conditions of cable trays appear to be inside acceptable limits)?	Yes
4.	Does it appear that the area is free of potentially adverse seismic spatial interactions with other equipment in the area (e.g., ceiling tiles and lighting)? Masonry walls are seismic and would not collapse on equipment	Yes
5.	Does it appear that the area is free of potentially adverse seismic interactions that could cause flooding or spray in the area?	Yes
6.	Does it appear that the area is free of potentially adverse seismic interactions that could cause a fire in the area?	Yes
7.	Does it appear that the area is free of potentially adverse seismic interactions associated with housekeeping practices, storage of portable equipment, and	Yes

temporary installations (e.g., scaffolding, lead shielding)?

Status: Y N U

Aroa	Walk-Ry	Checklist	(AWC)
Alta	Wain-Dy	CHECKHOL	IMAACI

Alea Walk-by Cil	ecklist (AVVC)		
Location (Bldg	, Elev, Room/Area): Area Wall	c-by 30, Aux El 451, U1 MEER Di	vision 2
	looked for and found no other se affect the safety functions of the		Yes
Comments			
	team M. Delaney & P. Gazda 8/	/8/12 am	
Ocionno wandown	touri W. Dolaricy C 1 . Cazda of	5/12 diii	• •
Evaluated by:	C.a. Mych)	nte: 10/5/2012 10/5/2012
	Pr	niip Gazda	10/5/2012
,	•		
<u>Photos</u>			
None.			

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Status:

Sheet 1 of 2

Area Walk-By Checklist (AWC)

Location (Bldg, Elev, Room/Area): Area Walk-by 31, Aux El 451, Battery Room 112

Instructions for Completing Checklist

This checklist may be used to document the results of the Area Walk-By near one or more SWEL items. 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.

1. Does anchorage of equipment in the area appear to be free of potentially Yes adverse seismic conditions (if visible without necessarily opening cabinets)? 2. Does anchorage of equipment in the area appear to be free of significant Yes degraded conditions? 3. Based on a visual inspection from the floor, do the cable/conduit raceways and Yes HVAC ducting appear to be free of potentially adverse seismic conditions (e.g., condition of supports is adequate and fill conditions of cable trays appear to be inside acceptable limits)? 4. Does it appear that the area is free of potentially adverse seismic spatial Yes interactions with other equipment in the area (e.g., ceiling tiles and lighting)? S hooks appear closed but many are not visible. IR 1399380 written to address extent of condition and follow-up S-hook inspection Masonry walls are seismic and would not collapse on equipment 5. Does it appear that the area is free of potentially adverse seismic interactions Yes that could cause flooding or spray in the area? Does it appear that the area is free of potentially adverse seismic interactions Yes that could cause a fire in the area? 7. Does it appear that the area is free of potentially adverse seismic interactions Yes associated with housekeeping practices, storage of portable equipment, and

temporary installations (e.g., scaffolding, lead shielding)?

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Sheet 2 of 2

					Status: Y N U
Area Walk-By Che	ecklist (AWC)				. —
Location (Bldg	, Elev, Room/Area):	Area Walk-by 3	1, Aux El 451, Battery	Room 11	2
	ooked for and found affect the safety func		conditions that could oment in the area?		Yes
			•		
Comments					
Seismic walkdown	team M. Delaney & F	P. Gazda 8/8/12	am		
Evaluated by:	Marlere M	Seleny	Marlene Delaney	Date:	10/5/2012
	C.O. May	A Philip G	azda	-	10/5/2012
Photos None.	·				

Correspondence No.: RS-12-161 Sheet 1 of 2

Status: Y N U

Area Walk-By Checklist (AWC)

Location (Bldg, Elev, Room/Area): Area Walk-by 32, Aux El 426, Div 12 Switchgear Room

Instructions for Completing Checklist

that could cause a fire in the area?

This checklist may be used to document the results of the Area Walk-By near one or more SWEL items. 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.

Additional space is provided at the end of this checklist for documenting other comments. 1. Does anchorage of equipment in the area appear to be free of potentially Yes adverse seismic conditions (if visible without necessarily opening cabinets)? Does anchorage of equipment in the area appear to be free of significant Yes degraded conditions? 3. Based on a visual inspection from the floor, do the cable/conduit raceways and Yes HVAC ducting appear to be free of potentially adverse seismic conditions (e.g., condition of supports is adequate and fill conditions of cable trays appear to be inside acceptable limits)? 4. Does it appear that the area is free of potentially adverse seismic spatial Yes interactions with other equipment in the area (e.g., ceiling tiles and lighting)? Masonry walls are seismic and would not collapse on equipment. Open S-hooks addressed in IR 1398568. S-hooks are only partially open and it is unlikely the lights would disengage - acceptable. 5. Does it appear that the area is free of potentially adverse seismic interactions Yes that could cause flooding or spray in the area? 6. Does it appear that the area is free of potentially adverse seismic interactions Yes

	Status:	Y	N	U
gear Ro	om			
5			Ye	
			•	

Area v	vaik-by Cili	ecklist (AVVC)					
Lo	cation (Bldg	, Elev, Room/Area):	Area Walk-by 3	32, Aux El 426, Div 12	Switchgea	r Room	
7.	associated temporary Operation	l with housekeeping pinstallations (e.g., sca	oractices, storagi affolding, lead sl or components in	y adverse seismic inter e of portable equipmer nielding)? accordance with Byro	t, and		Yes
8.	adversely Minor cra	looked for and found raffect the safety funct ocking in fire protection cracks are small	ions of the equip		sue		Yes
Comm	ents						
		team M. Delaney & P	P. Gazda 8/8/12	am			
Evalua	ted by:	Marlene M	$\overline{}$	Marlene Delaney	_ Date:	10/5/2012	
Photos							
Photos	2						
None.							

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Status: Y N U

Area Walk-By Checklist (AWC)

Location (Bldg, Elev, Room/Area): Area Walk-by 33, Aux El 426, U1 4kV Div 1/Div 11 Room

Instructions for Completing Checklist

This checklist may be used to document the results of the Area Walk-By near one or more SWEL items. 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.

1. Does anchorage of equipment in the area appear to be free of potentially adverse seismic conditions (if visible without necessarily opening cabinets)?

Yes

2. Does anchorage of equipment in the area appear to be free of significant degraded conditions?

Yes

3. Based on a visual inspection from the floor, do the cable/conduit raceways and HVAC ducting appear to be free of potentially adverse seismic conditions (e.g., condition of supports is adequate and fill conditions of cable trays appear to be inside acceptable limits)?

Yes

4. Does it appear that the area is free of potentially adverse seismic spatial interactions with other equipment in the area (e.g., ceiling tiles and lighting)? Masonry walls are seismic and would not collapse on equipment. Yes

Open S-hooks. IR 1398568 was written. S-hooks not a concern since openings are not large enough for chains to fall out but should be closed.

Yes

5. Does it appear that the area is free of potentially adverse seismic interactions that could cause flooding or spray in the area?

Yes

6. Does it appear that the area is free of potentially adverse seismic interactions that could cause a fire in the area?

	Status: Y N U
Area Walk-By Checklist (AWC)	
Location (Bldg, Elev, Room/Area): Area Walk-by 33, Aux El 426, U1 4kV Div 1/Div 11	Room
7. Does it appear that the area is free of potentially adverse seismic interactions associated with housekeeping practices, storage of portable equipment, and temporary installations (e.g., scaffolding, lead shielding)? Spare breaker in breaker storage area - in accordance with Byron Seismic Housekeeping Procedure.	Yes
 Ops bench far enough away from equipment (>12") - not an issue in accordance with Byron Seismic Housekeeping Procedure. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment in the area? Shrinkage cracks in floor and wall - not a structural/seismic issue. 	Yes
Comments Seismic walkdown team M. Delaney & P. Gazda 8/8/12 am	
Evaluated by: Marlene Delaney Date: 10	0/5/2012
C.C. Mych Philip Gazda 10	0/5/2012
Photos None	

Correspondence No.: RS-12-161 Sheet 1 of 2

Status: Y N U

Area Walk-By Checklist (AWC)

Location (Bldg, Elev, Room/Area): Area Walk-by 36, Aux El 364 Area 5 (curved wall near MCC)

Instructions for Completing Checklist

This checklist may be used to document the results of the Area Walk-By near one or more SWEL items. 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.

dditio	nal space is provided at the end of this checklist for documenting other comments.	
1.	Does anchorage of equipment in the area appear to be free of potentially adverse seismic conditions (if visible without necessarily opening cabinets)?	Yes
2.	Does anchorage of equipment in the area appear to be free of significant degraded conditions?	Yes
3.	Based on a visual inspection from the floor, do the cable/conduit raceways and HVAC ducting appear to be free of potentially adverse seismic conditions (e.g., condition of supports is adequate and fill conditions of cable trays appear to be inside acceptable limits)?	Yes
4.	Does it appear that the area is free of potentially adverse seismic spatial interactions with other equipment in the area (e.g., ceiling tiles and lighting)?	Yes
5.	Does it appear that the area is free of potentially adverse seismic interactions that could cause flooding or spray in the area?	Yes
6.	Does it appear that the area is free of potentially adverse seismic interactions that could cause a fire in the area?	Yes
7.	Does it appear that the area is free of potentially adverse seismic interactions associated with housekeeping practices, storage of portable equipment, and temporary installations (e.g., scaffolding, lead shielding)?	Yes

Status: Y N U

Area Walk-By Checklist (AWC)	_
Location (Bldg, Elev, Room/Area): Area Walk-by 36, Aux El 364 Area 5 (curved wall near MCC)	
Q. Have you had so and found no other accomin conditions that sould	Voo
8. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment in the area?	Yes

	Marlere M Seleny		
Evaluated by:	Marlene Delaney	Date:	10/5/2012
	C. C. March Philip Gazda		10/5/2012

<u>Photos</u>			
None.			
	 	 	

Correspondence No.: RS-12-161 Sheet 1 of 2

Status: Y N U

Area Walk-By Checklist (AWC)

Location (Bldg, Elev, Room/Area): Area Walk-by 37, Aux El 364 Centrifugal Charging Pump 1B

Instructions for Completing Checklist

This checklist may be used to document the results of the Area Walk-By near one or more SWEL items. 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.

 Does anchorage of equipment in the area appear to be free of potentially Yes adverse seismic conditions (if visible without necessarily opening cabinets)? 2. Does anchorage of equipment in the area appear to be free of significant Yes degraded conditions? 3. Based on a visual inspection from the floor, do the cable/conduit raceways and Yes HVAC ducting appear to be free of potentially adverse seismic conditions (e.g., condition of supports is adequate and fill conditions of cable trays appear to be inside acceptable limits)? 4. Does it appear that the area is free of potentially adverse seismic spatial Yes interactions with other equipment in the area (e.g., ceiling tiles and lighting)? 5. Does it appear that the area is free of potentially adverse seismic interactions Yes that could cause flooding or spray in the area? 6. Does it appear that the area is free of potentially adverse seismic interactions Yes that could cause a fire in the area? 7. Does it appear that the area is free of potentially adverse seismic interactions Yes associated with housekeeping practices, storage of portable equipment, and temporary installations (e.g., scaffolding, lead shielding)?

					Status: Y] N U	
Area Walk-By Checklist (AWC)							
Location (Bldg	, Elev, Room/Area):	Area Walk-by 3	7, Aux El 364 Centrifu	gal Chargi	ng Pump 1B		
		· .					
•	looked for and found affect the safety func		conditions that could ment in the area?			Yes	
Comments							
Seismic Walkdowr	Team M. Delaney &	P. Gazda 8/8/12	. pm				
Evaluated by:	Marlere M	Seleny	Marlene Delaney	Date:	10/5/2012		
	C.O. My	A Philip G	azda		10/5/2012		
<u>Ph</u> otos							
None.	,						

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Correspondence No.: RS-12-161 Sheet 1 of 2

Status: Y N U

Area Walk-By Checklist (AWC)

Location (Bldg, Elev, Room/Area): Area Walk-by 38, Aux El 364 & 379 RWST Tunnel

Instructions for Completing Checklist

This checklist may be used to document the results of the Area Walk-By near one or more SWEL items. The spa Add

ace below each of the following questions may be used to record the results of judgments and findings. Iditional space is provided at the end of this checklist for documenting other comments.		
.1.	Does anchorage of equipment in the area appear to be free of potentially adverse seismic conditions (if visible without necessarily opening cabinets)?	Yes
2.	Does anchorage of equipment in the area appear to be free of significant degraded conditions?	Yes
3.	Based on a visual inspection from the floor, do the cable/conduit raceways and HVAC ducting appear to be free of potentially adverse seismic conditions (e.g., condition of supports is adequate and fill conditions of cable trays appear to be inside acceptable limits)?	Yes
4.	Does it appear that the area is free of potentially adverse seismic spatial interactions with other equipment in the area (e.g., ceiling tiles and lighting)?	Yes
5.	Does it appear that the area is free of potentially adverse seismic interactions that could cause flooding or spray in the area?	Yes
6.	Does it appear that the area is free of potentially adverse seismic interactions that could cause a fire in the area?	Yes
7.	Does it appear that the area is free of potentially adverse seismic interactions associated with housekeeping practices, storage of portable equipment, and temporary installations (e.g., scaffolding, lead shielding)?	Yes

Area Walk-By Cl	hecklist (AWC)	Status: Y N U
•	g, Elev, Room/Area): Area Walk-by 38, Aux El 364 & 379 RWST Tur	nnel
	u looked for and found no other seismic conditions that could y affect the safety functions of the equipment in the area?	Yes
Comments Seismic Walkdow	vn Team 8/8/12 pm	·
Evaluated by:	Marlene Delaney Date:	10/5/2012
	C.C. Mych Philip Gazda	10/5/2012
Photos None		<u> </u>

Status: Y N U

Area Walk-By Checklist (AWC)

Location (Bldg, Elev, Room/Area): Area Walk-by 39, Aux El varies, Area 5 curved wall at penetrations **Instructions for Completing Checklist** This checklist may be used to document the results of the Area Walk-By near one or more SWEL items. 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. 1. Does anchorage of equipment in the area appear to be free of potentially Yes adverse seismic conditions (if visible without necessarily opening cabinets)? 2. Does anchorage of equipment in the area appear to be free of significant Yes degraded conditions? Based on a visual inspection from the floor, do the cable/conduit raceways and Yes HVAC ducting appear to be free of potentially adverse seismic conditions (e.g., condition of supports is adequate and fill conditions of cable trays appear to be inside acceptable limits)? 4. Does it appear that the area is free of potentially adverse seismic spatial Yes interactions with other equipment in the area (e.g., ceiling tiles and lighting)? 5. Does it appear that the area is free of potentially adverse seismic interactions Yes that could cause flooding or spray in the area? 6. Does it appear that the area is free of potentially adverse seismic interactions Yes that could cause a fire in the area? 7. Does it appear that the area is free of potentially adverse seismic interactions Yes associated with housekeeping practices, storage of portable equipment, and

temporary installations (e.g., scaffolding, lead shielding)?

