	tatus: YNU
Seismic Walkdown Checklist (SWC)	
Equipment ID No.: 2CC01PA	
Equipment Class: (5) Horizontal Pumps	
Equipment Description: 2A COMPONENT COOLING WTR PUMP ASMBLY	
Project: Byron 2 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 equi SWEL. The space below each of the following questions may be used to record the results of ju findings. Additional space is provided at the end of this checklist for documenting other comme	udgments and
<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 M-1220 Sheet 4 Revision V</li> </ol>	Yes
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	Yes

Seismic Walkdown Checklist	(SWC)	Status: Y N U
Equipment ID No.:	2CC01PA	
	(5) Horizontal Pumps	
	2A COMPONENT COOLING WTR PUMP ASMBLY	·
Interaction Effects		
7. Are soft targets free fro	m impact by nearby equipment or structures?	Yes
	nt, distribution systems, ceiling tiles and lighting, and t likely to collapse onto the equipment?	Yes
-	ismic and would not collapse on equipment?	
9. Do attached lines have	adequate flexibility to avoid damage?	Yes
	vismic interaction evaluations, is equipment free of	Yes
· · · ·	smic interaction effects? cured so there are no seismic/structural issues	
Other Adverse Conditions		· · · · · · · · · · · · · · · · · · ·
-	nd found no adverse seismic conditions that could fety functions of the equipment?	Yes
<u>Comments</u>		
Seismic walkdown team M. De	lanev & P. Gazda 8/20/12 pm	

Evaluated by:  $\begin{array}{c}
Marlene Delaney Date: 10/5/2012 \\
\hline
0.0.1 \\
\hline
0.0.1 \\
\hline
0.0.1 \\
\hline
0.0.1 \\
\hline
0.0.2 \\
\hline
0.0.1 \\$ 

Status: Y N U

# Seismic Walkdown Checklist (SWC)

Equipment ID No.:	2CC01PA
Equipment Class:	(5) Horizontal Pumps
Equipment Description:	2A COMPONENT COOLING WTR PUMP ASMBLY





2CC01PA Byron 1 & 2 8-20-12 055

Status: Y N U

# Seismic Walkdown Checklist (SWC)

.

Equipment ID No.: 2CC9412A	
Equipment Class: (8) Motor-Operated and Solenoid-Operated Valves	
Equipment Description: CC FROM RH HX 2A OUTLET ISOL ASMBLY	
Project: Byron 2 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 SWEL. The space below each of the following questions may be used to record the result findings. Additional space is provided at the end of this checklist for documenting other of the space space.	ilts 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
	· .
5. Is the anchorage configuration consistent with plant documentation? (Note:	Not Applicable
This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)	
6. Based on the above anchorage evaluations, is the anchorage free of	Yes
potentially adverse seismic conditions?	

.

Seismic Walkdown Checklist	(SWC)	Status: Y N U
Equipment ID No.:	2CC9412A	
Equipment Class:	(8) Motor-Operated and Solenoid-Operated Valves	
Equipment Description:	CC FROM RH HX 2A OUTLET ISOL ASMBLY	
Interaction Effects		
7. Are soft targets free fro	om impact by nearby equipment or structures?	Yes
	nt, 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 smic interaction effects?	Yes
	· · · · · · · · · · · · · · · · · · ·	
-	nd found no adverse seismic conditions that could fety functions of the equipment?	Yes

#### **Comments**

Seismic Walkdown Team M. Delaney & P. Gazda 8/20/12 pm

Evoluated by:	Mailere M Se	lung	Marlene Delaney	Date:	10/5/2012	
Evaluated by:			Mariene Delaney		10/5/2012	
	C.O. Mych	Philip G	Bazda		10/5/2012	

Status: Y N U

### Seismic Walkdown Checklist (SWC)

Equipment ID No .:	2CC9412A
Equipment Class:	(8) Motor-Operated and Solenoid-Operated Valves
Equipment Description:	CC FROM RH HX 2A OUTLET ISOL ASMBLY



2CC9412A Byron 1 & 2 8-20-12 066



2CC9412A Byron 1 & 2 8-20-12 067

Seismic Walkdown Checklist (SWC)	Status: Y N U
Equipment ID No.: 2CV01PA	
Equipment Class: (5) Horizontal Pumps	
Equipment Description: PUMP,2A CENTRIFUGAL CHARGING ASMBLY	
Project: Byron 2 SWEL	<u> </u>
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 ea SWEL. The space below each of the following questions may be used to record the results o findings. Additional space is provided at the end of this checklist for documenting other comm	of judgments and
Anchorage	
<ol> <li>Is anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?</li> </ol>	Yes
2. Is the anchorage free of bent, broken, missing or loose hardware?	Yes
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 M-1220 Sheet 2 Revision AB</li> </ol>	Yes
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	Yes

Seismic Walkdown	Checklist (SWC)				Status: Y	]N U
	nt ID No.: 2CV01PA					
	ent Class: (5) Horizor		· .			
	scription: 'PUMP,2A		L CHARGING ASM	BLY .		
Interaction Effects	<u> </u>					
7. Are soft targe	ets free from impact by	y nearby equipr	nent or structures?			Yes
	· ·					
	d equipment, distribution ck walls not likely to co	•		g, and		Yes
Masonry wa	alls are seismic and wo	ould not collaps	e on equipment.			
	· •					
9. Do attached	lines have adequate fi	exibility to avoi	d damage?		·	Yes
					_	
					• .	
	e above seismic interactive se		ns, is equipment free	e of		Yes
Other Adverse Con	ditions				· ·	
	oked for and found no a	adverse seismi	c conditions that cou	uld		Yes
adversely af	fect the safety function	is of the equipn	nent?			1
	ì				· · ·	
	·					
<u>Comments</u> Seismic walkdown te	am M. Delaney & P. G	Gazda 8/20/12 p	om			
	Mailere MA	ulany				
Evaluated by:			Marlene Delaney	Date:	10/5/2012	
	C.U. Mayor	h Philip Ga	zda		10/5/2012	

Status: Y N U

# Seismic Walkdown Checklist (SWC)

Equipment ID No.:	2CV01PA	
Equipment Class:	(5) Horizontal Pumps	
Equipment Description:	PUMP,2A CENTRIFUGAL CHARGING ASMBLY	



2CV01PA Byron 1 & 2 8-20-12 076



2CV01PA Byron 1 & 2 8-20-12 077

	Status: Y N U
Seismic Walkdown Checklist (SWC)	
Equipment ID No.: 2CV112E	
Equipment Class: (8) Motor-Operated and Solenoid-Operated Valves	
Equipment Description: RWST TO CHG PMPS SUCT VLV C/S AT 2PM05J ASMBL	Y
Project: Byron 2 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?	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	it (SWC)	Status: Y N U
Equipment ID No.	2CV112E	
Equipment Class	(8) Motor-Operated and Solenoid-Operated Valves	
Equipment Description	RWST TO CHG PMPS SUCT VLV C/S AT 2PM05J ASM	1BLY
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		
-	nd found no adverse seismic conditions that could afety functions of the equipment?	Yes

# **Comments**

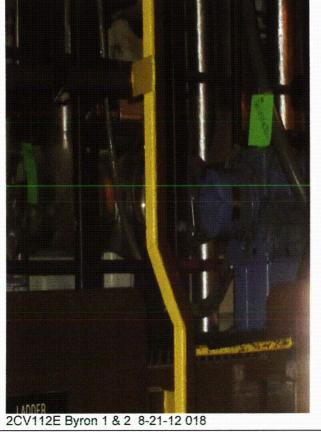
Seismic Walkdown Team M. Delaney & P. Gazda 8/21/12 am

	Mailere Malery		
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.:	2CV112E
Equipment Class:	(8) Motor-Operated and Solenoid-Operated Valves
Equipment Description:	RWST TO CHG PMPS SUCT VLV C/S AT 2PM05J ASMBLY





2CV112E Byron 1 & 2 8-21-12 019

# Status: Y N U Seismic Walkdown Checklist (SWC) Equipment ID No.: 2CV8105 Equipment Class: (8) Motor-Operated and Solenoid-Operated Valves Equipment Description: CHG LINE CNMT ISOL VLV C/S AT 2PM05J ASMBLY Project: Byron 2 SWEL Location (Bldg, Elev, Room/Area): Auxiliary, 375.00 ft, ALL Manufacturer/Model: Instructions for Completing Checklist This checklist may be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments. Anchorage 1. Is anchorage configuration verification required (i.e., is the item one of the 50% No of SWEL items requiring such verification)? 2. Is the anchorage free of bent, broken, missing or loose hardware? Not Applicable 3. Is the anchorage free of corrosion that is more than mild surface oxidation? Not Applicable 4. Is the anchorage free of visible cracks in the concrete near the anchors? Not Applicable 5. Is the anchorage configuration consistent with plant documentation? (Note: Not Applicable This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) 6. Based on the above anchorage evaluations, is the anchorage free of Yes potentially adverse seismic conditions?

Seismic	Walkdown Checklist	(SWC)	Status: YNU
	Equipment ID No.:	2CV8105	
	Equipment Class:	(8) Motor-Operated and Solenoid-Operated Valves	
, E	quipment Description:	CHG LINE CNMT ISOL VLV C/S AT 2PM05J ASMBLY	
Interact	ion Effects		
7. /	Are soft targets free from	m 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
	Based on the above sei potentially adverse seis	smic interaction evaluations, is equipment free of mic interaction effects?	Yes
Other A	dverse 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 M. Delaney & P. Gazda 8/21/12 am

	Mailere M Selesy	
Evaluated by:	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.: 2CV8105	
Equipment Class: (8) Motor-Operated and Solenoid-Operated Valves	3
Equipment Description: CHG LINE CNMT ISOL VLV C/S AT 2PM05J ASM	IBLY



2CV8105 Byron 1 & 2 8-21-12 021

٠

Seismic Walkdown Checklis	t (SWC)	Status: Y N U
Equipment ID No.:		
	(8) Motor-Operated and Solenoid-Operated Valves	
Equipment Description:		I ASMBLY
Proj	ect: Byron 2 SWEL	
Location (Bldg, Elev, Room/Are	ea): Auxiliary, 364.00 ft, ALL	
Manufacturer/Mo	del:	
SWEL. The space below each findings. Additional space is p	<b>Checklist</b> document the results of the Seismic Walkdown of an item of n of the following questions may be used to record the results rovided at the end of this checklist for documenting other cor	s of judgments and
Anchorage 1. Is anchorage configura	ation verification required (i.e., is the item one of the 50%	No
of SWEL items requirir		
2. Is the anchorage free	of bent, broken, missing or loose hardware?	Not Applicable
3. Is the anchorage free	of corrosion that is more than mild surface oxidation?	Not Applicable
4. Is the anchorage free	of visible cracks in the concrete near the anchors?	Not Applicable
	guration consistent with plant documentation? (Note: lies if the item is one of the 50% for which an anchorage on is required.)	Not Applicable
<ol> <li>Based on the above an potentially adverse sei</li> </ol>	nchorage evaluations, is the anchorage free of smic conditions?	Yes

,

-

-

\_

Seismic Walkdown Checklis	t (SWC)	NU
Equipment ID No.:	2CV8804A	
Equipment Class:	(8) Motor-Operated and Solenoid-Operated Valves	
Equipment Description:	RH HX 2A TO CV PMP SUCT ISOL VLV; C/S AT 2PM06J ASMBLY	
Interaction Effects		
7. Are soft targets free fre	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 afety functions of the equipment? <i>issues</i>	Yes
Comments		
Seismic Walkdown Team M. D	Delaney & P. Gazda 8/21/12 am	
Evaluated by:	Marlene Delaney Date: 10/5/2012	

Status: Y N U

# Seismic Walkdown Checklist (SWC)

Equipment ID No.:	2CV8804A
Equipment Class:	(8) Motor-Operated and Solenoid-Operated Valves
Equipment Description:	RH HX 2A TO CV PMP SUCT ISOL VLV; C/S AT 2PM06J ASMBLY



2CV8804A Byron 1 & 2 8-21-12 012

Status: Y N	1 U
Seismic Walkdown Checklist (SWC)	
Equipment ID No.: 2DC02E	
Equipment Class: (15) Batteries on Racks	
Equipment Description: 125V DC BATT 212	
Project: Byron 2 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 an 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-0-3391AY Revision B</li> </ol>	Yes
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	Yes

C-107

,

Seismic Walkdowr	n Checklist (SWC)	Status: Y N
Equipme	ent ID No.: 2DC02E	
Equipm	nent Class: (15) Batteries on Racks	<b></b>
Equipment D	Description: 125V DC BATT 212	
Interaction Effects		
7. Are soft tar	gets free from impact by nearby equipment or structures?	Yes
masonry blo Chain hun all S-hooks	ad equipment, distribution systems, ceiling tiles and lighting, and ock walls not likely to collapse onto the equipment? In g lights appear to have closed S-hooks. IR 1399385 written since cannot be seen from the floor and may be open. Lights would not ipment based on that they are double chained.	
	d lines have adequate flexibility to avoid damage?	Ye
	ne above seismic interaction evaluations, is equipment free of adverse seismic interaction effects?	Yes
Other Adverse Co		
•	boked for and found no adverse seismic conditions that could ffect the safety functions of the equipment?	Yes
	·	

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

	Mailere M Selesy		
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.:	2DC02E		
Equipment Class:	(15) Batteries on Racks	anta da caracteria de la composición de	
Equipment Description:	125V DC BATT 212		

**Photos** 



2DC02E Byron 1 & 2 036



2DC02E Byron 1 & 2 037

Status: Y N U

# Seismic Walkdown Checklist (SWC)

Equipment ID No .:	2DC02E	
Equipment Class:	(15) Batteries on Racks	
Equipment Description:	125V DC BATT 212	



2DC02E Byron 1 & 2 038

# Status: Y N U

# Seismic Walkdown Checklist (SWC)

Equipment ID No.:	2DC03E	
Equipment Class:	(16) Battery Chargers and Inverters	
Equipment Description:	BATTERY CHARGER 211 DIV. 21	
Proj	ject: Byron 2 SWEL	
Location (Bldg, Elev, Room/Ar	rea): Auxiliary, 451.00 ft, ALL	
Manufacturer/Mo	odel:	
Instructions for Completing	Checklist	
SWEL. The space below each	document the results of the Seismic Walkdown of an item of equipment on h of the following questions may be used to record the results of judgments provided at the end of this checklist for documenting other comments.	
<u>Anchorage</u>	· _	
<ol> <li>Is anchorage configuration 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
Adjacent small crack	(northwest corner) - not a structural/seismic issue	
-		Yes
<ol><li>Based on the above a potentially adverse se</li></ol>	inchorage evaluations, is the anchorage free of ismic conditions?	Yes

	Status: Y N U
Seismic Walkdown Checklist (SWC)	
Equipment ID No.: 2DC03E	
Equipment Class: (16) Battery Chargers and Inverters	
Equipment Description: BATTERY CHARGER 211 DIV. 21	
Interaction Effects	
7. Are soft targets free from impact by nearby equipment or structures?	Yes
	4
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and	Yes
masonry block walls not likely to collapse onto the equipment?	
Nearby masonry wall is 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?	
2DC03E is not bolted to adjacent panel 2DC05E. Per Operations, no relays	
or other electrical components whose position could change during a seismic event are contained in either cabinet.	· .
Other Adverse Conditions	
11. Have you looked for and found no adverse seismic conditions that could adversely affect the apfect functions of the aguinment?	Yes
adversely affect the safety functions of the equipment?	

