Seismic Walkdown Checklist (SWC)	Status: Y N U
Equipment Class: (14) Distribution Penele	
Equipment Class. (14) Distribution Parleis	
Equipment Description: 125V DC FUSE PANEL - DIV. 12	
Project: Byron 1 SWEL	
Location (Bldg, Elev, Room/Area): Auxiliary, 451.00 ft, ALL	
Manufacturer/Model:	
This checklist may be used to document the results of the Seismic Walkdown of an item of ec SWEL. The space below each of the following questions may be used to record the results of findings. Additional space is provided at the end of this checklist for documenting other comm	quipment on the of judgments and nents.
Anchorage	
 Is anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? 	No
2. Is the anchorage free of bent, broken, missing or loose hardware?	Yes
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	Yes
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Yes
 Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) 	Not Applicable
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	Yes

		Status: YNU
Seismic Walkdown Checklis	t (SWC)	
Equipment ID No.:	1DC11J	
. Equipment Class:	(14) Distribution Panels	
Equipment Description:	125V DC FUSE PANEL - DIV. 12	
Interaction Effects		
7. Are soft targets free fro	om impact by nearby equipment or structures?	Yes
8 Are overhead equipme	ant distribution systems, ceiling tiles and lighting, and	Yes
masonry block walls no	ot likely to collapse onto the equipment?	
9. Do attached lines have	adequate flexibility to avoid damage?	Yes
10. Based on the above se potentially adverse sei	eismic interaction evaluations, is equipment free of smic interaction effects?	Yes
·		
Other Adverse Conditions		

11.	Have you looked for and found no adverse seismic condi	itions that could	Yes
•	adversely affect the safety functions of the equipment?		
•	No structural/seismic issues		
		-	

Comments

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

	Mailere M Sel	the second secon		
Evaluated by:		Marlene Delaney	Date:	10/5/2012
	C.a. Mych	Philip Gazda	_	10/5/2012
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			Status:	Y	N
Seismic Walkdown Checklist	(SWC)				,
Equipment ID No.:	1DC11J				
Equipment Class:	(14) Distribution Panels				

Equipment Description: 125V DC FUSE PANEL - DIV. 12



1DC11J Byron 1 & 2 8-8-12 016

1DC11J Byron 1 & 2 8-8-12 017

Seismic Walkdown Checklist (SWC)	NU
Equipment ID No : 1DG01KB	
Equipment Class: (17) Engine-Generators	
Equipment Description: 1B DIESEL GENERATOR	
Project: Byron 1 SWEL	
Location (Bldg, Elev, Room/Area); Auxiliary, 401.00 ft, ALL	
Manufacturer/Model:	
Instructions for Completing Checklist This checklist may be used to document the results of the Seismic Walkdown of an item of equipment o SWEL. The space below each of the following questions may be used to record the results of judgment findings. Additional space is provided at the end of this checklist for documenting other comments.	n the is and
Anchorage	
 Is anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? 	Yes
2. Is the anchorage free of bent, broken, missing or loose hardware?	Yes
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	Yes
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Yes
 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 5 Revision N 	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 · 1DG01KB	
Equipment Class: (17) Engine-Generators	
Equipment Description: 1B DIESEL GENERAT	
Interaction Effects	
7. Are soft targets free from impact by nearby equip	oment or structures? Yes
 Are overhead equipment, distribution systems, ca masonry block walls not likely to collapse onto th 	eiling tiles and lighting, and Yes e equipment?
9. Do attached lines have adequate flexibility to avo	vid damage? Yes
10. Based on the above seismic interaction evaluation potentially adverse seismic interaction effects?	ons, is equipment free of Yes
Other Adverse Conditions	
11. Have you looked for and found no adverse seism adversely affect the safety functions of the equip <i>No structural/seismic issues</i>	nic conditions that could Yes ment?
<u>Comments</u> Seismic Walkdown Team P. Gazda & M. Delaney 8-7-12	pm .
Evaluated by:	Marlene Delaney Date: 10/5/2012
C.C. Maych Philip G	azda 10/5/2012

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Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.:	1DG01KB		
Equipment Class:	(17) Engine-Generators		
Equipment Description:	1B DIESEL GENERATOR		



1DG01KB Byron 1 & 2 206



1DG01KB Byron 1 & 2 207

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.:	1DG01KB		 	
Equipment Class:	(17) Engine-Generators			
Equipment Description:	1B DIESEL GENERATOR			



1DG01KB Byron 1 & 2 208

Seismic Walkdown Checklist (SWC)	tatus: YNU
Equipment ID No : 1D001TB	
Equipment Class: (21) Tanks and Heat Exchangers	
Project: Byron 1 SWEI	
Location (Bldg, Eley, Room/Area): Auviliany 373.00 ft Al I	
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	pment on the udgments and nts.
Anchorage	
 Is anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? 	Yes
2. Is the anchorage free of bent, broken, missing or loose hardware?	Yes
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	Yes
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Yes
Crack at anchor in pad that does not extend to base slab. Drawing M-1214 Sheet 3 indicate adequate embedment in base slab (1'-3 1/2") so small crack has no structural/seismic issue. IR 1398190 was written to document acceptability	
 Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) Drawing M-1214 Sheet 3 Revision W 	Yes
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	Yes

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Seism	ic Walkdown Checklist	(SWC)	Status: Y N U
	Equipment ID No.:	1D001TB	
	Equipment Class:	(21) Tanks and Heat Exchangers	
	Equipment Description:	DIESEL OIL STORAGE TANK 1B	
Intera	ction Effects		
7.	Are soft targets free fro	m impact by nearby equipment or structures?	Yes
8.	Are overhead equipme masonry block walls no	nt, distribution systems, ceiling tiles and lighting, and t likely to collapse onto the equipment?	Yes
9.	Do attached lines have	adequate flexibility to avoid damage?	Yes
10.	Based on the above se potentially adverse seis	ismic interaction evaluations, is equipment free of smic interaction effects?	Yes
<u>Other</u>	Adverse Conditions	·····	
11.	Have you looked for an adversely affect the sat	d found no adverse seismic conditions that could ety functions of the equipment?	Yes
Comn	nents		
Seism	ic walkdown team M. Del	aney & P. Gazda 8/7/12 pm	

Evoluted by	Mailere M Si	leny		Data	40/5/2010
Evaluated by:		Ма	riene Delaney	Date:	10/5/2012
	C.U. Mych	Philip Gazda			10/5/2012

Seismic Walkdown Checklist	(SWC)	Status: Y N U
Equipment ID No.:	1D001TB	
Equipment Class:	(21) Tanks and Heat Exchangers	
Equipment Description:	DIESEL OIL STORAGE TANK 1B	
Photos		





Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.:	1DO01TB	
Equipment Class:	(21) Tanks and Heat Exchangers	
Equipment Description:	DIESEL OIL STORAGE TANK 1B	