		Status: Y N U
Area Walk-By Cl	hecklist (AWC)	
Location (Bld	lg, Elev, Room/Area): Area Walk-by 39, Aux El varies, Area 5 curve	d wall at penetrations
adversely Boric Ad	u looked for and found no other seismic conditions that could y affect the safety functions of the equipment in the area? ccumulation identified by operator - not an active leak. IR 1398667. uctural/seismic issue	Yes
Comments Seismic Walkdow	vn Team M. Delaney & P. Gazda 8/8/12 pm and 8/21/12 am	
Evaluated by:	Marlene Delaney Date	: 10/5/2012
	C.O. Mych Philip Gazda	10/5/2012
DI-1		
<u>Photos</u> None.		•

Byron Generating Station Unit 1 12Q0108.20-R-001 Rev. 1

Correspondence No.: RS-12-161

Status: Y N U

Sheet 1 of 2

Area Walk-By Checklist (AWC)

Location (Bldg, Elev, Room/Area): Area Walk-by 40, Fuel Handling, El 426

Instructions for Completing Checklist

This checklist may be used to document the results of the Area Walk-By near one or more SWEL items. The space below each of the following questions may be used to record the results of judgments and findings. Add

	below each of the following questions may be used to record the results of judgments and findings. nal space is provided at the end of this checklist for documenting other comments.	
1.	Does anchorage of equipment in the area appear to be free of potentially adverse seismic conditions (if visible without necessarily opening cabinets)?	Yes
2.	Does anchorage of equipment in the area appear to be free of significant degraded conditions?	Yes
3.	Based on a visual inspection from the floor, do the cable/conduit raceways and HVAC ducting appear to be free of potentially adverse seismic conditions (e.g., condition of supports is adequate and fill conditions of cable trays appear to be inside acceptable limits)?	Yes
4.	Does it appear that the area is free of potentially adverse seismic spatial interactions with other equipment in the area (e.g., ceiling tiles and lighting)?	Yes
5.	Does it appear that the area is free of potentially adverse seismic interactions that could cause flooding or spray in the area?	Yes
6.	Does it appear that the area is free of potentially adverse seismic interactions that could cause a fire in the area?	Yes
7.	Does it appear that the area is free of potentially adverse seismic interactions associated with housekeeping practices, storage of portable equipment, and temporary installations (e.g., scaffolding, lead shielding)?	Yes

				Status: Y N	U
Area Walk-By Che	cklist (AWC)		٠		
Location (Bldg	Elev, Room/Area): Area Walk-b	by 40, Fuel Handling, El 42	:6		
	•	•			
•	ooked for and found no other seis			Υe)S
	•			•	
Comments					
Seismic Walkdown	Team M. Delaney & P. Gazda 8/9	∂/12 am			
	Marlere M Seleny				
Evaluated by:	\cup	Marlene Delaney	_ Date:	10/5/2012	
	C.O. Mych Philli	p Gazda		10/5/2012	
			_		
Photos	·				
None.	•				

Sheet 1 of 2

Status: Y N U

Area Walk-By Checklist (AWC)

Location (Bldg, Elev, Room/Area): Area Walk-by 41, FH El 401 U1 Spent Fuel HX Room

Instructions for Completing Checklist This checklist may be used to document the results of the Area Walk-By near one or more SWEL items. The space below each of the following questions may be used to record the results of judgments and findings.

temporary installations (e.g., scaffolding, lead shielding)?

	nal space is provided at the end of this checklist for documenting other comments.	·
1.	Does anchorage of equipment in the area appear to be free of potentially adverse seismic conditions (if visible without necessarily opening cabinets)?	Yes
2.	Does anchorage of equipment in the area appear to be free of significant degraded conditions?	Yes
3.	Based on a visual inspection from the floor, do the cable/conduit raceways and HVAC ducting appear to be free of potentially adverse seismic conditions (e.g., condition of supports is adequate and fill conditions of cable trays appear to be inside acceptable limits)?	Yes
4.	Does it appear that the area is free of potentially adverse seismic spatial interactions with other equipment in the area (e.g., ceiling tiles and lighting)? Masonry walls are seismic and would not collapse on equipment. Removable seismic blocks walls secured by grating.	Yes
5.	Does it appear that the area is free of potentially adverse seismic interactions that could cause flooding or spray in the area?	Yes
6.	Does it appear that the area is free of potentially adverse seismic interactions that could cause a fire in the area?	Yes
7.	Does it appear that the area is free of potentially adverse seismic interactions associated with housekeeping practices, storage of portable equipment, and	Yes

Status: Y N U

Area waik-By Checklist (AWC)				
Location (Bldg	ı, Elev, Room/Area): Area Walk-by 41, FH El 401 U1 Spent Fuel HX Room			
8. Have vou	looked for and found no other seismic conditions that could	es		
adversely affect the safety functions of the equipment in the area? NRC questioned if the first support from Valve 1FC8762 was acceptable since the top bolt of the double clamp was a bolt while other supports in the area were pins. Support matches design drawing and is acceptable.				
Comments Seismic Walkdown	n Team M. Delaney & P. Gazda 8/9/12 am			
Evaluated by:	Marlene Delaney Date: 10/5/2012			
	C.C. Mych Philip Gazda 10/5/2012			
Photos None				

Correspondence No.: RS-12-161 Sheet 1 of 2

Status: Y N U

Area Walk-By Checklist (AWC)

Location (Bldg, Elev, Room/Area): Area Walk-by 42, FH El 401 U1 & U2 Spent Fuel Pump Room

Instructions for Completing Checklist

This checklist may be used to document the results of the Area Walk-By near one or more SWEL items. 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.

dditi	onal space is provided at the end of this checklist for documenting other comments.	
1.	Does anchorage of equipment in the area appear to be free of potentially adverse seismic conditions (if visible without necessarily opening cabinets)?	Yes
2.	Does anchorage of equipment in the area appear to be free of significant degraded conditions?	Yes
3.	Based on a visual inspection from the floor, do the cable/conduit raceways and HVAC ducting appear to be free of potentially adverse seismic conditions (e.g., condition of supports is adequate and fill conditions of cable trays appear to be inside acceptable limits)?	Yes
4.	Does it appear that the area is free of potentially adverse seismic spatial interactions with other equipment in the area (e.g., ceiling tiles and lighting)? Masonry walls are seismic and would not collapse on equipment.	Yes
5.	Does it appear that the area is free of potentially adverse seismic interactions that could cause flooding or spray in the area?	Yes
6.	Does it appear that the area is free of potentially adverse seismic interactions that could cause a fire in the area? Sight glasses are protected with no potential impact from overhead components	Yes
7.	Does it appear that the area is free of potentially adverse seismic interactions associated with housekeeping practices, storage of portable equipment, and temporary installations (e.g., scaffolding, lead shielding)?	Yes

Correspondence No.: RS-12-161 Sheet 2 of 2

Area Walk-By Checklist (AWC)

Location (Bldg, Elev, Room/Area): Area Walk-by 42, FH El 401 U1 & U2 Spent Fuel Pump Room

8. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment in the area?

Comments
Seismic Walkdown Team M. Delaney & P. Gazda 8/9/12 am

Evaluated by:

Marlene Delaney
Date: 10/5/2012

Photos
None.

e No.: RS-12-161 Sheet 1 of 2

Status: Y N U

Area Walk-By Checklist (AWC)

Location (Bldg, Elev, Room/Area): Area Walk-by 44, FH El 401 Adjacent to trackway

Instructions for Completing Checklist

This checklist may be used to document the results of the Area Walk-By near one or more SWEL items. 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.

1. Does anchorage of equipment in the area appear to be free of potentially adverse seismic conditions (if visible without necessarily opening cabinets)?

Yes

2. Does anchorage of equipment in the area appear to be free of significant degraded conditions?

Yes

3. Based on a visual inspection from the floor, do the cable/conduit raceways and HVAC ducting appear to be free of potentially adverse seismic conditions (e.g., condition of supports is adequate and fill conditions of cable trays appear to be inside acceptable limits)?

Yes

4. Does it appear that the area is free of potentially adverse seismic spatial interactions with other equipment in the area (e.g., ceiling tiles and lighting)? Masonry walls are seismic and would not collapse on equipment. Yes

5. Does it appear that the area is free of potentially adverse seismic interactions that could cause flooding or spray in the area?

Yes

6. Does it appear that the area is free of potentially adverse seismic interactions that could cause a fire in the area?

Yes

Sheet 2 of 2

					Status:	YNU
Area Walk-By Che	ecklist (AWC)					
Location (Bldg	, Elev, Room/Area):	Area Walk-by	14, FH El 401 Adjacent	to trackwa	ay	
		•	y adverse seismic inter			Yes
	with housekeeping pinstallations (e.g., sc		e of portable equipmen	it, and		
	• •	•	g instruments with whe	els		
chocked	•	•	,			
8. Have vou l	ooked for and found	no other seismir	conditions that could			Yes
•	affect the safety funct					163
•	•	•	E Coordinator contacte	d and it		
was deterr	nined that this was no	ot an issue. IR	1399113			
				·		
Comments		•				
Seismic Walkdown	Team M. Delaney &	P. Gazda 8/9/1:	2 am			
	Marlere M	Seleser				
	1		`			
Evaluated by:		\cup	Marlene Delaney	Date:	10/5/2012	
	Q.a. Any	1				
	G.U. May	Philip (Sazda		10/5/2012	
Photos			· ·			
None.						
						·

Status:	Υ	N	U

Area Walk-By Checklist (AWC)

Location (Bldg, Elev, Room/Area): Area Walk-by 45, RSH El 702, A & B Pump Room

Instructions for Completing Checklist

This checklist may be used to document the results of the Area Walk-By near one or more SWEL items. 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.

 Does anchorage of equipment in the area appear to be free of potentially Yes adverse seismic conditions (if visible without necessarily opening cabinets)? 2. Does anchorage of equipment in the area appear to be free of significant Yes degraded conditions? Yes 3. Based on a visual inspection from the floor, do the cable/conduit raceways and HVAC ducting appear to be free of potentially adverse seismic conditions (e.g., condition of supports is adequate and fill conditions of cable trays appear to be inside acceptable limits)? 4. Does it appear that the area is free of potentially adverse seismic spatial Yes interactions with other equipment in the area (e.g., ceiling tiles and lighting)? Numerous partially open S-hooks identified. It is unlikely that the lights would become disengaged since the hooks are only partially open and not all hooks are open and the lights are not directly over the equipment - judged acceptable. IR 1399104 written to inspect and close S-hooks. 5. Does it appear that the area is free of potentially adverse seismic interactions Yes that could cause flooding or spray in the area? 6. Does it appear that the area is free of potentially adverse seismic interactions Yes that could cause a fire in the area? 7. Does it appear that the area is free of potentially adverse seismic interactions Yes associated with housekeeping practices, storage of portable equipment, and

temporary installations (e.g., scaffolding, lead shielding)?