## Comments

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

	Mailere M Seleny		5.4	10/5/00 10
Evaluated by:		Marlene Delaney	_ Date:	10/5/2012
	C.C. Mych Philip C	Sazda		10/5/2012
			_	

Status:	Y	N U

# Seismic Walkdown Checklist (SWC)

Equipment ID No.:	2DC03E
Equipment Class:	(16) Battery Chargers and Inverters
Equipment Description:	BATTERY CHARGER 211 DIV. 21



2DC03E Byron 1 & 2 014

Status: Seismic Walkdown Checklist (SWC)	Y N U
Equipment ID No.: 2DC04E Equipment Class: (16) Battery Chargers and Inverters	
Equipment Description: BATTERY CHARGER 212 DIV. 22	
Project: Byron 2 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 equipmen SWEL. The space below each of the following questions may be used to record the results of judgm 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
	2.1
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</li> </ol>	Yes
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	Yes

Seismic Walkdown Checklist (SWC)	Status: Y N U
Equipment ID No.: 2DC04E	
Equipment Class: (16) Battery Chargers and Inverters	· · ·
Equipment Description: BATTERY CHARGER 212 DIV. 22	
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? Adjacent cabinet 2DC06E is not bolted to 2DC04E however per Operations, no relays or other electrical components whose position could change during a seismic event are contained in either cabinet.	Yes
Other Adverse Conditions	
11. Have you looked for and found no adverse seismic conditions that could adversely affect the safety functions of the equipment?	Yes

### **Comments**

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

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

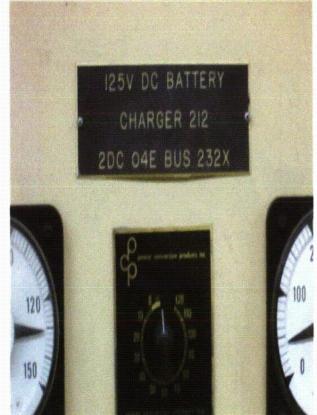
C-115

		1
Status:	Y	NU

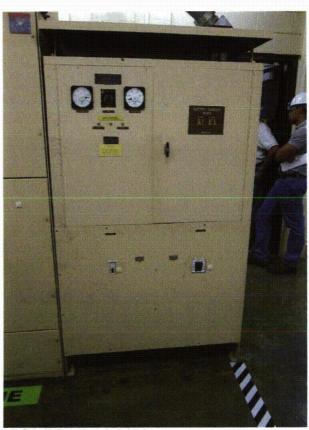
#### Seismic Walkdown Checklist (SWC)

Equipment ID No.:	2DC04E	
Equipment Class:	(16) Battery Chargers and Inverters	
Equipment Description:	BATTERY CHARGER 212 DIV. 22	

**Photos** 



2DC04E Byron 1 & 2 030



2DC04E Byron 1 & 2 031

	P
Status:	N II
otatus.	

#### Seismic Walkdown Checklist (SWC)

Equipment ID No .:	2DC04E
Equipment Class:	(16) Battery Chargers and Inverters
Equipment Description:	BATTERY CHARGER 212 DIV. 22



2DC04E Byron 1 & 2 032

Seiemie Mellydeum Cheeldiet (SMC)	Status: Y N U
Seismic Walkdown Checklist (SWC)	
Equipment ID No.: 2DC05E	
Equipment Class: (15) Batteries on Racks	
Equipment Description: 125V DC ESF DIST CENTER 211	<b>_</b>
Project: Byron 2 SWEL	
Location (Bldg, Elev, Room/Area): Auxiliary, 452.00 ft, ALL	
Manufacturer/Model:	
Instructions for Completing Checklist	
This checklist may be used to document the results of the Seismic Walkdown of an item of ea SWEL. The space below each of the following questions may be used to record the results of findings. Additional space is provided at the end of this checklist for documenting other comm	of judgments and
Anchorage	
<ol> <li>Is anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?</li> </ol>	Yes
2. Is the anchorage free of bent, broken, missing or loose hardware?	Yes
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	Yes
Only mild corrosion - not a structural/seismic issue since anchorage configuration is maintained.	
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</li> </ol>	Yes
<ul> <li>Weld exceeds drawing specified weld detail</li> <li>Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?</li> </ul>	Yes

\_

Seismic Walkdown Checklis	t (SWC)	Status: Y N U
Equipment ID No.:		
Equipment Class:	(15) Batteries on Racks	
Equipment Description:	125V DC ESF DIST CENTER 211	
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
potentially adverse se Adjacent cabinets 2L however per Operatio	eismic interaction evaluations, is equipment free of ismic interaction effects? DC03E and 2DC05E do not appear to be bolted together ns, no relays or other electrical components whose during a seismic event are contained in either cabinet.	Yes
Other Adverse Conditions		· · · · · · · · · · · · · · · · · · ·
•	nd found no adverse seismic conditions that could afety functions of the equipment?	Yes

# **Comments**

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

Evaluated by:	Marlene 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 .:	2DC05E	
Equipment Class:	(15) Batteries on Racks	n an the state of the
Equipment Description:	125V DC ESF DIST CENTER 211	a Marijeno - Cin - Aline Angeler and Angeler a seasan and an angeler and an angeler angeler angeler angeler ange Marijeno - Cin - Aline Angeler a



Seismic Walkdown Checklist	(SWC)	Status: Y N U
Equipment ID No.:	2DC05E	
Equipment Class:	(15) Batteries on Racks	
Equipment Description:	125V DC ESF DIST CENTER 211	

Status: Y N	U
Equipment ID No.: 2DC06E	
Equipment Class: (15) Batteries on Racks	
Equipment Description: 125V DC ESF DIST CENTER 212	
Project: Byron 2 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% of SWEL items requiring such verification)?</li> </ol>	(es
2. Is the anchorage free of bent, broken, missing or loose hardware?	ſes
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	(es
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: Y 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>	ſes
<ol> <li>Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?</li> </ol>	res

.

.

Seism	ic Walkdown Checklist	(SWC)	Status: Y N U
	Equipment ID No.:	2DC06E	
	Equipment Class:	(15) Batteries on Racks	
	Equipment Description:	125V DC ESF DIST CENTER 212	
Intera	ction Effects		
7.	Are soft targets free fro	m impact by nearby equipment or structures?	Yes
8.	masonry block walls no	nt, distribution systems, ceiling tiles and lighting, and 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.	potentially adverse seis Adjacent panel 2DC0	ismic interaction evaluations, is equipment free of mic interaction effects? #E is not bolted to 2DC06E. Per operations neither therefore this is acceptable.	Yes
Other	Adverse Conditions		
11.	•	d found no adverse seismic conditions that could ety functions of the equipment?	Yes

# **Comments**

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

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.:	2DC06E	
Equipment Class:	(15) Batteries on Racks	
Equipment Description:	125V DC ESF DIST CENTER 212	

Photos



2DC06E Byron 1 & 2 025



2DC06E Byron 1 & 2 026

Status: Y N U

## Seismic Walkdown Checklist (SWC)

Equipment ID No.:	2DC06E
Equipment Class:	(15) Batteries on Racks
Equipment Description:	125V DC ESF DIST CENTER 212
2DC06E Byron 1 & 2 027	

Seismic Walkdown Checklist (SWC)	N U
Equipment ID No.: 2DC06EA	
Equipment Class: (14) Distribution Panels	<u> </u>
Equipment Description: 125V DC ESF DIST PNL 212	
Project: Byron 2 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 th SWEL. The space below each of the following questions may be used to record the results of judgments ar 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 Part of 2DC06E 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)	Status: Y N U
	Equipment ID No.: 2DC06EA	
	Equipment Class: (14) Distribution Panels	
Eq	uipment Description: 125V DC ESF DIST PNL 212	
Interactio	on Effects	
7. A	re soft targets free from impact by nearby equipment or structures?	Yes
m	are overhead equipment, distribution systems, ceiling tiles and lighting nasonry block walls not likely to collapse onto the equipment? Masonry walls are seismic and would not collapse on adjacent equip	
9. D	o attached lines have adequate flexibility to avoid damage?	Yes
	Based on the above seismic interaction evaluations, is equipment free otentially adverse seismic interaction effects?	e of Yes
Other Ad	Iverse Conditions	
11. H	lave you looked for and found no adverse seismic conditions that cou dversely affect the safety functions of the equipment?	uld Yes

# **Comments**

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

Evaluated by:	Mailere M Sel	Marlene Delaney	Date:	10/5/2012
	C.a. Mych			10/5/2012
	<b>_</b>			

Status: Y N U

### Seismic Walkdown Checklist (SWC)

Equipment ID No.:	2DC06EA	
Equipment Class:	(14) Distribution Panels	
Equipment Description:	125V DC ESF DIST PNL 212	

Photos



Byron 1 & 2 029 2DC06EA

Seismic Walkdown Checklist (SWC)	itatus: YNU
Equipment ID No.: 2DC10J	
Equipment Class: (14) Distribution Panels	
Equipment Description: 125V DC FUSE PANEL - DIV. 21	
Project: Byron 2 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 equ SWEL. The space below each of the following questions may be used to record the results of j findings. Additional space is provided at the end of this checklist for documenting other comme	udgments 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
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-0-3391E Revision AT Panel is well-anchored. Anchor spacing varies from drawing but anchor size of 5/8" requires a minimum spacing of 7 1/2" per DCS 24.1.2 Revision 1, the as-built spacing of 9" is greater than the minimum spacing and is acceptable.	Yes
<ol> <li>Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?</li> </ol>	Yes

Seismic Walkdown Checklist	(SWC)	Status: Y	N U
Equipment ID No.:	2DC10J		
Equipment Class:	(14) Distribution Panels		
Equipment Description:	125V DC FUSE PANEL - DIV. 21		
Interaction Effects			
7. Are soft targets free fro	m impact by nearby equipment or structures?		Yes
		· .	
	nt, distribution systems, ceiling tiles and lighting, and t likely to collapse onto the equipment?		Yes
	· · · · · · · · · · · · · · · · · · ·		
9. Do attached lines have	adequate flexibility to avoid damage?		Yes
			ф
	ismic interaction evaluations, is equipment free of smic interaction effects?		Yes
······			
			•
Other Adverse Conditions	·		
-	d found no adverse seismic conditions that could		Yes
adversely affect the sa	fety functions of the equipment?		1
-	s are contained at base and at top with grips. Riser is		
acceptable.	nd bottom - not a structural/seismic issue and is		
Small, hairline cracks a	re not a structural/seismic issue.		
<u>Comments</u> Seismic walkdown team M. De	aney & P. Gazda 8/6/12 am, 8/8/12 am		
Mailes	u Maleny		
Evaluated by:	Marlene Delaney Date:	10/5/2012	
G.0.		10/5/2012	

Seismic Walkdown Checklist	(SWC)	Status: Y N U
Equipment ID No.:	2DC10J	
Equipment Class:	(14) Distribution Panels	
Equipment Description:	125V DC FUSE PANEL - DIV. 21	



Status: Y N U

## Seismic Walkdown Checklist (SWC)

(14) Distribution Panels	
125V DC FUSE PANEL - DIV. 21	
í	



Status: Y	]N U
Seismic Walkdown Checklist (SWC)	-
Equipment ID No.: 2DG01KA	
Equipment Class: (17) Engine-Generators	
Equipment Description: 2A DIESEL GENERATOR SKID	
Project: Byron 2 SWEL	
Location (Bldg, Elev, Room/Area):Auxiliary, 401.00 ft, ALL	
Manufacturer/Model:	
Instructions for Completing Checklist This checklist may be used to document the results of the Seismic Walkdown of an item of equipment on 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 M-1222 Sheet 8 Revision J</li> </ol>	Yes
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	Yes
	•

.

C-133

Seismic Walkdown Checklist	(SWC)	Status: Y N U
Equipment ID No.:	2DG01KA	
Equipment Class:	(17) Engine-Generators	
Equipment Description:	2A DIESEL GENERATOR SKID	
Interaction Effects		
7. Are soft targets free fro	m impact by nearby equipment or structures?	Yes
	nt, distribution systems, ceiling tiles and lighting, and It 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		· · · · · ·
adversely affect the sa	nd found no adverse seismic conditions that could fety functions of the equipment? <i>structural/seismic issue</i>	Yes

### **Comments**

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

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

.

Status: Y N U

#### Seismic Walkdown Checklist (SWC)

Equipment ID No.:	2DG01KA
Equipment Class:	(17) Engine-Generators
Equipment Description:	2A DIESEL GENERATOR SKID



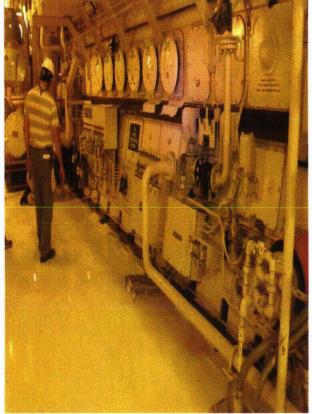


2DG01KA Byron 1 & 2 219

Status: Y N U

## Seismic Walkdown Checklist (SWC)

Equipment ID No .:	2DG01KA		 a teta attice	
Equipment Class:	(17) Engine-Generators			
Equipment Description:	2A DIESEL GENERATOR SKID			



2DG01KA Byron 1 & 2 220

Seismic Walkdown Checklist (SWC)	Status: Y N U
Equipment ID No.: 2DO01TA	
Equipment Class: (21) Tanks and Heat Exchangers	
Equipment Description: DIESEL OIL STORAGE TANK	
Project: Byron 2 SWEL	
Location (Bldg, Elev, Room/Area): Auxiliary, 373.00 ft, ALL	۰
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
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
Very minor cracks in grout wash does not penetrate into grout or base slab. Not a structural/seismic issue.	
<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 M-1214 Sheet 3 Revision W</li> </ol>	Yes
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	Yes

\_

\_

Seismic Walkdown Checklist	(SWC)	Status: Y N U
Equipment ID No.:	2D001TA	
	(21) Tanks and Heat Exchangers	· ·
Equipment Description:	DIESEL OIL STORAGE TANK	· ·
Interaction Effects	· ·	
7. Are soft targets free fro	m impact by nearby equipment or structures?	Yes
	nt, distribution systems, ceiling tiles and lighting, and t likely to collapse onto the equipment?	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 11. Have you looked for an	d found no adverse seismic conditions that could	Yes
•	fety functions of the equipment?	. · ·
Comments		
Evaluated by:	the che	10/5/2012

.

٠

Status: Y N U

#### Seismic Walkdown Checklist (SWC)

\_

,

Equipment ID No.:	2DO01TA
Equipment Class:	(21) Tanks and Heat Exchangers
Equipment Description:	DIESEL OIL STORAGE TANK
<u>Photos</u>	
None.	

C-139

Seismic Walkdown Checklist (SWC)	tatus: YNU
Equipment ID No.: 2FC004A	
Equipment Class: (0) Other Equipment Description: SPENT FUEL PIT HX TUBE SIDE VENT VALVE	
Project:       Byron 2 SWEL         Location (Bldg, Elev, Room/Area):       FH, 401.00 ft, ALL	
Manufacturer/Model:	
Instructions for Completing Checklist	
This checklist may be used to document the results of the Seismic Walkdown of an item of equi SWEL. The space below each of the following questions may be used to record the results of j findings. Additional space is provided at the end of this checklist for documenting other comme	udgments 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

.

Seismic Walkdown Checklist	(SWC)	YNU
Equipment ID No.:	2FC004A	
Equipment Class:		
	SPENT FUEL PIT HX TUBE SIDE VENT VALVE	
Interaction Effects	· · · · · · · · · · · · · · · · · · ·	
7. Are soft targets free fro	m impact by nearby equipment or structures?	Yes
masonry block walls no	nt, distribution systems, ceiling tiles and lighting, and ot likely to collapse onto the equipment? smic and will not collapse on adjacent 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	······································	
11. Have you looked for an	d found no adverse seismic conditions that could fety functions of the equipment?	Yes
<u>Comments</u>		,
Seismic walkdown team M. De	aney & P. Gazda 8/9/12 am	
	Le Malery	
Evaluated by:	Marlene Delaney Date: 10/5/2012	

Philip Gazda

Evaluated by:

C.U. Mych

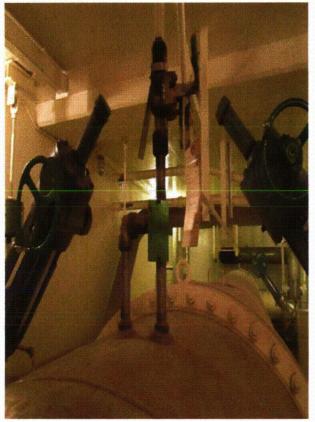
.