1DO01TB Byron 1 & 2 229

Status:	YNU
Seismic Walkdown Checklist (SWC)	
Equipment ID No.: 1DO10T	
Equipment Class: (21) Tanks and Heat Exchangers	
Equipment Description: 500 GAL DIESEL OIL DAY TANK (AF)	
Project: Byron 1 SWEL	
Location (Bldg, Elev, Room/Area): Auxiliary, 383.00 ft, ALL	
Manufacturer/Model:	
Instructions for Completing Checklist This checklist may be used to document the results of the Seismic Walkdown of an item of equipment of SWEL. The space below each of the following questions may be used to record the results of judgmen findings. Additional space is provided at the end of this checklist for documenting other comments.	on the its and
Anchorage	
 Is anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? 	Yes
2. Is the anchorage free of bent, broken, missing or loose hardware?	Yes
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	Yes
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Yes
 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.) <i>M</i>-1220 Sheet 5 Revision R 	Yes
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	Yes

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C-203

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Seismic Walkdow	n Checklist (SWC)	Status: Y N U
Fauira		
Equipm		
Equipi	ment Class: (21) Tanks and Heat Exchangers	
	Description: 500 GAL DIESEL OIL DAY TANK (AF)	
7. Are soft ta	s rgets free from impact by nearby equipment or structures?	Yes
8. Are overhe masonry b	ead equipment, distribution systems, ceiling tiles and lighting, and lock walls not likely to collapse onto the equipment?	Yes
9. Do attache	ed lines have adequate flexibility to avoid damage?	Yes
10. Based on t potentially	the above seismic interaction evaluations, is equipment free of adverse seismic interaction effects?	Yes
Other Adverse Co	onditions	
11. Have you	looked for and found no adverse seismic conditions that could	Yes
adversely No struct	affect the safety functions of the equipment? <i>ural/seismic issues</i>	
Comments		
Seismic walkdown	team M. Delaney & P. Gazda 8/20/12 am	· .
Evaluated by:	Marlene Delaney Date: 10 C. U. March Philip Gazda 10)/5/2012)/5/2012

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Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No .:	1DO10T
Equipment Class:	(21) Tanks and Heat Exchangers
Equipment Description:	500 GAL DIESEL OIL DAY TANK (AF)



1DO10T Byron 1 & 2 8-20-12 018

1DO10T Byron 1 & 2 8-20-12 019

Seismic Walkdown Checklist (SWC)	Status: Y N U	
Equipment ID No.: 1FC010		
Equipment Class: (0) Other		
Equipment Description: REFUELING WTR PURIF PMP SUCT FROM U-1 REFUE	EL CAV CNMT ISOL	
Project: Byron 1 SWEL		
Location (Bldg, Elev, Room/Area): Auxiliary, 364.00 ft, ALL	*	
Manufacturer/Model:		
Instructions for Completing Checklist This checklist may be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.		
Anchorage		
 Is anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? 	No	
2. Is the anchorage free of bent, broken, missing or loose hardware?	Not Applicable	
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	Not Applicable	
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Not Applicable	
 Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) 	Not Applicable	
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	Yes	

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Seismic Walkdown Checklist (SWC)	Status: Y N U
Equipment ID No.:	1FC010	
- Equipment Class:	(0) Other	· ·
- Equipment Description:	REFUELING WTR PURIF PMP SUCT FROM U-1 RI	EFUEL CAV CNMT ISOL
Interaction Effects		· · · · · · · · · · · · · · · · · · ·
7. Are soft targets free from	n impact by nearby equipment or structures?	Yes
 Are overhead equipmen masonry block walls not 	t, distribution systems, ceiling tiles and lighting, and likely to collapse onto the equipment?	Yes
9. Do attached lines have a	adequate flexibility to avoid damage?	Yes
10. Based on the above seis potentially adverse seisr	smic interaction evaluations, is equipment free of nic interaction effects?	Yes
Other Adverse Conditions	*	•
 Have you looked for and adversely affect the safe No structural/seismic is 	I found no adverse seismic conditions that could ty functions of the equipment? ssues	Yes
Comments		
Seismic walkdown team M. Dela	ney & P. Gazda 8/21/12 am	

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Fuch stad buy	Mailere My Sela	*	Deter	40/5/2010
Evaluated by:	· · · · · · · · · · · · · · · · · · ·	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 .:	1FC010
Equipment Class:	(0) Other
Equipment Description:	REFUELING WTR PURIF PMP SUCT FROM U-1 REFUEL CAV CNMT ISOL



1FC010 Byron 1 & 2 8-21-12 008

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Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 1FC01A	
Equipment Class: (21) Tanks and Heat	Exchangers
Equipment Description: SPENT FUEL PIT HE	AT EXCHANGER
Project: Byron 1 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 is provided at the end of the space space.	the Seismic Walkdown of an item of equipment on the ons may be used to record the results of judgments and s checklist for documenting other comments.
 Anchorage 1. Is anchorage configuration verification require of SWEL items requiring such verification)? 	d (i.e., is the item one of the 50% 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 c	oncrete near the anchors? Yes
5. Is the anchorage configuration consistent with This question only applies if the item is one of configuration verification is required.) Drawing M-1219 Sheet 3 Revision AH Detail	plant documentation? (Note: Yes the 50% for which an anchorage 81
6. Based on the above anchorage evaluations, is potentially adverse seismic conditions?	the anchorage free of Yes

Seism	ic Walkdown Checklist (SWC)	Status: Y N U
	Equipment ID No.: 1FC01A	
	Equipment Class: (21) Tanks and Heat Exchangers	
	Equipment Description: SPENT FUEL PIT HEAT EXCHANGER	
Intera	ction Effects	
7.	Are soft targets free from impact by nearby equipment or structures?	Yes
8.	Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	Yes
9.	Do attached lines have adequate flexibility to avoid damage?	Yes
10.	Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	Yes
<u>Other</u> 11.	Adverse Conditions Have you looked for and found no adverse seismic conditions that could adversely affect the safety functions of the equipment?	Yes
	No structural/seismic issues	
Comm	nents	
Seismi	ic walkdown team M. Delaney & P. Gazda 8/9/12 am	
Evalua	ated by: Marlene Delaney Date: 1 C.C. Mych Philip Gazda 1	0/5/2012 0/5/2012

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.:	1FC01A	
Equipment Class:	(21) Tanks and Heat Exchangers	
Equipment Description:	SPENT FUEL PIT HEAT EXCHANGER	



1FC01A Byron 1 & 2 8-9-12 011

1FC01A Byron 1 & 2 8-9-12 012

Seismic Walkdown Checklist (SWC)	Y N U
Equipment ID No : 1EC01P	
Equipment Class: (5) Horizontal Pumps	
Equipment Description: U-1 FUEL POOL COOLING PUMP	,
Project: Byron 1 SWEL	
Location (Bldg, Elev, Room/Area): Auxiliary, 401.00 ft, ALL	
Manufacturer/Model:	
Instructions for Completing Checklist	
This checklist may be used to document the results of the Seismic Walkdown of an item of equipment of SWEL. The space below each of the following questions may be used to record the results of judgmen findings. Additional space is provided at the end of this checklist for documenting other comments.	on the its and
Anchorage	
 Is anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? 	Yes
2. Is the anchorage free of bent, broken, missing or loose hardware?	Yes
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	Yes
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Yes
5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) Drawing M-1219 Sheet 3 Revision AH	Yes
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	Yes