Area Walk-By Checklist (AWC)	Status: Y N U
Location (Bldg, Elev, Room/Area): Area Walk-by 45, RSH El 702, A & B Pump Room	
Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment in the area?	Yes
Comments Seismic Walkdown Team M. Delaney & P. Gazda 8/9/12 pm	·
Ca. Inch	D/5/2012 D/5/2012
Photos None.	:

Correspondence No.: RS-12-161 Sheet 1 of 2

Status: Y N U

Area Walk-By Checklist (AWC)

Location (Bldg, Elev, Room/Area): Area Walk-by 46, RSH El 702, Diesel Oil Storage Tank Room

Instructions for Completing Checklist

This checklist may be used to document the results of the Area Walk-By near one or more SWEL items. 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.

dditio	nal space is provided at the end of this checklist for documenting other comments.	
1.	Does anchorage of equipment in the area appear to be free of potentially adverse seismic conditions (if visible without necessarily opening cabinets)? Only one component in room	Yes
2.	Does anchorage of equipment in the area appear to be free of significant degraded conditions?	Yes
3.	Based on a visual inspection from the floor, do the cable/conduit raceways and HVAC ducting appear to be free of potentially adverse seismic conditions (e.g., condition of supports is adequate and fill conditions of cable trays appear to be inside acceptable limits)?	Yes
4.	Does it appear that the area is free of potentially adverse seismic spatial interactions with other equipment in the area (e.g., ceiling tiles and lighting)?	Yes
5.	Does it appear that the area is free of potentially adverse seismic interactions that could cause flooding or spray in the area?	Yes
6.	Does it appear that the area is free of potentially adverse seismic interactions that could cause a fire in the area?	Yes
7.	Does it appear that the area is free of potentially adverse seismic interactions associated with housekeeping practices, storage of portable equipment, and temporary installations (e.g., scaffolding, lead shielding)?	Yes

Area Walk-By Checklist (AWC)	Status: Y N U
Location (Bldg, Elev, Room/Area): Area Walk-by 46, RSH El 702, Diesel Oil Storag	ge Tank Room
8. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment in the area?	Yes
Comments	
Marlene M Seleny	
Evaluated by: Marlene Delaney Date:	10/5/2012
C.O. Mych Philip Gazda	10/5/2012
Photos	
None.	

Status:	Υ	N	U

Area Walk-By Checklist (AWC)

iica v	vaik-by Gliecklist (AWG)	
Lo	cation (Bldg, Elev, Room/Area): Area Walk-by 47, Aux El 364 Unit 1 (open area)	
nstruc	ctions for Completing Checklist	
pace	necklist may be used to document the results of the Area Walk-By near one or more SWEL ite below each of the following questions may be used to record the results of judgments and find an onal space is provided at the end of this checklist for documenting other comments.	
1.	Does anchorage of equipment in the area appear to be free of potentially adverse seismic conditions (if visible without necessarily opening cabinets)?	Yes
2.	Does anchorage of equipment in the area appear to be free of significant degraded conditions?	Yes
3.	Based on a visual inspection from the floor, do the cable/conduit raceways and HVAC ducting appear to be free of potentially adverse seismic conditions (e.g., condition of supports is adequate and fill conditions of cable trays appear to be inside acceptable limits)?	Yes
4.	Does it appear that the area is free of potentially adverse seismic spatial interactions with other equipment in the area (e.g., ceiling tiles and lighting)? Adjacent valves have adequate clearance: 2AF005F to 2AF005H 2" clearance, 2AF005F to Unistrut 1 1/4" - valves are supported with lateral movement limited and therefore are acceptable	Yes
5.	Does it appear that the area is free of potentially adverse seismic interactions that could cause flooding or spray in the area?	Yes
6.	Does it appear that the area is free of potentially adverse seismic interactions that could cause a fire in the area?	Yes
7.	Does it appear that the area is free of potentially adverse seismic interactions associated with housekeeping practices, storage of portable equipment, and temporary installations (e.g., scaffolding, lead shielding)?	Yes

Status: Y N U

Sheet 2 of 2

Area	Walk-By	Checklist	(AWC)
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Area Walk-By Che	ecklist (AWC)					
Location (Bldg	, Elev, Room/Area):	Area Walk-by	47, Aux El 364 Unit 1 (o	pen area)		
-	ooked for and found affect the safety funct		c conditions that could			Yes
auversely (anect the salety function	ions of the equi	princint in the area?			
Comments					· · · · · · · · · · · · · · · · · · ·	
Seismic Walkdown	Team M. Delaney &	P. Gazda 8/10/	12 am			
Evaluated by:	Marlene M	Seleny	Marlene Delaney	_ Date:	10/5/2012	
	C.O. Shy	A Philip C	Gazda	_	10/5/2012	<u>.</u>
<u>Photos</u>					·	
None.					٠.	

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Status: Y N U

Area Walk-By Checklist (AWC)

Location (Bldg, Elev, Room/Area): Area Walk-by 50, Aux El 346, Unit 1 near 1AP38E Instructions for Completing Checklist This checklist may be used to document the results of the Area Walk-By near one or more SWEL items. 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. Does anchorage of equipment in the area appear to be free of potentially Yes adverse seismic conditions (if visible without necessarily opening cabinets)? 2. Does anchorage of equipment in the area appear to be free of significant Yes degraded conditions? 3. Based on a visual inspection from the floor, do the cable/conduit raceways and Yes HVAC ducting appear to be free of potentially adverse seismic conditions (e.g., condition of supports is adequate and fill conditions of cable trays appear to be inside acceptable limits)? 4. Does it appear that the area is free of potentially adverse seismic spatial Yes interactions with other equipment in the area (e.g., ceiling tiles and lighting)? 5. Does it appear that the area is free of potentially adverse seismic interactions Yes that could cause flooding or spray in the area? Does it appear that the area is free of potentially adverse seismic interactions Yes that could cause a fire in the area?

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Status: Area Walk-By Checklist (AWC) Location (Bldg, Elev, Room/Area): Area Walk-by 50, Aux El 346, Unit 1 near 1AP38E Does it appear that the area is free of potentially adverse seismic interactions Yes associated with housekeeping practices, storage of portable equipment, and temporary installations (e.g., scaffolding, lead shielding)? Scaffolding adequately braced, connected floor and ceiling in accordance with Exelon Scaffolding Procedure 8. Have you looked for and found no other seismic conditions that could Yes adversely affect the safety functions of the equipment in the area? Comments Seismic Walkdown Team M. Delaney & P. Gazda 8/10/12 am Evaluated by: Marlene Delaney Date: 10/5/2012 10/5/2012 **Photos** None.

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Status: Y N U

Area Walk-By Checklist (AWC)

Location (Bldg, Elev, Room/Area): Area Walk-by 52, Aux El 330, B SX Pump Room

Instructions for Completing Checklist

This checklist may be used to document the results of the Area Walk-By near one or more SWEL items. 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.

 Does anchorage of equipment in the area appear to be free of potentially adverse seismic conditions (if visible without necessarily opening cabinets)? Yes

2. Does anchorage of equipment in the area appear to be free of significant degraded conditions?

Yes

3. Based on a visual inspection from the floor, do the cable/conduit raceways and HVAC ducting appear to be free of potentially adverse seismic conditions (e.g., condition of supports is adequate and fill conditions of cable trays appear to be inside acceptable limits)?

Yes

4. Does it appear that the area is free of potentially adverse seismic spatial interactions with other equipment in the area (e.g., ceiling tiles and lighting)?

Yes

5. Does it appear that the area is free of potentially adverse seismic interactions that could cause flooding or spray in the area?

Yes

6. Does it appear that the area is free of potentially adverse seismic interactions that could cause a fire in the area?

Yes

Status: Y N U

Area Walk-By Cl	necklist (AWC)		
Location (Bld	g, Elev, Room/Area): Area Walk-by 52, Aux El 330, B SX Pump Roor	n ·	
7. Does it appear that the area is free of potentially adverse seismic interactions associated with housekeeping practices, storage of portable equipment, and temporary installations (e.g., scaffolding, lead shielding)? Ladders stored on sides and not near equipment in accordance with Byron Seismic Housekeeping Procedure			
· · · · · · · · · · · · · · · · · · ·	looked for and found no other seismic conditions that could affect the safety functions of the equipment in the area?		Yes
Comments			
	n Team M. Delaney & P. Gazda 8/10/12 am		
Evaluated by:	Marlene Delaney Date:	10/5/2012	
	C.a. Mych Philip Gazda	10/5/2012	
			٠.
Photos			
None.			

Correspondence No.: RS-12-161 Sheet 1 of 2

Status: Y N U

Area Walk-By Checklist (AWC)

Location (Bldg, Elev, Room/Area): Area Walk-by 53, Aux El 426 near Q-12, S-13

Instructions for Completing Checklist

This checklist may be used to document the results of the Area Walk-By near one or more SWEL items. 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.

- Does anchorage of equipment in the area appear to be free of potentially adverse seismic conditions (if visible without necessarily opening cabinets)?
 Does anchorage of equipment in the area appear to be free of significant degraded conditions?
 Based on a visual inspection from the floor, do the cable/conduit raceways and HVAC ducting appear to be free of potentially adverse seismic conditions (e.g., condition of supports is adequate and fill conditions of cable trays appear to be inside acceptable limits)?
 Does it appear that the area is free of potentially adverse seismic spatial interactions with other equipment in the area (e.g., ceiling tiles and lighting)?
- 5. Does it appear that the area is free of potentially adverse seismic interactions that could cause flooding or spray in the area?
- 6. Does it appear that the area is free of potentially adverse seismic interactions

 Yes
 that could cause a fire in the area?

Yes

Area Walk-By Checklist (AWC)	Status: Y N U
Location (Bldg, Elev, Room/Area): Area Walk-by 53, Aux El 426 near Q-12, S-13	
7. Does it appear that the area is free of potentially adverse seismic interactions associated with housekeeping practices, storage of portable equipment, and temporary installations (e.g., scaffolding, lead shielding)? Numerous scaffolds in area. Scaffold at Col Q11 is braced and tied off so it would not impact adjacent valves. Scaffold at Col S13 is very large and close to non-safety panels. Discussed with Ops and scaffold constructor and is acceptable - in accordance with Exelon Scaffolding Procedure Extra handrails are tied off and secured, and ladders in ladder storage area in accordance with Byron Seismic Housekeeping Procedure	Yes
8. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment in the area? Output Description:	Yes
Comments Seismic Walkdown Team M. Delaney & P. Gazda 8/20/12 am	
Mailere M Selany	,
Evaluated by: Marlene Delaney Date:	10/5/2012
C.O. Mayoh Philip Gazda	10/5/2012
<u>Photos</u>	
None.	

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Status:

Sheet 1 of 2

Area Walk-By Checklist (AWC)

Location (Bldg, Elev, Room/Area): Area Walk-by 54, Aux El 414, Elec Penetration Area

Instructions for Completing Checklist

This checklist may be used to document the results of the Area Walk-By near one or more SWEL items. 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. 1. Does anchorage of equipment in the area appear to be free of potentially Yes adverse seismic conditions (if visible without necessarily opening cabinets)? 2. Does anchorage of equipment in the area appear to be free of significant Yes degraded conditions? 3. Based on a visual inspection from the floor, do the cable/conduit raceways and Yes HVAC ducting appear to be free of potentially adverse seismic conditions (e.g., condition of supports is adequate and fill conditions of cable trays appear to be inside acceptable limits)? 4. Does it appear that the area is free of potentially adverse seismic spatial Yes interactions with other equipment in the area (e.g., ceiling tiles and lighting)? 5. Does it appear that the area is free of potentially adverse seismic interactions Yes that could cause flooding or spray in the area? 6. Does it appear that the area is free of potentially adverse seismic interactions Yes that could cause a fire in the area?

Status: Y N U

Area Walk-Ry Checklist (AWC)

Alea Walk-Dy Checklist (AWC)				
Location (Bldg, Elev, Room/Area): Area Walk-by 54, Aux El 414, Elec Penetration Area			
7. Does assoc tempo	it appear that the area is free of potentially adverse seismic interactions iated with housekeeping practices, storage of portable equipment, and practices in the state of th	Yes		
	you looked for and found no other seismic conditions that could sely affect the safety functions of the equipment in the area?	Yes		
Comments		-		
	down Team M. Delaney & P. Gazda 8/20/12 am			
	Marlere M Selesy			
Evaluated by:	Marlene Delaney Date: 10/5/2012 C.C. Mych Philip Gazda 10/5/2012			
Photos None.				

Sheet 1 of 2

Status:

Area Walk-By Checklist (AWC)

Location (Bldg, Elev, Room/Area): Area Walk-by 57, Aux El 383 (work with AWC 59)

Instructions for Completing Checklist

This checklist may be used to document the results of the Area Walk-By near one or more SWEL items. 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.

1. Does anchorage of equipment in the area appear to be free of potentially Yes adverse seismic conditions (if visible without necessarily opening cabinets)? 2. Does anchorage of equipment in the area appear to be free of significant Yes degraded conditions? 3. Based on a visual inspection from the floor, do the cable/conduit raceways and Yes HVAC ducting appear to be free of potentially adverse seismic conditions (e.g., condition of supports is adequate and fill conditions of cable trays appear to be inside acceptable limits)? 4. Does it appear that the area is free of potentially adverse seismic spatial Yes interactions with other equipment in the area (e.g., ceiling tiles and lighting)? 5. Does it appear that the area is free of potentially adverse seismic interactions Yes that could cause flooding or spray in the area? Does it appear that the area is free of potentially adverse seismic interactions Yes that could cause a fire in the area?