10/5/2012

Status: Y N U

### Seismic Walkdown Checklist (SWC)

Equipment ID No .:	2FC004A
Equipment Class:	(0) Other
Equipment Description:	SPENT FUEL PIT HX TUBE SIDE VENT VALVE



2FC004A Byron 1 & 2 8-9-12 037

Status:	Υ	N	υ

### Seismic Walkdown Checklist (SWC)

Equipment ID No.: _2FC004B	
Equipment Class: (0) Other	
Equipment Description: SPENT FUEL PIT HX SHELL SIDE VENT	
Project: Byron 2 SWEL	
Location (Bldg, Elev, Room/Area): FH, 401.00 ft, ALL	_
Manufacturer/Model:	
Instructions for Completing Checklist	
This checklist may be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.	
Anchorage	
<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 Applicab	le
3. Is the anchorage free of corrosion that is more than mild surface oxidation? Not Applicab	le
4. Is the anchorage free of visible cracks in the concrete near the anchors? Not Applicab	le
<ol> <li>Is the anchorage configuration consistent with plant documentation? (Note: Not Applicab This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)</li> </ol>	le
<ol> <li>Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?</li> </ol>	əs

-----

		Status: Y	N U
Seismic Walkdown Checklist	t (SWC)		
Equipment ID No.:	2FC004B		
Equipment Class:	(0) Other		
Equipment Description:	SPENT FUEL PIT HX SHELL SIDE VENT		
Interaction Effects	· · · · · · · · · · · · · · · · · · ·		
7. Are soft targets free from	om impact by nearby equipment or structures?		Yes
			·
masonry block walls no	ent, distribution systems, ceiling tiles and lighting, and ot likely to collapse onto the equipment?		Yes
wasonry wans are se	ismic and would not collapse on adjacent equipment	:	
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	. · · · ·		,
	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 8/9/12 am		
Evaluated by:	Marlene Delaney Date: 1	10/5/2012	

C. U. Mych Philip Gazda

Οy

10/5/2012

Status: Y N U

## Seismic Walkdown Checklist (SWC)

Equipment ID No .:	2FC004B
Equipment Class:	(0) Other
Equipment Description:	SPENT FUEL PIT HX SHELL SIDE VENT



2FC004B Byron 1 & 2 8-9-12 049

Status: Y N U

Equipment ID No.: 2F	C005	
Equipment Class: (0)	) Other	
Equipment Description: SF	PENT FUEL PIT PMP CASING DRN VALVE	
Project:	Byron 2 SWEL	
Location (Bldg, Elev, Room/Area):	FH, 401.00 ft, ALL	
Manufacturer/Model:		
Instructions for Completing Chee	cklist	
SWEL. The space below each of the	ment the results of the Seismic Walkdown of an item of he following questions may be used to record the results led at the end of this checklist for documenting other con	of judgments and
Anchorage		
<ol> <li>Is anchorage configuration of SWEL items requiring su</li> </ol>	verification required (i.e., is the item one of the 50% uch verification)?	No
2. Is the anchorage free of be	ent, broken, missing or loose hardware?	Not Applicable
3. Is the anchorage free of co	rrosion that is more than mild surface oxidation?	Not Applicable
4. Is the anchorage free of vis	sible cracks in the concrete near the anchors?	Not Applicable
<b>.</b>	tion consistent with plant documentation? (Note: if the item is one of the 50% for which an anchorage required.)	Not Applicable
<ol> <li>Based on the above ancho potentially adverse seismic</li> </ol>	rage evaluations, is the anchorage free of conditions?	Yes

		Status: Y N U
Seismic Walkdown Che		
	No.: 2FC005	
	lass: (0) Other	0
	tion: SPENT FUEL PIT PMP CASING DRN VALVE	
Interaction Effects 7. Are soft targets f	ee from impact by nearby equipment or structures?	Yes
	ipment, distribution systems, ceiling tiles and lighting, and	Yes
masonry block w	alls not likely to collapse onto the equipment?	•
9. Do attached line:	have adequate flexibility to avoid damage?	Yes
	ve seismic interaction evaluations, is equipment free of e seismic interaction effects?	Yes
Other Adverse Condition	ns	
-	for and found no adverse seismic conditions that could he safety functions of the equipment?	Yes
Comments Seismic walkdown team	/I. Delaney & P. Gazda 8/9/12 am	
Evaluated by:	Marlene Delaney Dat	e: 10/5/2012
G	U. Mych Philip Gazda	10/5/2012

C-147

Status: Y N U

### Seismic Walkdown Checklist (SWC)

Equipment ID No .:	2FC005
Equipment Class:	(0) Other
Equipment Description:	SPENT FUEL PIT PMP CASING DRN VALVE



2FC005 Byron 1 & 2 8-9-12 030

Seismic Walkdown Checklist (SWC)	tatus: YNU
Equipment ID No.: 2FC006	
Equipment Class: (0) Other	
Equipment Description: SPENT FUEL PIT PMP CASING VENT VALVE	<u> </u>
Project: Byron 2 SWEL	
Location (Bldg, Elev, Room/Area): FH, 401.00 ft, ALL	
Manufacturer/Model:	
Instructions for Completing Checklist	•
This checklist may be used to document the results of the Seismic Walkdown of an item of equi SWEL. The space below each of the following questions may be used to record the results of j findings. Additional space is provided at the end of this checklist for documenting other comme	udgments 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

Seismic Walkdown Che	akliat (SWC)				Status: Y	]N U
	No.: 2FC006					
	lass: (0) Other					
Equipment Descrip	otion: SPEN1	-UEL PIT PMI	CASING VENT	VALVE		
Interaction Effects 7. Are soft targets fr	ee from impact	by nearby equ	ipment or structu	res?		Yes
8. Are overhead equ	Jipment, distribu	ition systems,	ceiling tiles and li	ghting, and		Yes
masonry block wa						
9. Do attached lines	have adequate	flexibility to av	void damage?			Yes
10. Based on the abo potentially advers			ions, is equipmer	nt free of		Yes
Other Adverse Conditio	ns					
11. Have you looked adversely affect the No structural/set	for and found no he safety functio			at could		Yes
wo structurd/set	1911110 199009					
Comments Seismic walkdown team M	M. Delaney & P.	Gazda 8/9/12	am			
Evaluated by:	ulere M	Sileny	Marlene Delar	nev Date:	10/5/2012	

Philip Gazda

÷

ivaluated by.

C.U. Mych

10/5/2012

Status: Y N U

#### Seismic Walkdown Checklist (SWC)

Equipment ID No.:	2FC006
Equipment Class:	(0) Other
Equipment Description:	SPENT FUEL PIT PMP CASING VENT VALVE



2FC006 Byron 1 & 2 8-9-12 032

Seismic Walkdown Checklist	(SWC)	Status: Y N U
Equipment ID No.: Equipment Class:		<u> </u>
• •	SFP FLT DEMIN LOOP RTRN TO U-2 REFUEL CAV CM	
Proje		
Location (Bldg, Elev, Room/Are		
Manufacturer/Mod		
Instructions for Completing C		
This checklist may be used to d 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 resul ovided at the end of this checklist for documenting other co	Its 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% g such verification)?	No
2. Is the anchorage free of	bent, broken, missing or loose hardware?	Not Applicable
3. Is the anchorage free of	f corrosion that is more than mild surface oxidation?	Not Applicable
4. Is the anchorage free of	f visible cracks in the concrete near the anchors?	Not Applicable
÷ -	uration consistent with plant documentation? (Note: es if the item is one of the 50% for which an anchorage n is required.)	Not Applicable
<ol> <li>Based on the above an potentially adverse seis</li> </ol>	chorage evaluations, is the anchorage free of mic conditions?	Yes

\_

\_

							Status: YNU	
Seismi	c Walkdown	Checklist	(SWC)					
	Equipme	nt ID No.:	2FC011					
	Equipm	ent Class:	(0) Other					•
E	Equipment De	- escription:	SFP FLT DEM		RTRN TO U-2 RE	EFUEL CAV CI	NMT ISOL VALVE	•
Interac	tion Effects		, `		· · ·			
7.	Are soft targ	ets free fror	n impact by nea	arby equipr	nent or structures	s?	Yes	
		sues. Clea	rances are rela		and to prevent sp for potential pipe			
8.			nt, distribution sy t likely to collaps		ling tiles and ligh equipment?	iting, and	Yes	
9.	Do attached	lines have	adequate flexib	ility to avoid	d damage?		Yes	
						,		
10.			smic interaction mic interaction (		ns, is equipment f	free of	Yes	
Other /	Adverse Con	ditions						
11.	adversely af	fect the safe	d found no adve ety functions of d at penetration	the equipm		could	Yes	
Comm	ents							_
Seismi	c walkdown te	eam M. Dela	aney & P. Gazd	a 8/21/12 a	im			
Evalua	ted by:		e Mail	Ť	Marlene Delane	y Date: _	10/5/2012	-
	-	6.0.	Thyon	Philip Ga	zda	<u> </u>	10/5/2012	_

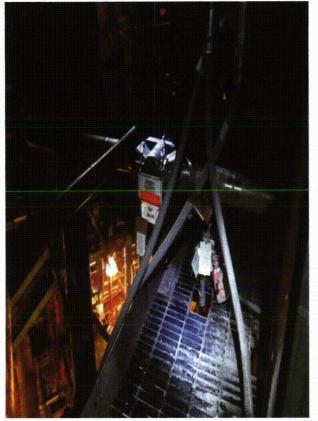
.

C-153

Status: Y N U

### Seismic Walkdown Checklist (SWC)

Equipment ID No .:	2FC011
Equipment Class:	(0) Other
Equipment Description:	SFP FLT DEMIN LOOP RTRN TO U-2 REFUEL CAV CNMT ISOL VALVE



2FC011 Byron 1 & 2 8-21-12 024

· · · ·	Status: Y N U
Seismic Walkdown Checklist (SWC)	
Equipment ID No.: 2FC01A	
Equipment Class: (0) Other	
Equipment Description: SPENT FUEL PIT HEAT EXCHANGER	
Project: Byron 2 SWEL	
Location (Bldg, Elev, Room/Area): FH, 401.00 ft, ALL	• • • •
Manufacturer/Model:	
Instructions for Completing Checklist	
This checklist may be used to document the results of the Seismic Walkdown of an item of 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	X
<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
	Vaa
<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>	Yes
configuration verification is required.)	
Drawing M-1219 Sheet 3 Revision AH	
6. Based on the above anchorage evaluations, is the anchorage free of	Yes
potentially adverse seismic conditions?	

			Status: Y N U
Seism	ic Walkdown Checklis	st (SWC)	
	Equipment ID No.	2FC01A	
	Equipment Class	(0) Other	
	Equipment Description	SPENT FUEL PIT HEAT EXCHANGER	-
	ction Effects		
7.	Are soft targets free fr	om impact by nearby equipment or structures?	Yes
8.		ent, distribution systems, ceiling tiles and lighting, and	Yes
		not likely to collapse onto the equipment? Deismic and would not collapse on adjacent equipment	
9.	Do attached lines how	a adaguata flovibility to avoid domogo?	Yes
Э.	Do allached intes hav	e adequate flexibility to avoid damage?	165
			د
10.		eismic interaction evaluations, is equipment free of issue interaction effects?	Yes
			. •
Other	Adverse Conditions	· · ·	· · ·
<u>0111</u>		nd found no adverse seismic conditions that could	Yes
	-	afety functions of the equipment?	
		· · · ·	
			•
Comm		· ·	
Seismi	ic walkdown team M. D	elaney & P. Gazda 8/9/12 am	
	Ma.O.	AL ALAJean	
	, hure	NE Marlesy	
Evalua	ited by:	Marlene Delaney Date: 10/5/	/2012
	(4.0	. Jhyoh Philip Gazda 10/5/	/2012

----

\_

\_

Status:	V	NI	11
Status.		IN	U

## Seismic Walkdown Checklist (SWC)

Equipment ID No .:	2FC01A	
Equipment Class:	(0) Other	
	SPENT FUEL PIT HEAT EXCHANGER	



2FC01A Byron 1 & 2 8-9-12 051

Seismic Walkdown Checklist (SWC)	Status: Y N U
Equipment ID No.: 2FC01P	
Equipment Class: (5) Horizontal Pumps	
Equipment Description: PUMP,SPENT FUEL PIT 12X14-14	
Project: Byron 2 SWEL	, .
Location (Bldg, Elev, Room/Area): FH, 401.00 ft, ALL	
Manufacturer/Model:	
Instructions for Completing Checklist	
This checklist may be used to document the results of the Seismic Walkdown of an item of equilable 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
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-1219 Sheet 3 Revision AH	Yes
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	Yes

Seismic Walkdown Checklist (SWC)	Status: Y N U
Equipment ID No.: 2FC01P	
Equipment Class: (5) Horizontal Pumps	
Equipment Description: PUMP,SPENT FUEL PIT 12X14-14	
Interaction Effects	
7. Are soft targets free from impact by nearby equipment or structures?	Yes
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and	Yes
masonry block walls not likely to collapse onto the equipment? Masonry walls are seismic and would not collapse on adjacent 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	
11. Have you looked for and found no adverse seismic conditions that could adversely affect the safety functions of the equipment?	Yes
<u>Comments</u> Seismic walkdown team M. Delaney & P. Gazda 8/9/12 am	
Mailere M Selary	

Evaluated by:

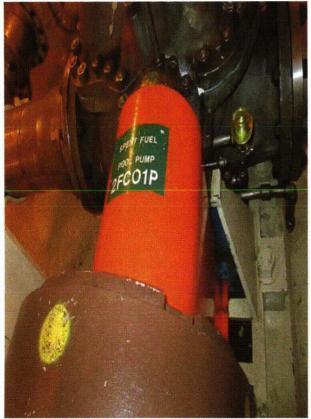
· :

Marlene Delaney Date: 10/5/2012 C.U. March Philip Gazda 10/5/2012

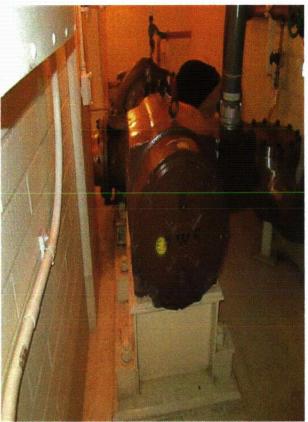
Status: Y N U

# Seismic Walkdown Checklist (SWC)

Equipment ID No.:	2FC01P
Equipment Class:	(5) Horizontal Pumps
Equipment Description:	PUMP,SPENT FUEL PIT 12X14-14



2FC01P Byron 1 & 2 8-9-12 026



2FC01P Byron 1 & 2 8-9-12 027

Byron Generating Station Unit 2 12Q0108.20-R-002 Rev. 1 Correspondence No.: RS-12-161 Sheet 4 of 4

Status: Y N U

## Seismic Walkdown Checklist (SWC)

Equipment ID No.:	2FC01P
Equipment Class:	(5) Horizontal Pumps
Equipment Description:	PUMP,SPENT FUEL PIT 12X14-14



2FC01P Byron 1 & 2 8-9-12 028

	Status: Y N U
Seismic Walkdown Checklist (SWC)	
Equipment ID No.: _2FC022	
Equipment Class: (0) Other	
Equipment Description: SPENT FUEL PIT PMP SUCT INST ISOL TO 2PI-633	VALVE
Project: Byron 2 SWEL	
Location (Bldg, Elev, Room/Area):FH, 401.00 ft, ALL	
Manufacturer/Model:	
Instructions for Completing Checklist	
This checklist may be used to document the results of the Seismic Walkdown of an iten SWEL. The space below each of the following questions may be used to record the resultings. Additional space is provided at the end of this checklist for documenting other	sults 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

\_

\_

Byron Generating Station Unit 2 12Q0108.20-R-002 Rev. 1 Correspondence No.: RS-12-161 Sheet 2 of 3

Colomia Malladaum	Charlint	(6)14(6)					Status: Y	NU
Seismic Walkdown								
	nt ID No.:							<b> </b>
Equipme	ent Class:							
Equipment De	scription:	SPENT FUEL	. PIT PMP	SUCT INST IS	SOL TO 2F	1-633 VAI	VE	
Interaction Effects 7. Are soft targe	ets free fro	m impact by ne	arby equip	oment or struc	tures?			Yes
masonry blo	ck walls no	nt, distribution s t likely to collap smic and would	ose onto th	e equipment?				Yes
9. Do attached	lines have	adequate flexit	bility to ave	oid damage?				Yes
		ismic interactio mic interaction		ons, is equipm	ent free of			Yes
Other Adverse Con	ditions			······				
•		d found no adv ety functions of			that could			Yes
Comments								
Seismic walkdown te	am M. Del	aney & P. Gazo	da 8/9/12 a	am .				
Evaluated by:		e Mart	Philip G	Marlene Del azda	aney		0/5/2012 0/5/2012	

Byron Generating Station Unit 2 12Q0108.20-R-002 Rev. 1 Correspondence No.: RS-12-161 Sheet 3 of 3

Status: Y N U

### Seismic Walkdown Checklist (SWC)

Equipment ID No .:	2FC022
Equipment Class:	(0) Other
Equipment Description:	SPENT FUEL PIT PMP SUCT INST ISOL TO 2PI-633 VALVE



2FC022 Byron 1 & 2 8-9-12 054

Colombo Malladoum Chaolaltat (OMC		Status: Y N U
Seismic Walkdown Checklist (SWC	•)	
Equipment ID No.: 2FC	8756	
Equipment Class: (0) C	Other	
Equipment Description: SPE	NT FUEL PIT PMP SUCTION VALVE	
Project: _I	Byron 2 SWEL	· · · · · · · · · · · · · · · · · · ·
Location (Bldg, Elev, Room/Area): _	FH, 401.00 ft, ALL	
Manufacturer/Model:	· · · ·	
SWEL. The space below each of the	<b>list</b> ent the results of the Seismic Walkdown of an item of following questions may be used to record the results d at the end of this checklist for documenting other co	s of judgments 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)?	No
2. Is the anchorage free of bent	, broken, missing or loose hardware?	Not Applicable
3. Is the anchorage free of corro	osion that is more than mild surface oxidation?	Not Applicable
4. Is the anchorage free of visib	le cracks in the concrete near the anchors?	Not Applicable
	n consistent with plant documentation? (Note: he item is one of the 50% for which an anchorage equired.)	Not Applicable
<ol><li>Based on the above anchora potentially adverse seismic c</li></ol>	ge evaluations, is the anchorage free of onditions?	Yes

111

-----

\_\_\_\_

Byron Generating Station Unit 2 12Q0108.20-R-002 Rev. 1 Correspondence No.: RS-12-161 Sheet 2 of 3

Seismic Walkdown Checklis	t (SWC)	Status: Y N U
Equipment ID No.:	2FC8756	
Equipment Class:	(0) Other	<u></u> , <u></u> ,
Equipment Description:	SPENT FUEL PIT PMP SUCTION VALVE	
Interaction Effects		
7. Are soft targets free from	om impact by nearby equipment or structures?	Yes
masonry block walls no	ent, distribution systems, ceiling tiles and lighting, and ot likely to collapse onto the equipment? <i>ismic and would not collapse on adjacent equipment</i>	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		í
•	nd found no adverse seismic conditions that could fety functions of the equipment?	Yes

# **Comments**

Seismic walkdown team M. Delaney & P. Gazda 8/9/12 am

Evaluated by:	Mailere M Selesy	Marlene Delaney	Date:	10/5/2012
,	C.O. Mych Philip	Gazda	_	10/5/2012
	<u> </u>		<b></b> .	