Saismic Walkdown Chacklist	(SWC)	Status: Y N U
Equipment ID No :	15C01P	
Equipment Class.		
Equipment Description:	U-1 FUEL POOL COOLING PUMP	
Interaction Effects 7. Are soft targets free fro	m impact by nearby equipment or structures?	Yes
,		· · · ·
8. Are overhead equipme masonry block walls no	nt, distribution systems, ceiling tiles and lighting, and t likely to collapse onto the equipment?	Yes
Masonry walls are seis	mic and would not collapse on 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 smic interaction effects?	Yes
Other Adverse Conditions		· · · · · · · · · · · · · · · · · · ·
11. Have you looked for ar adversely affect the sa	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:	Marlene Delane	y Date:	10/5/2012
	C.U. Mych Philip Gazda	, <u> </u>	10/5/2012
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Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.:	1FC01P
Equipment Class:	(5) Horizontal Pumps
Equipment Description:	U-1 FUEL POOL COOLING PUMP



1FC01P Byron 1 & 2 8-9-12 020



1FC01P Byron 1 & 2 8-9-12 021

	and the second se	CO	
Status:	Y	Ν	U
olalus.		1.4	

Seismic Walkdown Checklist (SWC)

Equipment ID No .:	1FC01P
Equipment Class:	(5) Horizontal Pumps
Equipment Description:	U-1 FUEL POOL COOLING PUMP



1FC01P Byron 1 & 2 8-9-12 022

Seismic Walkdown Checklist (SV	VC)	Status: Y N U
Equipment ID No. 1E	C8756	
Equipment Class: (0)		
Equipment Description: U1	SPENT FUEL PIT PMP SUCTION ISO	
Project:	Byron 1 SWEL	
Location (Bldg, Elev, Room/Area);	FH. 401.00 ft. ALL	
Manufacturer/Model:		
Instructions for Completing Chec	cklist	<u> </u>
This checklist may be used to docu SWEL. The space below each of the findings. Additional space is provide	ment the results of the Seismic Walkdown of an item o he following questions may be used to record the resul led at the end of this checklist for documenting other co	f equipment on the ts of judgments and omments.
Anchorage		
 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	nt, 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
5. Is the anchorage configura This question only applies i configuration verification is	tion consistent with plant documentation? (Note: if the item is one of the 50% for which an anchorage required.)	Not Applicable
 Based on the above ancho potentially adverse seismic 	rage evaluations, is the anchorage free of conditions?	Yes

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Seismic Walkdown Cher	-kliet (SWC)	Status: Y N U
Equipment ID	No.: 1FC8756	
Equipment Cl	ass: (0) Other	
Equipment Descrip	tion: U1 SPENT FUEL PIT PMP SUCTION ISOL	
Interaction Effects		
7. Are soft targets fre	ee from impact by nearby equipment or structures?	Yes
 Are overhead equ masonry block wa 	ipment, distribution systems, ceiling tiles and lighting, and lis not likely to collapse onto the equipment?	Yes
Masonry walls are	seismic and would not collapse on equipment	·
9. Do attached lines	have adequate flexibility to avoid damage?	Yes
10. Based on the abore potentially adverse	ve seismic interaction evaluations, is equipment free of e seismic interaction effects?	Yes
		,
Other Adverse Condition	<u>)s</u>	
11. Have you looked f adversely affect th	or and found no adverse seismic conditions that could ne safety functions of the equipment?	Yes

Comments

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

	Mailere M.	Selany	`			
Evaluated by:	•	\sim	Marlene Delaney	Date:	10/5/2012	
	C.C. Maye	h Philip	Gazda		10/5/2012	

C-217

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Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.:	1FC8756
Equipment Class:	(0) Other
Equipment Description:	U1 SPENT FUEL PIT PMP SUCTION ISOL



1FC8756 Byron 1 & 2 8-9-12 018



1FC8756 Byron 1 & 2 8-9-12 019

Seismic Walkdown Checklist (SWC)	Status: Y N U
Equipment Class: (0) Other	· · ·
Equipment Description: REFLIELING WTR PURIE PMP SUCT FROM U-1 RWST	
Project: Byron 1 SWEI	
Location (Bldg, Eley, Boom/Area): Auviliany 364.00 ft Al I	
Manufacturar/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	equipment on the of judgments and iments.
Anchorage	
 Is anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? 	No
2. Is the anchorage free of bent, broken, missing or loose hardware?	Not Applicable
	x.
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	Not Applicable
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Not Applicable
 Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) 	Not Applicable
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	Yes

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0 - 1 1 - 1		(0)1(0)	Status: Y N U
Seismic Walkdow		(SWC)	
Equip		(0) Other	
Equip			
		REPUBLING WIR FORIF FIMF SOCI FROM 0-1 RWS1	·
7. Are soft ta	rgets free fro	m impact by nearby equipment or structures?	Yes
8. Are overhe masonry b	ead equipme block walls no	nt, distribution systems, ceiling tiles and lighting, and t likely to collapse onto the equipment?	Yes
9. Do attache	ed lines have	adequate flexibility to avoid damage?	Yes
10. Based on potentially	the above se adverse seis	ismic interaction evaluations, is equipment free of mic interaction effects?	Yes
Other Adverse C	onditions		
11. Have you adversely <i>No struct</i>	looked for ar affect the sa tural/seismic	d found no adverse seismic conditions that could fety functions of the equipment? issues	Yes
<u>Comments</u> Seismic walkdown	i team M. De	aney & P. Gazda 8/21/12 am	
Evaluated by:	Mailes C.C.	Marlene Delaney Date: 1 Marlene Delaney Date: 1 Marden Philip Gazda	0/5/2012 0/5/2012

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No .:	1FC8758
Equipment Class:	(0) Other
Equipment Description:	REFUELING WTR PURIF PMP SUCT FROM U-1 RWST



1FC8758 Byron 1 & 2 8-21-12 004

	Status: Y N U
Seismic Walkdown Checklist (SWC)	
Equipment ID No.: 1FC8762A	
Equipment Class: (0) Other	
Equipment Description: SPENT FUEL PIT HX INLET	
Project: Byron 1 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 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 con	equipment on the of judgments and nments.
Anchorage	
 Is anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? 	No
2. Is the anchorage free of bent, broken, missing or loose hardware?	Not Applicable
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	Not Applicable
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Not Applicable
 Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) 	Not Applicable
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	Yes

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Seismic Walkdown Checklist	(SWC)	Status: Y N U
Equipment ID No :	15087624	
Equipment Class:	(0) Other	
Equipment Description:	SPENT FUEL PIT HX INLET	······
Interaction 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
masonry block walls no	t likely to collapse onto the equipment?	
Masonry walls are seis	mic and would not collapse on equipment	
9. Do attached lines have	adequate flexibility to avoid damage?	Yes
10. Based on the above se	ismic interaction evaluations, is equipment free of	Yes
potentially adverse set	mic interaction effects?	
		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
11 Have you looked for ar	d found no adverse seismic conditions that could	Yes
adversely affect the sa	tety functions of the equipment?	
Rugged valve with ne	arby supports.	
·	• · · ·	
Comments	· · · · · · · · · · · · · · · · · · ·	······
Seismic walkdown team M. De	aney & P. Gazda 8/9/12 am	
Martin		
/ puces	ic my success	
Evaluated by:	Marlene Delaney Date:	10/5/2012
<u> </u>		
6.0	Thyon Philip Gazda	10/5/2012

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No .:	1FC8762A
Equipment Class:	(0) Other
Equipment Description:	SPENT FUEL PIT HX INLET