Area Walk-By C	Checklist (AWC)	Status: Y N U
Location (RI	ldg, Elev, Room/Area): Area Walk-by 57, Aux El 383 (work with AWC 59	
7. Does it a associat tempora Scaffol extra ha accorda Perman	appear that the area is free of potentially adverse seismic interactions ted with housekeeping practices, storage of portable equipment, and ary installations (e.g., scaffolding, lead shielding)? Independent of the storage area, construction equipment is well-secured, and are tied off, and extra Breaker moved to be 12" from bus - all in the area with Byron Seismic Housekeeping Procedure tent scaffold is well-constructed and tied off in accordance with Exelon	Yes
8. Have yo	ding Procedure ou looked for and found no other seismic conditions that could ely affect the safety functions of the equipment in the area?	Yes
Comments Seismic Walkdo	wn Team M. Delaney & P. Gazda 8/20/12 am	
Evaluated by:	Marlene Delaney Date:	10/5/2012
	C.O. Mych Philip Gazda	10/5/2012
Photos None.		

Status: Y N U

Area Walk-By Checklist (AWC)

Location (Bldg, Elev, Room/Area): Area Walk-by 58, Aux El 383 1B Aux Feed Pump Room

Instructions for Completing Checklist

This checklist may be used to document the results of the Area Walk-By near one or more SWEL items. 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.

Does anchorage of equipment in the area appear to be free of potentially Yes adverse seismic conditions (if visible without necessarily opening cabinets)? Does anchorage of equipment in the area appear to be free of significant Yes degraded conditions? 3. Based on a visual inspection from the floor, do the cable/conduit raceways and Yes HVAC ducting appear to be free of potentially adverse seismic conditions (e.g., condition of supports is adequate and fill conditions of cable trays appear to be inside acceptable limits)? Does it appear that the area is free of potentially adverse seismic spatial Yes interactions with other equipment in the area (e.g., ceiling tiles and lighting)? Yes 5. Does it appear that the area is free of potentially adverse seismic interactions that could cause flooding or spray in the area? Yes 6. Does it appear that the area is free of potentially adverse seismic interactions that could cause a fire in the area? Fuel level indicator for 1AF01PB: 1LI-AF8000 is well-supported and protected, Day Tank Level Sight Glass: 1LI-D0032 is well-supported and protected - no structural/seismic issues 7. Does it appear that the area is free of potentially adverse seismic interactions Yes associated with housekeeping practices, storage of portable equipment, and temporary installations (e.g., scaffolding, lead shielding)?

				Status: Y N U
Area Walk-By Che	ecklist (AWC)			·· .
Location (Bldg,	Elev, Room/Area): Area Walk-l	by 58, Aux El 383 1B Aux F	eed Pum	p Room
•	ooked for and found no other seis			Yes
Comments				
Seismic Walkdown Includes adjacent r	Team M. Delaney & P. Gazda 8/ oom for 1DO10T	20/12 am		
Evaluated by:	Marline M Seleny	Marlene Delaney	Date:	10/5/2012
	C.O. Mych Phil	ip Gazda	_	10/5/2012
Photos				
None.				·

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Status: Y N U

Area Walk-By Checklist (AWC)

Instructions for Completing Checklist

Location (Bldg, Elev, Room/Area): Area Walk-by 59, Aux El 383 (See AWC 57)

This checklist may be used to document the results of the Area Walk-By near one or more SWEL items. 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. Does anchorage of equipment in the area appear to be free of potentially Yes adverse seismic conditions (if visible without necessarily opening cabinets)? 2. Does anchorage of equipment in the area appear to be free of significant Yes degraded conditions? 3. Based on a visual inspection from the floor, do the cable/conduit raceways and Yes HVAC ducting appear to be free of potentially adverse seismic conditions (e.g., condition of supports is adequate and fill conditions of cable trays appear to be inside acceptable limits)? 4. Does it appear that the area is free of potentially adverse seismic spatial Yes

interactions with other equipment in the area (e.g., ceiling tiles and lighting)?

that could cause flooding or spray in the area?

- 5. Does it appear that the area is free of potentially adverse seismic interactions
- 6. Does it appear that the area is free of potentially adverse seismic interactions
 Yes that could cause a fire in the area?
- 7. Does it appear that the area is free of potentially adverse seismic interactions associated with housekeeping practices, storage of portable equipment, and temporary installations (e.g., scaffolding, lead shielding)?

Yes

Area Walk-By Checklist (AWC)	Status: Y N U			
Location (Bldg, Elev, Room/Area): Area Walk-by 59, Aux El 383 (See AWC 57)				
Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment in the area?	Yes			
Comments Seismic Walkdown Team M. Delaney & P. Gazda 8/20/12 pm				
Evaluated by: Marlene Delaney Date: Philip Gazda	10/5/2012			
Photos None.				

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Status: Y N U

Area Walk-By Checklist (AWC)

Location (Bldg, Elev, Room/Area): Area Walk-by 61, Aux El 364 U1 and U2 open area

Instructions for Completing Checklist

This checklist may be used to document the results of the Area Walk-By near one or more SWEL items. 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.

1. Does anchorage of equipment in the area appear to be free of potentially Yes adverse seismic conditions (if visible without necessarily opening cabinets)? 2. Does anchorage of equipment in the area appear to be free of significant Yes degraded conditions? 3. Based on a visual inspection from the floor, do the cable/conduit raceways and Yes HVAC ducting appear to be free of potentially adverse seismic conditions (e.g., condition of supports is adequate and fill conditions of cable trays appear to be inside acceptable limits)? 4. Does it appear that the area is free of potentially adverse seismic spatial Yes interactions with other equipment in the area (e.g., ceiling tiles and lighting)? Masonry walls are seismic and would not collapse on equipment 5. Does it appear that the area is free of potentially adverse seismic interactions Yes that could cause flooding or spray in the area? 6. Does it appear that the area is free of potentially adverse seismic interactions Yes that could cause a fire in the area?

Status: Y N U

Area Walk-By Ci	iecklist (AWC)		•	
Location (Bld	g, Elev, Room/Area): Area Walk-by 61, Aux El 364 U1 and	l U2 open a	area	
7. Does it appear that the area is free of potentially adverse seismic interactions associated with housekeeping practices, storage of portable equipment, and temporary installations (e.g., scaffolding, lead shielding)? Construction equipment is staged away from components and ladder chained in accordance with Byron Seismic Housekeeping Procedure				Yes
•	looked for and found no other seismic conditions that could affect the safety functions of the equipment in the area?			Yes
Comments Seismic Walkdow	n Team M. Delaney & P. Gazda 8/20/12 pm			
Evaluated by:	Marlene Delaney C. C. March Deliney	Date:	10/5/2012	
Photos	Philip Gazda		10/5/2012	
Photos None.			·	

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Status: Y N U

Area Walk-By Checklist (AWC)

Location (Bldg, Elev, Room/Area): Area Walk-by 62, Aux El 364, Centrifugal Charging Pump 1A

Instructions for Completing Checklist

This checklist may be used to document the results of the Area Walk-By near one or more SWEL items. 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.

dditic	anal space is provided at the end of this checklist for documenting other comments.	
1.	Does anchorage of equipment in the area appear to be free of potentially adverse seismic conditions (if visible without necessarily opening cabinets)?	Yes
2.	Does anchorage of equipment in the area appear to be free of significant degraded conditions?	Yes
3.	Based on a visual inspection from the floor, do the cable/conduit raceways and HVAC ducting appear to be free of potentially adverse seismic conditions (e.g., condition of supports is adequate and fill conditions of cable trays appear to be inside acceptable limits)?	Yes
4.	Does it appear that the area is free of potentially adverse seismic spatial interactions with other equipment in the area (e.g., ceiling tiles and lighting)? Masonry walls are seismic and would not collapse on equipment	Yes
5.	Does it appear that the area is free of potentially adverse seismic interactions that could cause flooding or spray in the area?	Yes
6.	Does it appear that the area is free of potentially adverse seismic interactions that could cause a fire in the area?	Yes
7.	Does it appear that the area is free of potentially adverse seismic interactions associated with housekeeping practices, storage of portable equipment, and temporary installations (e.g., scaffolding, lead shielding)?	Yes

Sheet 2 of 2

Status:	Y	NU

Area Walk-By Checklist (AWC)

Location (Bldg, Elev, Room/Area): Area Walk-by 62, Aux El 364, Centrifugal Charging Pump 1A

Photos None.

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Status: Y N U

Sheet 1 of 2

Area Walk-By Checklist (AWC)

Location (Bldg, Elev, Room/Area): Area Walk-by 64, Aux El 364 1B RH HX Room

Instructions for Completing Checklist This checklist may be used to document the results of the Area Walk-By near one or more SWEL items. 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.

1. Does anchorage of equipment in the area appear to be free of potentially adverse seismic conditions (if visible without necessarily opening cabinets)?

Yes

2. Does anchorage of equipment in the area appear to be free of significant degraded conditions?

Yes

Based on a visual inspection from the floor, do the cable/conduit raceways and HVAC ducting appear to be free of potentially adverse seismic conditions (e.g., condition of supports is adequate and fill conditions of cable trays appear to be inside acceptable limits)?

Yes

4. Does it appear that the area is free of potentially adverse seismic spatial interactions with other equipment in the area (e.g., ceiling tiles and lighting)? Masonry walls are seismic and would not collapse on equipment

Yes

5. Does it appear that the area is free of potentially adverse seismic interactions that could cause flooding or spray in the area?

Yes

Does it appear that the area is free of potentially adverse seismic interactions that could cause a fire in the area?

Yes

		Status: Y N U
Area Walk-By Ch	ecklist (AWC)	•
Location (Bldg	, Elev, Room/Area): Area Walk-by 64, Aux El 364 1B RH HX Room	
associated temporary <i>Scaffoldi</i>	pear that the area is free of potentially adverse seismic interactions I with housekeeping practices, storage of portable equipment, and installations (e.g., scaffolding, lead shielding)? Ing tied off and not close to equipment in accordance with Exelon of Procedure	Yes
adversely	ooked for and found no other seismic conditions that could affect the safety functions of the equipment in the area?	Yes
<u>Comments</u>		
Seismic Walkdowr	Team M. Delaney & P. Gazda 8/20/12 pm	
Evaluated by:	Marlene Delaney Date:	10/5/2012
,	C.a. Mych Philip Gazda	10/5/2012
Photos None		

Correspondence No.: RS-12-161 Sheet 1 of 2

Status: Y N U

Area Walk-By Checklist (AWC)

Location (Bldg, Elev, Room/Area): Area Walk-by 64a, Aux El 364 MCR Chillers

Instructions for Completing Checklist This checklist may be used to document the results of the Area Walk-By near one or more SWEL items. 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.

1.	Does anchorage of equipment in the area appear to be free of potentially adverse seismic conditions (if visible without necessarily opening cabinets)?	Yes
2.	Does anchorage of equipment in the area appear to be free of significant degraded conditions?	Yes
3.	Based on a visual inspection from the floor, do the cable/conduit raceways and HVAC ducting appear to be free of potentially adverse seismic conditions (e.g., condition of supports is adequate and fill conditions of cable trays appear to be inside acceptable limits)?	Yes
4.	Does it appear that the area is free of potentially adverse seismic spatial interactions with other equipment in the area (e.g., ceiling tiles and lighting)? Masonry walls are seismic and would not collapse on equipment	Yes
5.	Does it appear that the area is free of potentially adverse seismic interactions that could cause flooding or spray in the area?	Yes

6. Does it appear that the area is free of potentially adverse seismic interactions that could cause a fire in the area?

7. Does it appear that the area is free of potentially adverse seismic interactions associated with housekeeping practices, storage of portable equipment, and temporary installations (e.g., scaffolding, lead shielding)?

Yes

Yes

					Status:	N U
Area Walk-By Ch	ecklist (AWC)					•
Location (Bldg	, Elev, Room/Area):	Area Walk-by 6	64a, Aux El 364 MCR 0	hillers		
					•	
-	looked for and found affect the safety fund		c conditions that could oment in the area?			Yes
<u>Comments</u>						
Seismic Walkdowr	n Team M. Delaney 8	k P. Gazda 8/20/	12 pm			
Fireheated hou	Marlere M	(Seleny	Marlana Dalana	Data	40/E/2042	
Evaluated by:			Marlene Delaney	_ Date:	10/5/2012	
	C.O. My	A Philip (Sazda	_	10/5/2012	
				-	,	
Photos						<u> </u>
None.					•	

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Status:

Area Walk-By Checklist (AWC)

Location (Bldg, Elev, Room/Area): Area Walk-by 66, Aux El 1B RH Pump Room

Instructions for Completing Checklist

This checklist may be used to document the results of the Area Walk-By near one or more SWEL items. 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.

1. Does anchorage of equipment in the area appear to be free of potentially Yes adverse seismic conditions (if visible without necessarily opening cabinets)? Does anchorage of equipment in the area appear to be free of significant Yes degraded conditions? 3. Based on a visual inspection from the floor, do the cable/conduit raceways and Yes HVAC ducting appear to be free of potentially adverse seismic conditions (e.g., condition of supports is adequate and fill conditions of cable trays appear to be inside acceptable limits)? Does it appear that the area is free of potentially adverse seismic spatial Yes interactions with other equipment in the area (e.g., ceiling tiles and lighting)? Masonry walls are seismic and would not collapse on equipment Does it appear that the area is free of potentially adverse seismic interactions Yes that could cause flooding or spray in the area? Does it appear that the area is free of potentially adverse seismic interactions Yes that could cause a fire in the area? Does it appear that the area is free of potentially adverse seismic interactions Yes associated with housekeeping practices, storage of portable equipment, and temporary installations (e.g., scaffolding, lead shielding)?