Byron Generating Station Unit 2 12Q0108.20-R-002 Rev. 1 Correspondence No.: RS-12-161 Sheet 3 of 3

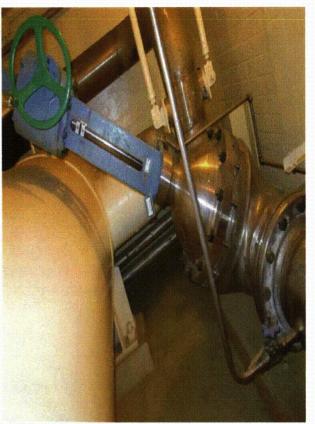
Status: Y N U

## Seismic Walkdown Checklist (SWC)

Equipment ID No .:	2FC8756
Equipment Class:	(0) Other
Equipment Description:	SPENT FUEL PIT PMP SUCTION VALVE



2FC8756 Byron 1 & 2 8-9-12 046



2FC8756 Byron 1 & 2 8-9-12 047

Seismic Walkdown Checklist (SWC)	St	atus: YNU
Equipment ID No.: 2FC8757		
Equipment Class: (0) Other		
Equipment Description: SPENT FUEL PIT PM	MP SUCT INST ROOT TO 2PI-633 VALVE	Ξ
Project: Byron 2 SWEL		
Location (Bldg, Elev, Room/Area): FH, 401.00 ft, AL	.L	
Manufacturer/Model:		
Instructions for Completing Checklist		
This checklist may be used to document the results of SWEL. The space below each of the following question findings. Additional space is provided at the end of the following the space of the space space.	ons may be used to record the results of ju	udgments and
Anchorage		
<ol> <li>Is anchorage configuration verification require of SWEL items requiring such verification)?</li> </ol>	d (i.e., is the item one of the 50%	No
2. Is the anchorage free of bent, broken, missing	g or loose hardware?	Not Applicable
3. Is the anchorage free of corrosion that is more	e than mild surface oxidation?	Not Applicable
4. Is the anchorage free of visible cracks in the c	concrete near the anchors?	Not Applicable
<ol> <li>Is the anchorage configuration consistent with This question only applies if the item is one of configuration verification is required.)</li> </ol>		Not Applicable
<ol> <li>Based on the above anchorage evaluations, is potentially adverse seismic conditions?</li> </ol>	s the anchorage free of	Yes

\_

\_

\_

Seismic Walkdown Checkli	et (SWC)	Status: Y N U
Equipment ID No		
Equipment Class		
	SPENT FUEL PIT PMP SUCT INST ROOT TO 2PI-633 V/	ALVE
Interaction Effects		
7. Are soft targets free t	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 ha	e adequate flexibility to avoid damage?	Yes
	eismic interaction evaluations, is equipment free of sismic interaction effects?	Yes
÷	and found no adverse seismic conditions that could afety functions of the equipment? <i>c issues</i>	Yes
Comments		· · · · · · · · · · · · · · · · · · ·
<u></u>	elaney & P. Gazda 8/9/12 am	·
Evaluated by:	. Inch	0/5/2012 0/5/2012

Byron Generating Station Unit 2 12Q0108.20-R-002 Rev. 1 Correspondence No.: RS-12-161 Sheet 3 of 3

Status: Y N U

## Seismic Walkdown Checklist (SWC)

Equipment ID No .:	2FC8757
Equipment Class:	(0) Other
Equipment Description:	SPENT FUEL PIT PMP SUCT INST ROOT TO 2PI-633 VALVE



2FC8757 Byron 1 & 2 8-9-12 035

Seismic Walkdown Checklist (SWC)	Status: Y N U
Equipment ID No.: 2FC8758	
Equipment Class: (0) Other	
Equipment Description: REFUELING WTR PURIF PMP SUCT FROM U-2 RWST	
Project: Byron 2 SWEL	<u> </u>
Location (Bldg, Elev, Room/Area): Auxiliary, 364.00 ft, ALL	<u> </u>
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 corr	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

· · · ·

Byron Generating Station Unit 2 12Q0108.20-R-002 Rev. 1 Correspondence No.: RS-12-161 Sheet 2 of 3

Seism	ic Walkdown Checklis	t (SWC)		Status: Y N U	J
	Equipment ID No.:	2FC8758			
	Equipment Class:	(0) Other			
	Equipment Description:	REFUELING WTR PURIF PMP SUCT FROM	U-2 RWST		-
Interac	ction Effects				
7.	Are soft targets free free	om impact by nearby equipment or structures?		Yes	
8.		nt, distribution systems, ceiling tiles and lighting ot likely to collapse onto the equipment?	, and	Yes	
	• •	`.			
9.	Do attached lines have	adequate flexibility to avoid damage?		Yes	
				· · · · · · · · · · · · · · · · · · ·	
10.		eismic interaction evaluations, is equipment free smic interaction effects?	of	Yes	
		· · · · · · · · · · · · · · · · · · ·			
-	Adverse Conditions				
11.	-	nd found no adverse seismic conditions that coul fety functions of the equipment? <i>issues</i>	ld ·	Yes	
<u>Comm</u> Seismi		laney & P. Gazda 8/21/12 am			
	Maile	Le Malany			
Evalua	ited by:	Marlene Delaney	Date:	10/5/2012	_
	G.0	. Jingch Philip Gazda		10/5/2012	

•

Byron Generating Station Unit 2 12Q0108.20-R-002 Rev. 1 Correspondence No.: RS-12-161 Sheet 3 of 3

Status: Y N U

## Seismic Walkdown Checklist (SWC)

Equipment ID No.:	2FC8758
Equipment Class:	(0) Other
Equipment Description:	REFUELING WTR PURIF PMP SUCT FROM U-2 RWST



2FC8758 Byron 1 & 2 8-21-12 023



2FC8758 Byron 1 & 2 8-21-12 022

Seismic Walkdown Checklist	t (SWC)	Status: Y N U
Equipment ID No.:	2FC8762A	
	(21) Tanks and Heat Exchangers	· · · · · · · · · · · · · · · · · · ·
Equipment Description:	SPENT FUEL PIT HX INLET VALVE	
Proj	ect: Byron 2 SWEL	
Location (Bldg, Elev, Room/Are	ea): FH, 401.00 ft, ALL	
Manufacturer/Mo	del:	·
SWEL. The space below each findings. Additional space is p	Checklist document the results of the Seismic Walkdown of an item o of the following questions may be used to record the resul rovided at the end of this checklist for documenting other co	ts of judgments and
Anchorage 1. Is anchorage configura of SWEL items requirir	ation verification required (i.e., is the item one of the 50% ng such verification)?	No
2. Is the anchorage free of	of bent, broken, missing or loose hardware?	Not Applicable
3. Is the anchorage free o	of corrosion that is more than mild surface oxidation?	Not Applicable
4. Is the anchorage free of	of visible cracks in the concrete near the anchors?	Not Applicable
	guration consistent with plant documentation? (Note: lies if the item is one of the 50% for which an anchorage on is required.)	Not Applicable
<ol><li>Based on the above ar potentially adverse seis</li></ol>	nchorage evaluations, is the anchorage free of smic conditions?	Yes

.

.

Byron Generating Station Unit 2 12Q0108.20-R-002 Rev. 1 Correspondence No.: RS-12-161 Sheet 2 of 3

Seisn	nic Walkdown Checklist	(SWC)	Status: Y N U
	Equipment ID No.:	2FC8762A	
	Equipment Class:	(21) Tanks and Heat Exchangers	
	Equipment Description:	SPENT FUEL PIT HX INLET VALVE	
Intera	iction 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 adjacent 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
Other	r Adverse Conditions		
11.	adversely affect the sal	d found no adverse seismic conditions that could ety functions of the equipment? ched to valve. Leak not active. Not a structural/seismic	Yes

## **Comments**

Seismic walkdown team M. Delaney & P. Gazda 8/9/12 am

Evoluted by:	Mailere M S.	Juny	Norlana Dalanav	Data:	10/5/2012	
Evaluated by:			Marlene Delaney	Date:	10/5/2012	_
	C.U. Mych	Philip (	Gazda		10/5/2012	
	· · · ·			_		

Byron Generating Station Unit 2 12Q0108.20-R-002 Rev. 1 Correspondence No.: RS-12-161 Sheet 3 of 3

Status: Y N U

#### Seismic Walkdown Checklist (SWC)

Equipment ID No.:	2FC8762A	
Equipment Class:	(21) Tanks and Heat Exchangers	
Equipment Description:	SPENT FUEL PIT HX INLET VALVE	



2FC8762A Byron 1 & 2 8-9-12 039

Byron Generating Station Unit 2 12Q0108.20-R-002 Rev. 1 Correspondence No.: RS-12-161 Sheet 1 of 3

Status: Y N U	U
Equipment ID No.: 2FC8762B	_
Equipment Class: (0) Other Equipment Description: SPENT FUEL PIT HX OUTLET VALVE	<u> </u>
Project: Byron 2 SWEL	
Location (Bldg, Elev, Room/Area): FH, 401.00 ft, ALL	
Manufacturer/Model:	_
Instructions for Completing Checklist	
This checklist may be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.	
Anchorage	
<ol> <li>Is anchorage configuration verification required (i.e., is the item one of the 50% No of SWEL items requiring such verification)?</li> </ol>	)
2. Is the anchorage free of bent, broken, missing or loose hardware? 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	)
<ul> <li>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.)</li> </ul>	•
6. Based on the above anchorage evaluations, is the anchorage free of Yes potentially adverse seismic conditions?	;

•

\_

\_

Byron Generating Station Unit 2 12Q0108.20-R-002 Rev. 1 Correspondence No.: RS-12-161 Sheet 2 of 3

Calam			Status: Y N U
Seism	ic Walkdown Checklist	(SWC)	
	Equipment ID No .:	2FC8762B	
	Equipment Class:	(0) Other	
	Equipment Description:	SPENT FUEL PIT HX OUTLET VALVE	
Intera	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
		smic and would not collapse on adjacent equipment	
9.	Do attached lines have	adequate flexibility to avoid damage?	Yes
10.		ismic interaction evaluations, is equipment free of smic interaction effects?	Yes
<u>Other</u>	Adverse Conditions		
11.		nd found no adverse seismic conditions that could fety functions of the equipment? <i>issues</i>	Yes
Comn			
Seism	ic walkdown team M. De	laney & P. Gazda 8/9/12 am	

Evaluated by:	Mailere M S	( <b>1</b> )	Date <sup>.</sup>	10/5/2012	
Evaluated by:	C.U. Magel	Marlene Delaney Philip Gazda	Date:	10/5/2012	<u> </u>

C-178

Byron Generating Station Unit 2 12Q0108.20-R-002 Rev. 1 Correspondence No.: RS-12-161 Sheet 3 of 3

.

Status: Y N U

## Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2FC8762B

Equipment Class: (0) Other

#### Equipment Description: SPENT FUEL PIT HX OUTLET VALVE

Photos

None.

Seismic Walkdown Checklist	(SWC)	Status: Y N U
Equipment ID No.:		
Equipment Class:		
	· · · · · · · · · · · · · · · · · · ·	
Equipment Description:	SPENT FUEL PIT HX TUBE SIDE DRN VALVE	
Proj		
Location (Bldg, Elev, Room/Are		·
Manufacturer/Mod		
SWEL. The space below each	Checklist document the results of the Seismic Walkdown of an item of e of the following questions may be used to record the results rovided at the end of this checklist for documenting other com	of judgments and
<u>Anchorage</u>		
<ol> <li>Is anchorage configura of SWEL items requirir</li> </ol>	ation verification required (i.e., is the item one of the 50% ng such verification)?	No
2. Is the anchorage free of	of bent, broken, missing or loose hardware?	Not Applicable
3. Is the anchorage free of	of corrosion that is more than mild surface oxidation?	Not Applicable
4. Is the anchorage free of the second secon	of visible cracks in the concrete near the anchors?	Not Applicable
	guration consistent with plant documentation? (Note: lies if the item is one of the 50% for which an anchorage on is required.)	Not Applicable
<ol> <li>Based on the above ar potentially adverse seis</li> </ol>	nchorage evaluations, is the anchorage free of smic conditions?	Yes

12Q0108.20-R-002 Rev. 1 Correspondence No.: RS-12-161 Sheet 2 of 3

Seismi	ic Walkdown Checklist	(SWC)	Status: Y N U
	Equipment ID No.:		
	Equipment Class:	(0) Other	
	Equipment Description:	SPENT FUEL PIT HX TUBE SIDE DRN VALVE	- · · · · · · · · · · · · · · · · · · ·
Interac	ction Effects	· · · · · · · · · · · · · · · · · · ·	
7.	Are soft targets free fro	m impact by nearby equipment or structures?	Yes
8.	Are overhead equipme	nt, distribution systems, ceiling tiles and lighting, and	Yes
	-	t likely to collapse onto the equipment? smic and would not collapse on adjacent equipment	
9.	Do attached lines have	adequate flexibility to avoid damage?	Yes
10.		ismic interaction evaluations, is equipment free of mic interaction effects?	Yes
Othor	Adverse Conditions		
	Have you looked for an	d found no adverse seismic conditions that could ety functions of the equipment?	Yes

## **Comments**

-

Seismic walkdown team M. Delaney & P. Gazda 8/9/12 am

	Marlere M Selary		
Evaluated by:	Marlene Dela	aney Date:	10/5/2012
	C. C. Mych Philip Gazda		10/5/2012

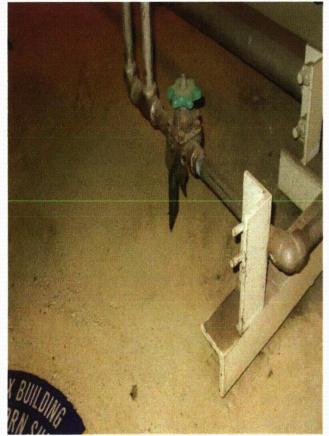
12Q0108.20-R-002 Rev. 1 Correspondence No.: RS-12-161 Sheet 3 of 3

Status: Y N U

## Seismic Walkdown Checklist (SWC)

Equipment ID No.:	2FC8792A
Equipment Class:	(0) Other
Equipment Description:	SPENT FUEL PIT HX TUBE SIDE DRN VALVE

### **Photos**



# 2FC8792A Byron 1 & 2 8-9-12 043

Seismic Walkdown Checklist (	SWC)	Status: Y N U
Equipment ID No.: 2		
Equipment Class: (		
	SPENT FUEL PIT HX SHELL SIDE DRN VALVE	
Projec	t: Byron 2 SWEL	
Location (Bldg, Elev, Room/Area)	): FH, 401.00 ft, ALL	
Manufacturer/Mode	l:	
Instructions for Completing Ch	ecklist	
SWEL. The space below each of	cument the results of the Seismic Walkdown of an item of the following questions may be used to record the resulvided at the end of this checklist for documenting other c	Its of judgments and
<u>Anchorage</u>		
<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)?	No
2. Is the anchorage free of I	bent, broken, missing or loose hardware?	Not Applicable
3. Is the anchorage free of the second secon	corrosion that is more than mild surface oxidation?	Not Applicable
		:
4. Is the anchorage free of	visible cracks in the concrete near the anchors?	Not Applicable
•••	ration consistent with plant documentation? (Note: is if the item is one of the 50% for which an anchorage is required.)	Not Applicable
<ol><li>Based on the above ancl potentially adverse seism</li></ol>	horage evaluations, is the anchorage free of nic conditions?	Yes