1FC8762A Byron 1 & 2 8-9-12 004

Seismic Walkdown Checklist (SWC)	Status: Y N U
Equipment ID No.: 1FC8762B	
Equipment Class: (0) Other	
Equipment Description: U1 SPENT FUEL PIT HX OUTLET	
Project: Byron 1 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 SWEL. The space below each of the following questions may be used to record the resu findings. Additional space is provided at the end of this checklist for documenting other of	of equipment on the Its of judgments and omments.
Anchorage	NI-
 Is anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? 	NO
2. Is the anchorage free of bent, broken, missing or loose hardware?	Not Applicable
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	Not Applicable
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Not Applicable
 Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) 	Not Applicable
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	Yes

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Seism	ic Walkdown Checklist	(SWC)			Status: Y N	U
	Equipment ID No.:	1FC8762B				
	Equipment Class:	(0) Other				
	Equipment Description:	U1 SPENT FUEL P	IT HX OUTLET			
Intera	ction Effects				<u></u> .	
7.	Are soft targets free fro	m impact by nearby o	equipment or structures?		Y	es
8.	Are overhead equipme masonry block walls no	nt, distribution systen t likely to collapse or	ns, ceiling tiles and lightir to the equipment?	ng, and	Y	es
9.	Do attached lines have	adequate flexibility to	o avoid damage?		Y	es
10.	Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?				Y	Yes
Other 11.	Adverse Conditions Have you looked for an	d found no adverse s	seismic conditions that co	ould	Y,	es
	adversely affect the sat Valve previously tagge structural/seismic issue	ety functions of the e d for boric acid as pa s.	equipment? rt of BACC Program. No	ıt a		
<u>Comm</u> Seismi	<u>nents</u> ic walkdown team M. Del	aney & P. Gazda 8/9	/12 am			
	Mailes	Le Marlany	<u> </u>			·
Evalua	ated by:		Marlene Delaney	Date: _1	0/5/2012	
	G.0.	Thyoh Phil	in Gazda	1	0/5/2012	

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.:	1FC8762B	_
Equipment Class:	(0) Other	_
Equipment Description:	U1 SPENT FUEL PIT HX OUTLET	



1FC8762B Byron 1 & 2 8-9-12 006
Status: Y N U Seismic Walkdown Checklist (SWC) Equipment ID No.: 1FC8766 Equipment Class: (0) Other SPENT FUEL PIT FLTR DEMIN LOOP RTRN TO U-1 RWST CHECK VLV Equipment Description: Project: Byron 1 SWEL . . . Location (Bldg, Elev, Room/Area): Auxiliary, 364.00 ft, ALL Manufacturer/Model: Instructions for Completing Checklist This checklist may be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments. Anchorage 1. Is anchorage configuration verification required (i.e., is the item one of the 50% No of SWEL items requiring such verification)? 2. Is the anchorage free of bent, broken, missing or loose hardware? Not Applicable 3. Is the anchorage free of corrosion that is more than mild surface oxidation? Not Applicable Is the anchorage free of visible cracks in the concrete near the anchors? Not Applicable 4 5. Is the anchorage configuration consistent with plant documentation? (Note: Not Applicable This guestion only applies if the item is one of the 50% for which an anchorage configuration verification is required.) 6. Based on the above anchorage evaluations, is the anchorage free of Yes potentially adverse seismic conditions?

Seismic Walkdown Checklist (SWC)	S	tatus: YNU
Equipment ID No.: 1FC8766	6	
Equipment Class: (0) Other	r	······································
Equipment Description: SPENT F	FUEL PIT FLTR DEMIN LOOP RTRN TO U-1 RWST	CHECK VLV
Interaction Effects		
7. Are soft targets free from impact I	by nearby equipment or structures?	Yes
· · · · · · · · · · · · · · · · · · ·	· · ·	·
 Are overhead equipment, distribution masonry block walls not likely to compare the second seco	ition systems, ceiling tiles and lighting, and collapse onto the equipment?	Yes
9. Do attached lines have adequate	flexibility to avoid damage?	Yes
10. Based on the above seismic inter potentially adverse seismic intera	raction evaluations, is equipment free of action effects?	Yes
Other Adverse Conditions	·	
11. Have you looked for and found no adversely affect the safety functio No structural/seismic issues	o adverse seismic conditions that could ons of the equipment?	Yes
		· •
Comments		
Seismic walkdown team M. Delaney & P.	Gazda 8/21/12 am	

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	Mailere M Selary	
Evaluated by:	Marlene Delaney Date	e: 10/5/2012
	C.U. Mych Philip Gazda	10/5/2012
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C-229

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.:	1FC8766
Equipment Class:	(0) Other
Equipment Description:	SPENT FUEL PIT FLTR DEMIN LOOP RTRN TO U-1 RWST CHECK VLV



1FC8766 Byron 1 & 2 8-21-12 006

Seismic Walkdown Checklist (SWC)	Status: Y N U
Equipment Close: (0) Other	
Equipment Description. SPENT FOEL FIT PWP DISCH CHECK	
Project. Byton 1 Sviel	· · · · ·
Location (Bidg, Elev, Room/Area): FH, 401.00 π, ALL	
Manufacturer/Model:	
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	quipment on the of judgments and nents.
Anchorage	
 Is anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? 	No
2. Is the anchorage free of bent, broken, missing or loose hardware?	Not Applicable
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	Not Applicable
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Not Applicable
 Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) 	Not Applicable
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	Yes

•

Yes
Yes
Yes
Yes
Yes
-

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No .:	1FC8793
Equipment Class:	(0) Other
Equipment Description:	SPENT FUEL PIT PMP DISCH CHECK

Photos



1FC8793 Byron 1 & 2 8-9-12 008

	Status: Y N U
Seismic Walkdown Checklist (SWC)	
Equipment ID No.: 1FC8794	
Equipment Class: _(0) Other	
Equipment Description: SPENT FUEL PIT FLTR DEMIN LOOP INLT ISOL	
Project: Byron 1 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 ec SWEL. The space below each of the following questions may be used to record the results of findings. Additional space is provided at the end of this checklist for documenting other com-	quipment on the f judgments and nents.
Anchorage	
 Is anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? 	No
2. Is the anchorage free of bent, broken, missing or loose hardware?	Not Applicable
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	Not Applicable
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Not Applicable
 Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) 	Not Applicable
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	Yes

Seismic Walkdown Checklist (SWC)	Status: Y N U
Equipment ID No.: 1FC8794	
Equipment Class: (0) Other	
Equipment Description: SPENT FUEL PIT FLTR DEMIN LOOP INLT ISOL	· · · · · · · · · · · · · · · · · · ·
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
Masonry walls are seismic and would not collapse on equipment	
9. Do attached lines have adequate flexibility to avoid damage?	Yes
	•• • •
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	Yes
Other Adverse Conditions	<u> </u>
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	

Marlene Delaney

Philip Gazda

Date:

10/5/2012

10/5/2012

Evaluated by:

G.U. Mych

C-235

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No .:	1FC8794	
Equipment Class:	(0) Other	
Equipment Description:	SPENT FUEL PIT FLTR DEMIN LOOP INLT ISOL	