Area Walk-By Cho	ecklist (AWC)				Status: Y	
•	•		=	_		
Location (Bldg	, Elev, Room/Area):	Area Walk-by 6	6, Aux El 1B RH Pump	Room		
			· .		• •	
-	ooked for and found n affect the safety functi					Yes
Comments						
Seismic Walkdown	Team M. Delaney & I	P. Gazda 8/21/1	2 am			
Evaluated by:	Marlene M	Seleny	Marlene Delaney	Date:	10/5/2012	
	C.O. My	A Philip G	azda	- . -	10/5/2012	
Dhatas				·	· · · · · · · · · · · · · · · · · · ·	 ,
Photos None.						
NOILE.						

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Status: Y N U

Area Walk-By Checklist (AWC)

Location (Bldg, Elev, Room/Area): Area Walk-by Outage-1 - Cont - EL 426 - near 1RY32MA

Instructions for Completing Checklist

Byron Seismic Housekeeping Procedure

This checklist may be used to document the results of the Area Walk-By near one or more SWEL items. 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.

Additional space is provided at the end of this checklist for documenting other comments. Does anchorage of equipment in the area appear to be free of potentially Yes adverse seismic conditions (if visible without necessarily opening cabinets)? Does anchorage of equipment in the area appear to be free of significant Yes degraded conditions? 3. Based on a visual inspection from the floor, do the cable/conduit raceways and Yes HVAC ducting appear to be free of potentially adverse seismic conditions (e.g., condition of supports is adequate and fill conditions of cable trays appear to be inside acceptable limits)? Does it appear that the area is free of potentially adverse seismic spatial Yes interactions with other equipment in the area (e.g., ceiling tiles and lighting)? 5. Does it appear that the area is free of potentially adverse seismic interactions Yes that could cause flooding or spray in the area? Does it appear that the area is free of potentially adverse seismic interactions Yes that could cause a fire in the area? Bagged material for outage judged to be acceptable in accordance with the

D-93

	·	Status: Y N U
Area Walk-By Ch	ecklist (AWC)	•
Location (Bldg	g, Elev, Room/Area): Area Walk-by Outage-1 - Cont - EL 426 - r	ear 1RY32MA
associated temporary Scaffolds	opear that the area is free of potentially adverse seismic interaction divith housekeeping practices, storage of portable equipment, and installations (e.g., scaffolding, lead shielding)? It is adequately restrained and scaffold material adequately stored in the company of the with Exelon Scaffolding Procedure	d
•	looked for and found no other seismic conditions that could affect the safety functions of the equipment in the area?	Yes
Comments Seismic Walkdowr	n Team: P. Gazda & J. Griffith - 9/19/2012	
Evaluated by:		ate: 10/5/2012
	C.C. Mych Philip Gazda	10/5/2012
Photos None.		

Status: Y N U

Area Walk-By Checklist (AWC)

-1, Cu 1,	and by shooking (Avvo)	
Loc	cation (Bldg, Elev, Room/Area): Area Walk-by Outage-2 - Cont - EL 451 - near 1RY455A	
Instruc	ctions for Completing Checklist	
space I	necklist may be used to document the results of the Area Walk-By near one or more SWEL items. To below each of the following questions may be used to record the results of judgments and findings. In all space is provided at the end of this checklist for documenting other comments.	he
1.	Does anchorage of equipment in the area appear to be free of potentially adverse seismic conditions (if visible without necessarily opening cabinets)?	Yes
2.	Does anchorage of equipment in the area appear to be free of significant degraded conditions?	Yes
3.	Based on a visual inspection from the floor, do the cable/conduit raceways and HVAC ducting appear to be free of potentially adverse seismic conditions (e.g., condition of supports is adequate and fill conditions of cable trays appear to be inside acceptable limits)?	Yes
4.	Does it appear that the area is free of potentially adverse seismic spatial interactions with other equipment in the area (e.g., ceiling tiles and lighting)? Auxiliary steel members for pipe supports associated with the pipe containing valve 1RY455A are in contact with/close to the valve. All items are adequately-restrained and move together. Judged to be acceptable.	Yes
5.	Does it appear that the area is free of potentially adverse seismic interactions that could cause flooding or spray in the area?	Yes
6.	Does it appear that the area is free of potentially adverse seismic interactions that could cause a fire in the area?	Yes

Anna Malla Der Ch	haalilat (ANNO)		Status: Y	N U
Area Walk-By Ch	necklist (AWC)		•	
Location (Bld	g, Elev, Room/Area): Area Walk-by Outage-2 - Cont - EL 451	- near	IRY455A	
associate temporar	ppear that the area is free of potentially adverse seismic interacted with housekeeping practices, storage of portable equipment, y installations (e.g., scaffolding, lead shielding)? It is adequately restrained in accordance with Exelon Scaffolding to each other contents.	and		Yes
•	I looked for and found no other seismic conditions that could affect the safety functions of the equipment in the area?			Yes
Comments				
Seismic Walkdow	n Team: P. Gazda & J. Griffith - 9/19/2012			
Evaluated by:	James Griffith	Date:	10/5/2012	
	C.C. Mych Philip Gazda		10/5/2012	
Photos				
None.				

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Status:

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Area Walk-By Checklist (AWC)

Location (Bldg, Elev, Room/Area): Area Walk-by Outage-3 - Cont - EL 412 - near 1LT-0518

Instructions for Completing Checklist

This checklist may be used to document the results of the Area Walk-By near one or more SWEL items. 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.

1. Does anchorage of equipment in the area appear to be free of potentially adverse seismic conditions (if visible without necessarily opening cabinets)?

Yes

2. Does anchorage of equipment in the area appear to be free of significant degraded conditions?

Yes

3. Based on a visual inspection from the floor, do the cable/conduit raceways and HVAC ducting appear to be free of potentially adverse seismic conditions (e.g., condition of supports is adequate and fill conditions of cable trays appear to be inside acceptable limits)?

Yes

- Lead shielding on pipes is adequately restrained in accordance with Byron Seismic Housekeeping Procedure.
- 4. Does it appear that the area is free of potentially adverse seismic spatial interactions with other equipment in the area (e.g., ceiling tiles and lighting)?

Yes

5. Does it appear that the area is free of potentially adverse seismic interactions that could cause flooding or spray in the area? Welded drain line is well-supported and judged to be acceptable.

Yes

6. Does it appear that the area is free of potentially adverse seismic interactions that could cause a fire in the area?

Yes

Area Walk-By Cho	ecklist (AWC)	Status: Y N U
-	, Elev, Room/Area): Area Walk-by Outage-3 - Cont - EL 412 - ne	ar 1LT-0518
associated temporary <i>Tables w</i>	pear that the area is free of potentially adverse seismic interaction I with housekeeping practices, storage of portable equipment, and installations (e.g., scaffolding, lead shielding)? ith outage equipment are near robust items and are judged to be a per Byron Seismic Housekeeping Procedure.	s Yes
•	ooked for and found no other seismic conditions that could affect the safety functions of the equipment in the area?	Yes
Comments Seismic Walkdown	Team: P. Gazda & J. Griffith - 9/19/2012	
Evaluated by:	James Griffith Da	e: 10/5/2012
	C. C. Mych Philip Gazda	10/5/2012
Photos None.		

Status:	Υ	N	U

Area Walk-By Checklist (AWC)

Location (Bldg, Elev, Room/Area): Area Walk-by Outage-4 - Cont - EL 377 - near 1RH8702A

Instructions for Completing Checklist

This checklist may be used to document the results of the Area Walk-By near one or more SWEL items. 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.

1. Does anchorage of equipment in the area appear to be free of potentially Yes adverse seismic conditions (if visible without necessarily opening cabinets)? 2. Does anchorage of equipment in the area appear to be free of significant Yes degraded conditions? Yes Based on a visual inspection from the floor, do the cable/conduit raceways and HVAC ducting appear to be free of potentially adverse seismic conditions (e.g., condition of supports is adequate and fill conditions of cable trays appear to be inside acceptable limits)? Gauges are near pipe. Pipe is adequately restrained in 3 directions. Interaction during a seismic event judged to not be credible. Does it appear that the area is free of potentially adverse seismic spatial Yes interactions with other equipment in the area (e.g., ceiling tiles and lighting)? 5. Does it appear that the area is free of potentially adverse seismic interactions Yes that could cause flooding or spray in the area? Does it appear that the area is free of potentially adverse seismic interactions Yes that could cause a fire in the area?

Area V	Valk-Bv Ch	ecklist (AWC)			Status:	Y N U
			Area Walk-by Outage-4 - Co	nt - EL 377 - near 1	IRH8702A	
7.	associated temporary	d with housekeeping printer installations (e.g., so are adequately restress.)	free of potentially adverse seis oractices, storage of portable of affolding, lead shielding)? rained in accordance with Exel	equipment, and		Yes
8.			no other seismic conditions th tions of the equipment in the a			Yes
<u>Comm</u> Seismi		n Team: P. Gazda & C	J. Griffith - 9/19/2012			
Evalua	ted by:		es Griffith	Date:	10/5/2012	
		C.O. My	Philip Gazda		10/5/2012	
Photos None.	<u>s</u>					

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Status: Y N U

Area Walk-By Checklist (AWC)

Area Walk-by Outage-5 - Cont - EL 377 - near 1VP01AA (inside

Location (Bldg, Elev, Room/Area): Plenum)

Instructions for Completing Checklist

This checklist may be used to document the results of the Area Walk-By near one or more SWEL items. 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.

1. Does anchorage of equipment in the area appear to be free of potentially Yes adverse seismic conditions (if visible without necessarily opening cabinets)? Yes 2. Does anchorage of equipment in the area appear to be free of significant degraded conditions? 3. Based on a visual inspection from the floor, do the cable/conduit raceways and Yes HVAC ducting appear to be free of potentially adverse seismic conditions (e.g., condition of supports is adequate and fill conditions of cable trays appear to be inside acceptable limits)? Yes 4. Does it appear that the area is free of potentially adverse seismic spatial interactions with other equipment in the area (e.g., ceiling tiles and lighting)? 5. Does it appear that the area is free of potentially adverse seismic interactions Yes that could cause flooding or spray in the area? 6. Does it appear that the area is free of potentially adverse seismic interactions Yes that could cause a fire in the area?

Area Walk-By C	hecklist (AWC)		Status: Y N U
Location (Blo	Area Walk-by Outage-5 dg, Elev, Room/Area): Plenum)	- Cont - EL 377 - near 1	VP01AA (inside
associate temporal <i>Outage</i>	appear that the area is free of potentially adverse ed with housekeeping practices, storage of portary installations (e.g., scaffolding, lead shielding)? material (ladders, etc.) is adequately stored in a Housekeeping Procedure	ble equipment, and	Yes
•	u looked for and found no other seismic condition y affect the safety functions of the equipment in t		Yes
Comments Seismic Walkdov	vn Team: P. Gazda & J. Griffith - 9/19/2012		· · · · · · · · · · · · · · · · · · ·
Evaluated by:	James Griffith	Date:	10/5/2012
	C.O. Mych Philip Gazda		10/5/2012

Photos None.

Status: Y N U

Area Walk-By Checklist (AWC)

Location (Bldg, Elev, Room/Area): Area Walk-by Outage-6 - Cont - EL 377 - near 1LT-0459

Instructions for Completing Checklist

This checklist may be used to document the results of the Area Walk-By near one or more SWEL items. 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.

1. Does anchorage of equipment in the area appear to be free of potentially Yes adverse seismic conditions (if visible without necessarily opening cabinets)? 2. Does anchorage of equipment in the area appear to be free of significant Yes degraded conditions? Yes 3. Based on a visual inspection from the floor, do the cable/conduit raceways and HVAC ducting appear to be free of potentially adverse seismic conditions (e.g., condition of supports is adequate and fill conditions of cable trays appear to be inside acceptable limits)? Auxiliary support steel located near insulated pipe. Insulation is flexible so it is not likely that the impact from the auxiliary support steel during a seismic event would damage the pipe. Judged to be acceptable. 4. Does it appear that the area is free of potentially adverse seismic spatial Yes interactions with other equipment in the area (e.g., ceiling tiles and lighting)? Yes 5. Does it appear that the area is free of potentially adverse seismic interactions that could cause flooding or spray in the area? 6. Does it appear that the area is free of potentially adverse seismic interactions Yes that could cause a fire in the area?

Status: Y N U

Area Walk-By C	necklist (AWC)			
Location (Bld	g, Elev, Room/Area): Area Walk-by Outage-6 - Cor	nt - EL 377 - near	1LT-0459	
7. Does it appear that the area is free of potentially adverse seismic interactions associated with housekeeping practices, storage of portable equipment, and temporary installations (e.g., scaffolding, lead shielding)? Scaffold and lead shielding are adequately restrained in accordance with Exelon Scaffolding Procedure and Byron Seismic Housekeeping Procedure respectively.				
8. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment in the area?				
Comments				
Seismic Walkdow	rn Team: P. Gazda & J. Griffith - 9/19/2012			
Evaluated by:	James Griffith	Date:	10/5/2012	
,	James Griffith C. C. Mych Philip Gazda	· -	10/5/2012	
<u>Photos</u>				
None.				

