Salamia Malkdaum Chasklist (SMC)	Status: Y N U
Seismic Walkdown Checklist (SWC)	
Equipment ID No.: 0VC15J	
Equipment Class: (20) Instrumentation and Control Panels and Cabinets	
Equipment Description: MCR U-1 HVAC START PNL	
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 e 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 com	of judgments and
Anchorage	
<ol> <li>Is anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?</li> </ol>	No
2. Is the anchorage free of bent, broken, missing or loose hardware?	Yes
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	Yes
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Yes
<ol> <li>Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)</li> </ol>	Not Applicable
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	Yes

Seismic Walkdow	n Checklist (SWC)	YNU
	nent ID No.: 0VC15J	
	nent Class: (20) Instrumentation and Control Panels and Cabinets	
	Description: MCR U-1 HVAC START PNL	
Interaction Effect		
7. Are soft ta	rgets free from impact by nearby equipment or structures?	Yes
masonry b	ead equipment, distribution systems, ceiling tiles and lighting, and lock walls not likely to collapse onto the equipment? walls are seismic and would not collapse on equipment	Yes
9. Do attache	ed lines have adequate flexibility to avoid damage?	Yes
	the above seismic interaction evaluations, is equipment free of adverse seismic interaction effects?	Yes
Other Adverse Co	onditions	
11. Have you	ooked for and found no adverse seismic conditions that could affect the safety functions of the equipment?	Yes
Comments		
Evaluated by:	Marlene Delaney Date: 10/5/2012 C.U. Mark Philip Gazda 10/5/2012	
	Philip Gazda 10/5/2012	

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Seismic Walkdown Checklist	(SWC)	Status: Y N U
Equipment ID No.:	0VC15J	
Equipment Class:	(20) Instrumentation and Control Panels and Cabinets	
Equipment Description:	MCR U-1 HVAC START PNL	



Status: Y	]N U
Seismic Walkdown Checklist (SWC)	
Equipment ID No.: 0WO01CB	
Equipment Class: (11) Chillers	
Equipment Description: 0B MCR CHLR	
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 SWEL. The space below each of the following questions may be used to record the results of judgments findings. Additional space is provided at the end of this checklist for documenting other comments.	
Anchorage	
<ol> <li>Is anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?</li> </ol>	Yes
2. Is the anchorage free of bent, broken, missing or loose hardware?	Yes
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	Yes
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Yes
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-1214 Sheet 3 Revision W	Yes
<ul> <li>Indication of cracks in grout pad. Anchor embedded in concrete so cracks are cosmetic. Not a structural/seismic issue. IR 1402735 written</li> <li>6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?</li> </ul>	Yes

		Status: Y N U
Seismic Walkdown Checklist	(SWC)	
Equipment ID No.:	0WO01CB	
Equipment Class:	(11) Chillers	
Equipment Description:	0B MCR CHLR	
Interaction Effects		
7. Are soft targets free fro	m impact by nearby equipment or structures?	Yes
	nt, distribution systems, ceiling tiles and lighting, and	Yes
•	It likely to collapse onto the equipment? Smic and would not collapse on equipment	
9. Do attached lines have	adequate flexibility to avoid damage?	Yes
	ismic interaction evaluations, is equipment free of	Yes
potentially adverse sets	smic interaction effects?	
Other Adverse Conditions	and a second	*******
-	d found no adverse seismic conditions that could	Yes
adversely affect the sat	fety functions of the equipment?	

#### **Comments**

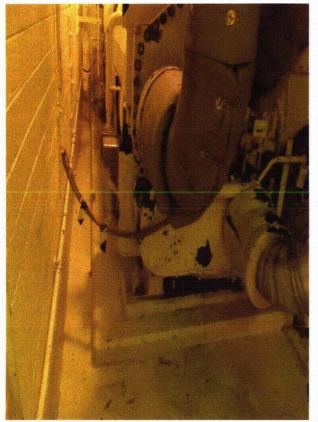
Seismic walkdown team M. Delaney & P. Gazda 8/20/12 pm

Evaluated by:	Mailere M Su	lung	<b>x</b> Marlene Delaney	Date:	10/5/2012	
	C.C. Mych	Philip G	Gazda	_	10/5/2012	

Status: Y N U

#### Seismic Walkdown Checklist (SWC)

Equipment ID No.:	0WO01CB		
Equipment Class:	(11) Chillers		
Equipment Description:	0B MCR CHLR		



0WO01CB Byron 1 & 2 8-20-12 079

# Status: Y N U Seismic Walkdown Checklist (SWC) Equipment ID No.: 0WW019A Equipment Class: (7) Fluid-Operated Valves Equipment Description: ASSY - AOV 0B DEEP WELL PP 0WW01PB TO 0A SXCT LCV Project: Byron 1 SWEL Location (Bldg, Elev, Room/Area): ESWCT, 874.00 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)? 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 guestion 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?

Seismic Walkdown Checklis	t (SWC)	Status: Y N U
Equipment ID No.:	0WW019A	
	(7) Fluid-Operated Valves	
Equipment Description:	ASSY - AOV 0B DEEP WELL PP 0WW01PB TO 0A SXCT	LCV
Interaction Effects		
7. 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. Do attached lines have	e adequate flexibility to avoid damage?	Yes
	eismic interaction evaluations, is equipment free of smic interaction effects?	Yes
Other Adverse Conditions		
11. Have you looked for a	nd found no adverse seismic conditions that could fety functions of the equipment? <i>issues</i>	Yes
Comments		
Seismic walkdown team M. De	laney & P. Gazda 8/7/12 am	

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Evaluated by:	Marlene Marlene Delaney	Date:	10/5/2012
	C. C. Mych Philip Gazda		10/5/2012

C-63

Status: Y N U

### Seismic Walkdown Checklist (SWC)

Equipment ID No.:	0WW019A	
Equipment Class:	(7) Fluid-Operated Valves	
Equipment Description:	ASSY - AOV 0B DEEP WELL PP 0WW01PB TO 0A SXCT LCV	



Status: Y N U Seismic Walkdown Checklist (SWC) Equipment ID No.: 1AF005E Equipment Class: (7) Fluid-Operated Valves Equipment Description: S/G 1A FLOW CONT VLV ASMBLY; 4" 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)? 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.) Based on the above anchorage evaluations, is the anchorage free of Yes 6. potentially adverse seismic conditions?

			Status: Y N U
Seism	ic Walkdown Checklist	(SWC)	
	Equipment ID No.:	1AF005E	
	Equipment Class:	(7) Fluid-Operated Valves	
	Equipment Description:	S/G 1A FLOW CONT VLV ASMBLY; 4"	
Intera	ction Effects		
7.	Are soft targets free fro	m impact by nearby equipment or structures?	Yes
		alve 1AF005E diaphragm enclosure and adjacent Valve arge and not an issue (~3/4" horizontal and 1 1/2"	
8.		nt, distribution systems, ceiling tiles and lighting, and t likely to collapse onto the equipment?	Yes
9.	Do attached lines have	adequate flexibility to avoid damage?	Yes
10.		ismic interaction evaluations, is equipment free of	Yes
	potentially adverse sets	mic interaction effects?	
Other	Adverse Conditions		
11.	•	d found no adverse seismic conditions that could ety functions of the equipment?	Yes

### **Comments**

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Seismic walkdown team M. Delaney & P. Gazda 8-10-12 am

Production de la com	Mailere M Su	ling			10/5/00 40
Evaluated by:		میں میں اور	Marlene Delaney	_ Date:	10/5/2012
	C.U. Shych	Philip G	azda	_	10/5/2012

Status: Y N U

## Seismic Walkdown Checklist (SWC)

Equipment ID No.:	1AF005E
Equipment Class:	(7) Fluid-Operated Valves
Equipment Description:	S/G 1A FLOW CONT VLV ASMBLY; 4"



1AF005E Byron 1 & 2 8-10-12 001



1AF005E Byron 1 & 2 8-10-12 002

Status: Y N U

#### Seismic Walkdown Checklist (SWC)

Equipment ID No.:	1AF005E
Equipment Class:	(7) Fluid-Operated Valves
Equipment Description:	S/G 1A FLOW CONT VLV ASMBLY; 4"



1AF005E Byron 1 & 2 8-10-12 003

Status:	Υ	N	U
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## Seismic Walkdown Checklist (SWC)

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	Equipment ID No.:	1AF006B	
	Equipment Class:	(8) Motor-Operated and Solenoid-Operated Valves	
 l	Equipment Description:	AUXILIARY FEEDWATER PMP 1B SX SUCT VLV ASMI	BLY; 6"
	Proje	ect: Byron 1 SWEL	
Locatio	n (Bldg, Elev, Room/Are	a): Auxiliary, 383.00 ft, ALL	
	Manufacturer/Mod	lel:	
Instruc	tions for Completing C	Checklist	
SWEL.	The space below each	ocument the results of the Seismic Walkdown of an item o of the following questions may be used to record the resul ovided at the end of this checklist for documenting other co	ts of judgments and
 Ancho	rage		
1.	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	f visible cracks in the concrete near the anchors?	Not Applicable
5.		uration consistent with plant documentation? (Note: ies if the item is one of the 50% for which an anchorage n is required.)	Not Applicable
6.	Based on the above an potentially adverse seis	chorage evaluations, is the anchorage free of mic conditions?	Yes

Seismic Walkdown Checklist (SWC)	Status: Y N U
Equipment ID No.: 1AF006B	
Equipment Class: (8) Motor-Operated and Solenoid-Operated Valves	
Equipment Description: AUXILIARY FEEDWATER PMP 1B SX SUCT VLV	ASMBLY; 6"
Interaction Effects	
7. Are soft targets free from impact by nearby equipment or structures?	Yes
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	Yes
9. Do attached lines have adequate flexibility to avoid damage?	Yes
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	Yes
Other Adverse Conditions	
11. Have you looked for and found no adverse seismic conditions that could adversely affect the safety functions of the equipment? No structural/seismic issues	Yes

## **Comments**

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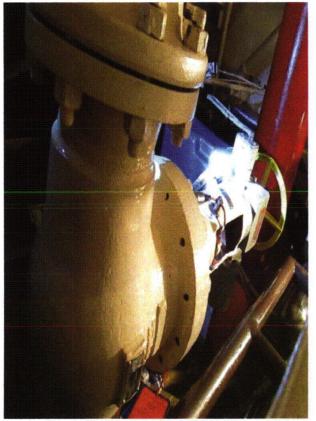
Seismic walkdown team 8/20/12 am M. Delaney & P. Gazda

Evaluated by:	Marlene Delaney	Date:	10/5/2012	
	C.U. Mych Philip Gazda		10/5/2012	_

Status: Y N U

## Seismic Walkdown Checklist (SWC)

Equipment ID No.:	1AF006B
Equipment Class:	(8) Motor-Operated and Solenoid-Operated Valves
Equipment Description:	AUXILIARY FEEDWATER PMP 1B SX SUCT VLV ASMBLY; 6"



1AF006B Byron 1 & 2 8-20-12 021

Seismic Walkdown Checklist (SWC)	Status: Y N U
Equipment ID No.: <u>1AF017B</u>	
Equipment Class: (8) Motor-Operated and Solenoid-Operated Valves	
Equipment Description: AUXILIARY FEEDWATER PMP 1B SX SUCT VLV ASMBLY	r; 6"
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 er 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 comm	of judgments and
Anchorage	Nia
<ol> <li>Is anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?</li> </ol>	No
2. Is the anchorage free of bent, broken, missing or loose hardware?	Not Applicable
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	Not Applicable
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Not Applicable
<ol> <li>Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)</li> </ol>	Not Applicable
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	Yes

Seismic Walkdown Checklis	st (SWC)	Status: Y N U
Equipment ID No.	1AF017B	
Equipment Class	(8) Motor-Operated and Solenoid-Operated Valves	
Equipment Description	AUXILIARY FEEDWATER PMP 1B SX SUCT VLV ASMBL	Y; 6"
Interaction Effects 7. Are soft targets free f	rom impact by nearby equipment or structures?	Yes
	ent, distribution systems, ceiling tiles and lighting, and not likely to collapse onto the equipment?	Yes
9. Do attached lines hav	e adequate flexibility to avoid damage?	Yes
	eismic interaction evaluations, is equipment free of ismic interaction effects?	Yes
Other Adverse Conditions		<b></b>
11. Have you looked for a	and found no adverse seismic conditions that could afety functions of the equipment?	Yes
Comments		·····
Seismic walkdown team 8/20/	12 am M Delaney & P Gazda	
Evaluated by:	. In che	/5/2012 /5/2012

Status: Y N U

### Seismic Walkdown Checklist (SWC)

Equipment ID No.:	1AF017B
Equipment Class:	(8) Motor-Operated and Solenoid-Operated Valves
Equipment Description:	AUXILIARY FEEDWATER PMP 1B SX SUCT VLV ASMBLY; 6"