\_\_\_\_\_

12Q0108.20-R-002 Rev. 1 Correspondence No.: RS-12-161 Sheet 2 of 3

Seismic Walkdown Checklist	t (SWC)	Status: Y N	U
Equipment ID No.:	2FC8792B		
Equipment Class:		,	
Equipment Description:		·	_
Interaction Effects			
7. Are soft targets free fro	om impact by nearby equipment or structures?	Ye	S
· · · · ·	nt, distribution systems, ceiling tiles and lighting, and ot likely to collapse onto the equipment?	Ye	S
· · ·			•
9. Do attached lines have	adequate flexibility to avoid damage?	Ye	s
		,	
· · ·			
	sismic interaction evaluations, is equipment free of smic interaction effects?	Ye	S
		· · ·	
Other Adverse Conditions			
	nd found no adverse seismic conditions that could	Ye	s
No structural/seismic	fety functions of the equipment? issues	· · ·	
<u>Comments</u> Seismic walkdown team M. Del	laney & P. Gazda 8/9/12 am		
· <b>\</b>	u Malany		
Evaluated by:	Marlene Delaney Date:	10/5/2012	
G.0.	hyph Philip Gazda	10/5/2012	

12Q0108.20-R-002 Rev. 1 Correspondence No.: RS-12-161 Sheet 3 of 3

Status: Y N U

# Seismic Walkdown Checklist (SWC)

Equipment ID No.:	2FC8792B	
Equipment Class:	(0) Other	
Equipment Description:	SPENT FUEL PIT HX SHELL SIDE DRN VALVE	
1		



2FC8792B Byron 1 & 2 8-9-12 045

12Q0108.20-R-002 Rev. 1 Correspondence No.: RS-12-161 Sheet 1 of 3

Seismic Walkdown Checklis	t (SWC)	Status: Y N U
Equipment ID No.:		
Equipment Class:		
Equipment Description:		·
····	ject: Byron 2 SWEL	
Location (Bldg, Elev, Room/Ar	ea): FH, 401.00 ft, ALL	
Manufacturer/Mc	odel:	
Instructions for Completing	Checklist	
SWEL. The space below each	document the results of the Seismic Walkdown of an item on n of the following questions may be used to record the result provided at the end of this checklist for documenting other car	Its of judgments and
Anchorage	· ·	
<ol> <li>Is anchorage configuration of SWEL items requiring the second seco</li></ol>	ation verification required (i.e., is the item one of the 50% ng 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
-	iguration consistent with plant documentation? (Note: blies if the item is one of the 50% for which an anchorage on is required.)	Not Applicable
<ol> <li>Based on the above a potentially adverse se</li> </ol>	nchorage evaluations, is the anchorage free of ismic conditions?	Yes

.

.

12Q0108.20-R-002 Rev. 1 Correspondence No.: RS-12-161 Sheet 2 of 3

Seismic Walkdown Checklist	(SWC)	Status: Y N U
Equipment ID No.:	2FC8793	
Equipment Class:	(0) Other	
Equipment Description:	SPENT FUEL PIT PMP DISCH CHECK VALVE	· · · · · · · · · · · · · · · · · · ·
Interaction Effects		
7. Are soft targets free from	m impact by nearby equipment or structures?	Yes
	nt, distribution systems, ceiling tiles and lighting, and t likely to collapse onto the equipment?	Yes
Masonry walls are seis	smic and would not collapse on adjacent equipment	
9. Do attached lines have	adequate flexibility to avoid damage?	Yes
10. Based on the above se potentially adverse seis	ismic interaction evaluations, is equipment free of mic interaction effects?	Yes
Other Adverse Conditions		
-	d found no adverse seismic conditions that could ety functions of the equipment? <i>ssues</i>	Yes
Comments		
Seismic walkdown team M. Del	aney & P. Gazda 8/9/12 am	
Mailer	1 ALAILAN	

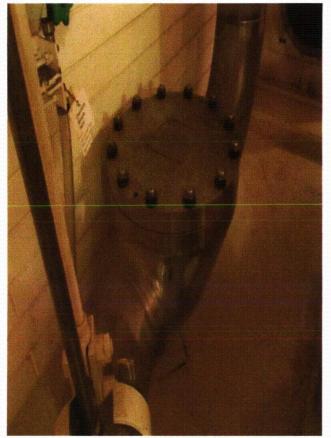
Evaluated by: Marlene Delaney Date: 10/5/2012
C.C. March Philip Gazda 10/5/2012

12Q0108.20-R-002 Rev. 1 Correspondence No.: RS-12-161 Sheet 3 of 3

Status:	V	NI II
Status.		N U

## Seismic Walkdown Checklist (SWC)

Equipment ID No.:	2FC8793
Equipment Class:	(0) Other
Equipment Description:	SPENT FUEL PIT PMP DISCH CHECK VALVE



2FC8793 Byron 1 & 2 8-9-12 034

		Status: Y N U
Seismic Walkdown Checklist	t (SWC)	
Equipment ID No.:	2FT-AF012	
Equipment Class:	(18) Instruments on Racks	
Equipment Description:	AF TO SG 2A FLOW TRANSMITTER	
Proj	ect: Byron 2 SWEL	
Location (Bldg, Elev, Room/Are	ea): Auxiliary, 364.00 ft, ALL	
Manufacturer/Mo	del:	
SWEL. The space below each findings. Additional space is pr	Checklist document the results of the Seismic Walkdown of an item of n of the following questions may be used to record the result rovided at the end of this checklist for documenting other co	ts of judgments and
Anchorage		
<ol> <li>Is anchorage configura of SWEL items requirir</li> </ol>	ation verification required (i.e., is the item one of the 50%	No
	of bent, broken, missing or loose hardware? of corrosion that is more than mild surface oxidation?	Not Applicable Not Applicable
	of visible cracks in the concrete near the anchors?	Not Applicable
	guration consistent with plant documentation? (Note: lies if the item is one of the 50% for which an anchorage on is required.)	Not Applicable
potentially adverse sei	nchorage evaluations, is the anchorage free of smic conditions? y attached to Rack 2PL84JB which is well-braced and	Yes

\_\_\_\_

12Q0108.20-R-002 Rev. 1 Correspondence No.: RS-12-161 Sheet 2 of 3

		Status: Y N U
Seismic Walkdo	wn Checklist (SWC)	· ·
Equip	oment ID No.: 2FT-AF012	<u>.</u>
Equip	pment Class: (18) Instruments on Racks	
Equipment	t Description: AF TO SG 2A FLOW TRANSMITTER	
Interaction Effec		
7. Are soft ta	argets free from impact by nearby equipment or structures?	Yes
•		
	head equipment, distribution systems, ceiling tiles and lighting, and block walls not likely to collapse onto the equipment?	Yes
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		
•	I looked for and found no adverse seismic conditions that could affect the safety functions of the equipment?	Yes
Comments		· · · · · · · · · · · · · · · · · · ·
Seismic walkdowr	n team M. Delaney & P. Gazda 8/20/12 pm	
	Mailere M Selesy	0/5/2012
Evaluated by:	Marlene Delaney Date: 1	0/5/2012
	C.C. March Philip Gazda 1	0/5/2012

.

.

.

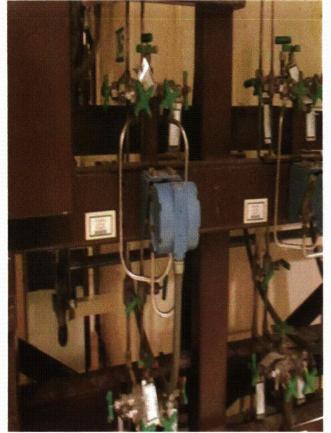
12Q0108.20-R-002 Rev. 1 Correspondence No.: RS-12-161 Sheet 3 of 3

Status: Y N U

## Seismic Walkdown Checklist (SWC)

Equipment ID No.:	2FT-AF012		1.5. States, street Same Links	
Equipment Class:	(18) Instruments on Racks			
Equipment Description:	AF TO SG 2A FLOW TRANSMITTER			

### **Photos**



## 2FT-AF012 Byron 1 & 2 8-20-12 069

12Q0108.20-R-002 Rev. 1 Correspondence No.: RS-12-161 Sheet 1 of 3

	Status: Y N U
Seismic Walkdown Checklist (SWC)	
Equipment ID No.: 2IP02E	
Equipment Class: (4) Transformers	
Equipment Description: INSTRUMENT BUS 212 TRANSFORMER - DIV. 22	
Project: Byron 2 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 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

12Q0108.20-R-002 Rev. 1 Correspondence No.: RS-12-161 Sheet 2 of 3

		Status: Y N U
Seismic Walkdown Checklis	t (SWC)	
Equipment ID No.:	2IP02E	
Equipment Class:	(4) Transformers	
Equipment Description:	INSTRUMENT BUS 212 TRANSFORMER - DIV. 22	
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
-	ismic and would not collapse on adjacent equipment	
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		
	nd found no adverse seismic conditions that could afety functions of the equipment?	Yes
<u>Comments</u> Seismic walkdown team M. Delaney & P. Gazda 8/6/12 am		
Maile	re M Selesy	

Evaluated by:

Calle hande		
C. U. Myon	Philip Gazda	10/5/2012

Marlene Delaney

Date: 10/5/2012

12Q0108.20-R-002 Rev. 1 Correspondence No.: RS-12-161 Sheet 3 of 3

N U

		Status:	Y
Seismic Walkdown Checklist	(SWC)		<u> </u>
Equipment ID No.:	2IP02E		
Equipment Class:	(4) Transformers		
Equipment Description:	INSTRUMENT BUS 212 TRANSFORMER - DIV. 22		



2IP02E Byron 1 & 2 022



2IP02E Byron 1 & 2 023

Status: Y N U

## Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2IP05E			
Equipment Class: (16) Battery Chargers and Inverters			
Equipment Description: INSTRUMENT BUS 211 INVERTER - DIV. 21			
Project: Byron 2 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% 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:	Yes		
This question only applies if the item is one of the 50% for which an anchorage			
configuration verification is required.) <i>Drawing 6E-0-3391C Revision BE</i>			
6. Based on the above anchorage evaluations, is the anchorage free of	Yes		
potentially adverse seismic conditions?			

.

12Q0108.20-R-002 Rev. 1 Correspondence No.: RS-12-161 Sheet 2 of 3

Saiamia Walkdown Chaeklist		Status: Y N U
Seismic Walkdown Checklist	· · ·	
Equipment ID No.:		
-	(16) Battery Chargers and Inverters	
	INSTRUMENT BUS 211 INVERTER - DIV. 21	. <u></u>
Interaction Effects	n impact by nearby equipment or structures?	Yes
	minipact by hearby equipment of structures:	
	t, distribution systems, ceiling tiles and lighting, and	Yes
	likely to collapse onto the equipment?	Yes
9. Do attached lines have	adequate flexibility to avoid damage?	
10. Based on the above sei potentially adverse seis	smic interaction evaluations, is equipment free of nic interaction effects?	Yes
Other Adverse Conditions	· · · · · · · · · · · · · · · · · · ·	
11. Have you looked for and	I found no adverse seismic conditions that could ety functions of the equipment?	Yes
<u>Comments</u>		
Seismic walkdown team M. Dela	ney & P. Gazda 8/6/12 am	
Evaluated by:	Marlene Delaney Da	te: 10/5/2012
<i>C.u.</i>	Shayola Philip Gazda	10/5/2012

.

.

Status:	Υ	Ν	U

# Seismic Walkdown Checklist (SWC)

Equipment ID No.:	2IP05E		_
Equipment Class:	(16) Battery Chargers and Inverters	,	
Equipment Description:	INSTRUMENT BUS 211 INVERTER - DIV. 21		
Photos			
None.			

Seismic Walkdown Checklist (SWC)	<u>N</u> U
Equipment ID No.: 2IP06E	
Equipment Class: (16) Battery Chargers and Inverters	
Equipment Description: INSTRUMENT BUS 212 INVERTER - DIV. 22	
Project: Byron 2 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 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 (anchorage visible through panel at base of equipment)</li> </ol>	Yes
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	Yes

Seismic	Walkdown Checklist	(SWC)	Status: Y N U
	Equipment ID No.:	2IP06E	
	Equipment Class:	(16) Battery Chargers and Inverters	
Ec	quipment Description:	INSTRUMENT BUS 212 INVERTER - DIV. 22	
Interacti	on Effects		
7. A	Are soft targets free fro	m impact by nearby equipment or structures?	Yes
	nasonry block walls no	nt, distribution systems, ceiling tiles and lighting, and t likely to collapse onto the equipment? smic and would not collapse on adjacent equipment	Yes
9. C		adequate flexibility to avoid damage?	Yes
		ismic interaction evaluations, is equipment free of mic interaction effects?	Yes
Other Ac	Iverse Conditions		
	•	d found no adverse seismic conditions that could ety functions of the equipment?	Yes

### **Comments**

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

Evaluated by:	Mailere M Se	luny	Marlene Delaney	Date:	10/5/2012
	C.C. Mych	Philip	· · · · ·		10/5/2012
	<b>y</b>		Gazua	<u> </u>	

Status: Y N U

# Seismic Walkdown Checklist (SWC)

Equipment ID No.:	2IP06E	
Equipment Class:	(16) Battery Chargers and Inverters	
Equipment Description:	INSTRUMENT BUS 212 INVERTER - DIV. 22	

**Photos** 



2IP06E Byron 1 & 2 033



2IP06E Byron 1 & 2 034

# Status: Y N U

# Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2IY-0606	
Equipment Class: (18) Instruments on Racks	
Equipment Description: RH HX 2A OUT I/P TRANSDUCER	
Project: Byron 2 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 SWEL. The space below each of the following questions may be used to record the res findings. Additional space is provided at the end of this checklist for documenting other	sults 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? Instrument is securely attached to Rack 2PL86J which is well-braced and anchored.	Yes

Seism	ic Walkdown Checklis	t (SWC)					Status:	YN	U
Ucigili	•								
	Equipment ID No.:								_
	Equipment Class:	(18) Instrument							
	Equipment Description:	RH HX 2A OU	T I/P TRAI	NSDUCER					
	ction Effects								
7.	Are soft targets free fr	om impact by nea	arby equip	ment or structu	res?		•	Ye	S
	·								
·									
-								×.	
8.	Are overhead equipmed masonry block walls n	-		-	ghting, ar	Id		Ye	S
								· .	
·	,								
9.	Do attached lines have	e adequate flexibi	lity to avoi	d damage?				Ye	s
		-							
10.	Based on the above s potentially adverse se			ns, is equipmer	nt free of			Ye	S
						•			
				• • •		•		-	
Other	Adverse Conditions								
<u>0</u> 01 11.	Have you looked for a	nd found no adve	rse seismi	ic conditions th	at could		•	Ye	s
	adversely affect the sa								-
•		,			· .				
		•							
Comm	<u>ients</u>								
Seismi	ic walkdown team M. De	laney & P. Gazda	a 8/20/12 <sub> </sub>	om			÷		
	Maile	re Marla	in the		<del></del> .				
Evalua	ited by:		$\cup$	Marlene Delar	ney [	Date:	10/5/2012		
	G.0	. Ingh	Philip Ga	zda			10/5/2012		
		· ¯	p Ou			_			

Seismic Walkdown Checklist	(SWC)	Status: Y N U
Equipment ID No.:	2IY-0606	
Equipment Class:	(18) Instruments on Racks	
Equipment Description:	RH HX 2A OUT I/P TRANSDUCER	

#### **Photos**



2IY0606 Byron 1 & 2 8-20-12 062



2IY0606 Byron 1 & 2 8-20-12 063

		Status: Y N U
Seismic Walkdown Checklist (SWC)		· · ·
Equipment ID No.: 2MS001C		
Equipment Class: (7) Fluid-Opera	ated Valves	
Equipment Description: MS ISOL VLV	LOOP 2C ASMBLY	
Project: Byron 2 SV	NEL	
Location (Bldg, Elev, Room/Area): Auxiliary, 3	377.00 ft, ALL	
Manufacturer/Model:		
Instructions for Completing Checklist This checklist may be used to document the res SWEL. The space below each of the following findings. Additional space is provided at the en	questions may be used to record the results	of judgments and
Anchorage		
<ol> <li>Is anchorage configuration verification r of SWEL items requiring such verification</li> </ol>	required (i.e., is the item one of the 50% on)?	No
2. Is the anchorage free of bent, broken, n	nissing or loose hardware?	Not Applicable
3. Is the anchorage free of corrosion that i	is more than mild surface oxidation?	Not Applicable
4. Is the anchorage free of visible cracks in	n the concrete near the anchors?	Not Applicable
<ol> <li>Is the anchorage configuration consiste This question only applies if the item is configuration verification is required.)</li> </ol>	ent with plant documentation? (Note: one of the 50% for which an anchorage	Not Applicable
6. Based on the above anchorage evaluat potentially adverse seismic conditions?	-	Yes

.