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Status: Y N U

Area Walk-By Checklist (AWC)

Location (Bldg, Elev, Room/Area): Area Walk-by Outage-7 - Cont - EL 390 - near 1TE-RC022A

Instructions for Completing Checklist

This checklist may be used to document the results of the Area Walk-By near one or more SWEL items. 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.

1. Does anchorage of equipment in the area appear to be free of potentially Yes adverse seismic conditions (if visible without necessarily opening cabinets)? 2. Does anchorage of equipment in the area appear to be free of significant Yes degraded conditions? 3. Based on a visual inspection from the floor, do the cable/conduit raceways and Yes HVAC ducting appear to be free of potentially adverse seismic conditions (e.g., condition of supports is adequate and fill conditions of cable trays appear to be inside acceptable limits)? 4. Does it appear that the area is free of potentially adverse seismic spatial Yes interactions with other equipment in the area (e.g., ceiling tiles and lighting)? 5. Does it appear that the area is free of potentially adverse seismic interactions Yes that could cause flooding or spray in the area? Does it appear that the area is free of potentially adverse seismic interactions Yes that could cause a fire in the area?

		Status: Y N U
Area Walk-By Ch	ecklist (AWC)	
Location (Bldg	g, Elev, Room/Area): Area Walk-by Outage-7 - Cont - EL 390 - ne	ar 1TE-RC022A
associated temporary	opear that the area is free of potentially adverse seismic interactions d with housekeeping practices, storage of portable equipment, and v installations (e.g., scaffolding, lead shielding)? s are adequately restrained in accordance with Exelon Scaffolding	s Yes
•	looked for and found no other seismic conditions that could affect the safety functions of the equipment in the area?	Yes
Comments Seismic Walkdown	n Team: P. Gazda & J. Griffith - 9/19/2012	
Evaluated by:	James Griffith Dat	te: 10/5/2012
	C.C. Mych Philip Gazda	10/5/2012
Photos None.		

Eplan for Future Seismic Walkdown of Inaccessible Equipment

Certain cabinets require supplemental internal inspection for other adverse seismic conditions as summarized in Table E-2. Supplemental internal inspections of these cabinets are required due to clarifications provided by the NRC after the online seismic walkdowns were completed. These supplemental inspections will be completed during a unit outage or time when the equipment is accessible, as appropriate.

Byron Generating Station Unit 1 12Q0108.20-R-001 Rev. 1 Correspondence No.: RS-12-161

Table E-1 not used.

Table E-2. Deferred Internal Cabinet Inspection

COMPONENT	DESCRIPTION	EQUIPMENT CLASS	ACCESSIBLE (Y/N)	IF NOT ACCESSIBLE, WHY?	MILESTONE COMPLETION	TRACKING NUMBER (IR No.)	STATUS / INSPECTION RESULTS
1AP21E	480V AUX BLDG ESF MCC 131X1 XFORMER	(01) Motor Control Centers	YES		Spring 2013	1425389	
1AP22E	480V AUX BLDG ESF MCC 131X3 ASMBLY	(01) Motor Control Centers	YES		Spring 2013	1425389	
1AP24E	EQ 480 V AUX BLDG ESF MCC 132X3 ASMBLY	(01) Motor Control Centers	YES		Spring 2013	1425389	
1AP25E	ASSY - 480V AUX BLDG ESF MCC 131X2	(01) Motor Control Centers	YES		Spring 2013	1425389	
1AP27E	EQ 480V AUX BLDG MCC 132X2 ASMBLY	(01) Motor Control Centers	YES		Spring 2013	1425389	
1AP38E	ASSY - 480V AUX BLDG MCC 133X1A	(01) Motor Control Centers	YES		Spring 2013	1425389	
1AP92E	ASSY - 480V SXCT MCC 132Z1, SOUTH ELEC RM	(01) Motor Control Centers	YES		Spring 2013	1425389	
1AP93E	ASSY - 480V SXCT MCC 131Z1, NORTH ELEC RM	(01) Motor Control Centers	YES		Spring 2013	1425389	
1AP98E	ASSY - 480V ESF SXCT UNIT SUBSTA 132Z, SOUTH ELEC RM	(01) Motor Control Centers	YES		Spring 2013	1425389	

COMPONENT ID	DESCRIPTION	EQUIPMENT CLASS	ACCESSIBLE (Y/N)	IF NOT ACCESSIBLE, WHY?	MILESTONE COMPLETION	TRACKING NUMBER (IR No.)	STATUS / INSPECTION RESULTS
1AP99E	ASSY - 480V ESF SXCT UNIT SUBSTA 131Z, NORTH ELEC RM	(01) Motor Control Centers	YES		Spring 2013	1425389	
1AP12E	ASSY - 480V ESF SWGR 132X	(02) Low Voltage Switchgear	YES		Completed during Bus Outage in B1R18	N/A	No adverse seismic conditions
1AP06E	4160 VOLT ESF SWITCH BUS 142	(03) Medium Voltage Switchgear	YES		Completed during Bus Outage in B1R18	N/A	No adverse seismic conditions
1AP11E	EQ 480V ESF UNIT SUB 131X TRANSFORMER 1AP086	(04) Transformers	NO	See Note 1 below.			
1AP13E	480V ESF UNIT SUBSTA 132X XFMR	(04) Transformers	YES		Completed during Bus Outage in B1R18		No adverse seismic conditions
1DC10J	125V DC FUSE PANEL - DIV. 11	(14) Distribution Panels	YES	Rear Panel is Not Removable	Spring 2013	1425391	
1DC11J	125V DC FUSE PANEL - DIV. 12	(14) Distribution Panels	YES	Rear Panel is Not Removable	Spring 2013	1425391	

COMPONENT	DESCRIPTION	EQUIPMENT CLASS	ACCESSIBLE (Y/N)	IF NOT ACCESSIBLE, WHY?	MILESTONE COMPLETION	TRACKING NUMBER (IR No.)	STATUS / INSPECTION RESULTS
1DC04E	125V DC BATT CHGR 112	(16) Battery Chargers and Inverters	YES	From Front only rear panel bolted on, requires extensive disassembly.	Spring 2013	1425391	
1IP05E	INVERTER INST BUS 111 1-3371 AB1	(16) Battery Chargers and Inverters	YES	From Front only rear panel bolted on, requires extensive disassembly.	Spring 2013	1425391	
1IP07E	INVERTER INST BUS 113 1-3371 AB1	(16) Battery Chargers and Inverters	YES	From Front only rear panel bolted on, requires extensive disassembly.	Spring 2013	1425391	
1IP08E	INVERTER INST BUS 114 1-3371 AB1	(16) Battery Chargers and Inverters	YES	From Front only rear panel bolted on, requires extensive disassembly.	Spring 2013	1425391	
0VC01JA	CONT RM HVAC LOCAL CONT PAN ASMBLY	(20) Instrumentation and Control Panels and Cabinets	YES		Spring 2013	1425391	

COMPONENT ID	DESCRIPTION	EQUIPMENT CLASS	ACCESSIBLE (Y/N)	IF NOT ACCESSIBLE, WHY?	MILESTONE COMPLETION	TRACKING NUMBER (IR No.)	STATUS / INSPECTION RESULTS
0VC15J	MCR U-1 HVAC START PNL	(20) Instrumentation and Control Panels and Cabinets	YES		Spring 2013	1425391	
1PA01J	U-1 PROC I&C RACK PROTECT CH 1 CAB 1	(20) Instrumentation and Control Panels and Cabinets	YES		Spring 2013	1425391	
1PA02J	U-1 PROC I&C RACK PROTECT CH 2 CAB 2	(20) Instrumentation and Control Panels and Cabinets	YES		Spring 2013	1425391	
1PA03J	U-1 PROC I&C RACK PROTECT CH 3 CAB 3	(20) Instrumentation and Control Panels and Cabinets	YES		Spring 2013	1425391	
1PA04J	U-1 PROC I&C RACK PROTECT CH 4 CAB 4	(20) Instrumentation and Control Panels and Cabinets	YES		Spring 2013	1425391	
1PA06J	U-1 PROC I&C RACK CONT GRP 2 CAB 6	(20) Instrumentation and Control Panels and Cabinets	YES		Spring 2013	1425391	

COMPONENT ID	DESCRIPTION	EQUIPMENT CLASS	ACCESSIBLE (Y/N)	IF NOT ACCESSIBLE, WHY?	MILESTONE COMPLETION	TRACKING NUMBER (IR No.)	STATUS / INSPECTION RESULTS
1PA07J	PROC I&C RACK CONT GRP 3 CAB 7	(20) Instrumentation and Control Panels and Cabinets	YES		Spring 2013	1425391	
1PA08J	U-1 PROC I&C RACK	(20) Instrumentation and Control Panels and Cabinets	YES		Spring 2013	1425391	
1PA09J	CAB PROT SYST SOL ST RX/ESF TRN A 0-3371B AB1	(20) Instrumentation and Control Panels and Cabinets	YES		Spring 2013	1425391	
1PA10J	CAB PROT SYST SOL ST RX/ESF TRN B 0-3371B AB1	(20) Instrumentation and Control Panels and Cabinets	YES		Spring 2013	1425391	
1PA12J	CAB TEST SAFEGUARD TRN B AB1	(20) Instrumentation and Control Panels and Cabinets	YES		Spring 2013	1425391	
1PA14J	CAB ESF SEQ/ACT TRN B 0-3371B AB1	(20) Instrumentation and Control Panels and Cabinets	YES		Spring 2013	1425391	

COMPONENT ID	DESCRIPTION	EQUIPMENT CLASS	ACCESSIBLE (Y/N)	IF NOT ACCESSIBLE, WHY?	MILESTONE COMPLETION	TRACKING NUMBER (IR No.)	STATUS / INSPECTION RESULTS
1PA27J	CAB RELAY AUX SAFEGUARD TRN A 0-3371B AB1	(20) Instrumentation and Control Panels and Cabinets	YES		Spring 2013	1425391	
1PA28J	CAB RELAY AUX SAFEGUARD TRN B 0-3371B AB1	(20) Instrumentation and Control Panels and Cabinets	YES		Spring 2013	1425391	
1PA33J	CAB CONT SYSTEM ESF 11 0-3371B AB1	(20) Instrumentation and Control Panels and Cabinets	YES		Spring 2013	1425391	
1PA34J	CAB CONT SYSTEM ESF 12 0-3371B AB1	(20) Instrumentation and Control Panels and Cabinets	YES		Spring 2013	1425391	
1PA51J	CAB HJTC RX VESSEL LEVEL CH A 0-3371B AB1	(20) Instrumentation and Control Panels and Cabinets	YES		Spring 2013	1425391	
1PA52J	CAB HJTC RX VESSEL LEVEL CH B 0-3371B AB1	(20) Instrumentation and Control Panels and Cabinets	YES		Spring 2013	1425391	

COMPONENT ID	DESCRIPTION	EQUIPMENT CLASS	ACCESSIBLE (Y/N)	IF NOT ACCESSIBLE, WHY?	MILESTONE COMPLETION	TRACKING NUMBER (IR No.)	STATUS / INSPECTION RESULTS
1PL08J	1B DG CONTROL PANEL	(20) Instrumentation and Control Panels and Cabinets	YES		Spring 2013	1425391	
1PM05J	MAIN CONTROL BOARD	(20) Instrumentation and Control Panels and Cabinets	YES		8/6/2012	N/A	NO OTHER ADVERSE SEISMIC CONDITIONS
1RD05E	REACTOR TRIP SWITCHGEAR	(20) Instrumentation and Control Panels and Cabinets	YES		Completed during B1R18 Refueling Outage	N/A	No adverse seismic conditions
1VA11J	CENTRIFUGAL CHARGING PCUBICLE COOLER LOCAL CONTROL PANEL	(20) Instrumentation and Control Panels and Cabinets	YES		Spring 2013	1425391	
1VX07J	ESF SWGR RM DIV 12 HVAC DMPR START PNL	(20) Instrumentation and Control Panels and Cabinets	YES		Spring 2013	1425391	
1HS-FC001	SPENT FUEL PIT PUMP C/S Box on wall	(18) Instrument Racks	YES		Spring 2013	1425391	

Note 1 - Unit Sub-Station Transformer panel anchorages are external welds, and Instrument Power CVTs are externally bolted to the floor. As such only an external inspection was performed during the Seismic Walk Down. For each component type internal inspection requires removal of bolted covers. The transformers do not have hinged doors or panel covers with handles, latches or thumb screws that provide access to view the internal assembly. Extensive disassembly is required to perform an internal inspection. After reviewing the FAQ 4.20 Rev. 2 dated September 25, 2012 on this question Byron will not perform internal inspection of Unit Sub-Station Transformers or Instrument Power CVTs.