1FC8794 Byron 1 & 2 8-9-12 009

Seismic Walkdown Checklist (SWC)	Status: Y N U
Equipment Class: (18) Instruments on Backs	
Project: Pyron 1 SWEI	
Location (Bldg, Eley, Room(Area): Auxiliany 364.00 ft Al.L	
Manufacturor/Model:	
Instructions for Completing Checklist	<u>.</u>
This checklist may be used to document the results of the Seismic Walkdown of an item o 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 co	f equipment on the ts of judgments and pmments.
Anchorage	
1. Is anchorage configuration verification required (i.e., is the item one of the 50%	No
or sweet items requiring such vernication?	
	· · · ·
2. Is the anchorage free of bent, broken, missing or loose hardware?	Not Applicable
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	Not Applicable
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Not Applicable
 Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) 	Not Applicable
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Instrument securely mounted to Rack 1PL97J. Rack is well-braced and anchored with no issues.	Yes

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Seism	ic Walkdown Checklist	(SWC)	Status: Y N U
	Equipment ID No.:	1FT-0121	
	Equipment Class:	(18) Instruments on Racks	
	Equipment Description:	CHARGING LINE D/P CELL FLOW XMITTR	
Interac	ction Effects		
7.	Are soft targets free fro	m impact by nearby equipment or structures?	Yes
8.	Are overhead equipment masonry block walls no	nt, distribution systems, ceiling tiles and lighting, and tikely to collapse onto the equipment?	Yes
	Masonry walls are seis	mic and would not collapse on 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		
	Have you looked for an adversely affect the saf	d found no adverse seismic conditions that could ety functions of the equipment?	Yes

<u>Comments</u>

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

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.:	1FT-0121
Equipment Class:	(18) Instruments on Racks
Equipment Description:	CHARGING LINE D/P CELL FLOW XMITTR



1FT-0121 Byron 1 & 2 8-20-12 060

1FT-0121 Byron 1 & 2 8-20-12 061

	Status: Y N U
Seismic Walkdown Checklist (SWC)	
Equipment ID No.: 1FT-0132	
Equipment Class: (18) Instruments on Racks	
Equipment Description: LETDOWN FLOW D/P CELL	
Project: Byron 1 SWEL	
Location (Bldg, Elev, Room/Area):Auxiliary, 383.00 ft, ALL	· · · ·
Manufacturer/Model:	
Instructions for Completing Checklist This checklist may be used to document the results of the Seismic Walkdown of an item of 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 co	f equipment on the s of judgments and mments.
Anchorage	
 Is anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? 	No
2. Is the anchorage free of bent, broken, missing or loose hardware?	Not Applicable
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	Not Applicable
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Not Applicable
 Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) 	Not Applicable
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Instrument securely mounted to rack that is well-anchored to seismic block wall that would not collapse on equipment	Yes

Seismic V	Valkdown Checklist	(SWC)	Status: Y N U
	Equipment ID No.:	1FT-0132	
	Equipment Class:	(18) Instruments on Racks	
Equ	upment Description:	LETDOWN FLOW D/P CELL	
Interactio	n Effects		
7. Ar	e soft targets free fro	m impact by nearby equipment or structures?	Yes
			· · ·
8. Ar m	e overhead equipmer asonry block walls no	nt, distribution systems, ceiling tiles and lighting, and the likely to collapse onto the equipment?	Yes
M pc	asonry walls are seisi ortion secured by grat	nic and would not collapse on equipment. Removableing.	·
9. Do	o attached lines have	adequate flexibility to avoid damage?	Yes
10. Ва рс	ased on the above se itentially adverse seis	smic interaction evaluations, is equipment free of mic interaction effects?	Yes
			•
Other Adv	verse Conditions		
11. Ha ac	ave you looked for an lversely affect the saf	d found no adverse seismic conditions that could ety functions of the equipment?	Yes

<u>Comments</u>

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

Evaluated by:	Mailere M Selesy	Nariene Delanev	Date:	10/5/2012
	C.U. Mych Philip C	Gazda		10/5/2012
			-	

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.:	1FT-0132	
Equipment Class:	(18) Instruments on Racks	
Equipment Description:	LETDOWN FLOW D/P CELL	



1FT0132 Byron 1 & 2 8-20-12 048



1FT0132 Byron 1 & 2 8-20-12 049

Seismic Walkdown Checklist	(SWC)	Status: Y N U
Equipment ID No.:	1FT-AF014	
Equipment Class:	(18) Instruments on Racks	<u></u>
Equipment Description:	AF TO SG 1B FLOW TRANSMITTER	
Proje	ect: Byron 1 SWEL	<u></u>
Location (Bldg, Elev, Room/Are	ea): Auxiliary, 364.00 ft, ALL	
Manufacturer/Mod		
Instructions for Completing C	Checklist	···
This checklist may be used to c SWEL. The space below each findings. Additional space is pr	locument the results of the Seismic Walkdown of an item of e of the following questions may be used to record the results ovided at the end of this checklist for documenting other com	equipment on the of judgments and ments.
Anchorage		
 Is anchorage configura of SWEL items requirin 	tion verification required (i.e., is the item one of the 50% g such verification)?	No
2. Is the anchorage free o	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 o	of visible cracks in the concrete near the anchors?	Not Applicable
5. Is the anchorage config This question only appl configuration verificatio	guration consistent with plant documentation? (Note: lies if the item is one of the 50% for which an anchorage n is required.)	Not Applicable
6. Based on the above an potentially adverse seis <i>Instrument is securely anchored</i> .	ichorage evaluations, is the anchorage free of smic conditions? attached to Rack 1PL84J which is well-braced and	Yes

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Seismic Walkdown Checklist (SWC)	Status: Y N U
Equipment ID No 1FT-AE014	
Equipment Class: (18) Instruments on Backs	
Equipment Description: AE TO SG 18 ELOW TRANSMITTER	
	·
 Are soft targets free from impact by nearby equipment or structures? 	Yes
Robust barrier protecting equipment/rack. Well-braced and anchored. No structural/seismic issues and acceptable.	
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	Yes
Masonry walls are seismic and would not collapse on equipment Note there is a large crack in the block wall but is not a structural concern since it appears that it is at the end of the wall near the column which is not a location of large stresses. Judged acceptable. Crack justification included in	
Calculation 16.1.2 Revision 2 page 114A.27 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 P. Gazda & M. Delaney 8-20-12 pm	
Evaluated by: Marlene Delaney Date:	0/5/2012
C.C. March Philip Gazda 1	0/5/2012

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.:	1FT-AF014
Equipment Class:	(18) Instruments on Racks
Equipment Description:	AF TO SG 1B FLOW TRANSMITTER



Seismic Walkdown Checklist (SWC)	Status: Y N U		
Equipment Class: (19) Instrumente en Reske			
Equipment Description: SPENT FUEL PIT PUMP C/S Box on waii			
Project: Byron 1 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			
 Is anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? 	No		
2. Is the anchorage free of bent, broken, missing or loose hardware?	Yes		
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	Yes		
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Yes		
 Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) 	Not Applicable		
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Anchored to seismic block wall that would not collapse on equipment	Yes		