-

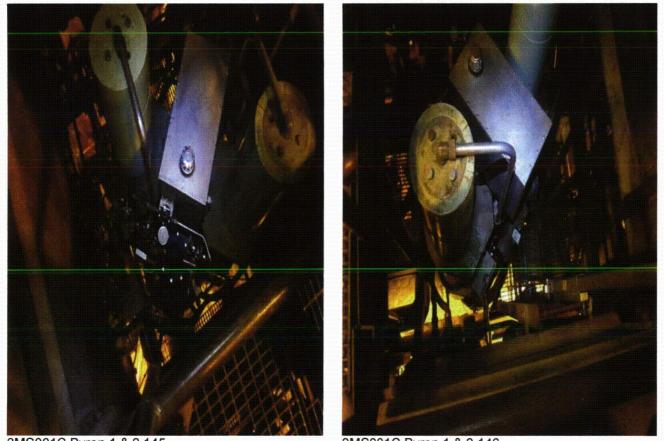
Seismi	c Walkdown Checklist (SWC)	Status: Y N U
	Equipment ID No.: 2MS001C	
	Equipment Class: (7) Fluid-Operated Valves	
E	Equipment Description: MS ISOL VLV LOOP 2C ASMBLY	
Interact	tion Effects	
7.	Are soft targets free from impact by nearby equipment or structures?	Yes
8.	Are overhead equipment, distribution systems, ceiling tiles and lighting, and	Yes
•	masonry block walls not likely to collapse onto the equipment?	
9.	Do attached lines have adequate flexibility to avoid damage?	Yes
9.	Do attached lines have adequate nexibility to avoid damage:	163
10.	Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	Yes
Other A	Adverse Conditions	
11.	Have you looked for and found no adverse seismic conditions that could	Yes
	adversely affect the safety functions of the equipment?	
	One bolt missing at accumulator (top of valve), typical for all valves of this type. Station personnel contacted and missing bolts are acceptable since they	
	are only used for rigging. Not a seismic/structural issue.	
	Degradation at expansion joint with containment wall (at ceiling)- not a	
	structural/seismic issue. The joints in question are made up of some sort of	
	compressible/flexible material. Since the containment structure is a	
	standalone structure and is analyzed and designed that way there is a gap	
	between it and an adjacent structure (like the MSIV rooms). The gap is sized	
	to allow seismic movements of each structure and is filled with the flexible material. The material is only there to close the opening and has no structural	
	or seismic significance.	
Comme		

•

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

					Status: Y N U
Seismic Walkdown C	hecklist	(SWC)			
Equipment	t ID No.:	2MS001C			
Equipmer	nt Class:	(7) Fluid-Operated Val	ves		
Equipment Des	cription:	MS ISOL VLV LOOP 2	CASMBLY		
Evaluated by:	· ·	MArlany March Philip C	Marlene Delaney Gazda	Date:	10/5/2012

Photos



2MS001C Byron 1 & 2 145

2MS001C Byron 1 & 2 146

Chatura		NI.	
Status:	T	IN	U

# Seismic Walkdown Checklist (SWC)

Equipment ID No.:	2MS001C
Equipment Class:	(7) Fluid-Operated Valves
Equipment Description:	MS ISOL VLV LOOP 2C ASMBLY



2MS001C Byron 1 & 2 147

Seismic Walkdown Cl	hecklist (SV	VC)	Status: Y N U
Equipment	ID No.: 21	<i>I</i> S018C	
		) Motor-Operated and Solenoid-Operated Valves	
Equipment Desc		G 2C PORV	
	Project:	Byron 2 SWEL	
Location (Bldg, Elev, R	oom/Area):	Auxiliary, 404.00 ft, ALL	
Manufacti	urer/Model:	·	
SWEL. The space belo	ised to docu ow each of t	cklist Iment the results of the Seismic Walkdown of an item of e he following questions may be used to record the results led at the end of this checklist for documenting other com	of judgments and
Anchorage	· · · · ·		
-	•	verification required (i.e., is the item one of the 50% uch verification)?	No
2. Is the anchorag	ge free of be	ent, broken, missing or loose hardware?	Not Applicable
3. Is the anchorag	ge free of co	rrosion that is more than mild surface oxidation?	Not Applicable
4. Is the anchora	ge free of vis	sible cracks in the concrete near the anchors?	Not Applicable
-	only applies	tion consistent with plant documentation? (Note: if the item is one of the 50% for which an anchorage required.)	Not Applicable
		rage evaluations, is the anchorage free of	Yes
potentially adve	erse seismic	conditions?	

Seismic Walkdown Checklist (SWC)	Status: Y N U
Equipment ID No.: 2MS018C	
Equipment ID No.: 2000 Bernoid-Operated Valves	
Equipment Description: S/G 2C PORV	
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	
Seismic walkdown team M. Delaney & P. Gazda 8/7/12 am	

\_

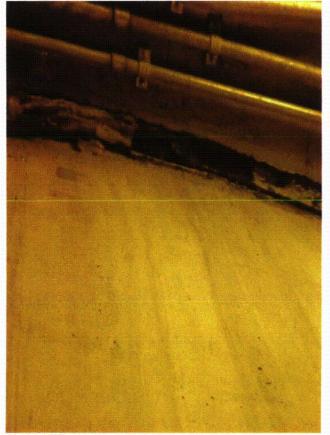
Evaluated by:	Mailine M Sile	Marlene Delaney	Date:	10/5/2012
	C.C. Mych		-	10/5/2012

Status: Y N U

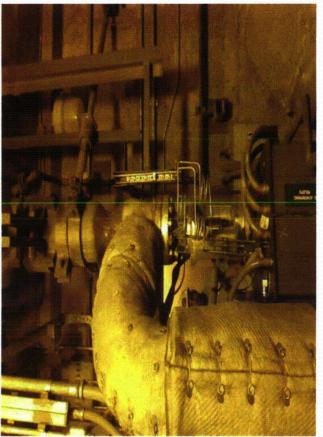
### Seismic Walkdown Checklist (SWC)

Equipment ID No .:	2MS018C
Equipment Class:	(8) Motor-Operated and Solenoid-Operated Valves
Equipment Description:	S/G 2C PORV

**Photos** 



2MS018C (DEGRADED ISO JOINT) Byron 1 & 2 143



2MS018C Byron 1 & 2 142

Status: Y N U

# Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2	MS018D	
Equipment Class: (8	) Motor-Operated and Solenoid-Operated Valves	
Equipment Description: S	/G 2D PORV ASMBLY	
Project:	Byron 2 SWEL	
Location (Bldg, Elev, Room/Area):	Auxiliary, 401.00 ft, ALL	
Manufacturer/Model:	· · · · · · · · · · · · · · · · · · ·	
Instructions for Completing Che	cklist	
SWEL. The space below each of	ument the results of the Seismic Walkdown of an item of e the following questions may be used to record the results ded at the end of this checklist for documenting other com	of judgments and
Anchorage		
<ol> <li>Is anchorage configuration of SWEL items requiring s</li> </ol>	n verification required (i.e., is the item one of the 50% uch verification)?	No
2. Is the anchorage free of be	ent, broken, missing or loose hardware?	Not Applicable
3. Is the anchorage free of co	prrosion that is more than mild surface oxidation?	Not Applicable
4. Is the anchorage free of vi	sible cracks in the concrete near the anchors?	Not Applicable
	ation consistent with plant documentation? (Note: if the item is one of the 50% for which an anchorage s required.)	Not Applicable
<ol> <li>Based on the above anchor potentially adverse seismic</li> </ol>	orage evaluations, is the anchorage free of conditions?	Yes

.

Salamia Malkdown Chaeklist (SMC)	Status: Y N U
Seismic Walkdown Checklist (SWC)	
Equipment ID No.: 2MS018D	
Equipment Class: (8) Motor-Operated and Solenoid-Operated	ated Valves
Equipment Description: S/G 2D PORV ASMBLY	······································
Interaction Effects	
7. Are soft targets free from impact by nearby equipment or structu	ires? Yes
8. Are overhead equipment, distribution systems, ceiling tiles and I masonry block walls not likely to collapse onto the equipment?	ighting, and Yes
9. Do attached lines have adequate flexibility to avoid damage?	Yes
10. Based on the above seismic interaction evaluations, is equipme potentially adverse seismic interaction effects?	nt free of Yes
	· · · · · · · · · · · · · · · · · · ·
Other Adverse Conditions	
11. Have you looked for and found no adverse seismic conditions th adversely affect the safety functions of the equipment?	nat could Yes
Comments	
Seismic walkdown team M. Delaney & P. Gazda 8/7/12 am	
Mailere M Selary	
Evaluated by: Marlene Dela	ney Date: 10/5/2012
C. C. Mayoh Philip Gazda	10/5/2012

Status: Y N U

### Seismic Walkdown Checklist (SWC)

 Equipment ID No.:
 2MS018D

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

 Equipment Description:
 S/G 2D PORV ASMBLY

#### **Photos**



2MS018D Byron 1 & 2 136



2MS018D Byron 1 & 2 137

Seismic Walkdown Checklist	(SWC)	Status: Y N U
Equipment ID No.:	2PA01J	
	(20) Instrumentation and Control Panels and Cabinets	· ·
Equipment Description:	CAB PROC I+C RACK PROT CH 1 0-3373B AB2	
Proj	ect: Byron 2 SWEL	
Location (Bldg, Elev, Room/Are	ea): Auxiliary, 451.00 ft, ALL	
Manufacturer/Mod	del:	
Instructions for Completing (	Checklist	
SWEL. The space below each	document the results of the Seismic Walkdown of an item of e of the following questions may be used to record the results rovided at the end of this checklist for documenting other com	of judgments and
Anchorage		
<ol> <li>Is anchorage configura of SWEL items requiring</li> </ol>	ition verification required (i.e., is the item one of the 50% og such verification)?	No
2. Is the anchorage free o	of bent, broken, missing or loose hardware?	Yes
3. Is the anchorage free of	of corrosion that is more than mild surface oxidation?	Yes
4. Is the anchorage free of	of visible cracks in the concrete near the anchors?	Yes
	guration consistent with plant documentation? (Note: lies if the item is one of the 50% for which an anchorage on is required.)	Not Applicable
potentially adverse seis See discussion in Seo	nchorage evaluations, is the anchorage free of smic conditions? ction 5 of report to address cove molding at anchorage adged to be acceptable.	Yes

Status: Y N	Status.	0
-------------	---------	---

### Seismic Walkdown Checklist (SWC)

	Equipment ID No.:	2PA01J	
	Equipment Class:	(20) Instrumentation and Control Panels and Cabinets	
	Equipment Description:	CAB PROC I+C RACK PROT CH 1 0-3373B AB2	
Interac	ction Effects		
7.	Are soft targets free from	m impact by nearby equipment or structures?	Yes
	Adjacent cabinets are seismic event.	bolted together to eliminate spatial interaction during a	
8.	masonry block walls no Partially open S-hooks close S-hooks. S-hook	nt, distribution systems, ceiling tiles and lighting, and t likely to collapse onto the equipment? s on lights. IR 1397694 was written to inspect and s are not likely to become disengaged in a seismic t fully open and are therefore acceptable.	Yes
9.	Do attached lines have	adequate flexibility to avoid damage?	Yes
10.	Based on the above se potentially adverse seis	ismic interaction evaluations, is equipment free of mic interaction effects?	Yes
Other	Adverse Conditions		
11.	•	d found no adverse seismic conditions that could ety functions of the equipment?	Yes

#### **Comments**

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

Evolucted by:	Mailere M Sela	$\uparrow$	Data	10/5/2012
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.:
 2PA01J

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

 Equipment Description:
 CAB PROC I+C RACK PROT CH 1 0-3373B AB2

#### **Photos**



2PA01J Byron 1 & 2 048



2PA01J Byron 1 & 2 049

Status: Y N U

#### Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2PA01J

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

Equipment Description:

CAB PROC I+C RACK PROT CH 1 0-3373B AB2



2PA01J Byron 1 & 2 050

2PA01J Byron 1 & 2 051

Status: Y N U

# Seismic Walkdown Checklist (SWC)

.

Equipment ID No.: 2PA02J	
Equipment Class: (20) Instrumentation and Control Panels and Cabinets	·
Equipment Description: CAB PROC I+C RACK PROT CH 2 0-3373B AB2	
Project: Byron 2 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 eq 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	f judgments and
Anchorage	
<ol> <li>Is anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?</li> </ol>	No
2. Is the anchorage free of bent, broken, missing or loose hardware?	Yes
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	Yes
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Yes
<ol> <li>Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)</li> </ol>	Not Applicable
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? See discussion in Section 5 of report to address cove molding at anchorage detail. Anchorage is judged to be acceptable.	Yes

Status:	Y	N	U
otatuo.			· ·

### Seismic Walkdown Checklist (SWC)

	Equipment ID No.:	2PA02J	
	Equipment Class:	(20) Instrumentation and Control Panels and Cabinets	
	Equipment Description:	CAB PROC I+C RACK PROT CH 2 0-3373B AB2	
Interac	ction Effects		
7.	Are soft targets free fro	m impact by nearby equipment or structures?	Yes
	Adjacent cabinets an a seismic event.	e bolted together to eliminate spatial interaction during	
8.	masonry block walls no Partially open S-hooks close S-hooks. S-hook	nt, distribution systems, ceiling tiles and lighting, and t likely to collapse onto the equipment? s on lights. IR 1397694 was written to inspect and s are not likely to become disengaged in a seismic t fully open and are therefore acceptable.	Yes
9.	Do attached lines have	adequate flexibility to avoid damage?	Yes
10.	Based on the above se potentially adverse seis	ismic interaction evaluations, is equipment free of mic interaction effects?	Yes
Other .	Adverse Conditions		
11.	•	d found no adverse seismic conditions that could ety functions of the equipment?	Yes

#### **Comments**

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

Evaluated by:	Mailere M Sila	()	Date:	10/5/2012
	C.C. Mych		Dale.	10/5/2012

Status: Y N U

#### Seismic Walkdown Checklist (SWC)

 Equipment ID No.:
 2PA02J

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

 Equipment Description:
 CAB PROC I+C RACK PROT CH 2 0-3373B AB2

#### **Photos**



2PA02J Byron 1 & 2 052



2PA02J Byron 1 & 2 053

Statu Seismic Walkdown Checklist (SWC)	s: YNU
Equipment ID No.: 2PA03J	
Equipment Class: (20) Instrumentation and Control Panels and Cabinets	
Equipment Description: CAB PROC I+C RACK PROT CH 3 0-3373B AB2	
Project: Byron 2 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 equipme SWEL. The space below each of the following questions may be used to record the results of judg findings. Additional space is provided at the end of this checklist for documenting other comments.	ments and
Anchorage	
<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: N This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)</li> </ol>	ot Applicable
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? See discussion in Section 5 of report to address cove molding at anchorage detail. Anchorage is judged to be acceptable.	Yes

- ,

------

-----

Seism	ic Walkdown Checklist	(SWC)	Status: Y N U
	Equipment ID No.:		
	Equipment Class:	(20) Instrumentation and Control Panels and Cabinets	
	Equipment Description:	CAB PROC I+C RACK PROT CH 3 0-3373B AB2	
Intera	ction Effects		ι
7.	Are soft targets free fro	m impact by nearby equipment or structures?	Yes
	Adjacent cabinets an a seismic event.	e bolted together to eliminate spatial interaction during	
8.	masonry block walls no Partially open S-hooks close S-hooks. S-hook	nt, distribution systems, ceiling tiles and lighting, and t likely to collapse onto the equipment? s on lights. IR 1397694 was written to inspect and s are not likely to become disengaged in a seismic t fully open and are therefore acceptable.	Yes
9.	Do attached lines have	adequate flexibility to avoid damage?	Yes
10.		ismic 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?	Yes

# **Comments**

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

.