Peer Review Report

This appendix includes the Peer Review Team's report, including the signed Peer Review Checklist for SWEL from Appendix F of the EPRI guidance document. (Ref. 1)

Peer Review Report For Near Term Task Force (NTTF) Recommendation 2.3 Seismic Walkdown Inspection of Byron Nuclear Station Unit 1

October 15, 2012

Prepared by Peer Reviewers

Walter Djordjevic (Team Leader)

Todd A. Bacon

Tribhawan K. Ram

Walter Djordjevic W MT	40/45/2042
vvalter Djordjevic 7/2 /	10/15/2012
Peer Review Team Leader Certification Signature	Date

1 Introduction

This report documents the independent peer review for the Near Term Task Force (NTTF) Recommendation 2.3 Seismic Walkdowns performed by Stevenson & Associates (S&A) for Unit 1 of Byron Nuclear Station (Byron). The peer review addresses the following activities:

- Review of the selection of the structures, systems, and components, (SSCs) that are included in the Seismic Walkdown Equipment List (SWEL)
- Observation of seismic walkdown on August 6, 2012 by Peer Review Team Leader, Mr.
 Walter Djordjevic
- Review of a sample of the checklists prepared for the Seismic Walkdowns & Walk-Bys
- Review of any licensing basis evaluations
- Review of the decisions for entering the potentially adverse conditions in to the plant's Corrective Action Plan (CAP)
- Review of the final submittal report

The peer reviewers for Byron, Unit 1, are Messrs. Walter Djordjevic, Todd A. Bacon, and Tribhawan K. Ram, all of S&A. Mr. Djordjevic is designated the Peer Review Team Leader and has participated in all aspects of the peer review. None of the aforementioned engineers is involved in the seismic walkdown inspection process so that they can maintain their independence from the project. Mr. Djordjevic is an advanced degree structural engineer, has over thirty years of nuclear seismic experience and has received Seismic Capability Engineer (EPRI SQUG training), EPRI IPEEE Add-on, Seismic Fragility and Seismic Walkdown Engineer (SWE) training. Mr. Bacon is a civil-structural engineer with 25 years of nuclear engineering experience and received the Seismic Walkdown Engineer (SWE) training. Mr. Ram is an advanced degree nuclear engineer with over 25 years of nuclear power plant experience. Mr. Djordjevic led the seismic peer review activities and Mr. Ram led the SWEL selection peer review. Mr. Djordjevic, as Peer Review Team Leader, has participated in all phases of the peer review process for Byron, Unit 1.

The SWEL development was performed by Mr. Kim L. Hull of S&A. No findings were cited. The SWEL peer review process and observations by the peer reviewers are found in Section 2. The completed SWEL Peer Review Checklist is found in Attachment 2.

The peer review of the seismic walkdown inspection started on August 6, 2012 with a peer review of the actual walkdowns for both Units 1 and 2. Mr. Djordjevic joined the walkdown team for a portion of the day's planned walkdowns to observe the conduct of walkdowns and adherence to the Seismic Walkdown Guidance (SWG)¹. The SWE walkdown inspection team engineers were Mr. Philip A. Gazda and Ms. Marlene M. Delaney for both units. An interview was conducted by Messrs. W. Djordjevic and T. Bacon with the SWE inspection team on September 7, 2012 after review of a sample of the Unit 1 Seismic Walkdown Checklists (SWC)

¹ Seismic Walkdown Guidance For Resolution of Fukushima Near-Term Task Force Recommendation 2.3: Seismic, EPRI Report 1025286, June 2012.

Byron Generating Station Unit 1 12Q0108.20-R-001 Rev. 1 Correspondence No.: RS-12-161 Sheet 3 of 15

and Area Walk-By Checklists (AWCs) to ascertain the quality and procedural compliance with the SWG. The discussion of the sample SWCs and AWCs is provided in Section 3.

No issues were identified which challenged the current licensing basis.

Peer Review - Selection of SSCs

2.1 Purpose

The purpose of this section is to describe the process that was used to perform the peer review of the selected structures, systems, and components, (SSCs) that were included in the Seismic Walkdown Equipment List (SWEL).

This section documents the Peer Review – Selection of SSCs performed for Byron Unit 1

2.2 Peer Review Activity – Selection of SSCs

The guidance in EPRI Technical Report 1025286, Seismic Walkdown Guidance for Resolution of Fukushima Near-Term Task Force Recommendation 2.3: Seismic, dated June 2012 {SWG}, Section 3: Selection of SSCs was used as the basis for this review.

This peer review was based on reviews of the following documents:

- 1) UFSAR chapters 3, 5, 6, 7, 8, and 9
- 2) Success Path Equipment List (SPEL)
- 3) P&ID M-63 for Spent Fuel Pool Cooling System

This peer review was based on interviews with the following individual(s) who was (were) directly responsible for development of the SWEL:

Mr. Kim L. Hull, Senior Mechanical Engineer

This peer review utilized the checklist shown in the SWG, Appendix F: Checklist for Peer Review of SSC Selection.

For SWEL 1 development, the following actions were completed in the peer review process:

- Verification that the SSCs selected represented a diverse sample of the equipment required to perform the following five safety functions:
 - Reactor Reactivity Control (RRC)
 - Reactor Coolant Pressure Control (RCPC)
 - Reactor Coolant Inventory Control (RCIC)
 - Decay Heat Removal (DHR)
 - Containment Function (CF)

This peer review determined that the SSCs selected for the seismic walkdowns represent a diverse sample of equipment required to perform the five safety functions. This conclusion was based on a review of UFSAR chapters 3, 5, 6, 7, 8, and 9 which

determined that all five safety functions (RRC, RCPC, RCIC, DHR, and CF) are adequately represented.

- Verification that the SSCs selected include an appropriate representation of items having the following sample selection attributes:
 - Various types of systems
 - Major new and replacement equipment
 - Various types of equipment
 - Various environments
 - o Equipment enhanced based on the findings of the IPEEE
 - o Risk insight consideration

This peer review determined that the SSCs selected for the seismic walkdowns include a sample of items that represent each attribute/consideration identified above. The justification for this conclusion is: a) Based on a review of UFSAR chapters referenced above and the SPEL list, it was determined that appropriate variety of equipment and systems are represented (e.g., EDG, Component Cooling, Aux Feed, Charging, Essential Service WTR, RHR, Batteries, Battery Chargers, Low and Med Vol Switchgear and MCCs); b) The "New or Replace" equipment are indicated as such; c) A variety of location environments are included: e.g., MCCs (Auxiliary @ EL: 346, and ESWCT @ EL: 874), Pumps (Auxiliary @ EL: 330, 346, 364, and 383), Tanks and Heat Exchangers (Auxiliary and Containment), Air Handlers (Auxiliary and Containment) and Valves (Auxiliary and Containment); d) The IPEEE Enhancement related equipment is indicated as such; and e) The risk quantification has been included in the "Comments" column.

For SWEL 2 development, the following actions were completed in the peer review process:

- Verification that SFP related items were considered and appropriately added to SWEL 2.
 - This peer review determined that spent fuel pool cooling system Seismic CAT 1 items were given appropriate consideration and included on the list. This determination is based on a review of the licensing and design basis documents including FSAR chapters 3 and 9 and SFP Cooling System P&ID M-63.
- Verification that appropriate justification was documented for spent fuel pool related items that were not added to the SWEL 2.

This peer review determined that an appropriate level of justification was documented for those items related to the spent fuel pool that were not added to SWEL 2. The justification for not including any Seismic Category I Structure has appropriately been documented in the interim report. There are no rapid drain down related components in SWEL2. Appropriate justification for this item is included in the interim report as well.

2.3 Peer Review Findings – Selection of SSCs

This peer review found that the process for selecting SSCs that were added to the SWEL was consistent with the process outlined in the SWG Section 3: Selection of SSCs.

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The peer review checklist is attached to this document.

This peer review resulted in no additional findings.

2.4 Resolution of Peer Review Comments - Selection of SSCs

All comments requiring resolution were incorporated prior to completion of this peer review.

2.5 Conclusion of Peer Review – Selection of SSCs

This peer review concludes that the process for selecting SSCs to be included on the seismic walkdown equipment list appropriately followed the process outlined in the SWG, Section 3: Selection of SSCs. It is further concluded that the SWEL sufficiently represents a broad population of plant Seismic Category 1 equipment and systems to meet the objectives of the NRC 50.54(f) Letter.

3 Review of Sample Checklists & Area Walk-bys

A peer review of the SWCs and AWCs was performed on September 7, 2012 after which an interview was conducted by Messrs. Djordjevic and Bacon with the SWE inspection team in accordance with the SWG requirements. The SWE trained walkdown engineers were Mr. Philip A. Gazda and Ms. Marlene M. Delaney, both of whom are SQUG trained seismic capability engineers (EPRI 5-day training course) and Seismic Walkdown Engineer (SWE) trained.

Table 3-1 lists the SWCs and AWCs samples which represent 17% of the SWC and 20% of the AWC. The sample includes the equipment inspected during the peer review and other equipment items from other classes to introduce diversity to the sampling procedure.

Table 3-1: Table of SWC and AWC Samples from Seismic Walkdown Inspection for Unit 1

Equipment Identification	Equipment	Walkdown Item	SWE Noted Observations
	(GIP) Class		
		Inverter Bus 111	
1IP05E	16	1-3371 AB1	No concerns
		Div 12 MEER	
1VE05C	9	Exhaust Fan	No concerns
		SG 1B PORV	
1MS018B	8	Assembly	No concerns
		RHR HX 1B Flow	
1RH607	7	Control Valve	No concerns
		Diesel driven SX	
OSXO2PB	6	Make-up Pump	No concerns
		Main Control	External welded anchorage
1PM05J	20	Board	covered by carpeting
		1B AFW SX	
1AF017B	8	Suction Valve	No concerns
		Train B Makeup	·
		Air Filter Unit	
0VC08Y	10	Fan OB	No concerns
		480V ESF 131Z	
1AP99E	1	MCC	No concerns
		Containment	
1RY8028	8	Isolation Valve	No concerns
1SX01PB	5	ESW Pump	No concerns
		CC Heat	
1SX005	8	Exchanger Inlet	No concerns

Equipment Identification	Equipment (GIP) Class	Walkdown Item	SWE Noted Observations			
		Valve				
		SX Supply Valve for DD AFW				
1SX173	. 8	Pump	No concerns			
		Charging Pump				
		Injection				
1SI8801B	7	Isolation Valve	No concerns			
		Charging Line D/P Cell Flow				
1FT-0121	18	Transmitter	No concerns			
		SG Loop 1A				
	,	Steam Pressure				
1PT-0516	18	Transmitter	No concerns			
			Cove molding covers external			
1PA08J	20	PROC I&C Rack	anchorage			
		ESF 11 0-3371B	cove molding covers external			
1PA33J	20	AB1 Cabinet	anchorage			
		Charging Pump				
		Cubicle Cooler				
414441		Local Control				
1VA11J	20	Panel	no concerns			
1 DU 0 1 DD A	21	RH Pump 1B Seal				
1RH01PB-A 1AP25E	21	Cooler	no concerns			
TAPZSE		480V Auxiliary Bldg ESF MCC	Repaired since IPEEE- outlier IPEEE as it was originally not			
	1	131X2	bolted to adjacent MCC			
		131/2	boiled to adjace it ivide			
Area Walkdown	Observation	s				
Description		,				
AW8	Open s-hool	ks were found				
AW60	No concerns					
AW52 B SX pump room	Ladders well	secured				
Outside HX & spent fuel						
pump room	Checked val	ve clamp bolting - C	OK .			
AW36 - Area 5 near MCC	No concerns					
4KV Div 11 Room		s were found	<u> </u>			
MEER Div 1 (AW28)	No concerns	- identified well su	pported drain line			
1B Diesel Oil Storage Tank	No concerns	No concerns				

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Equipment Identification	Equipment (GIP) Class	Walkdown Item	SWE Noted Observations
Room			
SX Cooling El. 377 ft			
	Open s-hool	ks were found	

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There were no findings that remotely challenged the licensing basis. The plant was found to have just a few minor housekeeping (and not particularly seismic housekeeping) and maintenance (concerning loose screws and fasteners) issues. Tables 5-2 and 5-3 of the Seismic Walkdown Report (final submittal report) provide the lists of the issues encountered for the equipment seismic walkdowns and area walk-bys.

The scaffolding and seismic housekeeping procedures were reviewed by the SWEs in order to gain a full understanding of the plant practices in regard to those procedures. There were no seismic concerns noted in Unit 1 with regard to scaffold erection or seismic housekeeping. The very few instances of loose screws/fasteners and simple (non-seismic) general maintenance issues were of no concern from the seismic performance viewpoint. There were instances of partially open s-hooks on light fixtures but those instances were isolated and not "clustered" around a single fixture. As such, they were not adjudged as immediate seismic interaction hazards to the equipment in their general proximity. The instances where they were found were documented and action requests (IR) were written (see Table 5-2 and 5-3 in submittal report). In addition, a general action request was written (IR# 1399405) to inspect for and close s-hooks wherever they are located in the plant. In conclusion, procedural compliance is excellent at this plant.