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Seismic Walkdown Checklist	(SWC)	Status: Y N U
Equipment ID No.:	1HS-FC001	. <u> </u>
Equipment Class:	(18) Instruments on Racks	·····
Equipment Description:	SPENT FUEL PIT PUMP C/S Box on wall	
Interaction Effects		
Are soft targets free from	om impact by nearby equipment or structures?	Yes
	and the second	
 Are overhead equipme masonry block walls no 	nt, distribution systems, ceiling tiles and lighting, and t likely to collapse onto the equipment?	Yes
Masonry walls are seis	mic and would not collapse on equipment	
9. Do attached lines have	adequate flexibility to avoid damage?	Yes
10. Based on the above se potentially adverse sets	ismic interaction evaluations, is equipment free of smic interaction effects?	Yes
Other Adverse Conditions		
11. Have you looked for an adversely affect the same	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 Seles		Date:	10/5/2012
			-	
	Cu. hada			
		Philip Gazda	-	10/5/2012

Status: Y N U

Seismic Walkdown Checklist (SWC)

1HS-FC001	
(18) Instruments on Racks	
SPENT FUEL PIT PUMP C/S Box on wall	
	1HS-FC001 (18) Instruments on Racks SPENT FUEL PIT PUMP C/S Box on wall



1HS-FC001 Byron 1 & 2 8-9-12 023

Status:	YNU
Equipment ID No.: 11P05E	
Equipment Class: (16) Battery Chargers and Inverters	
Equipment Description: INVERTER INST BUS 111 1-3371 AB1	
Project: Byron 1 SWEL	<u> </u>
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 o SWEL. The space below each of the following questions may be used to record the results of judgment findings. Additional space is provided at the end of this checklist for documenting other comments.	n the ts and
Anchorage	
 Is anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? 	Yes
2. Is the anchorage free of bent, broken, missing or loose hardware?	Yes
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	Yes
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Yes
 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 	Yes
Visually verified anchors through ventilation panel in base of unit.	
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	Yes

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		Status: YNU
Seismic Walkdown Checklis	t (SWC)	
Equipment ID No.:	1IP05E	·
Equipment Class:	(16) Battery Chargers and Inverters	
Equipment Description:	INVERTER INST BUS 111 1-3371 AB1	
Interaction Effects		
7. Are soft targets free free	om impact by nearby equipment or structures?	Yes
8. Are overhead equipme masonry block walls n	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
10. Based on the above s potentially adverse se	eismic interaction evaluations, is equipment free of ismic interaction effects?	Yes
Other Adverse Conditions 11. Have you looked for a adversely affect the sa	nd found no adverse seismic conditions that could afety functions of the equipment?	Yes

<u>Comments</u>

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

Evaluated by:	Mailere M Selary	Marlene Delaney Date	10/5/2012
	O. l. l		
	C. C. Shapeha Philip Ga	zda	10/5/2012

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.:	1IP05E
Equipment Class:	(16) Battery Chargers and Inverters
Equipment Description:	INVERTER INST BUS 111 1-3371 AB1



1IP05E Byron 1 & 2 8-8-12 004

1IP05E Byron 1 & 2 8-8-12 005

Seismic Walkdown Checklist (SWC)	Status: Y N U
Equipment Cleas: (16) Potton: Chargers and Investors	
Equipment Description: INVERTER INST BUS 113 1-3371 AB1	
Project: Byron 1 SWEL	
Location (Bldg, Elev, Room/Area): <u>Auxiliary, 451.00 ft, ALL</u>	
Manufacturer/Model:	
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	equipment on the of judgments and oments.
Anchorage	
 Is anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? 	Yes
2. Is the anchorage free of bent, broken, missing or loose hardware?	Yes
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	Yes
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Yes
 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 	Yes
Anchorage verified through ventilation grating	
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	Yes

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Seismic Walkdow	vn Checklist (SWC)	Status: Y N U
Equipm	nent ID No.: 1IP07E	
Equipn	ment Class: (16) Battery Chargers and Inverters	
Equipment D	Description: INVERTER INST BUS 113 1-3371 AB1	
Interaction Effects	<u>s</u>	
7. Are soft tar	rgets free from impact by nearby equipment or structures?	Yes
Nearby fa	an secured and judged acceptable	
8. Are overhe masonry bl	ead equipment, distribution systems, ceiling tiles and lighting, and lock walls not likely to collapse onto the equipment?	Yes
9. Do attache	ed lines have adequate flexibility to avoid damage?	Yes
10. Based on the potentially a	he above seismic interaction evaluations, is equipment free of adverse seismic interaction effects?	Yes
Other Adverse Co	onditions	
11. Have you le adversely a	ooked for and found no adverse seismic conditions that could affect the safety functions of the equipment?	Yes
•		
<u>Comments</u> Seismic walkdown	team M. Delaney & P. Gazda 8-8-12 am	• •
Evaluated bv:	Marlene Delaney Date:	10/5/2012
	C. U. Mych Philip Gazda	10/5/2012

C-253

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.:	1IP07E		
Equipment Class:	(16) Battery Chargers and Inverters		
Equipment Description:	INVERTER INST BUS 113 1-3371 AB1		



1IP07E Byron 1 & 2 8-8-12 006



1IP07E Byron 1 & 2 8-8-12 007

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 1IP08E	
Equipment Class: (16) Battery Chargers and Inverters	
Equipment Description: INVERTER INST BUS 114 1-3371 AB1	
Project: Byron 1 SWEL	
Location (Bldg, Elev, Room/Area): Auxiliary, 451.00 ft, ALL	
Manufacturer/Model:	
Instructions for Completing Checklist This checklist may be used to document the results of the Seismic Walkdown of a SWEL. The space below each of the following questions may be used to record findings. Additional space is provided at the end of this checklist for documenting	in item of equipment on the he results of judgments and other comments.
 <u>Anchorage</u> 1. Is anchorage configuration verification required (i.e., is the item one of the of SWEL items requiring such verification)? 	∋ 50% 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	ı? Yes
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Yes
 Is the anchorage configuration consistent with plant documentation? (Not This question only applies if the item is one of the 50% for which an anch configuration verification is required.) Drawing 6E-0-3391C Revision BE 	e: Yes orage
Anchorage verified through ventilation panel at base of unit.Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	Yes

			Status: Y N U
Seism	ic Walkdown Checklist	SWC)	
	Equipment ID No.:	1IP08E	
	Equipment Class:	(16) Battery Chargers and Inverters	
	Equipment Description:	INVERTER INST BUS 114 1-3371 AB1	
<u>Intera</u>	ction Effects		
7.	Are soft targets free from	n impact by nearby equipment or structures?	Yes
8.	Are overhead equipmer masonry block walls not Masonry walls are sets	t, distribution systems, ceiling tiles and lighting, and likely to collapse onto the equipment? mic and would not collapse on equipment	Yes
	Adjacent fan secured al	nd judged acceptable	
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.	Have you looked for and adversely affect the safe	found no adverse seismic conditions that could ety functions of the equipment?	Yes

Comments

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

	Marlere M Se	lany			
Evaluated by:		\sim	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.:	1IP08E			
Equipment Class:	(16) Battery Chargers and Inverters	 and the second second		
Equipment Description:	INVERTER INST BUS 114 1-3371 AB1			