1AF017B Byron 1 & 2 8-20-12 023

	Status: Y N U	
Seismic Walkdown Checklist (SWC)		
Equipment ID No.: 1AF01EA-1		
Equipment Class: (16) Battery Chargers and Inverters		
Equipment Description: AF PUMP 1B BATTERY CHARGER		
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		
<ol> <li>Is anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?</li> </ol>	No	
2. Is the anchorage free of bent, broken, missing or loose hardware?	Yes	
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	Yes	
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Yes	
<ol> <li>Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)</li> </ol>	Not Applicable	
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	Yes	

Seismic Walkdown Checklist (SWC)	Status: Y N U
Equipment ID No.: 1AF01EA-1	
Equipment Class: (16) Battery Chargers and Inverters	
Equipment Description: AF PUMP 1B BATTERY CHARGER	
Interaction Effects	
7. Are soft targets free from impact by nearby equipment or structures?	Yes
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	Yes
9. Do attached lines have adequate flexibility to avoid damage?	Yes
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	Yes
Other Adverse Conditions	
11. Have you looked for and found no adverse seismic conditions that could adversely affect the safety functions of the equipment? <i>No structural/seismic issues</i>	Yes

## **Comments**

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Seismic walkdown team M. Delaney & P. Gazda 8/20/12 am

Evaluated by:	Mailere M Sel	t	Marlene Delaney	Date:	10/5/2012
	C.U. Mych	Philip G	azda	_	10/5/2012

Status: Y N U

## Seismic Walkdown Checklist (SWC)

Equipment ID No .:	1AF01EA-1
Equipment Class:	(16) Battery Chargers and Inverters
Equipment Description:	AF PUMP 1B BATTERY CHARGER



1AF01EA-1 Byron 1 & 2 8-20-12 028

Status	YNU
Seismic Walkdown Checklist (SWC)	
Equipment ID No.: 1AF01EB-A	
Equipment Class: (15) Batteries on Racks	<u> </u>
Equipment Description: AF BATTERY Bank B BATT A AUXILIARY FEEDWATER PUMP 1	В
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 equipme SWEL. The space below each of the following questions may be used to record the results of judgn findings. Additional space is provided at the end of this checklist for documenting other comments.	
Anchorage	
<ol> <li>Is anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?</li> </ol>	Yes
2. Is the anchorage free of bent, broken, missing or loose hardware?	Yes
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	Yes
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Yes
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-0-3391H Revision AH Note that the drawing specifies 2 details and the anchorage is per Detail 150 and Section A-A (8 bolt detail)	Yes
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	Yes

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Seism	ic Walkdown Checklist (SWC)	Status: Y N U
	Equipment ID No.: 1AF01EB-A	
	Equipment Class: (15) Batteries on Racks	
	Equipment Description: AF BATTERY Bank B BATT A AUXILIARY FEEDWATER	
	tion Effects	
-	Are soft targets free from impact by nearby equipment or structures?	Yes
8.	Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	Yes
9.	Do attached lines have adequate flexibility to avoid damage?	Yes
10.	Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	Yes
Other	Adverse Conditions	
	Have you looked for and found no adverse seismic conditions that could adversely affect the safety functions of the equipment?	Yes
<u>Comm</u> Seismi	<u>ents</u> c walkdown team M. Delaney & P. Gazda 8/20/12 am	· · ·
Evalua	C. a. Mache	10/5/2012

C-79

Status:	1 1/	
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olalus.		

#### Seismic Walkdown Checklist (SWC)

Equipment ID No .:	1AF01EB-A
Equipment Class:	(15) Batteries on Racks
Equipment Description:	AF BATTERY Bank B BATT A AUXILIARY FEEDWATER PUMP 1B



1AF01EB-A Byron 1 & 2 8-20-12 029



1AF01EB-A Byron 1 & 2 8-20-12 030

Status: Y N	J
Seismic Walkdown Checklist (SWC)	
Equipment ID No.: 1AF01PB	_
Equipment Class: (5) Horizontal Pumps	_
Equipment Description: DIESEL DRIVEN AUX FEED PUMP 1B_ASMBLY	
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	
<ol> <li>Is anchorage configuration verification required (i.e., is the item one of the 50% Yes of SWEL items requiring such verification)?</li> </ol>	
2. Is the anchorage free of bent, broken, missing or loose hardware? Yes	
3. Is the anchorage free of corrosion that is more than mild surface oxidation? Yes	i.
4. Is the anchorage free of visible cracks in the concrete near the anchors? Yes	
<ol> <li>Is the anchorage configuration consistent with plant documentation? (Note: Yes This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) Drawing M-1221 Sheet 2 Revision AD</li> </ol>	
6. Based on the above anchorage evaluations, is the anchorage free of Yes potentially adverse seismic conditions?	

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Seismic Walkdown Checklis	t (SWC)	Status: Y N U
Equipment ID No.:	1AF01PB	
	(5) Horizontal Pumps	
• •	DIESEL DRIVEN AUX FEED PUMP 1B_ASMBLY	
Interaction Effects	······································	
7. Are soft targets free fre	om impact by nearby equipment or structures?	Yes
Sight glass is well-su	oported and protected	
masonry block walls n	ent, distribution systems, ceiling tiles and lighting, and ot likely to collapse onto the equipment? <i>ismic and would not collapse on equipment</i>	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 a	nd found no adverse seismic conditions that could fety functions of the equipment?	Yes
<u>Comments</u> Seismic walkdown team M. De	laney & P. Gazda 8/20/12 am	

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Evoluted by:	Marlene M Selary Martene Delaney	Date:	10/5/2012
Evaluated by:			10/3/2012
	C.U. Mych Philip Gazda		10/5/2012

C-82

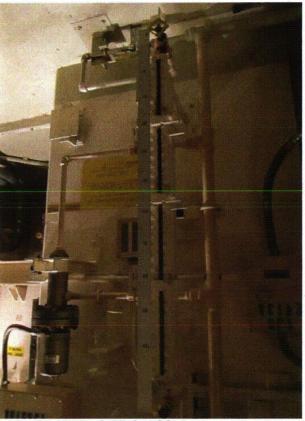
Status: Y N U

#### Seismic Walkdown Checklist (SWC)

Equipment ID No .:	1AF01PB
Equipment Class:	(5) Horizontal Pumps
Equipment Description:	DIESEL DRIVEN AUX FEED PUMP 1B_ASMBLY



1AF01PB (AWB - SITE GLASS) Byron 1 & 2 8-20-12 035



1AF01PB (AWB- SITE GLASS) Byron 1 & 2 8-20-12 036

Status: Y N U

## Seismic Walkdown Checklist (SWC)

Equipment ID No .:	1AF01PB
Equipment Class:	(5) Horizontal Pumps
Equipment Description:	DIESEL DRIVEN AUX FEED PUMP 1B_ASMBLY



1AF01PB Byron 1 & 2 8-20-12 031



1AF01PB Byron 1 & 2 8-20-12 032

Seismic Walkd	own Checklist (SW	(C)	Statu	s: YNU
	ipment ID No.: 1AI			
	·	Fluid-Operated Valves		
-		PP SX RECIRC VLV_ASMBLY; 3"		
		Byron 1 SWEL		
Location (Bldg,	Elev, Room/Area):	Auxiliary, 383.00 ft, ALL		
Ma	anufacturer/Model:	·		
Instructions fo	r Completing Chec	klist	· · · · · · · · · · · · · · · · · · ·	
SWEL. The spa	ace below each of th	nent the results of the Seismic Walk e following questions may be used to ed at the end of this checklist for doc	o record the results of judg	ments and
Anchorage		· ·		
	brage configuration v L items requiring suc	verification required (i.e., is the item of the item of the item of the verification)?	one of the 50%	No
2. Is the a	nchorage free of ber	nt, broken, missing or loose hardware	϶? Ν	ot Applicable
3. Is the a	nchorage free of cor	rosion that is more than mild surface	oxidation? N	ot Applicable
4. Is the a	nchorage free of visi	ble cracks in the concrete near the a	nchors? N	ot Applicable
This qu		on consistent with plant documentat the item is one of the 50% for which equired.)	-	ot Applicable
	on the above anchor Ily adverse seismic	age evaluations, is the anchorage fre conditions?	e of	Yes

Seismic Walkdown Checklist (SWC)	Status: Y N U
Equipment ID No.: 1AF024	
Equipment Class: (7) Fluid-Operated Valves	<u> </u>
Equipment Description: AF PP SX RECIRC VLV_ASMBLY; 3"	
<ul> <li><u>Interaction Effects</u></li> <li>7. Are soft targets free from impact by nearby equipment or structures?</li> </ul>	Yes
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	Yes
9. Do attached lines have adequate flexibility to avoid damage?	Yes
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	Yes
Other Adverse Conditions 11. Have you looked for and found no adverse seismic conditions that could	Yes
adversely affect the safety functions of the equipment? No structural/seismic issues	
<u>Comments</u> Seismic walkdown team M. Delaney & P. Gazda 8-20-12 am	

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	Mailere M Sele	**		
Evaluated by:	· · · · · · · · · · · · · · · · · · ·	Marlene Delaney	Date:	10/5/2012
	C.U. Mych	Philip Gazda	_	10/5/2012

Status: Y N U

## Seismic Walkdown Checklist (SWC)

Equipment ID No.:	1AF024	
Equipment Class:	(7) Fluid-Operated Valves	
Equipment Description:	AF PP SX RECIRC VLV_ASMBLY; 3"	



1AF024 Byron 1 & 2 8-20-12 034

## Status: Y N U Seismic Walkdown Checklist (SWC) Equipment ID No.: 1AP06E Equipment Class: (3) Medium Voltage Switchgear Equipment Description: 4160 VOLT ESF SWITCH BUS 142 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 3. Is the anchorage free of corrosion that is more than mild surface oxidation? Yes 4. Is the anchorage free of visible cracks in the concrete near the anchors? Yes Minor shrinkage cracking in floor judged to be acceptable. 5. Is the anchorage configuration consistent with plant documentation? (Note: Yes This guestion only applies if the item is one of the 50% for which an anchorage configuration verification is required.) Anchorage shown on drawing 6E-0-3391C, Rev. BE.

			Status: Y N U
Seismi	ic Walkdown Checklist	(SWC)	
		1AP06E	
	Equipment Class:	(3) Medium Voltage Switchgear	·
		4160 VOLT ESF SWITCH BUS 142	·
6.	Based on the above an potentially adverse seis	chorage evaluations, is the anchorage free of	Yes
	• •	ont doors were opened. All front anchorages were	
	-	rere opened except for 5 cubicles due to electrical horages for the 14 opened cubicles were observed.	
	The middle anchorages	at 5 cubicles were observed.	
	Remaining anchorages	could not be viewed due to electrical limitations.	
	- ·	tched documentation, therefore it is reasonable to	
	further verification.	served anchorages match plant documentation without	
Interac	tion Effects		·····
7.	Are soft targets free fro	m impact by nearby equipment or structures?	. Yes
•		·	
8.		nt, distribution systems, ceiling tiles and lighting, and t likely to collapse onto the equipment?	Yes
9.	Do attached lines have	adequate flexibility to avoid damage?	Yes
		,	
10.		ismic interaction evaluations, is equipment free of mic interaction effects?	Yes
		· · ·	
		· · · · · · · · · · · · · · · · · · ·	

Saiamia Walkday	m Cheeklist	(6)((0))		Status:	YNU
Seismic Walkdow	nent ID No.:	. ,			
		(3) Medium Voltage Swi	itchgear		<u> </u>
		4160 VOLT ESF SWITC			
Other Adverse Co	•				
adversely All front o	affect the sat subicle doors	d found no adverse seisn ety functions of the equip were opened. All rear ba rse conditions were obse	ment? ck panels except for 5 were		Yes
Comments IPEEE Anchorage	Notes:				
Panel is plug weld	ed to embed	led plate in floor.			,
**** Seismic Walkdowr	n Team: P. G	azda & J. Griffith - 9/22/2	012		
Evaluated by:	June o App	A James Griffith	Date	: 10/5/2012	
	G.U.	Mych Philip G	azda	10/5/2012	

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Status: Y N U

## Seismic Walkdown Checklist (SWC)

Equipment ID No.:	1AP06E	
Equipment Class:	(3) Medium Voltage Switchgear	
Equipment Description:	4160 VOLT ESF SWITCH BUS 142	



1AP06E Byron - de-energized Equip 9-22-12 001



1AP06E Byron - de-energized Equip 9-22-12 002

Byron Generating Station Unit 1 12Q0108.20-R-001 Rev. 1 Correspondence No.: RS-12-161 Sheet 5 of 9

Status: Y N U

# Seismic Walkdown Checklist (SWC)

ismic walkdown Checklist	. (5WC)
Equipment ID No.:	1AP06E
Equipment Class:	(3) Medium Voltage Switchgear
Equipment Description:	4160 VOLT ESF SWITCH BUS 142