Finally, electrical panels at Byron 1 are generally intermittently (stitch) welded to an embedded plate in the concrete floor. As indicated in Table 3-1 (see 1PA08J and 1PA33J) the stitch welding is generally not visible as it is covered with cove molding. This is the situation throughout the, auxiliary electric equipment room. The welding is evident by virtue of the raised profile projected through the plastic molding. The SWE inspectors were able to visually observe the welding in a few locations where the molding had been removed or was missing. They concluded that the welding indicated on the installation drawings is accurate and accepted the drawings as correct. The affected panels are: 1PA01J – 1PA12J, 1PA14J, 1PA28J, 1PA33J, 1PA34J, 1PA51J, and 1PA52J. The peer reviewers concur with their conclusions.

4 Review of Licensing Basis Evaluations

Tables 5-2 and 5-3 provide a list of the issues encountered during the Unit 1 seismic walkdown inspections for the SWEL components and how they were addressed. If a Byron IR request was generated it is shown in the Table. An interview was conducted by Messrs. Djordjevic and Bacon with the SWE inspection team on September 7, 2012 to discuss the issues identified. No potentially adverse seismic conditions were identified that resulted in a seismic licensing basis evaluation and the peer reviewers concur with this outcome.

5 Review Final Submittal Report & Sign-off

The final submittal report has been reviewed by Messrs. W. Djordjevic, T. A. Bacon and T. K. Ram and found to meet the requirements of the EPRI 1025286 – Seismic Walkdown Guidance (SWG).

Attachment 1: Peer Review Checklist for SWEL

Byron Unit 1 Peer Review Checklist for SWEL

3 · - · · · - · · · · · · · · · · · · ·	
Instructions for Completing Checklist This peer review checklist may be used to document the review of the Seismic Walkdov Equipment List (SWEL) in accordance with Section 6. The space below each question is checklist should be used to describe any findings identified during the peer review proceed the SWEL may have changed to address those findings. Additional space is provided at this checklist for documenting other comments.	n this ess and how
 Were the five safety functions adequately represented in the SWEL 1 selection? Appropriate equipment has been included to maintain the five safety functions: RPC, DHR, RCIC, RCPC, and CF 	Y⊠ N□
 Does SWEL 1 include an appropriate representation of items having the following sa selection attributes: 	ample
a. Various types of systems? Various system types (e.g., EDG, Component Cooling, Aux Feed, Charging, Essential Service WTR, RHR, Batteries, Battery Chargers, Low and Med Vol Switchgear and MCCs) have been included.	Y⊠ N□
b. Major new and replacement equipment? "New or Replace" equipment is included in the list.	Y⊠ N□
 c. Various types of equipment? The equipment represents all required 21 types except 12 and 13. The screenings #1, #2, and #3 resulted in no equipment in the latter two categories. 	Y⊠N□
d. Various environments?	Y⊠ N□

Appropriate environments (e.g., Auxiliary and Containment buildings) have been

included.

Byron Unit 1 Peer Review Checklist for SWEL

	e. Equipment enhanced based on the findings of the IPEEE (or equivalent program? Included as indicated in the column, "IPEEE Enhancement.") Y⊠ N□
	f. Were risk insights considered in the development of SWEL 1? Risk qualtifications (F-V and RAW) provided in the "Comments" column	Y⊠ N□
3.	. For SWEL 2:	
	a. Were spent fuel pool related items considered, and if applicable include SWEL 2? Spent fuel pool cooling system Seismic CAT 1 items were given appropriate consideration and included on the list.	ed in Y⊠ N□
	b. Was an appropriate justification documented for spent fuel pool related not included in SWEL 2? There are no rapid drain down related components in SWEL2. Appropriate justification for this item is included in the Interim Report. Justification has also been provided for not including Seismic I structures such as SFP sluice/transfe gates.	0
4.	Provide any other comments related to the peer review of the SWELs. None	
		V⊠ N□
5.	Have all peer review comments been adequately addressed in the final SWI	EL? Y⊠ N□

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Peer Reviewer #1:	TK Ram (Byron 1)	Date: <u>8/21/12</u>	
Peer Reviewer #2:	Walter Diordievic	Date: 9/1/12	

G IPEEE Vulnerability Status

Table G-1 lists the plant improvements, the IPEEE/SQUG proposed resolution, the actual resolution and resolution date.

Table G-1. IPEEE Vulnerability Status

Equipment ID	Description of Condition / Vulnerability*	IPEEE Report Proposed Resolution of Condition**	Actual Resolution of Condition	Resolution Date
2FT-AF011 2FT-AF012 2FT-AF013 2FT-AF014 2FT-AF015 2FT-AF016 2FT-AF017 2FT-AF018 Flow Transmitters	Flow transmitters adjacent to Recycle Monitor tanks (1&2AB02T) which are unanchored; thus they pose a potential flooding hazard to the transmitters on the adjacent nearby instrument rack.	N/A	Tank has been shown to maintain its integrity well beyond RLE demand level by CDFM capacity.	12/23/1996****
1AP21E Motor Control Center	Seismic interaction concern. Adjacent trash barrel (unanchored) may impact MCC during seismic event.	N/A	Trash barrel removed.	12/23/1996****
1CV112E 2CV112E Valves	Operator is in contact with adjacent pipe/grating which poses an impact hazard.	Evaluate clearance requirements and effect on valve and pipe system	Evaluations have determined that the affected piping systems and valve are adequate with the reduced clearance. Also, for 2CV112E the grating has been modified.	8/26/1998 6/11/1997
0CC01E Switchgear	Seismic interaction concerns with an adjacent flammables storage cabinet and personnel safety railing laydown (storage) area.	N/A	Flammable cabinet removed from immediate area and railings restrained to preclude potential impact.	12/23/1996****

Equipment ID	Description of Condition / Vulnerability*	IPEEE Report Proposed Resolution of Condition**	Actual Resolution of Condition	Resolution Date
1CV8152 Valve	Associated limit switch in direct contact with adjacent platform grating. Remainder of valve only has 1/8 inches of clearing.	N/A	Grating has been modified.	6/11/1997
1AP25E 2AP25E Motor Control Centers	Seismic interaction concern. Not tied (bolted) to adjacent MCC 1(2)AP44E and may impact MCC during seismic event.	N/A	Interactions were be evaluated on a case-by-case basis. Bolted adjacent MCCs together as required.	4/22/2004
1AP27E 2AP27E Motor Control Centers	Seismic interaction concern. Not tied (bolted) to adjacent MCC 1(2)AP47E and may impact MCC during seismic event.	N/A	Interaction were be evaluated on a case-by-case basis. Bolted adjacent MCCs together as required.	4/22/2004
1AP11E 1AP13E Transformers	"Shipping" bolts securing internal coils to frame are not tight (approximate 1/4-1/2" gap as nut is backed-off)	Bolts will be tightened during Refueling Outage B1R08	Bolts tightened during B1R08	Work Done in B1R08
1AP10E 2AP06E 2AP10E 2AP12E Switchgear	Seismic interaction concern. Adjacent, unanchored spare breaker(s) poses an interaction hazard.	Breakers will be located in designated area where no interaction hazard exists.	Seismic interaction issues were addressed.	10/15/1997
2AP32E Motor Control Centers	Seismic interaction concern. Adjacent, unanchored wash station poses an interaction hazard.	N/A	Item has been relocated so as not to pose an interaction risk	12/23/1996****

Equipment ID	Description of Condition / Vulnerability*	IPEEE Report Proposed Resolution of Condition**	Actual Resolution of Condition	Resolution Date
1AP32E Motor Control Centers	Heat trace control cabinet located in vicinity of MCC was found to be unanchored.	Heat trace cabinet has been welded to foundation pad.	Heat trace cabinet 1HT04J has been walked down and verified to be bolted to steel which is welded to the foundation pad and therefore will not fall and/or make contact with MCC-132X5. Also, drawing 6E-0-3391F confirms 1/8" thick 1.5" long @ 12" welds which meets the configuration.	01/10/2001
1DC01E Station Batteries	Overhead lights hung on chains with open S-hooks. Gaps exist between batteries and end support members.	N/A	1) S-hooks have been closed. 2) 2 Batteries are within ¼" gap criteria specified on vendor drawing.	12/23/1996****
1(2)DC03E 1(2)DC05E Battery Charger & Distribution Center Bus	Adjacent cabinets not bolted together.	Interaction will be evaluated on a case-by-case basis. Bolt adjacent cabinets together as required.	Evaluation has determined that consequences of relay chatter can be resolved by operator action. See NTS response.	10/10/2001
1IP05E 1IP07E 1IP06E 1IP08E Inverters	Interaction (impact) concern with adjacent filter duct box which is unsecured.	Duct box will be secured as part of pending modification scheduled for refueling outage B1R08.	Duct box was secured to fan cabinet during B1R08.	Work done in B1R08
1DC02E Station Batteries	Gaps exist between batteries and end support members.	N/A	Batteries are within 1/4" gap criteria specified on vendor drawing.	12/23/1996****

Equipment ID	Description of Condition / Vulnerability*	IPEEE Report Proposed Resolution of Condition**	Actual Resolution of Condition	Resolution Date
1(2)DC04E 1(2)DC06E Battery Charger & Distribution Center Bus	Adjacent cabinets not bolted together.	Interaction will be evaluated on a case-by-case basis. Bolt adjacent cabinets together as required.	Evaluation has determined that consequences of relay chatter can be resolved by operator action. See NTS response.	10/10/2001
1RD05E 2RD05E Reactor Trip Switchgear	Seismic interaction concern. Not tied (bolted) to adjacent 1(2)RD03E. May impact during seismic event	Interaction will be evaluated on a case-by-case basis. Bolt adjacent cabinets together as required.	Evaluation has determined that consequences of relay chatter can be resolved by operator action. See NTS response.	10/10/2001
1(2)AP92E 1(2)AP93E Motor Control Centers	1)Overhead lights hung on chains with open S-hooks. 2)Not tied (bolted) to adjacent MCC.	S-hooks have been closed. Interaction will be evaluated on a case-by-case basis. Bolt adjacent MCCs together as required.	S-hooks have been closed. Modification to connect cabinets together was approved by TRC/BRC. Breakers were relocated in designated areas where no interaction hazard exists.	4/22/2004

Equipment ID	Description of Condition / Vulnerability*	IPEEE Report Proposed Resolution of Condition**	Actual Resolution of Condition	Resolution Date
OPM01J OPM02J 1PM01J 1PM04J 1PM05J 1PM06J 1PM07J 1PM11J 1PM12J 2PM01J 2PM04J 2PM05J 2PM05J 2PM07J 2PM07J 2PM11J 2PM11J 2PM12J Main Control Panels	1) Unsecured aluminum diffusers in suspended ceiling pose a personnel hazard to operators if they are dislodged due to seismic motion. 2) Interaction concerns with items in control room in proximity of cabinets such as lockers, copiers, tables and filing cabinets.	1) Diffusers will be secured to support grid. 2) Several items have been removed from control room. Other items will be removed or relocated as required.	Analysis was performed which evaluated the MRC Eggcrate panels (ceiling diffusers) capability for withstanding a seismic event of a magnitude required by the IPEEE without an adverse effect. Conclusively the MRC ceiling diffusers are capable of withstanding a seismic event of a magnitude required by IPEEE without adverse effect.	6/16/2003

Equipment ID	Description of Condition / Vulnerability*	IPEEE Report Proposed Resolution of Condition**	Actual Resolution of Condition	Resolution Date
1(2)PA01J 1(2)PA02J 1(2)PA03J 1(2)PA04J 1(2)PA06J 1(2)PA07J 1(2)PA08J 1(2)PA10J 1(2)PA11J 1(2)PA12J 1(2)PA13J 1(2)PA14J 1(2)PA27J 1(2)PA28J 1(2)PA33J 1(2)PA34J 1(2)PA34J 1(2)PA51J 1(2)PA01J 1PA52J Auxiliary Panels	1) Adjacent cabinets not bolted together. 2) Also have instrument cart (or wooden table) in proximity of cabinet.	1) Interaction will be evaluated on a case-by-case basis. Bolt adjacent cabinets together as required. 2) IM equipment to be stored/secured away from cabinets when not in use.	Interactions were evaluated that addressed the loads for panels and concluded that they were acceptable when linked together. Vendor (S&A) walkdown confirmed these cabinets to be linked together. IM equipment was stored away from cabinets when not in use.	1/21/2000
2IP06E 2IP08E Inverters	Interaction (impact) concern with adjacent fire extinguisher (A-8-27) which has an open (unsecured) retaining bracket.	N/A	Fire extinguisher brackets secured.	***

Equipment ID	Description of Condition / Vulnerability*	IPEEE Report Proposed Resolution of Condition**	Actual Resolution of Condition	Resolution Date
1(2)AP98E 1(2)AP99E Switchgear	Overhead lights hung on chains with open S-hooks.	N/A	S-hooks have been closed	12/23/1996****
2AP98E	One "shipping" bolt securing internal coils to frame is not tight (approximate 1/4" gap as nut is backed-off)	Bolts will be tightened during B2R07.	Bolts were tightened during B2R07.	Work done in B2R07

^{*} IPEEE "Vulnerability" = Vulnerability, Outlier, Anomaly, Enhancement, Finding, etc.

** If this is different than the original planned, else N/A.

***Field walkdown performed and confirmed bracket was acceptable.

****Per Letter BY: 96-0323, "Transmittal of Byron Station Individual Plant Examination of External Events Submittal Report" dated December 23, 1996.