1IP08E Byron 1 & 2 8-8-12 024



1IP08E Byron 1 & 2 8-8-12 025

Seismic Walkdown Checklist (SV	NC)	Status: Y N U
	T 0450	
Equipment ID No 1	8) Instruments on Backs	
Equipment Description: Eq		· · · · · · · · · · · · · · · · · · ·
Proiect:	Byron 1 SWEL	
Location (Bldg, Elev, Room/Area):	Cont, 377.00 ft, ALL	
Manufacturer/Model:		· · · · · · · · · · · · · · · · · · ·
Instructions for Completing Che	cklist	
This checklist may be used to docu SWEL. The space below each of t findings. Additional space is provid	ument the results of the Seismic Walkdown of an item on he following questions may be used to record the result ded at the end of this checklist for documenting other ca	of equipment on the Its of judgments and comments.
Anchorage		
 Is anchorage configuration of SWEL items requiring signal 	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 vis	sible cracks in the concrete near the anchors?	Not Applicable
 Is the anchorage configura This question only applies configuration verification is 	ation consistent with plant documentation? (Note: if the item is one of the 50% for which an anchorage a required.)	Not Applicable
 Based on the above anchor potentially adverse seismic 	orage evaluations, is the anchorage free of c conditions?	Yes

•

Seismic Walkdo	wn Checklist (SWC)	Status: Y	N U
Fauip	ment ID No 11 T-0459		
Equip	pment Class: (18) Instruments on Racks	· · ·	
Equipment	t Description: EQ PRESSURIZER LEVEL TRANSMITTER		
Interaction Effect	<u></u>		
7. Are soft t	argets free from impact by nearby equipment or structures?		Yes
8. Are overh masonry	nead 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
10. Based on potentiall	n the above seismic interaction evaluations, is equipment free of y adverse seismic interaction effects?		Yes
Other Adverse C	Vanditiona	at #	
11. Have you adversely	I looked for and found no adverse seismic conditions that could affect the safety functions of the equipment?	·	Yes
Comments Seismic Walkdow	vn Team: P. Gazda & J. Griffith - 9/19/2012		
Evaluated by:	James Griffith Date:	10/5/2012	
	C.U. Magch Philip Gazda	10/5/2012	
		<u> </u>	

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No .:	1LT-0459	
Equipment Class:	(18) Instruments on Racks	
Equipment Description:	EQ PRESSURIZER LEVEL TRANSMITTER	

Photos



1LT-0459 BYRON 017



1LT-0459 BYRON 018

Status: Y N U Seismic Walkdown Checklist (SWC) Equipment ID No.: 1LT-0518 Equipment Class: (18) Instruments on Racks Equipment Description: S/G 1A LEVEL LOOP D/P XMTTR 2/FILLED LEG Project: Byron 1 SWEL Location (Bldg, Elev, Room/Area): Cont, 412.00 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 З. Is the anchorage free of corrosion that is more than mild surface oxidation? Not Applicable Is the anchorage free of visible cracks in the concrete near the anchors? Not Applicable 4. 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? 4 mounting bolts from instrument to rack. Rack anchorage to wall is acceptable.

Seismic Walkdown Checklis	t (SWC)		Status: Y N U
Equipment ID No.:	1LT-0518		
Equipment Class:	(18) Instruments on Racks	·	
Equipment Description:	S/G 1A LEVEL LOOP D/P XMTTR 2/FILLED LE	G	
Interaction Effects			
7. Are soft targets free free	om impact by nearby equipment or structures?		Yes
 Are overhead equipme masonry block walls n 	ent, distribution systems, ceiling tiles and lighting, a ot likely to collapse onto the equipment?	Ind	Yes
9. Do attached lines have	e adequate flexibility to avoid damage?		Yes
10. Based on the above se potentially adverse se	eismic interaction evaluations, is equipment free of smic interaction effects?		Yes
Other Adverse Conditions		<u>, .</u>	
11. Have you looked for a adversely affect the sa	nd found no adverse seismic conditions that could fety functions of the equipment?		Yes
<u>Comments</u> Seismic Walkdown Team: P. C	Gazda & J. Griffith - 9/19/2012		
Evaluated by:	James Griffith	Date:	10/5/2012
G.0	. Jhych Philip Gazda		10/5/2012
Photos		-	

C-262

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.:	1LT-0518	
Equipment Class:	(18) Instruments on Racks	
Equipment Description:	S/G 1A LEVEL LOOP D/P XMTTR 2/FILLED LEG	



1LT-0518 BYRON 010
Ocioania Mallalanan Okooluiat (OMO)	Status: Y N U
Seismic Walkdown Checklist (SWC)	
Equipment ID No.: <u>1LT-0932</u>	
Equipment Class: (18) Instruments on Racks	
Equipment Description: REF WTR STG TK LVL D/P XMTTR	
Project: Byron 1 SWEL	
Location (Bldg, Elev, Room/Area):Auxiliary, 379.00 ft, ALL	• •
Manufacturer/Model:	
Instructions for Completing Checklist This checklist may be used to document the results of the Seismic Walkdown of an item o SWEL. The space below each of the following questions may be used to record the resul findings. Additional space is provided at the end of this checklist for documenting other co	f equipment on the ts of judgments and omments.
Anchorage	
 Is anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? 	No
2. Is the anchorage free of bent, broken, missing or loose hardware?	Not Applicable
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	Not Applicable
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Not Applicable
 Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) 	Not Applicable
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Instrument is securely attached on rack that is well-anchored to concrete wall.	Yes

Seismic Walkdown Checklist (SWC)	Status: Y N U
Equipment ID No.: 1LT-0932	
Equipment Class: (18) Instruments on Racks	
Equipment Description: REF WTR STG TK LVL D/P XMTTR	
Interaction Effects	
7. Are soft targets free from impact by nearby equipment or structures?	Yes
8 Are overhead equinment distribution systems, cailing tiles and lighting, and	Yes
masonry block walls not likely to collapse onto the equipment?	103
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 8/8/12 pm	

Evaluated by:

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

10/5/2012

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No .:	1LT-0932
Equipment Class:	(18) Instruments on Racks
Equipment Description:	REF WTR STG TK LVL D/P XMTTR

Photos



1LT-0932 Byron 1 & 2 8-8-12 049

Status: Y N U Seismic Walkdown Checklist (SWC) Equipment ID No.: 1MS001A Equipment Class: (7) Fluid-Operated Valves Equipment Description: MS ISOL VLV LOOP 1A ASMBLY; 30-1/4" Project: Byron 1 SWEL Location (Bldg, Elev, Room/Area): Auxiliary, 377:00 ft, ALL Manufacturer/Model: Instructions for Completing Checklist This checklist may be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments. <u>Anchorage</u> 1. Is anchorage configuration verification required (i.e., is the item one of the 50% No of SWEL items requiring such verification)? Not Applicable Is the anchorage free of bent, broken, missing or loose hardware? 2. Is the anchorage free of corrosion that is more than mild surface oxidation? Not Applicable 3 Is the anchorage free of visible cracks in the concrete near the anchors? Not Applicable 4. 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 v potentially adverse seismic conditions?