	Mailere M Selary			
Evaluated by:		Marlene Delaney	Date:	10/5/2012
	C.C. Ingh Phil	ip Gazda		10/5/2012

Status:	Y	N	L

### Seismic Walkdown Checklist (SWC)

 Equipment ID No.:
 2PA03J

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

 Equipment Description:
 CAB PROC I+C RACK PROT CH 3 0-3373B AB2





Status: Y N U

Seismic Walkdown Checklist (SWC)	
Equipment ID No.: 2PA04J	
Equipment Class: (20) Instrumentation and Control Panels and Cabinets	
Equipment Description: CAB PROC I+C RACK PROT CH 4 0-3373B AB2	
Project: Byron 2 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 eq SWEL. The space below each of the following questions may be used to record the results o findings. Additional space is provided at the end of this checklist for documenting other comm	f judgments and
Anchorage	
<ol> <li>Is anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?</li> </ol>	No
2. Is the anchorage free of bent, broken, missing or loose hardware?	Yes
	. •
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	Yes
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Yes
<ol> <li>Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)</li> </ol>	Not Applicable
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? See discussion in Section 5 of report to address cove molding at anchorage detail. Anchorage is judged to be acceptable.	Yes

1

- . . . . \_ - , . 12Q0108.20-R-002 Rev. 1 Correspondence No.: RS-12-161 Sheet 2 of 3

----

Status:	Y	N	U
---------	---	---	---

# Seismic Walkdown Checklist (SWC)

	Equipment ID No.:	2PA04J	
	Equipment Class:	(20) Instrumentation and Control Panels and Cabinets	
	Equipment Description:	CAB PROC I+C RACK PROT CH 4 0-3373B AB2	
Intera	ction Effects		
7.	Are soft targets free from	m impact by nearby equipment or structures?	Yes
	Adjacent cabinets are a seismic event.	e bolted together to eliminate spatial interaction during	• .
8.	masonry block walls no Partially open S-hooks close S-hooks. S-hook	nt, distribution systems, ceiling tiles and lighting, and t likely to collapse onto the equipment? s on lights. IR 1397694 was written to inspect and s are not likely to become disengaged in a seismic t fully open and are therefore acceptable.	Yes
9.	Do attached lines have	adequate flexibility to avoid damage?	Yes
10.	Based on the above se potentially adverse seis	ismic 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?	Yes

### **Comments**

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

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

		1
Status:	Y	N U

### Seismic Walkdown Checklist (SWC)

 Equipment ID No.:
 2PA04J

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

 Equipment Description:
 CAB PROC I+C RACK PROT CH 4 0-3373B AB2





Status: Y N U

# Seismic Walkdown Checklist (SWC)

Equipment ID N	lo.: 2PA06J	
Equipment Cla	ess: (20) Instrumentation and Control Panels and Cabinets	
Equipment Descripti	on: CAB PROC I+C RACK CONT GRP 2 0-3373B AB2	
F	Project: Byron 2 SWEL	
Location (Bldg, Elev, Room	n/Area): Auxiliary, 451.00 ft, ALL	
Manufacturer	/Model:	
Instructions for Completi	ng Checklist	
SWEL. The space below e	to document the results of the Seismic Walkdown of an item of equi each of the following questions may be used to record the results of just is provided at the end of this checklist for documenting other comme	udgments and
<u>Anchorage</u>		
	guration verification required (i.e., is the item one of the 50% uiring such verification)?	No
2. Is the anchorage fr	ee of bent, broken, missing or loose hardware?	Yes
3. Is the anchorage fr	ree of corrosion that is more than mild surface oxidation?	Yes
4. Is the anchorage fr	ee of visible cracks in the concrete near the anchors?	Yes
•	onfiguration consistent with plant documentation? (Note: applies if the item is one of the 50% for which an anchorage cation is required.)	Not Applicable
potentially adverse See discussion in	re anchorage evaluations, is the anchorage free of seismic conditions? Section 5 of report to address cove molding at anchorage is judged to be acceptable.	Yes

Status:	Υ	Ν	U

Seismic Walkdown Checkli	st (SWC)	
--------------------------	----------	--

	Equipment ID No.:	2PA06J	
	Equipment Class:	(20) Instrumentation and Control Panels and Cabinets	
	Equipment Description:	CAB PROC I+C RACK CONT GRP 2 0-3373B AB2	
<u>Intera</u>	ction Effects		
7.	Are soft targets free fro	m impact by nearby equipment or structures?	Yes
	Adjacent cabinets an a seismic event.	e bolted together to eliminate spatial interaction during	
8.	masonry block walls no Partially open S-hooks close S-hooks. S-hook	nt, distribution systems, ceiling tiles and lighting, and t likely to collapse onto the equipment? s on lights. IR 1397694 was written to inspect and s are not likely to become disengaged in a seismic t fully open and are therefore acceptable.	Yes
9.	Do attached lines have	adequate flexibility to avoid damage?	Yes
10.	Based on the above se	smic interaction evaluations, is equipment free of	Yes
	potentially adverse seis		
Other	Adverse Conditions		
11.	•	d found no adverse seismic conditions that could ety functions of the equipment?	Yes
		- -	

# <u>Comments</u>

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

	Mailie MA	lany	× .			
Evaluated by:		U	Marlene Delaney	Date:	10/5/2012	
	C.U. Myd	Philip G	Bazda		10/5/2012	

Chalung	V	<b>NI II</b>
Status:	Y Y	NU

#### Seismic Walkdown Checklist (SWC)

 Equipment ID No.:
 2PA06J

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

 Equipment Description:
 CAB PROC I+C RACK CONT GRP 2 0-3373B AB2

**Photos** 



Saismia Walkdown Chacklist (SWG		U
Seismic Walkdown Checklist (SWC		
Equipment ID No.: 2PA		
	Instrumentation and Control Panels and Cabinets	—
	PROC I+C RACK CONT GRP 3 0-3373B AB2	
	Byron 2 SWEL	
Location (Bldg, Elev, Room/Area):	uxiliary, 451.00 ft, ALL	
Manufacturer/Model:		
SWEL. The space below each of the findings. Additional space is provided	ist ent the results of the Seismic Walkdown of an item of equipment on the following questions may be used to record the results of judgments and at the end of this checklist for documenting other comments.	
Anchorage	-Section required (i.e. is the item and of the EQU	
<ol> <li>Is anchorage configuration ve of SWEL items requiring sucl</li> </ol>	rification required (i.e., is the item one of the 50% No	0
2. Is the anchorage free of bent	broken, missing or loose hardware? Yes	S
3. Is the anchorage free of corro	sion that is more than mild surface oxidation? Yes	S
4. Is the anchorage free of visib	e cracks in the concrete near the anchors? Yes	S
÷ -	n consistent with plant documentation? (Note: Not Applicable ne item is one of the 50% for which an anchorage quired.)	е
potentially adverse seismic c	of report to address cove molding at anchorage	S

\_

Status:	Y	Ν	υ

# Seismic Walkdown Checklist (SWC)

	Equipment ID No.:	2PA07J	
	Equipment Class:	(20) Instrumentation and Control Panels and Cabinets	
	Equipment Description:	CAB PROC I+C RACK CONT GRP 3 0-3373B AB2	
Interac	ction Effects		
7.	Are soft targets free from	m impact by nearby equipment or structures?	Yes
	Adjacent cabinets an a seismic event.	e bolted together to eliminate spatial interaction during	• •
8.	masonry block walls no Partially open S-hooks close S-hooks. S-hook	nt, distribution systems, ceiling tiles and lighting, and t likely to collapse onto the equipment? s on lights. IR 1397694 was written to inspect and s are not likely to become disengaged in a seismic t fully open and are therefore acceptable.	Yes
9.	Do attached lines have	adequate flexibility to avoid damage?	Yes
10.	Based on the above se potentially adverse seis	ismic interaction evaluations, is equipment free of mic interaction effects?	Yes
Other	Adverse Conditions		
11.	•	d found no adverse seismic conditions that could ety functions of the equipment?	Yes

### **Comments**

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

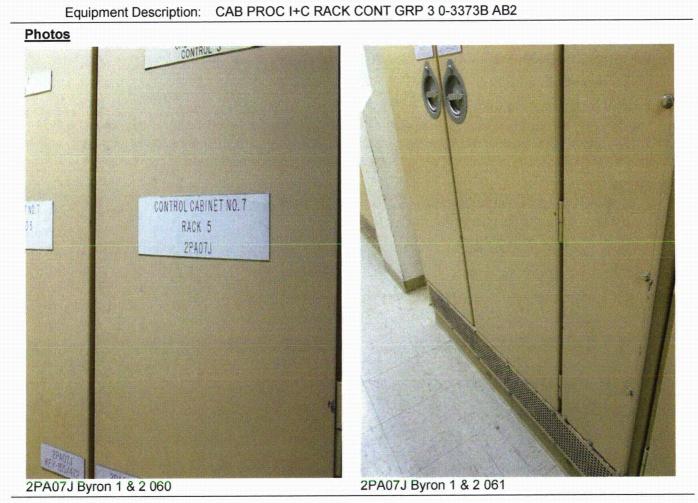
· · ·	Marlene Marl	the second se		
Evaluated by:		Marlene Delaney	Date:	10/5/2012
	C.O. Mych	Philip Gazda		10/5/2012

Status: Y N U

#### Seismic Walkdown Checklist (SWC)

 Equipment ID No.:
 2PA07J

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



Status:	Y	N	υ
	-		-

Equipment ID No.: 2P	L80A	
Equipment Class: (20	)) Instrumentation and Control Panels and Cabinets	
Equipment Description: CA	AB PROC I+C RACK CONT GRP 4 0-3373B AB2	
Project:	Byron 2 SWEL	
Location (Bldg, Elev, Room/Area):	Auxiliary, 451.00 ft, ALL	
Manufacturer/Model:		
Instructions for Completing Chec	cklist	· · · · · · · · · · · · · · · · · · ·
SWEL. The space below each of the	ment the results of the Seismic Walkdown of an item of equine following questions may be used to record the results of led at the end of this checklist for documenting other comm	judgments and
<u>Anchorage</u>		
<ol> <li>Is anchorage configuration of SWEL items requiring su</li> </ol>	verification required (i.e., is the item one of the 50% ich verification)?	No
2. Is the anchorage free of be	nt, broken, missing or loose hardware?	Yes
3. Is the anchorage free of co	rrosion that is more than mild surface oxidation?	Yes
4. Is the anchorage free of vis	sible 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 required.)	Not Applicable
potentially adverse seismic	5 of report to address cove molding at anchorage	Yes

Seism	ic Walkdown Checklist	(SWC)	Status: Y N U
	Equipment ID No.:		
	Equipment Class:	(20) Instrumentation and Control Panels and Cabinets	
	Equipment Description:	CAB PROC I+C RACK CONT GRP 4 0-3373B AB2	······································
Interac	ction Effects		
7.	Are soft targets free fro	m impact by nearby equipment or structures?	Yes
	• •	nel 2PA07J. Adjacent cabinets are bolted together to ction during a seismic event.	
8.	masonry block walls no Partially open S-hook close S-hooks. S-hook	nt, distribution systems, ceiling tiles and lighting, and at likely to collapse onto the equipment? as on lights. IR 1397694 was written to inspect and as are not likely to become disengaged in a seismic at fully open and are therefore acceptable.	Yes
9.	Do attached lines have	adequate flexibility to avoid damage?	Yes
10.		ismic interaction evaluations, is equipment free of mic interaction effects?	Yes
Other	Adverse Conditions		
<sup>°</sup> 11.	•	d found no adverse seismic conditions that could ety functions of the equipment?	Yes

# **Comments**

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

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

.

Status:	Y	NU

## Seismic Walkdown Checklist (SWC)

Equipment ID No.:	2PA08J
Equipment Class:	(20) Instrumentation and Control Panels and Cabinets
Equipment Description:	CAB PROC I+C RACK CONT GRP 4 0-3373B AB2





Seismic Walkdown Checklist (SWC)	Status: Y N U
Equipment ID No.: 2PA09J	
Equipment Class: (20) Instrumentation and Control Panels and Cabinets	
Equipment Description: CAB PROT SYST SOL ST RX/ESF TRN A 0-3373B AB2	<u> </u>
Project: Byron 2 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 ea SWEL. The space below each of the following questions may be used to record the results o findings. Additional space is provided at the end of this checklist for documenting other comm	f judgments and
Anchorage	• • • -
<ol> <li>Is anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?</li> </ol>	No
2. Is the anchorage free of bent, broken, missing or loose hardware?	Yes
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	Yes
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Yes
<ol> <li>Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)</li> </ol>	Not Applicable
<ol> <li>Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?</li> <li>See discussion in Section 5 of report to address cove molding at anchorage detail. Anchorage is judged to be acceptable.</li> </ol>	Yes

Seism	ic Walkdown Checklist	(SWC)	Status: Y N U
	Equipment ID No.:	2PA09J	
	Equipment Class:	(20) Instrumentation and Control Panels and Cabinets	
	Equipment Description:	CAB PROT SYST SOL ST RX/ESF TRN A 0-3373B AB2	
Interac	tion Effects		
7.	Are soft targets free from	n impact by nearby equipment or structures?	Yes
	present at front to 2PA1	jacent Panel 2PA11J in back of panel. Interior bolting 1J and both sides to 2PA33J. Adjacent cabinets are nate spatial interaction during a seismic event.	
8.	masonry block walls no Partially open S-hooks close S-hooks. S-hook	nt, distribution systems, ceiling tiles and lighting, and t likely to collapse onto the equipment? to on lights. IR 1397694 was written to inspect and s are not likely to become disengaged in a seismic t fully open and are therefore acceptable.	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.	•	d found no adverse seismic conditions that could ety functions of the equipment?	Yes

## **Comments**

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

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

Seismic Walkdown Checklist	(SWC)	Status: Y N U
Equipment ID No.:	2PA09J	
Equipment Class:	(20) Instrumentation and Control Panels and Cabinets	
Equipment Description:	CAB PROT SYST SOL ST RX/ESF TRN A 0-3373B AB2	

**Photos** 



Status: Y N U

# Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2PA10J	
Equipment Class: (20) Instrumentation and Control Panels and Cabinets	
Equipment Description: CAB PROT SYST SOL ST RX/ESF TRN B 0-3373B AB2	
Project: Byron 2 SWEL	
Location (Bldg, Elev, Room/Area): Auxiliary, 451.00 ft, ALL	ι
Manufacturer/Model:	
Instructions for Completing Checklist	
This checklist may be used to document the results of the Seismic Walkdown of an item of eq SWEL. The space below each of the following questions may be used to record the results o findings. Additional space is provided at the end of this checklist for documenting other comm	f judgments and
Anchorage	
<ol> <li>Is anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?</li> </ol>	No
	Mar
2. Is the anchorage free of bent, broken, missing or loose hardware?	Yes
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	Yes
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Yes
5. Is the anchorage configuration consistent with plant documentation? (Note:	Not Applicable
This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)	
6. Based on the above anchorage evaluations, is the anchorage free of	Yes
potentially adverse seismic conditions?	
See discussion in Section 5 of report to address cove molding at anchorage detail. Anchorage is judged to be acceptable.	

-- -- -- --

Seismic Walkdown Checklist (SWC)	U
Equipment ID No.: 2PA10J	
Equipment Class: (20) Instrumentation and Control Panels and Cabinets	
Equipment Description: CAB PROT SYST SOL ST RX/ESF TRN B 0-3373B AB2	
Interaction Effects	
7. Are soft targets free from impact by nearby equipment or structures? Yes	es
Adjacent cabinets are bolted together to eliminate spatial interaction during a seismic event.	
<ol> <li>Are overhead equipment, distribution systems, ceiling tiles and lighting, and Ye masonry block walls not likely to collapse onto the equipment?</li> <li>Partially open S-hooks on lights. IR 1397694 was written to inspect and close S-hooks. S-hooks are not likely to become disengaged in a seismic event since they are not fully open and are therefore acceptable.</li> </ol>	es
9. Do attached lines have adequate flexibility to avoid damage? Ye	es
10. Based on the above seismic interaction evaluations, is equipment free of Ye potentially adverse seismic interaction effects?	'es
Other Adverse Conditions         11. Have you looked for and found no adverse seismic conditions that could adversely affect the safety functions of the equipment?	'es
<u>Comments</u> Seismic walkdown team M. Delaney & P. Gazda 8/6/12 pm	·,
Evaluated by: Marlene Delaney Date: 10/5/2012 C.U. March Philip Gazda 10/5/2012	

Status: Y N U

#### Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2PA10J

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

Equipment Description: CAB PROT SYST SOL ST RX/ESF TRN B 0-3373B AB2

## **Photos**





Status: Y N U

,

Equipment ID No.: 2PA11J	
Equipment Class: (20) Instrumentation and Control Panels and Cabinets	
Equipment Description: CAB TEST SAFEGUARD TRN A 0-3373B AB3	
Project: Byron 2 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 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
2. Is the anchorage nee of bent, broken, missing of loose hardware:	103
	Maa
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</li> </ol>	Not Applicable
configuration verification is required.)	
<ol> <li>Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?</li> </ol>	Yes
See discussion in Section 5 of report to address cove molding at anchorage	
detail. Anchorage is judged to be acceptable.	