1AP06E Byron - de-energized Equip 9-22-12 003

1AP06E Byron - de-energized Equip 9-22-12 004

Byron Generating Station Unit 1 12Q0108.20-R-001 Rev. 1 Correspondence No.: RS-12-161 Sheet 6 of 9

Status: Y N U

Equipment ID No.:	1AP06E
Equipment Class:	(3) Medium Voltage Switchgear
Equipment Description:	4160 VOLT ESF SWITCH BUS 142
AP06E Byron - de-energized B	

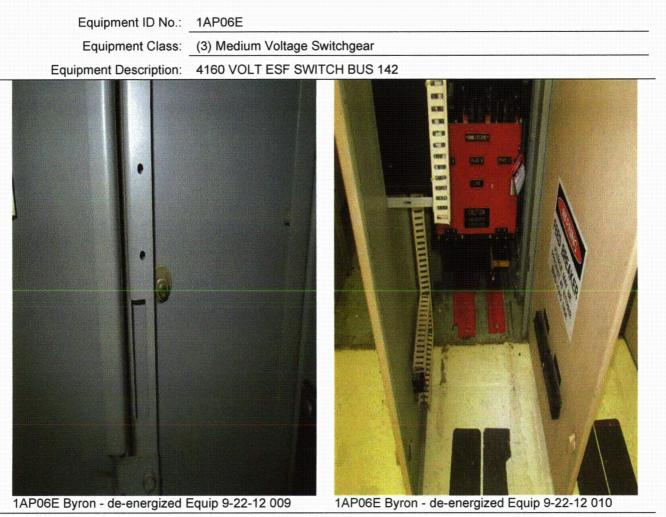
Byron Generating Station Unit 1 12Q0108.20-R-001 Rev. 1 Correspondence No.: RS-12-161 Sheet 7 of 9

Status: Y N U

Seismic Walkdown Checklist	(SWC)	
Equipment ID No.:	1AP06E	
Equipment Class:	(3) Medium Voltage Sw	itchgear
Equipment Description:	4160 VOLT ESF SWIT	CH BUS 142
1AP06E Byron - de-energized	=quip 9-22-12 007	1AP06E Byron - de-energized Equip 9-22-12 008

Byron Generating Station Unit 1 12Q0108.20-R-001 Rev. 1 Correspondence No.: RS-12-161 Sheet 8 of 9

Status: Y N U



Byron Generating Station Unit 1 12Q0108.20-R-001 Rev. 1 Correspondence No.: RS-12-161 Sheet 9 of 9

Status: Y N U

Equipment ID No .:	1AP06E
Equipment Class:	(3) Medium Voltage Switchgear
Equipment Description:	4160 VOLT ESF SWITCH BUS 142



1AP06E Byron - de-energized Equip 9-22-12 021



1AP06E Byron - de-energized Equip 9-22-12 022

	· · · · · · · · · · · · · · · · · · ·	Status: Y N U
Seismic Walkdown Checklis	t (SWC)	
Equipment ID No.:	1AP11E	
Equipment Class:	(4) Transformers	<u> </u>
Equipment Description:	EQ 480V ESF UNIT SUB 131X TRANSFORMER 1AP086	
Proj	ject: Byron 1 SWEL	
Location (Bldg, Elev, Room/Ar	ea): Auxiliary, 426.00 ft, ALL	<u></u>
Manufacturer/Mo	del:	
SWEL. The space below each findings. Additional space is p	Checklist document the results of the Seismic Walkdown of an item of ec n of the following questions may be used to record the results o rovided at the end of this checklist for documenting other comr	of judgments and
Anchorage		
<ol> <li>Is anchorage configura of SWEL items requiring</li> </ol>	ation verification required (i.e., is the item one of the 50% ng 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
This question only app configuration verification Drawing 6E-0-3391F	guration consistent with plant documentation? (Note: olies if the item is one of the 50% for which an anchorage on is required.) Revision AJ Detail 121 Is drawing requirements	Yes
<ol> <li>Based on the above a potentially adverse sei</li> </ol>	nchorage evaluations, is the anchorage free of smic conditions?	Yes

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		Status: Y N U
Seismi	ic Walkdown Checklist (SWC)	
	Equipment ID No.: 1AP11E	
	Equipment Class: (4) Transformers	
	Equipment Description: EQ 480V ESF UNIT SUB 131X TRANSFORMER 1AP086	
Interac	ction Effects	
7.	Are soft targets free from impact by nearby equipment or structures?	Yes
8.	Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	Yes
9.	Do attached lines have adequate flexibility to avoid damage?	Yes
, <b>10</b> .	Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	Yes
	Adverse Conditions	
11.	Have you looked for and found no adverse seismic conditions that could adversely affect the safety functions of the equipment? <i>Front panel bent due to equipment configuration and is not a</i> <i>structural/seismic concern</i> <i>Missing bolts (2) on panel cover - IR 1398659 written. Not a structural/seismic</i> <i>issue since adequate bolts in place</i>	Yes

Seismic walkdown team M. Delaney & P. Gazda 8/8/12 am

Seismic walkdow	n team M. Delaney & P. Gazda 8/8/12 am		
Evaluated by:	Marlene M Selesy Martene Delaney	Date:	10/5/2012
	C.U. Mych Philip Gazda		10/5/2012

Byron Generating Station Unit 1 12Q0108.20-R-001 Rev. 1 Correspondence No.: RS-12-161 Sheet 3 of 4

Status: Y N U

Equipment ID No.:	1AP11E
Equipment Class:	(4) Transformers
Equipment Description:	EQ 480V ESF UNIT SUB 131X TRANSFORMER 1AP086



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.: 1AP11E

Equipment Class: (4) Transformers

Equipment Description: EQ 480V ESF UNIT SUB 131X TRANSFORMER 1AP086



1AP11E Byron 1 & 2 8-8-12 034

# Status: Y N U Seismic Walkdown Checklist (SWC) Equipment ID No.: 1AP12E Equipment Class: (2) Low Voltage Switchgear Equipment Description: ASSY - 480V ESF SWGR 132X 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 1. Is anchorage configuration verification required (i.e., is the item one of the 50% Yes of SWEL items requiring such verification)? Yes Is the anchorage free of bent, broken, missing or loose hardware? 2. Yes 3. Is the anchorage free of corrosion that is more than mild surface oxidation? Yes 4. Is the anchorage free of visible cracks in the concrete near the anchors? Minor shrinkage cracking in floor judged to be acceptable. 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-0-3391C, Rev. BE.

Byron Generating Station Unit 1 12Q0108.20-R-001 Rev. 1 Correspondence No.: RS-12-161 Sheet 2 of 7

Seismi	ic Walkdown Checklist (SWC)	Status: Y N U
	Equipment ID No.: 1AP12E	
	Equipment Class: (2) Low Voltage Switchgear	
	Equipment Description: ASSY - 480V ESF SWGR 132X	
6.	Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? 5 total cubicles. All doors were opened. All rear anchorages were observed.	Yes
	All front anchorages were observed except for 2 cubicles due to electrical limitations.	
	The middle anchorages at 1 cubicle were observed.	
	Remaining anchorages could not be viewed due to electrical limitations. Anchorages viewed matched documentation, therefore it is reasonable to conclude that the unobserved anchorages match plant documentation without further verification.	·
Interac	ction Effects	,
7.	Are soft targets free from impact by nearby equipment or structures?	Yes
	Welded drain line in vicinity. Pipe movement toward switchgear prevented by pipe penetration (anchor) at masonry wall. Judged to be acceptable.	
8.	Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Open S-hooks addressed in IR 1398568. Lights are not directly over equipment so damage is unlikely and S-hooks are partially open - judged to be acceptable.	Yes
9.	Masonry walls are seismic and 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 potentially adverse seismic interaction effects?	Yes

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Seismic Walkdown Checklist	(SWC)		Status: 🍸	N U	
Equipment ID No.:	1AP12E				
Equipment Class:	(2) Low Voltage Switchgear				
Equipment Description:	ASSY - 480V ESF SWGR 132X				
Other Adverse Conditions					
adversely affect the sal	Id found no adverse seismic conditions that co fety functions of the equipment? In opened. No other adverse conditions were o			Yes	
Comments					
IPEEE Anchorage Notes:		÷.,			
Anchored by 4-1/2" plug welds per cubicle in front & 2 per cubicle in back.					
*****		a.			
Seismic Walkdown Team: P. Gazda & J. Griffith - 9/22/2012					
Evaluated by:	対 James Griffith	Date:	10/5/2012		
G.0.	Maych Philip Gazda		10/5/2012		
:			· ·		
· .					

Byron Generating Station Unit 1 12Q0108.20-R-001 Rev. 1 Correspondence No.: RS-12-161 Sheet 4 of 7

Status: Y N U

#### Seismic Walkdown Checklist (SWC)

Equipment ID No.:	1AP12E
Equipment Class:	(2) Low Voltage Switchgear
Equipment Description:	ASSY - 480V ESF SWGR 132X

# Photos



1AP12E Byron - de-energized Equip 9-22-12 011



1AP12E Byron - de-energized Equip 9-22-12 013

Byron Generating Station Unit 1 12Q0108.20-R-001 Rev. 1 Correspondence No.: RS-12-161 Sheet 5 of 7

Status: Y N U

#### Seismic Walkdown Checklist (SWC)

Equipment ID No .:	1AP12E			
Equipment Class:	(2) Low Voltage Switchgear			
Equipment Description:	ASSY - 480V ESF SWGR 132X			
Equipment Description:	A331 - 400V ESF SVUGR 132A	REAL PROPERTY AND INCOME.		•



1AP12E Byron - de-energized Equip 9-22-12 014

1AP12E Byron - de-energized Equip 9-22-12 015

Byron Generating Station Unit 1 12Q0108.20-R-001 Rev. 1 Correspondence No.: RS-12-161 Sheet 6 of 7

Status: Y N U

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Seismic Walkdown Checklist	(SWC)	
Equipment ID No.:	1AP12E	
Equipment Class:	(2) Low Voltage Switchgea	r
Equipment Description:	ASSY - 480V ESF SWGR	132X
1AP12E Byron - de-energized	Paulo 9-22-12 016	P12E Byron - de-energized Equip 9-22-12 017
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Byron Generating Station Unit 1 12Q0108.20-R-001 Rev. 1 Correspondence No.: RS-12-161 Sheet 7 of 7

Status: Y N U

Equipment ID No.:	1AP12E		
Equipment Class:	(2) Low Voltage Switchgear		
Equipment Description:	ASSY - 480V ESF SWGR 132X		



1AP12E Byron - de-energized Equip 9-22-12 018



1AP12E Byron - de-energized Equip 9-22-12 019



Seismic Walkdown Checklist (SWC)

Equipment ID No.: 1AP13E

Status: Y N U

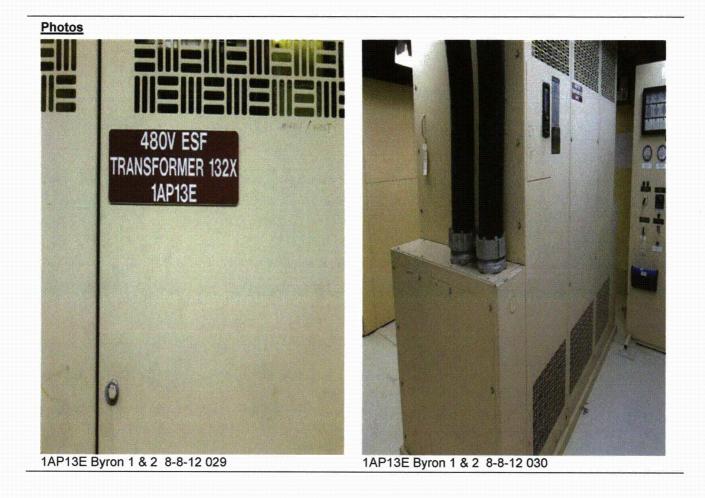
Equipment Class: (4) Transformers	
Equipment Description: 480V ESF UNIT SUBSTA 132X XFMR	
Project: Byron 1 SWEL	
Location (Bldg, Elev, Room/Area): Auxiliary, 426.00 ft, ALL	
Manufacturer/Model:	<u> </u>
Instructions for Completing Checklist	
This checklist may be used to document the results of the Seismic Walkdown of an item of equipment on SWEL. The space below each of the following questions may be used to record the results of judgments findings. Additional space is provided at the end of this checklist for documenting other comments.	
Anchorage	
<ol> <li>Is anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?</li> </ol>	Yes
2. Is the anchorage free of bent, broken, missing or loose hardware?	Yes
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	Yes
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Yes
<ul> <li>Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) Drawing 6E-0-3391F Revision AJ</li> <li>Weld exceeds drawing requirements</li> </ul>	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

Seismi	c Walkdown Checklist	(SWC)			Status: Y	<b>_</b> N l
	Equipment ID No.:	1AP13E				
	Equipment Class:	(4) Transformers				
E	Equipment Description:	480V ESF UNIT SUE	3STA 132X XFMR			
	tion Effects					
7.	Are soft targets free fro	m impact by nearby e	quipment or structures?			Yes
				. ·		
					, • •	
8.		-	s, ceiling tiles and lightin	g, and	<b>.</b> .	Yes
	masonry block walls no	t likely to collapse onto	o the equipment?		,	
9.	Do attached lines have	adequate flexibility to	avoid damage?	·		Yes
		• •				
10.			ations, is equipment free	e of		Yes
	potentially adverse seis	imic interaction effects	7			
				<u> </u>		
	Adverse Conditions					
11.	Have you looked for an adversely affect the sat		eismic conditions that co	uld		Yes
	adversely anect the sal	ety functions of the eq	upment?			
	, ···					
Comme	ents	·······		,		
Seismic	walkdown team M. Del	aney & P. Gazda 8/8/′	12 am			
	M. A.					
	1 pieces	L M Selary	-			
	``	· d	7			
		$\cup$	Marlene Delaney	Date:	10/5/2012	
Evaluat	ea by:					
Evaluat	G.U.	1. 1		•		

Byron Generating Station Unit 1 12Q0108.20-R-001 Rev. 1 Correspondence No.: RS-12-161 Sheet 3 of 4

Seismic Walkdown Checklist	(SWC)	Status: Y N U
Equipment ID No.:	1AP13E	
Equipment Class:	(4) Transformers	
Equipment Description:	480V ESF UNIT SUBSTA 132X XFMR	
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Byron Generating Station Unit 1 12Q0108.20-R-001 Rev. 1 Correspondence No.: RS-12-161 Sheet 4 of 4

Status: Y N U

Equipment ID No.:	1AP13E		
Equipment Class:	(4) Transformers		
Equipment Description:	480V ESF UNIT SUBSTA 132X XFMR		



1AP13E Byron 1 & 2 8-8-12 031

# Status: Y N U

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# Seismic Walkdown Checklist (SWC)

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Equipment ID No.:	1AP21E	
Equipment Class:	(1) Motor Control Centers	
Equipment Description:	480V AUX BLDG ESF MCC 131X1	
Proj	ect: Byron 1 SWEL	
Location (Bldg, Elev, Room/Are	ea): Auxiliary, 364.00 ft, ALL	
Manufacturer/Mo	del:	
SWEL. The space below each	Checklist document the results of the Seismic Walkdown of an item of equipn of the following questions may be used to record the results of jud rovided at the end of this checklist for documenting other comment	gments and
Anchorage 1. Is anchorage configura of SWEL items requirir	ition verification required (i.e., is the item one of the 50% ng such verification)?	Yes
2. Is the anchorage free of	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
This question only app configuration verification Drawing 6E-0-3391C		Yes
<ol><li>Based on the above ar potentially adverse sei</li></ol>	nchorage evaluations, is the anchorage free of smic conditions?	Yes

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

				Status:	YNU
Seismic Wa	lkdown Checklist	(SWC)			
Ę	Equipment ID No.:	1AP21E			
	Equipment Class:	(1) Motor Control Centers			
Equip	ment Description:	480V AUX BLDG ESF MC	C 131X1		
Interaction	Effects				
7. Are	soft targets free from	n impact by nearby equipmen	t or structures?		Yes
secu	• •	ing lead blankets is near cabir all into the cabinet in accordar			
mas	onry block walls no	t, distribution systems, ceiling likely to collapse onto the equ mic and would not collapse of	uipment?		Yes
9. Do a	attached lines have	adequate flexibility to avoid da	image?	·	Yes
		smic interaction evaluations, is nic interaction effects?	s equipment free of		No
					• .
Other Adve	rse Conditions				
	•	found no adverse seismic co ety functions of the equipment			Yes

# <u>Comments</u>

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Seismic walkdown team M. Delaney & P. Gazda 8/8/12 pm

·	Mailine M Se	lany				
Evaluated by:		$\smile$	Marlene Delaney	Date:	10/5/2012	
	C.a. Mych	Philip (	Gazda		10/5/2012	

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

Status:	V	N	11
Status.	1	14	U

#### Seismic Walkdown Checklist (SWC)

Equipment ID No.:	1AP21E		
Equipment Class:	(1) Motor Control Center	S	
Equipment Description:	480V AUX BLDG ESF	MCC 131X1	

**Photos** 



1AP21E Byron 1 & 2 8-8-12 038



1AP21E Byron 1 & 2 8-8-12 039

Status:	Y	N	U

<b>~</b> · · · · ·	/	ecklist (SWC)

Equipment ID No.:	1AP22E	
Equipment Class:	(1) Motor Control Centers	
Equipment Description:	480V AUX BLDG ESF MCC 131X3 ASMBLY	
Projec	t: Byron 1 SWEL	
Location (Bldg, Elev, Room/Area	): Auxiliary, 383.00 ft, ALL	
Manufacturer/Mode		
Instructions for Completing Ch	necklist	
SWEL. The space below each o	cument the results of the Seismic Walkdown of an item of equip of the following questions may be used to record the results of jud vided at the end of this checklist for documenting other comment	dgments and
Anchorage		
<ol> <li>Is anchorage configuration of SWEL items requiring</li> </ol>	on verification required (i.e., is the item one of the 50% 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
	levision BE	Yes
<ol> <li>Based on the above ancl potentially adverse seism</li> </ol>	horage evaluations, is the anchorage free of nic conditions?	Yes

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

Seism	ic Walkdown Checklist	(SWC)	Status: Y N U
	Equipment ID No.:	1AP22E	
	Equipment Class:	(1) Motor Control Centers	
	Equipment Description:	480V AUX BLDG ESF MCC 131X3 ASMBLY	
<u>Intera</u>	ction Effects		
7.	Are soft targets free fro	m impact by nearby equipment or structures?	Yes
8.	masonry block walls no	nt, distribution systems, ceiling tiles and lighting, and t likely to collapse onto the equipment? smic and would not collapse on equipment	Yes
9.	Do attached lines have	adequate flexibility to avoid damage?	Yes
10.		ismic interaction evaluations, is equipment free of mic interaction effects?	Yes
<u>Other</u>	Adverse Conditions		, <u>, ,</u>
11.	•	d found no adverse seismic conditions that could ety functions of the equipment?	Yes

## **Comments**

Seismic walkdown team M. Delaney & P. Gazda 8/20/12 pm

Evaluated by:	Marlere M Selary	Marlene Delaney	Date:	10/5/2012
	C.C. Mych Phil	lip Gazda		10/5/2012

Byron Generating Station Unit 1 12Q0108.20-R-001 Rev. 1 Correspondence No.: RS-12-161 Sheet 3 of 4

Status: Y N U

#### Seismic Walkdown Checklist (SWC)

Equipment ID No.:	1AP22E
Equipment Class:	(1) Motor Control Centers
Equipment Description:	480V AUX BLDG ESF MCC 131X3 ASMBLY

**Photos** 



1AP22E Byron 1 & 2 8-20-12 043



1AP22E Byron 1 & 2 8-20-12 044

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

Status: Y N U

Equipment ID No.:	1AP22E	
Equipment Class:	(1) Motor Control Centers	
Equipment Description:	480V AUX BLDG ESF MCC 131X3 ASMBLY	



1AP22E Byron 1 & 2 8-20-12 045

Seismic Walkdown Checklist (SWC		atus: YNU
Equipment ID No.: 1AP2		
Equipment Class: (1) N		
Equipment Description: EQ 4	80 V AUX BLDG ESF MCC 132X3 ASMBLY	
Project: _E	Byron 1 SWEL	
Location (Bldg, Elev, Room/Area):	Auxiliary, 383.00 ft, ALL	
Manufacturer/Model:		<u></u>
SWEL. The space below each of the findings. Additional space is provided	list ent the results of the Seismic Walkdown of an item of equi following questions may be used to record the results of ju d at the end of this checklist for documenting other comme	udgments and
Anchorage		
<ol> <li>Is anchorage configuration ve of SWEL items requiring such</li> </ol>	erification required (i.e., is the item one of the 50% n verification)?	Yes
2. Is the anchorage free of bent,	, broken, missing or loose hardware?	Yes
3. Is the anchorage free of corro	osion that is more than mild surface oxidation?	Yes
4. Is the anchorage free of visib	le cracks in the concrete near the anchors?	Yes
	on BE	Yes
<ol> <li>Based on the above anchorage potentially adverse seismic componentially</li> </ol>	ge evaluations, is the anchorage free of onditions?	Yes

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Saismis Walkdown Chasklist		Status: Y N U
Seismic Walkdown Checklist		
Equipment ID No.:	······································	
Equipment Class:	(1) Motor Control Centers	•
Equipment Description:	EQ 480 V AUX BLDG ESF MCC 132X3 ASMBLY	
Interaction Effects		
7. 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. Do attached lines have	adequate flexibility to avoid damage?	Yes
	eismic interaction evaluations, is equipment free of	Yes
potentially adverse sel	smic interaction effects?	
		•
Other Adverse Conditions		
-	nd found no adverse seismic conditions that could	Yes
adversely affect the sa	fety functions of the equipment?	

#### **Comments**

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Seismic walkdown team 8/20/12 am M. Delaney & P. Gazda

Evaluated by:	Mailure M Su	lang	Marlene Delaney	Date:	10/5/2012	
	C.O. Mych	Philip G			10/5/2012	

Byron Generating Station Unit 1 12Q0108.20-R-001 Rev. 1 Correspondence No.: RS-12-161 Sheet 3 of 4

Status: Y N U

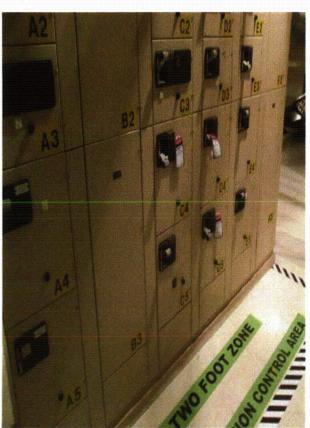
#### Seismic Walkdown Checklist (SWC)

Equipment ID No .:	1AP24E	_
Equipment Class:	(1) Motor Control Centers	
Equipment Description:	EQ 480 V AUX BLDG ESF MCC 132X3 ASMBLY	

Photos



1AP24E Byron 1 & 2 8-20-12 014



1AP24E Byron 1 & 2 8-20-12 015

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 .:	1AP24E
Equipment Class:	(1) Motor Control Centers
Equipment Description:	EQ 480 V AUX BLDG ESF MCC 132X3 ASMBLY
the second providence of the second	



1AP24E Byron 1 & 2 8-20-12 016

Status: Y N	U
Seismic Walkdown Checklist (SWC)	
Equipment ID No.: 1AP25E	
Equipment Class: (1) Motor Control Centers	
Equipment Description: ASSY - 480V AUX BLDG ESF MCC 131X2	
Project: Byron 1 SWEL	<u> </u>
Location (Bldg, Elev, Room/Area): Auxiliary, 414.00 ft, ALL	
Manufacturer/Model:	
Instructions for Completing Checklist	
This checklist may be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.	
Anchorage	
<ol> <li>Is anchorage configuration verification required (i.e., is the item one of the 50% Ye of SWEL items requiring such verification)?</li> </ol>	es
2. Is the anchorage free of bent, broken, missing or loose hardware?	es
3. Is the anchorage free of corrosion that is more than mild surface oxidation? Ye	es
4. Is the anchorage free of visible cracks in the concrete near the anchors? Ye	es
<ul> <li>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.)</li> <li>SEWS notes - Channel stitched to embeds at 2" at 12"</li> <li>Weld exceeds or equals specified weld</li> </ul>	es
<ol> <li>Based on the above anchorage evaluations, is the anchorage free of Yo potentially adverse seismic conditions?</li> </ol>	es

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Seismic Walkdown Checklis	t (SWC)	Status: Y N U
Equipment ID No.:	1AP25E	
Equipment Class:	(1) Motor Control Centers	
Equipment Description:	ASSY - 480V AUX BLDG ESF MCC 131X2	
Interaction Effects		
7. Are soft targets free fro	om impact by nearby equipment or structures?	Yes
Cabinet is bolted to a issues during a seismi	djacent cabinet 1AP44E to eliminate spatial interaction c event	
	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 smic interaction effects?	Yes
Other Adverse Conditions		
11. Have you looked for a	nd found no adverse seismic conditions that could afety functions of the equipment?	Yes

#### **Comments**

Seismic walkdown team M. Delaney & P. Gazda 8/20/12 am

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	Mailere M Selary
Evaluated by:	Marlene Delaney Date: 10/5/2012
	C.U. Mych Philip Gazda 10/5/2012

Byron Generating Station Unit 1 12Q0108.20-R-001 Rev. 1 Correspondence No.: RS-12-161 Sheet 3 of 4