1

Status: Y N U

# Seismic Walkdown Checklist (SWC)

	Equipme	ent ID No.:	2PA11J					
	Equipm	ent Class:	(20) Instrumer	ntation and	Control Panels and C	abinets		
	Equipment D	escription:	CAB TEST SA	FEGUAR	D TRN A 0-3373B AB	3		
Interac	ction Effects							
7.	Are soft targ	ets free from	n impact by ne	arby equip	ment or structures?			Yes
	the interior s	ides on the	front of the pai	nel. (Panel	ack of panel and on t was opened) Adjace Iteraction during a se	nt		
8.	masonry blo Partially op close S-hoo	ock walls no ben S-hooks ks. S-hook	t likely to collap on lights. IR 1 s are not likely i	ose onto the 397694 wa to become	iling tiles and lighting e equipment? as written to inspect a disengaged in a seis ore acceptable.	nd		Yes
9.	Do attached	lines have	adequate flexib	oility to avoi	d damage?			Yes
10.			smic interaction mic interaction		ns, is equipment free	of		Yes
Other	Adverse Con	ditions						
11.	-		d found no advo		ic conditions that cou nent?	ld		Yes
<u>Comm</u> Seismi		eam M. Dela	aney & P. Gazo	la 8/6/12 p	m			
Evalua	ited by:	Mailes	l M Sel	any T	Marlene Delaney	Date:	10/5/2012	
-		<i>C.u</i> .	Mych	Philip Ga			10/5/2012	

Status: Y N U

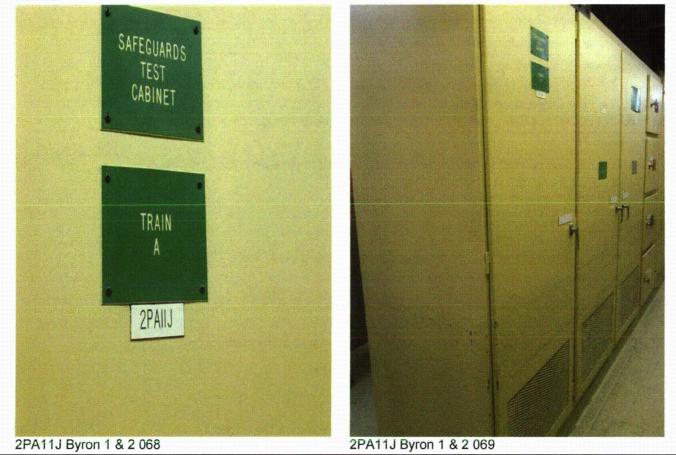
#### Seismic Walkdown Checklist (SWC)

 Equipment ID No.:
 2PA11J

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

 Equipment Description:
 CAB TEST SAFEGUARD TRN A 0-3373B AB3

#### **Photos**



Seismic Walkdown Checklist (SWC)	Status: Y N U
Equipment ID No.: 2PA12J	
Equipment Class: (20) Instrumentation and Control Panels and Cabinets	
Equipment Description: CAB TEST SAFEGUARD TRN B 0-3373B AB2	
Project: Byron 2 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 SWEL. The space below each of the following questions may be used to record the result findings. Additional space is provided at the end of this checklist for documenting other of the space space.	Its of judgments and
Anchorage	
<ol> <li>Is anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?</li> </ol>	No
2. Is the anchorage free of bent, broken, missing or loose hardware?	Yes
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	Yes
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Yes
<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>	Not Applicable
configuration verification is required.)	
	X
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	Yes
See discussion in Section 5 of report to address cove molding at anchorage	
detail. Anchorage is judged to be acceptable.	

Status: Y N U

Seism	ic Walkdown Checklist	(SWC)	
	Equipment ID No.:	2PA12J	
	Equipment Class:	(20) Instrumentation and Control Panels and Cabinets	,
	Equipment Description:	CAB TEST SAFEGUARD TRN B 0-3373B AB2	
Interac	ction Effects		
7.	Are soft targets free fro	m impact by nearby equipment or structures?	Yes
	Adjacent cabinets ar a seismic event.	e bolted together to eliminate spatial interaction during	·
8.		nt, distribution systems, ceiling tiles and lighting, and t likely to collapse onto the equipment?	Yes
	close S-hooks. S-hook	s on lights.  IR 1397694 was written to inspect and is are not likely to become disengaged in a seismic it fully open and are therefore acceptable.	
9.	Do attached lines have	adequate flexibility to avoid damage?	Yes
10.		ismic interaction evaluations, is equipment free of smic interaction effects?	Yes
×			
Other	Adverse Conditions		
11.	•	Id found no adverse seismic conditions that could fety functions of the equipment?	Yes

# **Comments**

.

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

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

Status:	Y	NI	IJ
olalus.	1 • 1		-

# Seismic Walkdown Checklist (SWC)

Equipment ID No.:	2PA12J
Equipment Class:	(20) Instrumentation and Control Panels and Cabinets
Equipment Description:	CAB TEST SAFEGUARD TRN B 0-3373B AB2

### **Photos**



Status: Y N U

Seismic Walkdown Checkl	ist (SWC)		
Equipment ID No	.: 2PA13J		
Equipment Class	Equipment Class: (20) Instrumentation and Control Panels and Cabinets		
Equipment Description	n: CAB ESF SEQ/ACT TRN A 0-3373B AB2		
Pr	oject: Byron 2 SWEL		
Location (Bldg, Elev, Room/A	Area): Auxiliary, 451.00 ft, ALL		
Manufacturer/N	lodel:	·	
Instructions for Completing	-		
SWEL. The space below each	o document the results of the Seismic Walkdown of an item of equi ch of the following questions may be used to record the results of ju provided at the end of this checklist for documenting other comme	udgments and	
	ration verification required (i.e., is the item one of the 50% ring such verification)?	No	
2. Is the anchorage free	e of bent, broken, missing or loose hardware?	Yes	
3. Is the anchorage free	e of corrosion that is more than mild surface oxidation?	Yes	
4. Is the anchorage free	e of visible cracks in the concrete near the anchors?	Yes	
-	nfiguration consistent with plant documentation? (Note: oplies if the item is one of the 50% for which an anchorage tion is required.)	Not Applicable	
potentially adverse s See discussion in S	anchorage evaluations, is the anchorage free of eismic conditions? Section 5 of report to address cove molding at anchorage judged to be acceptable.	Yes	

Seism	ic Walkdown Checklist	(SWC)	Status: Y N U
	Equipment ID No.:		
		(20) Instrumentation and Control Panels and Cabinets	······································
	Equipment Description:	CAB ESF SEQ/ACT TRN A 0-3373B AB2	
Intera	ction Effects		
		m impact by nearby equipment or structures?	Yes
	Adjacent cabinets ar a seismic event.	e bolted together to eliminate spatial interaction during	
8.	masonry block walls no Partially open S-hook close S-hooks. S-hook	nt, distribution systems, ceiling tiles and lighting, and of likely to collapse onto the equipment? s on lights. IR 1397694 was written to inspect and as are not likely to become disengaged in a seismic of fully open and are therefore acceptable.	Yes
9.	Do attached lines have	adequate flexibility to avoid damage?	Yes
10.		ismic interaction evaluations, is equipment free of smic interaction effects?	Yes
<u>Other</u>	Adverse Conditions		
11.	•	Id found no adverse seismic conditions that could fety functions of the equipment?	Yes

## **Comments**

٠

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

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

Status: Y N U

## Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2PA13J

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

Equipment Description: CAB ESF SEQ/ACT TRN A 0-3373B AB2

## **Photos**



Status:	Υ	Ν	U

# Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2P	PA14J	
Equipment Class: (20	0) Instrumentation and Control Panels and Cabinets	
Equipment Description: CA	AB ESF SEQ/ACT TRN B 0-3373B AB2	
Project:	Byron 2 SWEL	
Location (Bldg, Elev, Room/Area):	Auxiliary, 451.00 ft, ALL	
Manufacturer/Model:		
SWEL. The space below each of t	<b>cklist</b> Iment the results of the Seismic Walkdown of an item of equine the following questions may be used to record the results of led at the end of this checklist for documenting other comm	judgments and
Anchorage 1. Is anchorage configuration of SWEL items requiring su	verification required (i.e., is the item one of the 50% uch verification)?	No
2. Is the anchorage free of be	ent, broken, missing or loose hardware?	Yes
3. Is the anchorage free of co	prrosion that is more than mild surface oxidation?	Yes
4. Is the anchorage free of vis	sible cracks in the concrete near the anchors?	Yes
	ation consistent with plant documentation? (Note: if the item is one of the 50% for which an anchorage required.)	Not Applicable
potentially adverse seismic	n 5 of report to address cove molding at anchorage	Yes

Seismic Walkdown Checklist (SWC)	Status: Y N U
Equipment ID No.: 2PA14J	
Equipment Class: (20) Instrumentation and Control Panels and Cabinets	
Equipment Description: CAB ESF SEQ/ACT TRN B 0-3373B AB2	,
Interaction Effects	
7. Are soft targets free from impact by nearby equipment or structures?	Yes
Adjacent cabinets are bolted together to eliminate spatial interaction 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? <i>Partially open S-hooks on lights. IR 1397694 was written to inspect and close S-hooks. S-hooks are not likely to become disengaged in a seismic event since they are not fully open and are therefore acceptable.</i>	Yes
9. Do attached lines have adequate flexibility to avoid damage?	Yes
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	Yes
Other Adverse Conditions	
11. Have you looked for and found no adverse seismic conditions that could adversely affect the safety functions of the equipment?	Yes
	· · ·
Comments	

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

-

	Mailere M Se	lang	`			
Evaluated by:		$\cup$	Marlene Delaney	Date:	10/5/2012	
	C.U. Mych	Philip (	Gazda	_	10/5/2012	

.

C-252

Status: Y N U

#### Seismic Walkdown Checklist (SWC)

 Equipment ID No.:
 2PA14J

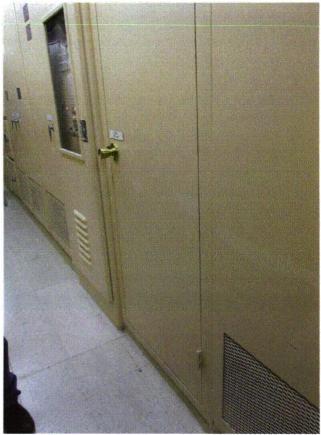
 Equipment Class:
 (20) Instrumentation and Control Panels and Cabinets

 Equipment Description:
 CAB ESF SEQ/ACT TRN B 0-3373B AB2

### **Photos**



2PA14J Byron 1 & 2 074



2PA14J Byron 1 & 2 075

Seismic Walkdown Checklist	(SWC)	Status: Y N U
Equipment ID No.:		
	(20) Instrumentation and Control Panels and Cabinets	
	CAB RELAY AUX SAFEGUARD TRN A 0-3373B AB2	
· · · · · · · · · · · · · · · · · · ·	ect: Byron 2 SWEL	
Location (Bldg, Elev, Room/Are		
Manufacturer/Mod		······································
Instructions for Completing (	Checklist	
SWEL. The space below each	locument the results of the Seismic Walkdown of an item of e of the following questions may be used to record the results rovided at the end of this checklist for documenting other com	of judgments and
<u>Anchorage</u>		
<ol> <li>Is anchorage configura of SWEL items requirin</li> </ol>	tion verification required (i.e., is the item one of the 50% g such verification)?	No
2. Is the anchorage free c	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
· · · ·		
	guration consistent with plant documentation? (Note: lies if the item is one of the 50% for which an anchorage on is required.)	Not Applicable
	· · · · · · · · · · · · · · · · · · ·	
potentially adverse seis	ction 5 of report to address cove molding at anchorage	Yes

,

# Seismic Walkdown Checklist (SWC)

\_\_\_\_

	Equipment ID No.:	2PA27J	
	Equipment Class:	(20) Instrumentation and Control Panels and Cabinets	
	Equipment Description:	CAB RELAY AUX SAFEGUARD TRN A 0-3373B AB2	
Interac	ction Effects		
7.	Are soft targets free fro	m impact by nearby equipment or structures?	Yes
	Adjacent cabinets an a seismic event.	e bolted together to eliminate spatial interaction during	
8.	masonry block walls no Partially open S-hooks close S-hooks. S-hook	nt, distribution systems, ceiling tiles and lighting, and it likely to collapse onto the equipment? is on lights. IR 1397694 was written to inspect and is are not likely to become disengaged in a seismic it fully open and are therefore acceptable.	Yes
9.	Do attached lines have	adequate flexibility to avoid damage?	Yes
10.		ismic interaction evaluations, is equipment free of smic interaction effects?	Yes
Other	Adverse Conditions		
11.		d found no adverse seismic conditions that could	Yes
	•	fety functions of the equipment?	

## <u>Comments</u>

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

· · · · · · · · · · · · · · · · · · ·	Mailere M Su	lany			
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.:	2PA27J	
Equipment Class:	(20) Instrumentation and Control Panels and Cabinets	
Equipment Description:	CAB RELAY AUX SAFEGUARD TRN A 0-3373B AB2	

#### **Photos**





2PA27J Byron 1 & 2 077

# Status: Y N U

	Seismic	Walkdown	Checklist (	(SWC)
--	---------	----------	-------------	-------

Equipment ID No.: 2PA28J	
Equipment Class: _(20) Instrumentation a	nd Control Panels and Cabinets
Equipment Description: CAB RELAY AUX SAF	EGUARD TRN B 0-3373B AB2
Project: Byron 2 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 t SWEL. The space below each of the following question findings. Additional space is provided at the end of this	ns may be used to record the results of judgments and
Anchorage	
<ol> <li>Is anchorage configuration verification required of SWEL items requiring such verification)?</li> </ol>	I (i.e., is the item one of the 50% No
2. Is the anchorage free of bent, broken, missing	or loose hardware? Yes
2. Is the anchorage free of bent, bloken, missing	
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 co	oncrete near the anchors? Yes
5. Is the anchorage configuration consistent with This question only applies if the item is one of t configuration verification is required.)	
<ol> <li>Based on the above anchorage evaluations, is potentially adverse seismic conditions? See discussion in Section 5 of report to addred detail. Anchorage is judged to be acceptable.</li> </ol>	

		Status: Y N U
Seismic Walkdown Checklis	it (SWC)	
Equipment ID No.:	2PA28J	<u> </u>
Equipment Class	(20) Instrumentation and Control Panels and Cabinets	
Equipment Description:	CAB RELAY AUX SAFEGUARD TRN B 0-3373B AB2	
Interaction Effects		
7. Are soft targets free fr	om impact by nearby equipment or structures?	Yes
Adjacent cabinets a a seismic event.	re bolted together to eliminate spatial interaction during	
masonry block walls n Partially open S-hoo close S-hooks. S-hoo	ent, distribution systems, ceiling tiles and lighting, and tot likely to collapse onto the equipment? the on lights. IR 1397694 was written to inspect and the are not likely to become disengaged in a seismic tot fully open and are therefore acceptable.	Yes
	e adequate flexibility to avoid damage?	Yes
	eismic interaction evaluations, is equipment free of ismic interaction effects?	Yes
Other Adverse Conditions		
÷	nd found no adverse seismic conditions that could afety functions of the equipment?	Yes
<u>Comments</u>		
Seismic walkdown team M. De	elaney & P. Gazda 8/6/12 pm	
Evaluated by:	the she	0/5/2012
	Philip Gazda 1	0/5/2012

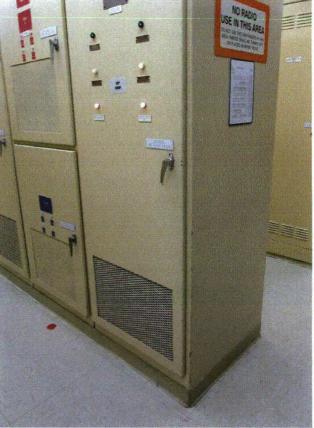
Status: Y N U

# Seismic Walkdown Checklist (SWC)

Equipment ID No .:	2PA28J	
Equipment Class:	(20) Instrumentation and Control Panels and Cabinets	
Equipment Description:	CAB RELAY AUX SAFEGUARD TRN B 0-3373B AB2	

**Photos** 





2PA28J Byron 1 & 2 079