Status: Y N U

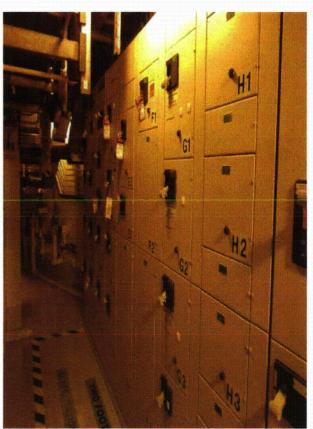
# Seismic Walkdown Checklist (SWC)

Equipment ID No .:	1AP25E	
Equipment Class:	(1) Motor Control Centers	
Equipment Description:	ASSY - 480V AUX BLDG ESF MCC 131X2	

#### **Photos**



1AP25E Byron 1 & 2 8-20-12 005



1AP25E Byron 1 & 2 8-20-12 006

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

Status:	Y	NU

# Seismic Walkdown Checklist (SWC)

Equipment ID No .:	1AP25E	
Equipment Class:	(1) Motor Control Centers	
Equipment Description:	ASSY - 480V AUX BLDG ESF MCC 131X2	



1AP25E Byron 1 & 2 8-20-12 007

Status: Y N U

Equipment ID No.: 1AP27E	
Equipment Class: (1) Motor Control Centers	
Equipment Description: EQ 480V AUX BLDG MCC 132X2 ASMBLY	
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 of 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.	
Anchorage	
<ol> <li>Is anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?</li> </ol>	Yes
2. Is the anchorage free of bent, broken, missing or loose hardware?	Yes
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	Yes
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Yes
<ol> <li>Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) Drawing 6E-0-3391C Revision BE Weld exceeds drawing requirements</li> </ol>	Yes
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	Yes

Seismic Walkdown Checklist (SWC)         Equipment ID No.:       1AP27E         Equipment Class:       (1) Motor Control Centers         Equipment Description:       EQ 480V AUX BLDG MCC 132X2 ASMBLY         Interaction Effects       7. Are soft targets free from impact by nearby equipment or structures?         Yes       Adjacent scaffold is well tied-off in accordance with Exelon Scaffolding         Procedure       Nearby cart is tied-off (restrained) in accordance with Byron Seismic
Equipment Class:       (1) Motor Control Centers         Equipment Description:       EQ 480V AUX BLDG MCC 132X2 ASMBLY         Interaction Effects       7. Are soft targets free from impact by nearby equipment or structures?         Yes       Adjacent scaffold is well tied-off in accordance with Exelon Scaffolding Procedure
Equipment Description:       EQ 480V AUX BLDG MCC 132X2 ASMBLY         Interaction Effects       7. Are soft targets free from impact by nearby equipment or structures?       Yes         Adjacent scaffold is well tied-off in accordance with Exelon Scaffolding Procedure       Procedure
Interaction Effects         7. Are soft targets free from impact by nearby equipment or structures?       Yes         Adjacent scaffold is well tied-off in accordance with Exelon Scaffolding       Procedure
7. Are soft targets free from impact by nearby equipment or structures?       Yes         Adjacent scaffold is well tied-off in accordance with Exelon Scaffolding       Procedure
Adjacent scaffold is well tied-off in accordance with Exelon Scaffolding Procedure
Procedure
Housekeeping Procedure
Cabinet is bolted to adjacent cabinet 1AP47E 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?
9. Do attached lines have adequate flexibility to avoid damage? Yes
10. Based on the above seismic interaction evaluations, is equipment free of 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?

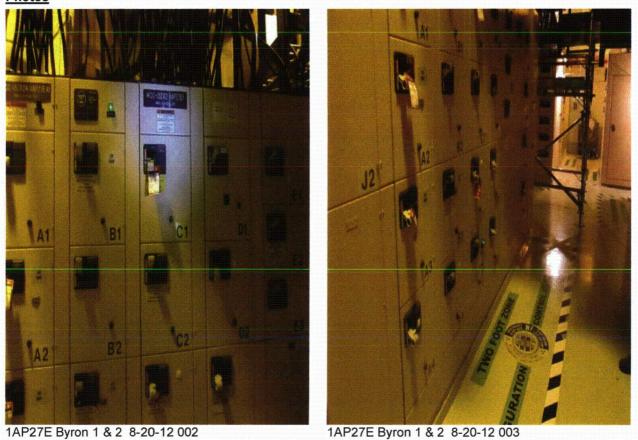
## **Comments**

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Seismic walkdown team 8/20/12 am M. Delaney & P. Gazda

Saiamia Walkdaum Chaaklia		Status: Y N U
Seismic Walkdown Checklist	(SWC)	
Equipment ID No.:	1AP27E	
Equipment Class:	(1) Motor Control Centers	
Equipment Description:	EQ 480V AUX BLDG MCC 132X2 ASMBLY	
Evaluated by:	Marlene Delaney Date	10/5/2012



Status: Y N U

#### Seismic Walkdown Checklist (SWC)

Equipment ID No .:	1AP27E	
Equipment Class:	(1) Motor Control Centers	
Equipment Description:	EQ 480V AUX BLDG MCC 132X2 ASMBLY	



1AP27E Byron 1 & 2 8-20-12 004

	Status: Y N U
Seismic Walkdown Checklist (SWC)	
Equipment ID No.: 1AP38E	
Equipment Class: (1) Motor Control Centers	
Equipment Description: ASSY - 480V AUX BLDG MCC 133X1A	· · · · · =
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 equ 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 comm	judgments and
Anchorage	
<ol> <li>Is anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?</li> </ol>	Yes
2. Is the anchorage free of bent, broken, missing or loose hardware?	Yes
<ul><li>3. Is the anchorage free of corrosion that is more than mild surface oxidation?</li><li>4. Is the anchorage free of visible cracks in the concrete near the anchors?</li></ul>	Yes
<ol> <li>Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) Drawing 6E-0-3391C Revision BE Weld exceeds or meets drawing requirements</li> </ol>	Yes
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	Yes

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Status: Y N U Seismic Walkdown Checklist (SWC) Equipment ID No.: 1AP38E Equipment Class: (1) Motor Control Centers Equipment Description: ASSY - 480V AUX BLDG MCC 133X1A Interaction Effects 7. Are soft targets free from impact by nearby equipment or structures? Yes A Radiation Protection cart is approximately 1" away from cabinet. IR 1399382 written to move cart. Adjacent lead blanket storage bin is bolted to the floor and would not interact with adjacent equipment 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** Have you looked for and found no adverse seismic conditions that could Yes 11. adversely affect the safety functions of the equipment? **Comments** Seismic walkdown team M. Delaney & P. Gazda 8/10/12 am . .

Evaluated by:	Mailure M Sel	Marlene Delaney	Date:	10/5/2012
	C.U. Mych	Philip Gazda		10/5/2012

Seismic Walkdown Checklist	(SWC)	Status: Y N U
Equipment ID No.:	1AP38E	
Equipment Class:	(1) Motor Control Centers	
Equipment Description:	ASSY - 480V AUX BLDG MCC 133X1A	



Status: Y N U

#### Seismic Walkdown Checklist (SWC)

Equipment ID No .:	1AP38E
Equipment Class:	(1) Motor Control Centers
Equipment Description:	ASSY - 480V AUX BLDG MCC 133X1A



1AP38E Byron 1 & 2 8-10-12 014



1AP38E Byron 1 & 2 8-10-12 015

Seismic Walkdown Checklist	(SWC)	Status: Y N U
Equipment ID No.:	1AP92E	
•	(1) Motor Control Centers	
- Equipment Description:	ASSY - 480V SXCT MCC 132Z1, SOUTH ELEC RM	· · · · · · · · · · · · · · · · ·
Proje	ct: Byron 1 SWEL	
Location (Bldg, Elev, Room/Area	a): ESWCT, 874.00 ft, ALL	· .
Manufacturer/Mod		:
Instructions for Completing C	hecklist	
SWEL. The space below each	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
<u>Anchorage</u>		
<ol> <li>Is anchorage configurat of SWEL items requiring</li> </ol>	ion verification required (i.e., is the item one of the 50% 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
	Revision BE	Yes
6. Based on the above and potentially adverse seis	chorage evaluations, is the anchorage free of mic conditions?	Yes

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Seism	ic Walkdown Checklist (SWC)	Status: Y N U
	Equipment ID No.: 1AP92E	
	Equipment Class: (1) Motor Control Centers	
	Equipment Description: ASSY - 480V SXCT MCC 132Z1, SOUTH ELEC RM	
	ction Effects	···· ··· ··· ···
7.	Are soft targets free from impact by nearby equipment or structures?	Yes
	Cabinet is bolted to adjacent cabinet 1AP92E to eliminate spatial interaction issues during a seismic event	
8.	Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	Yes
9.	Do attached lines have adequate flexibility to avoid damage?	Yes
10.	Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	Yes
Other	Adverse Conditions	
11.	Have you looked for and found no adverse seismic conditions that could adversely affect the safety functions of the equipment? One bolt is missing on one back panel but adequate bolts are in-place and acceptable. Not a structural/seismic issue.	Yes
Comn	<u>ients</u>	
Seism	ic walkdown team M. Delaney & P. Gazda 8/7/12 am	

Evaluated by:	Marlene Marlene Delaney	Date:	10/5/2012
	C.U. March Philip Gazda		10/5/2012
		<u></u>	10/5/2012

C-136

Status: Y N U

### Seismic Walkdown Checklist (SWC)

Equipment ID No.:	1AP92E
Equipment Class:	(1) Motor Control Centers
Equipment Description:	ASSY - 480V SXCT MCC 132Z1, SOUTH ELEC RM



1AP92E Byron 1 & 2 186



1AP92E Byron 1 & 2 187

Status: Y N U

#### Seismic Walkdown Checklist (SWC)

Equipment ID No .:	1AP92E
Equipment Class:	(1) Motor Control Centers
Equipment Description:	ASSY - 480V SXCT MCC 132Z1, SOUTH ELEC RM



1AP92E Byron 1 & 2 188

Status: Y N U

## Seismic Walkdown Checklist (SWC)

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Equipment ID No.: 1AP93E	
Equipment Class: (1) Motor Control Centers	<u>.</u>
Equipment Description: ASSY - 480V SXCT MCC 131Z1, NORTH ELEC RM	
Project: Byron 1 SWEL	
Location (Bldg, Elev, Room/Area): ESWCT, 874.00 ft, ALL	
Manufacturer/Model:	
Instructions for Completing Checklist	
This checklist may be used to document the results of the Seismic Walkdown of an item of equipment on SWEL. The space below each of the following questions may be used to record the results of judgments findings. Additional space is provided at the end of this checklist for documenting other comments.	
Anchorage	
<ol> <li>Is anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?</li> </ol>	Yes
2. Is the anchorage free of bent, broken, missing or loose hardware?	Yes
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	Yes
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Yes
<ol> <li>Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) Drawing 6E-0-3391C Revision BE Weld matches or exceeds drawing requirements</li> </ol>	Yes
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	Yes

Seism	ic Walkdown Checklist	(SWC)	Status: Y N U
	Equipment ID No.:	1AP93E	
	- Equipment Class:	(1) Motor Control Centers	
	Equipment Description:	ASSY - 480V SXCT MCC 131Z1, NORTH ELEC RM	
Intera	ction Effects		
7.	Are soft targets free from	n impact by nearby equipment or structures?	Yes
	Cabinet is bolted to ad issues during a seismic	jacent cabinet 1AP89E to eliminate spatial interaction event	
8.	masonry block walls not Partially open S-hooks	nt, distribution systems, ceiling tiles and lighting, and t likely to collapse onto the equipment? in room. Unlikely that lights would disengage since tly open and not all hooks are open. Therefore 7 written to close.	Yes
9.	Do attached lines have	adequate flexibility to avoid damage?	Yes
10.	Based on the above sei potentially adverse seis	smic interaction evaluations, is equipment free of mic interaction effects?	Yes
Other	Adverse Conditions		
11.	adversely affect the safe	d found no adverse seismic conditions that could ety functions of the equipment? In nearby wall judged to be acceptable based on their eismic concern.	Yes
Comm	nents		

Seismic walkdown team M. Delaney & P. Gazda 8/7/12 am

Evaluated by:	Mailere M Sel	Lany	Marlene Delaney	Date:	10/5/2012	
	C.U. Mych	Philip G	azda	_	10/5/2012	

Status: Y N U

### Seismic Walkdown Checklist (SWC)

Equipment ID No .:	1AP93E
Equipment Class:	(1) Motor Control Centers
Equipment Description:	ASSY - 480V SXCT MCC 131Z1, NORTH ELEC RM



1AP93E (NP-6695) Byron 1 & 2 170

1AP93E (NP-6695) Byron 1 & 2 171

Status: Y N U

### Seismic Walkdown Checklist (SWC)

1AP93E (NP-6695) Byron 1 & 2 172

Equipment ID No .:	1AP93E
Equipment Class:	(1) Motor Control Centers
Equipment Description:	ASSY - 480V SXCT MCC 131Z1, NORTH ELEC RM
E BAR.	
DA BARANTE :	
and the second second	
	Luco-13171 (IAP93E)
-	MCC-131ZI (IAP93E) ABOV. ESW. OLG. TOWER ESF.

1AP93E Byron 1 & 2 167

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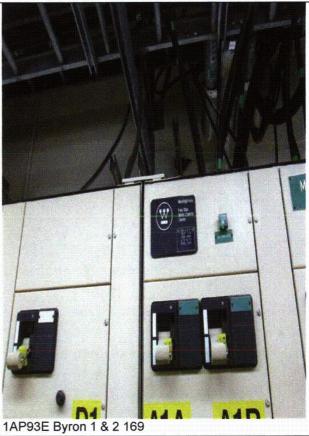
Status: Y N U

# Seismic Walkdown Checklist (SWC)

Equipment ID No.:	1AP93E
Equipment Class:	(1) Motor Control Centers
Equipment Description:	ASSY - 480V SXCT MCC 131Z1, NORTH ELEC RM



1AP93E Byron 1 & 2 168



# Status: Y N U

# Seismic Walkdown Checklist (SWC)

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Equipment ID No.: 1AP98E	
Equipment Class: (1) Motor Control Centers	
Equipment Description: ASSY - 480V ESF SXCT UNIT SUBSTA 132Z, SOUTH ELEC RM	
Project: Byron 1 SWEL	
Location (Bldg, Elev, Room/Area): ESWCT, 874.00 ft, ALL	
Manufacturer/Model:	
Instructions for Completing Checklist	
This checklist may be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.	
Anchorage	
<ol> <li>Is anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?</li> </ol>	(es
2. Is the anchorage free of bent, broken, missing or loose hardware?	es .
	••
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	és
4. Is the anchorage free of visible cracks in the concrete near the anchors?	es
<ol> <li>Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage</li> </ol>	(es
configuration verification is required.)	
Drawing 6E-0-3391C Revision BE Weld exceeds drawing requirements	
• • •	/es
potentially adverse seismic conditions?	

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Seismic Walkdown Checklist		Status: Y N U
Equipment ID No.:	1AP98E	
Equipment Class:	(1) Motor Control Centers	<u> </u>
Equipment Description:	ASSY - 480V ESF SXCT UNIT SUBSTA 132Z, SOUTH ELEC	CRM
Interaction Effects		· ·
7. Are soft targets free fro	om impact by nearby equipment or structures?	Yes
		·
	nt, distribution systems, ceiling tiles and lighting, and	Yes
-	ot likely to collapse onto the equipment? In the foor. IR 1398127 written to inspect and close	
	ent of condition based on open S-hooks in other areas	
9. Do attached lines have	adequate flexibility to avoid damage?	Yes
	ismic interaction evaluations, is equipment free of smic interaction effects?	Yes
Other Adverse Conditions		
adversely affect the sa	nd found no adverse seismic conditions that could fety functions of the equipment? in nearby wall are small and not a structural/seismic	Yes
<u>Comments</u> Seismic walkdown team M. De	laney & P. Gazda 8/7/12 am	

	Mailere M Sel	T			
Evaluated by:		$\checkmark$	Marlene Delaney	Date:	10/5/2012
	J.O. Mych	Philip Ga	azda	_ ·	10/5/2012

C-145

Status:	Y	N	11
otatus.		14	U

#### Seismic Walkdown Checklist (SWC)

Equipment ID No.:	1AP98E
Equipment Class:	(1) Motor Control Centers
Equipment Description:	ASSY - 480V ESF SXCT UNIT SUBSTA 132Z, SOUTH ELEC RM



Status: Y N U

## Seismic Walkdown Checklist (SWC)

Equipment ID No .:	1AP98E
Equipment Class:	(1) Motor Control Centers
Equipment Description:	ASSY - 480V ESF SXCT UNIT SUBSTA 132Z, SOUTH ELEC RM



1AP98E Byron 1 & 2 190

1AP98E Byron 1 & 2 191

Status: Y N U

#### Seismic Walkdown Checklist (SWC)

Equipment ID No.: 1AP98E

Equipment Class: (1) Motor Control Centers

Equipment Description: ASSY - 480V ESF SXCT UNIT SUBSTA 132Z, SOUTH ELEC RM



Status: Y	וו אר
Seismic Walkdown Checklist (SWC)	]
Equipment ID No.: 1AP99E	
Equipment Class: (1) Motor Control Centers	
Equipment Description: ASSY - 480V ESF SXCT UNIT SUBSTA 131Z, NORTH ELEC RM	
Project: Byron 1 SWEL	
Location (Bldg, Elev, Room/Area): ESWCT, 874.00 ft, ALL	
Manufacturer/Model:	
Instructions for Completing Checklist This checklist may be used to document the results of the Seismic Walkdown of an item of equipment on SWEL. The space below each of the following questions may be used to record the results of judgments findings. Additional space is provided at the end of this checklist for documenting other comments.	
<ul> <li>Anchorage</li> <li>1. Is anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?</li> </ul>	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
<ol> <li>Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) Drawing 6E-0-3391C Revision BE Weld matches or exceeds what is specified on documentation</li> </ol>	Yes
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	Yes

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

Seismic Walkdown Checklist (SWC)	Status: Y N U
Equipment ID No.: 1AP99E	
Equipment Class: (1) Motor Control Centers	
Equipment Description: ASSY - 480V ESF SXCT UNIT SUBSTA 131Z, NORTH E	LEC RM
Interaction Effects	
7. Are soft targets free from impact by nearby equipment or structures?	Yes
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Partially open S-hooks in room. Unlikely that lights would disengage since the hooks are only slightly open and not all hooks are open. Therefore acceptable. IR 1398127 written to close.	Yes
9. Do attached lines have adequate flexibility to avoid damage?	Yes
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	Yes
Other Adverse Conditions	
11. Have you looked for and found no adverse seismic conditions that could adversely affect the safety functions of the equipment?	Yes

### <u>Comments</u>

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Seismic walkdown team M. Delaney & P. Gazda 8/6/12 pm

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	Mailie Malany			
Evaluated by:	Marlene Delaney	Date:	10/5/2012	
	C.U. Mych Philip Gazda		10/5/2012	
		_	10/5/2012	

Status: Y N U

## Seismic Walkdown Checklist (SWC)

Equipment ID No .:	1AP99E
Equipment Class:	(1) Motor Control Centers
Equipment Description:	ASSY - 480V ESF SXCT UNIT SUBSTA 131Z, NORTH ELEC RM

## **Photos**



1AP99E Byron 1 & 2 164



1AP99E Byron 1 & 2 165

Status: Y N U

# Seismic Walkdown Checklist (SWC)

Equipment ID No .:	1AP99E	
Equipment Class:	(1) Motor Control Centers	
 Equipment Description:	ASSY - 480V ESF SXCT UNIT SUBSTA 131Z, NORTH ELEC RM	



1AP99E Byron 1 & 2 166

Seismic Walkdo	wn Checklist	(SWC)			Status: Y	]N U
	ment ID No.:					
	pment Class:		al Pumps			
				OLING 12X14-18 M6	6-3 ASMBLY	
	•	ct: Byron 1				
Location (Bldg, E	lev, Room/Area	a): Auxiliary	, 364.00 ft, ALL	14 (x)		
Mai	nufacturer/Mod	el:				
Instructions for	Completing C	hecklist				
SWEL. The space	e below each	of the followin	g questions may		item of equipment on e results of judgments ther comments.	
Anchorage						
	rage configurat items requiring			the item one of the 5	60%	Yes
2. Is the an	chorage free of	bent, broken	, missing or loose	hardware?		Yes
3. Is the an	chorage free of	corrosion that	at is more than mi	Id surface oxidation?		Yes
4. Is the an	chorage free of	visible crack	s in the concrete	near the anchors?		Yes
This que configura		es if the item i is required.)	is one of the 50%	ocumentation? (Note: for which an anchor	age	Yes
	n the above and y adverse seis		ations, is the anc s?	horage free of		Yes

Seismic Walkdow	n Checklist (SWC)				Status: Y N U
Equipn	nent ID No.: 1CC01PB				
	ment Class: (5) Horizont	al Pumps			
Equipment	Description: 1B PUMP, C	COMPONENT CO	OLING 12X14-18	3 M66-3 AS	MBLY
Interaction Effect	<u>s</u>				
7. Are soft ta	rgets free from impact by r	nearby equipment	or structures?		Yes
	ead equipment, distributior lock walls not likely to colla			and	Yes
9. Do attache	ed lines have adequate fle	xibility to avoid dar	nage?		Yes
	the above seismic interact adverse seismic interactic		equipment free o	of	Yes
Other Adverse Co	onditions				
11. Have you adversely	ooked for and found no ac affect the safety functions rel) glass is well-protected	of the equipment?		t.	Yes
<u>Comments</u>					
Seismic walkdown	team M. Delaney & P. Ga	zda 8/20/12 pm			
Evaluated by:	Mailere M S.		ene Delaney	Date: 1	0/5/2012
			end bolding		
	C.U. Mych	Philip Gazda		1	0/5/2012
	<b></b>				

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Status: Y N U

## Seismic Walkdown Checklist (SWC)

Equipment ID No.:	1CC01PB
Equipment Class:	(5) Horizontal Pumps
Equipment Description:	1B PUMP, COMPONENT COOLING 12X14-18 M66-3 ASMBLY



1CC01PB Byron 1 & 2 8-20-12 053



1CC01PB Byron 1 & 2 8-20-12 054

Seismi	c Walkdown Checklist (SWC)	Status: Y N U
	Equipment ID No.: 1CC685	
	Equipment Class: (8) Motor-Operated and Solenoid-Operated Valves	
	Equipment Description: CC FROM RC PMPS THERMAL BARRIER ISOL VLV AS	SMBLY; 3"
	Project: Byron 1 SWEL	
Locatio	n (Bldg, Elev, Room/Area): Auxiliary, 395.00 ft, ALL	-
	Manufacturer/Model:	
Instruc	tions for Completing Checklist	
SWEL.	ecklist may be used to document the results of the Seismic Walkdown of an item of The space below each of the following questions may be used to record the result Additional space is provided at the end of this checklist for documenting other co	s of judgments and
<u>Ancho</u>		
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

Soiem	ic Walkdown Checklist	(SM/C)	Status: Y N U
Jeisin	Equipment ID No.:	1CC685	
	Equipment Class:		
	Equipment Description:	CC FROM RC PMPS THERMAL BARRIER ISOL VLV ASM	 IBLY; 3"
Interac	ction Effects		
7.	Are soft targets free fro	m impact by nearby equipment or structures?	Yes
	•		
8.		nt, distribution systems, ceiling tiles and lighting, and tikely to collapse onto the equipment?	Yes
·			,
9.	Do attached lines have	adequate flexibility to avoid damage?	Yes
່ 10.	Based on the above se potentially adverse seis	smic interaction evaluations, is equipment free of mic interaction effects?	Yes
Other	Adverse Conditions		
11.	Have you looked for an	d found no adverse seismic conditions that could ety functions of the equipment? <i>ssues</i>	Yes

## **Comments**

Seismic walkdown team 8/8/12 pm M. Delaney & P. Gazda

	Marline M Selesy		
Evaluated by:	Marlene Delaney	Date:	10/5/2012
	C. U. Mych Philip Gazda		10/5/2012

C-157

Status: Y N U

#### Seismic Walkdown Checklist (SWC)

Equipment ID No.:	1CC685
Equipment Class:	(8) Motor-Operated and Solenoid-Operated Valves
Equipment Description:	CC FROM RC PMPS THERMAL BARRIER ISOL VLV ASMBLY; 3"



1CC685 Byron 1 & 2 8-8-12 058

1CC685 Byron 1 & 2 8-8-12 059

Status: Y N U

# Seismic Walkdown Checklist (SWC)

Equipment ID No.: _1	CV01PB	
Equipment Class: (5	5) Horizontal Pumps	
Equipment Description: P	UMP,1B CENTRIFUGAL CHARGING ASMBLY	
Project	Byron 1 SWEL	
Location (Bldg, Elev, Room/Area):	Auxiliary, 364.00 ft, ALL	······································
Manufacturer/Model:		
Instructions for Completing Che		
SWEL. The space below each of	ument the results of the Seismic Walkdown of an item of equipment the following questions may be used to record the results of judgment ded at the end of this checklist for documenting other comments.	
<u>Anchorage</u>		
<ol> <li>Is anchorage configuration of SWEL items requiring s</li> </ol>	n verification required (i.e., is the item one of the 50% such verification)?	Yes
2. Is the anchorage free of b	ent, broken, missing or loose hardware?	Yes
3. Is the anchorage free of c	orrosion that is more than mild surface oxidation?	Yes
4. Is the anchorage free of v	isible cracks in the concrete near the anchors?	Yes
		Yes
<ol> <li>Based on the above anch potentially adverse seismi</li> </ol>	orage evaluations, is the anchorage free of c conditions?	Yes

ic Walkdown Checklist	(SWC)	Status: Y N U
	······································	
ction Effects		
Are soft targets free fro	m impact by nearby equipment or structures?	Yes
·		•
masonry block walls no Masonry walls are sei	t likely to collapse onto the equipment? smic and would not collapse on equipment	Yes
Do attached lines have	adequate flexibility to avoid damage?	Yes
		Yes
Adverse Conditions		
Have you looked for an		Yes
	Equipment ID No.: Equipment Class: Equipment Description: <u>ction Effects</u> Are soft targets free fro Are overhead equipment masonry block walls no Masonry walls are sei Removable block walls Do attached lines have Based on the above se potentially adverse seis Have you looked for an	Are soft targets free from impact by nearby equipment or structures? Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? <i>Masonry walls are seismic and would not collapse on equipment</i> <i>Removable block walls restrained by grating</i> Do attached lines have adequate flexibility to avoid damage? Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Adverse Conditions

# **Comments**

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Seismic walkdown team M. Delaney & P. Gazda 8/8/12 pm

Evaluated by:	Mailine M Se	lany	Narlene Delaney	Date:	10/5/2012
	C.O. Mych	Philip C	Sazda	_	10/5/2012

Status: Y N U

### Seismic Walkdown Checklist (SWC)

Equipment ID No .:	1CV01PB
Equipment Class:	(5) Horizontal Pumps
Equipment Description:	PUMP,1B CENTRIFUGAL CHARGING ASMBLY



1CV01PB Byron 1 & 2 8-8-12 046



1CV01PB Byron 1 & 2 8-8-12 047

Seismic Walkdown Checklist (SWC)	Status: Y N U
Equipment ID No.: 1CV02SB	
Equipment Class: (21) Tanks and Heat Exchangers	
Equipment Description: 1B CENTRIFUGAL CHARGING PUMP GEAR COOLER	
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 e 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 com-	of judgments and
Anchorage	
<ol> <li>Is anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?</li> </ol>	No
2. Is the anchorage free of bent, broken, missing or loose hardware?	Yes
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	Yes
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Yes
<ol> <li>Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)</li> </ol>	Not Applicable
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	Yes

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Seismic Walkdov	wn Checklist (SWC)	Status: Y N U
	ment ID No.: 1CV02SB	
Equip	pment Class: (21) Tanks and Heat Exchangers	
	t Description: 1B CENTRIFUGAL CHARGING PUMP GEAR COOLER	
Interaction Effect	<u>ets</u>	
7. Are soft ta	argets free from impact by nearby equipment or structures?	Yes
	nead equipment, distribution systems, ceiling tiles and lighting, and	Yes
	block walls not likely to collapse onto the equipment?	
9. Do attach	ned lines have adequate flexibility to avoid damage?	Yes
	the above seismic interaction evaluations, is equipment free of y adverse seismic interaction effects?	Yes
Other Adverse C	Conditions	
adversely	<ul> <li>looked for and found no adverse seismic conditions that could affect the safety functions of the equipment?</li> <li>stural/seismic issues</li> </ul>	Yes
Commonto		
<u>Comments</u> Seismic walkdown	n team M. Delaney & P. Gazda 8/8/12 pm	
Geisinic waikuOWI		
Evaluated by:		0/5/2012
	C.U. Shych Philip Gazda 10	0/5/2012

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Status: Y N U

	Equipment ID No.:	1CV02SB
	Equipment Class:	(21) Tanks and Heat Exchangers
	Equipment Description:	1B CENTRIFUGAL CHARGING PUMP GEAR COOLER
Phote	<u>os</u>	
None		

Seismic Walkdown Checklist (SWC)	Status: Y N U
Equipment ID No.: 1CV112E	
Equipment Class: (8) Motor-Operated and Solenoid-Operated Valves	
Equipment Description: RWST TO CHG PMPS SUCT VLV (C/S AT 1PM05J) ASME	3LY; 8"
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 e SWEL. The space below each of the following questions may be used to record the results findings. Additional space is provided at the end of this checklist for documenting other com	of judgments and
Anchorage	
<ol> <li>Is anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?</li> </ol>	No
2. Is the anchorage free of bent, broken, missing or loose hardware?	Not Applicable
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	Not Applicable
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Not Applicable
<ol> <li>Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)</li> </ol>	Not Applicable
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	Yes

	Status: Y N U
Seismic Walkdown Checklist (SWC)	
Equipment ID No.: 1CV112E	
Equipment Class: (8) Motor-Operated and Solenoid-Operated Valves	
Equipment Description: RWST TO CHG PMPS SUCT VLV (C/S AT 1PM05.	J) ASMBLY; 8"
Interaction Effects	
7. Are soft targets free from impact by nearby equipment or structures?	Yes
Valve is in contact with adjacent pipe. Calculation W000151-Add B (Rev 000B), U004065-Add B (Rev 1D), NED-M-MSD-029 Add A (Rev 0A) addres valve clearance issues from IPEEE including valve 1CV 112E.	S
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	Yes
9. Do attached lines have adequate flexibility to avoid damage?	Yes
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	Yes
Other Adverse Conditions	
<ol> <li>Have you looked for and found no adverse seismic conditions that could adversely affect the safety functions of the equipment?</li> </ol>	Yes

# <u>Comments</u>

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Seismic walkdown team M. Delaney & P. Gazda 8/8/12 pm

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Fuely stad by:	Mailere M Selary	Deter	40/5/0040
Evaluated by:	Marlene Delaney	Date:	10/5/2012
	C.U. Mych Philip Gazda		10/5/2012
	Philip Gazda		10/5/2012

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Status: Y N U

### Seismic Walkdown Checklist (SWC)

Equipment ID No.:	1CV112E
Equipment Class:	(8) Motor-Operated and Solenoid-Operated Valves
Equipment Description:	RWST TO CHG PMPS SUCT VLV (C/S AT 1PM05J) ASMBLY; 8"

Photos



1CV112E Byron 1 & 2 8-8-12 056



1CV112E Byron 1 & 2 8-8-12 057

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Status: Y N U

Seism	ic Walkdown Checklist (SWC)	
	Equipment ID No.: 1CV8152	
	Equipment Class: (7) Fluid-Operated Valves	
	Equipment Description: ASSY - AOV U-1 LTDWN HDR ISOL VLV (EOP VLV)	
	Project: Byron 1 SWEL	
Locati	on (Bldg, Elev, Room/Area): Auxiliary, 374.00 ft, ALL	· · · · · · · · · · · · · · · · · · ·
	Manufacturer/Model:	
	ctions for Completing Checklist	
SWEL	necklist may be used to document the results of the Seismic Walkdown of an item of e The space below each of the following questions may be used to record the results on Additional space is provided at the end of this checklist for documenting other com	of judgments and
<u>Ancho</u>		
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

.

ects targets free fro	(7) Fluid-Opera ASSY - AOV U	ted Valves 1 LTDWN HDR ISOL V rby equipment or structu			Yes
nt Description: ects targets free fro	ASSY - AOV U	1 LTDWN HDR ISOL V			Yes
ects targets free fro					Yes
targets free fro	m impact by nea	by equipment or structu	res?		Yes
-	m impact by nea	by equipment or structu	res?		Yes
					-
		. –	ighting, and		Yes
					•
ched lines have	adequate flexibil	ity to avoid damage?		,	Yes
			•	. <i></i>	
			nt free of		Yes
Conditions					
			at could		Yes
uctural/seismic i	issues				
wn team M. Del	aney & P. Gazda	8/8/12 pm	. ·		
	y block walls no ched lines have on the above se ally adverse seis <u>Conditions</u> ou looked for an ely affect the sat uctural/seismic	y block walls not likely to collapse ched lines have adequate flexibil on the above seismic interaction ally adverse seismic interaction e <u>Conditions</u> ou looked for and found no adver ely affect the safety functions of th uctural/seismic issues	y block walls not likely to collapse onto the equipment? ched lines have adequate flexibility to avoid damage? on the above seismic interaction evaluations, is equipmenally adverse seismic interaction effects? <u>Conditions</u> ou looked for and found no adverse seismic conditions the ely affect the safety functions of the equipment?	ched lines have adequate flexibility to avoid damage? on the above seismic interaction evaluations, is equipment free of ally adverse seismic interaction effects? <u>Conditions</u> ou looked for and found no adverse seismic conditions that could ely affect the safety functions of the equipment? <i>uctural/seismic issues</i>	y block walls not likely to collapse onto the equipment? ched lines have adequate flexibility to avoid damage? on the above seismic interaction evaluations, is equipment free of ally adverse seismic interaction effects? <u>Conditions</u> ou looked for and found no adverse seismic conditions that could ely affect the safety functions of the equipment? <i>uctural/seismic issues</i>

Evaluated by:	Mailure M Sel	Marlene Dela	ney Date:	10/5/2012	
; •	C.O. Mych	Philip Gazda		10/5/2012	

C-169

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Status: Y N U

# Seismic Walkdown Checklist (SWC)

Equipment ID No .:	1CV8152
Equipment Class:	(7) Fluid-Operated Valves
Equipment Description:	ASSY - AOV U-1 LTDWN HDR ISOL VLV (EOP VLV)



1CV8152 Byron 1 & 2 8-8-12 052

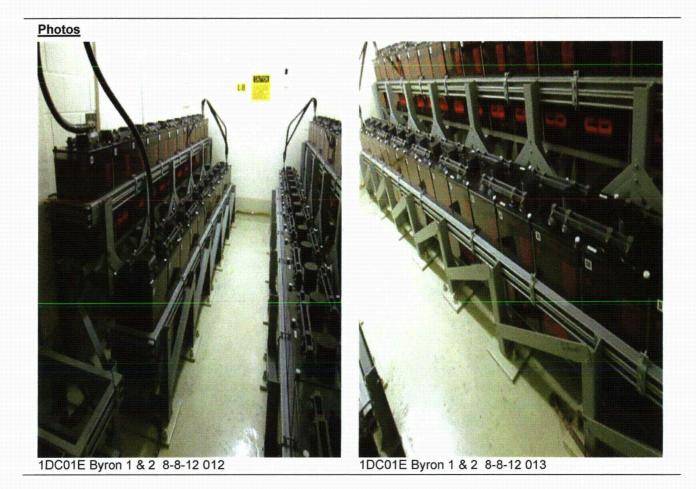
	Status: Y N U
Seismic Walkdown Checklist (SWC)	
Equipment ID No.: 1DC01E	
Equipment Class: (15) Batteries on Racks	
Equipment Description: 125V BATTERY 111 DIV. 11 AND Rack	
Project: Byron 1 SWEL	
Location (Bldg, Elev, Room/Area):Auxiliary, 451.00 ft, ALL	· · · · · · · · · · · · · · · · · · ·
Manufacturer/Model:	
Instructions for Completing Checklist	
This checklist may be used to document the results of the Seismic Walkdown of an item of ec SWEL. The space below each of the following questions may be used to record the results o findings. Additional space is provided at the end of this checklist for documenting other comm	f judgments and
Anchorage	
<ol> <li>Is anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?</li> </ol>	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
<ol> <li>Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) Drawing 6E-0-3391AY Revision B</li> </ol>	Yes
Note that one anchor on drawing is noted as having an embedment depth of 7 1/2" with approximately 4 1/4" bolt projection. Other anchors have approximately 3 1/2" bolt projection which would equate to an embedment greater than 8" (Bolt length = 7.5"+4.25"=11.75" therefore 11.75"-3.5"=8.25" which is greater than 8") where 8" minimum embedment is per DCS 24.1.2 Revision 0 page 24 for 1" diameter anchors. It is reasonable to consider all expansion anchors being the same length.	

Seismic Walkdown Checklist (SWC)	Status: Y N U
Equipment ID No.: 1DC01E	
Equipment Class: (15) Batteries on Racks	· · · · · · · · · · · · · · · · · · ·
Equipment Description: 125V BATTERY 111 DIV. 11 AND Rack	
	· . · · ·
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	Yes
•	·
Interaction Effects	
7. Are soft targets free from impact by nearby equipment or structures?	Yes
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? <i>S</i> hooks appear closed but many are not visible. IR 1399377 written to address extent of condition and follow-up S-hook inspection	Yes
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 potentially adverse seismic interaction effects?	Yes
Other Adverse Conditions	
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?	163
Comments	

Seismic walkdown team M. Delaney & P. Gazda 8/8/12 am

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					Status: Y N U
Seismic Walkdown	Checklist	(SWC)			
Equipme	ent ID No.:	1DC01E			
Equipm	ent Class:	(15) Batteries on Rack	S		
Equipment D	escription:	125V BATTERY 111	DIV. 11 AND Rack		
Evaluated by: _	1	Malany Mych Philip	Marlene Delaney Gazda	Date:	10/5/2012



Seismic Walkdown Checklist (SWC)	U
Equipment ID No.: 1DC02E	
Equipment Class: (15) Batteries on Racks	
Equipment Description: 125V BATTERY 112 DIV. 12 and Rack	
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	
<ol> <li>Is anchorage configuration verification required (i.e., is the item one of the 50% Y of SWEL items requiring such verification)?</li> </ol>	′es
2. Is the anchorage free of bent, broken, missing or loose hardware? Y	′es
3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y	′es
4. Is the anchorage free of visible cracks in the concrete near the anchors? Y	′es
<ul> <li>Is the anchorage configuration consistent with plant documentation? (Note: Y This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)</li> <li>Drawing 6E-0-3391AY Revision B</li> </ul>	′es
<ol> <li>Based on the above anchorage evaluations, is the anchorage free of Y potentially adverse seismic conditions?</li> </ol>	′es

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Seismi	c Walkdown Checklist (SWC)	Status: Y N U
00.01	Equipment ID No.: 1DC02E	
	Equipment Class: (15) Batteries on Racks	
F	Equipment Description: 125V BATTERY 112 DIV. 12 and Rack	
	tion Effects	
	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
	Masonry walls are seismic and would not collapse on equipment	
	S hooks do not appear open however extent of condition IR 1399380 was written to inspect and close S-hooks if found open	
	Do attached lines have adequate flexibility to avoid damage?	Yes
	Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	Yes
Other A	dverse Conditions	
	Have you looked for and found no adverse seismic conditions that could adversely affect the safety functions of the equipment?	Yes
		•
Comme Seismic	n <b>ts</b> walkdown team M. Delaney & P. Gazda 8/8/12 am	
Evaluate	ed by: Marlene Delaney Date:	10/5/2012
	C.U. Mych Philip Gazda	10/5/2012

Status: Y N U

# Seismic Walkdown Checklist (SWC)

Equipment ID No.:	1DC02E
Equipment Class:	(15) Batteries on Racks
Equipment Description:	125V BATTERY 112 DIV. 12 and Rack



# Status: Y N U Seismic Walkdown Checklist (SWC) Equipment ID No.: 1DC04E Equipment Class: (16) Battery Chargers and Inverters Equipment Description: 125V DC BATT CHGR 112 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 3. Is the anchorage free of corrosion that is more than mild surface oxidation? Yes Is the anchorage free of visible cracks in the concrete near the anchors? Yes 4. 5. Is the anchorage configuration consistent with plant documentation? (Note: Yes This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) 6. Based on the above anchorage evaluations, is the anchorage free of Yes potentially adverse seismic conditions?

Seismic Walkdown Checklis	t (SWC)	Status: Y N U
Equipment ID No.:	1DC04E	
Equipment Class:	(16) Battery Chargers and Inverters	
Equipment Description:	125V DC BATT CHGR 112	,
Interaction Effects		
7. 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 hav	e adequate flexibility to avoid damage?	Yes
	eismic interaction evaluations, is equipment free of ismic interaction effects?	Yes
Other Adverse Conditions		
11. Have you looked for a	nd found no adverse seismic conditions that could afety functions of the equipment? <i>issues</i>	Yes
<u>Comments</u> Seismic walkdown team M. De	-	
Maile	Ne M Selary	

Evaluated by:

Marlene Delaney Date: 10/5/2012

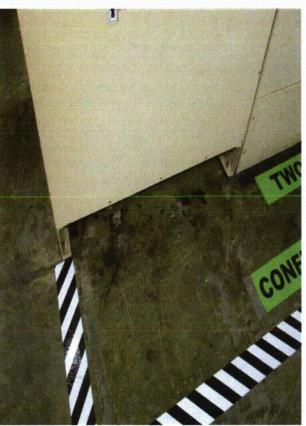
Status: Y N U

#### Seismic Walkdown Checklist (SWC)

Equipment ID No.:	1DC04E	
Equipment Class:	(16) Battery Chargers and Inverters	
Equipment Description:	125V DC BATT CHGR 112	



1DC04E Byron 1 & 2 8-8-12 022



1DC04E Byron 1 & 2 8-8-12 023

Status: Y N U

# Seismic Walkdown Checklist (SWC)

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	Equipment ID No.:	1DC05E	
	Equipment Class:	(14) Distribution Panels	
	Equipment Description:	125V DC ESF DISTR CENTER BUS 111	
	Proj	ect: Byron 1 SWEL	
Locatio	on (Bldg, Elev, Room/Are	ea): Auxiliary, 451.00 ft, ALL	
	Manufacturer/Mod	del:	
Instruc	ctions for Completing (	Checklist	
SWEL.	The space below each	document the results of the Seismic Walkdown of an item of equipment of the following questions may be used to record the results of judgment rovided at the end of this checklist for documenting other comments.	
Ancho	rage		
1.	Is anchorage configura of SWEL items requirin	ition verification required (i.e., is the item one of the 50% og such verification)?	Yes
2.	Is the anchorage free of	of bent, broken, missing or loose hardware?	Yes
·			
3.	Is the anchorage free of	of corrosion that is more than mild surface oxidation?	Yes
		face oxidation) resulting from condensation from not a structural/seismic issue	
4.	Is the anchorage free o	of visible cracks in the concrete near the anchors?	Yes
_			
5.			Yes
	Weld equals or exceed	Is drawing requirements	
6.	Based on the above ar potentially adverse sei	nchorage evaluations, is the anchorage free of smic conditions?	Yes

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		s	Status: Y N	U
Seism	ic Walkdown Checklist	(SWC)		
	Equipment ID No.:	1DC05E		
	Equipment Class:	(14) Distribution Panels		
	Equipment Description:	125V DC ESF DISTR CENTER BUS 111		
	ction Effects			
7.	Are soft targets free from	n impact by nearby equipment or structures?	. <b>Y</b>	'es
	•		. A	÷
8.		it, distribution systems, ceiling tiles and lighting, and likely to collapse onto the equipment?	Y	es/
9.	Do attached lines have	adequate flexibility to avoid damage?	Ý	'es
10.	Based on the above sei potentially adverse seis	smic interaction evaluations, is equipment free of mic interaction effects?	Ŷ	′es
Other	Adverse Conditions			<u> </u>
<u>Uner</u> 11.		found no adverse seismic conditions that could	Y	es/
	•	ety functions of the equipment?		
Comm	ents			
Seismi	c walkdown team M. Dela	aney & P. Gazda 8-8-12 am		
	AI _ A			
	Mailer	e Malany		
	. 1			
Evalua	· · · · · · · · · · · · · · · · · · ·	1	2012	
	G.U.	hyph Philip Gazda 10/5/	2012	

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Status: Y N U

#### Seismic Walkdown Checklist (SWC)

Equipment ID No.:	1DC05E
Equipment Class:	(14) Distribution Panels
Equipment Description:	125V DC ESF DISTR CENTER BUS 111



1DC05E Byron 1 & 2 8-8-12 008



1DC05E Byron 1 & 2 8-8-12 009

Status: Y N U

# Seismic Walkdown Checklist (SWC)

Equipment ID No.:	1DC05E	
Equipment Class:	(14) Distribution Panels	
Equipment Description:	125V DC ESF DISTR CENTER BUS 111	



1DC05E Byron 1 & 2 8-8-12 010

Status: Y N U

# Seismic Walkdown Checklist (SWC)

١	Equipment ID No.: <u>1</u>	C06E	
	Equipment Class: (14	4) Distribution Panels	
Equip	oment Description: 12	5V DC ESF DISTR CENTER BUS 112	
	Project:	Byron 1 SWEL	
Location (Bl	dg, Elev, Room/Area):	Auxiliary, 451.00 ft, ALL	
	Manufacturer/Model:		
Instruction	s for Completing Che	cklist	
SWEL. The	space below each of t	ment the results of the Seismic Walkdown of an item of equipment on ne following questions may be used to record the results of judgments led at the end of this checklist for documenting other comments.	
<u>Anchorage</u>			
	nchorage configuration WEL items requiring su	verification required (i.e., is the item one of the 50% ich verification)?	Yes
			-
2. Is th	e anchorage free of be	nt, broken, missing or loose hardware?	Yes
			Vaa
3. Is th	le anchorage free of co	rrosion that is more than mild surface oxidation?	Yes
4. Is th	e anchorage free of vis	ible cracks in the concrete near the anchors?	Yes
		tion consistent with plant documentation? (Note: if the item is one of the 50% for which an anchorage	Yes
con	figuration verification is	required.)	
Dr	awing 6E-0-3391C Rev	ision BE	
Wei	ld exceeds or equals dr	awing requirements	
	ed on the above ancho entially adverse seismic	rage evaluations, is the anchorage free of	Yes
pote	שמעלו של שלו אלי		

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		Status: Y N U
Seismic Walkdown Checklist	(SWC)	
Equipment ID No.:	1DC06E	
Equipment Class:	(14) Distribution Panels	
Equipment Description:	125V DC ESF DISTR CENTER BUS 112	
Interaction Effects		
7. Are soft targets free fro	om impact by nearby equipment or structures?	Yes
	nt, distribution systems, ceiling tiles and lighting, and t likely to collapse onto the equipment?	Yes
9. Do attached lines have	adequate flexibility to avoid damage?	Yes
	ismic interaction evaluations, is equipment free of smic interaction effects?	Yes
	·	, 
Other Adverse Conditions		•
-	nd found no adverse seismic conditions that could fety functions of the equipment?	Yes

# **Comments**

Seismic walkdown team M. Delaney & P. Gazda 8-8-12 am

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

Status: Y N U

#### Seismic Walkdown Checklist (SWC)

Equipment ID No .:	1DC06E	
Equipment Class:	(14) Distribution Panels	
Equipment Description:	125V DC ESF DISTR CENTER BUS 112	



1DC06E Byron 1 & 2 8-8-12 018

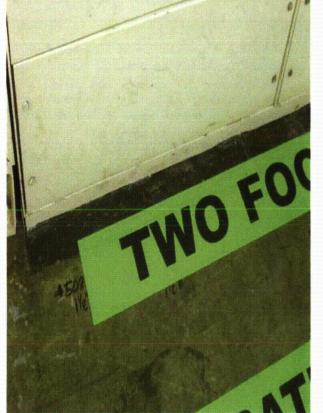


1DC06E Byron 1 & 2 8-8-12 019

Status: Y N U

#### Seismic Walkdown Checklist (SWC)

Equipment ID No .:	1DC06E
Equipment Class:	(14) Distribution Panels
Equipment Description:	125V DC ESF DISTR CENTER BUS 112



1DC06E Byron 1 & 2 8-8-12 020

Seismíc Wałkdown Checklist (SWC)	Status: Y N U
Equipment ID No.: 1DC10J	
Equipment Class: (14) Distribution Panels	
Equipment Description: 125V DC FUSE PANEL - DIV. 11	
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 e 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 com	of judgments and
Anchorage	<u> </u>
<ol> <li>Is anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?</li> </ol>	No
2. Is the anchorage free of bent, broken, missing or loose hardware?	Yes
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	Yes
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Yes
<ol> <li>Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)</li> </ol>	Not Applicable
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	Yes

Seism	ic Walkdown Checklist	(SWC)			Status:	YNU
	Equipment ID No.:	1DC10J				
		(14) Distribution Panel	S			<u></u>
	Equipment Description:	125V DC FUSE PANE	L - DIV. 11			
Interac	ction Effects	· · · · · · · · · · · · · · · · · · ·				
7.	Are soft targets free fro	m impact by nearby equ	ipment or structures?			Yes
	•					
8.	Are overhead equipmen masonry block walls no	nt, distribution systems, t likely to collapse onto t	• • •	, and		Yes
9.	Do attached lines have	adequate flexibility to av	void damage?			Yes
				-		
<b>10</b> .	Based on the above se potentially adverse seis		ions, is equipment free	of		Yes
				· · ·		
Other	Adverse Conditions					
11.	Have you looked for an adversely affect the saf	d found no adverse seis ety functions of the equi		ld		Yes
		•				· ·
Comm	ents	·····				
	c walkdown team M. Del	aney & P. Gazda 8/8/12	pm			
	Mailes	e Marleny				
Evalua	ted by:	<u> </u>	Marlene Delaney	Date:	10/5/2012	
	G.U.	Shych Philip C	Gazda		10/5/2012	

Philip Gazda

10/5/2012

Seismic Walkdown Checklist	(SWC)	Status: Y N U
Equipment ID No.:	1DC10J	
Equipment Class:	(14) Distribution Panels	
Equipment Description:	125V DC FUSE PANEL - DIV. 11	



Status:	Y	NU
	L	

# Seismic Walkdown Checklist (SWC)

Equipment ID No .:	1DC10J	_
Equipment Class:	(14) Distribution Panels	_
Equipment Description:	125V DC FUSE PANEL - DIV. 11	



1DC10J Byron 1 & 2 8-8-12 003