Equipment ID No: 1MS001A Equipment Class: (7) Fluid-Operated Valves Equipment Description: MS ISOL VLV LOOP 1A ASMBLY; 30-1/4" Interaction Effects Yes 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 11. Have you looked for and found no adverse seismic conditions that could adversely affect the safety functions of the equipment? Yes Bolt missing at accumulator (tip of valve). System Engineer contacted and missing bolts are acceptable since they only used for rigging. Not a structural/seismic issue. Yes Comments Seismic walkdown team M. Delaney & P. Gazda 8-7-12 am Date: 10/5/2012 Evaluated by: Martene Delaney Date: 10/5/2012	Seismic Walkdow	n Checklist	(SWC)				Status: Y]N U
Equipment Class: (7) Fluid-Operated Valves Equipment Description: MS ISOL VLV LOOP 1A ASMBLY; 30-1/4" Interaction Effects 7. Are soft targets free from impact by nearby equipment or structures? Yes 8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and 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 11. Have you looked for and found no adverse seismic conditions that could adversely affect the safety functions of the equipment? Yes 20mments Seismic excumulator (for go vaive). System Engineer contacted and missing bolts are acceptable since they only used for rigging. Not a structural/seismic issue. Yes Comments Seismic walkdown team M. Delaney & P. Gazda 8-7-12 am Date: 10/5/2012 Evaluated by: Marlene Delaney Date: 10/5/2012	Equipm	nent ID No.:	1MS001A					
Equipment Description: MS ISOL VLV LOOP 1A ASMBLY; 30-1/4" Interaction Effects 7. Are soft targets free from impact by nearby equipment or structures? Yes 8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and 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 11. Have you looked for and found no adverse seismic conditions that could adversely affect the safety functions of the equipment? Yes 12. Bott missing at accumulator (for of valve). System Engineer contacted and missing bolts are acceptable since they only used for rigging. Not a structural/seismic issue. Yes Comments Seismic walkdown team M. Delaney & P. Gazda 8-7-12 am Date: 10/5/2012 Evaluated by: Marlene Delaney Date: 10/5/2012	Equip	ment Class:	(7) Fluid-Opera	ted Valve	S			
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 Yes 11. Have you looked for and found no adverse seismic conditions that could adversely affect the safety functions of the equipment? Yes Bolt missing at accumulator (tôp of valve). System Engineer contacted and missing bolts are acceptable since they only used for rigging. Not a structural/seismic issue. Yes Comments Selsmic walkdown team M. Delaney & P. Gazda 6-7-12 am Marlene Delaney Date: 10/5/2012 Evaluated by: Marlene Delaney Date: 10/5/2012 10/5/2012	Equipment [Description:	MS ISOL VLV I	_00P 1A	ASMBLY; 30-1/4"			<u> </u>
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 Yes Bolt missing at accumulator (top of valve) . System Engineer contacted and missing bolts are acceptable since they only used for rigging. Not a structural/seismic issue. Yes Comments Seismic walkdown team M. Delaney & P. Gazda 8-7-12 am Marlene Delaney Date: 10/5/2012 Evaluated by: Marlene Delaney Date: 10/5/2012 Philip Gazda 10/5/2012	Interaction Effect	<u>s</u> .	<u>,</u>					
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 Yes 11. Have you looked for and found no adverse seismic conditions that could adversely affect the safety functions of the equipment? Yes Bolt missing at accumulator (top of valve). System Engineer contacted and missing bolts are acceptable since they only used for rigging. Not a structural/seismic issue. Yes Comments Seismic walkdown team M. Delaney & P. Gazda 8-7-12 am Date: 10/5/2012 Evaluated by: Martene Delaney Date: 10/5/2012 Martene Delaney Date: 10/5/2012	7. Are soft ta	rgets free fro	m impact by nea	rby equip	ment or structures?			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 Yes 11. Have you looked for and found no adverse seismic conditions that could adversely affect the safety functions of the equipment? Yes Bolt missing at accumulator (top of valve). System Engineer contacted and missing bolts are acceptable since they only used for rigging. Not a structural/seismic issue. Yes Comments Seismic walkdown team M. Delaney & P. Gazda 8-7-12 am Date: 10/5/2012 Evaluated by: Marlene Delaney Date: 10/5/2012 Marlene Delaney Date: 10/5/2012 10/5/2012	8. Are overhe masonry b	ad equipmer lock walls no	nt, distribution sy t likely to collaps	stems, ce e onto the	eiling tiles and lighting e equipment?	ı, and		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 Bolt missing at accumulator (top of valve). System Engineer contacted and missing bolts are acceptable since they only used for rigging. Not a structural/seismic issue. Yes Comments Seismic walkdown team M. Delaney & P. Gazda 8-7-12 am Date: 10/5/2012 Evaluated by: Marlene Delaney Date: 10/5/2012 Marlene Delaney Date: 10/5/2012 10/5/2012	9. Do attache	ed lines have	adequate flexibil	lity to avo	id damage?			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 Bolt missing at accumulator (top of valve). System Engineer contacted and missing bolts are acceptable since they only used for rigging. Not a structural/seismic issue. Yes Comments Seismic walkdown team M. Delaney & P. Gazda 8-7-12 am Date: 10/5/2012 Marlene Delaney Date: 10/5/2012	10. Based on t potentially	he above se adverse seis	ismic interaction mic interaction e	evaluatio ffects?	ns, is equipment free	of		Yes
11. Have you looked for and found no adverse seismic conditions that could adversely affect the safety functions of the equipment? Yes Bolt missing at accumulator (top of valve). System Engineer contacted and missing bolts are acceptable since they only used for rigging. Not a structural/seismic issue. Not a Comments Seismic walkdown team M. Delaney & P. Gazda 8-7-12 am Image: Comments of the equipment of	Other Adverse Co	onditions	·					
Comments Seismic walkdown team M. Delaney & P. Gazda 8-7-12 am Fealuated by: Marlene Delaney Date: 10/5/2012 C.U. Mark Philip Gazda 10/5/2012	11. Have you l adversely Bolt miss missing bo structural/s	ooked for an affect the saf ing at accum Its are accep seismic issue	d found no adve ety functions of t ulator (top of val stable since they	rse seism he equipr ve). Syst only used	ic conditions that coun nent? em Engineer contact d for rigging. Not a	ld ed and		Yes
Seismic walkdown team M. Delaney & P. Gazda 8-7-12 am Evaluated by: Marlene Delaney Date: 10/5/2012 O. M. Mark Philip Gazda 10/5/2012	Comments							
Evaluated by: Marlene Delaney Date: 10/5/2012 C.U. Marlene Delaney 10/5/2012 10/5/2012	Seismic walkdown	team M. Del	aney & P. Gazda	a 8-7-12 a	m			
C.U. Mych Philip Gazda 10/5/2012	Evaluated by:	Mailes	e M Sela	ry-	Marlene Delanev	Data	10/5/2012	
C.C. Magaha Philip Gazda 10/5/2012	Lyaiuateu Dy.	\sim	1. 1		manene Delaney	- Dale.		
		6.0.	Thych	Philip Ga	azda	_	10/5/2012	

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Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.:	1MS001A	
Equipment Class:	(7) Fluid-Operated Valves	
Equipment Description:	MS ISOL VLV LOOP 1A ASMBLY; 30-1/4"	

Photos



1MS001A Byron 1 & 2 159



1MS001A Byron 1 & 2 160

Seismic Walkdown Checklist (SW	IC)	Status: Y N U
Equipment ID No.: 1M	IS018A	
Equipment Class: (8)	Motor-Operated and Solenoid-Operated Valves	
Equipment Description: S/0	G 1A PORV ASMBLY; 8"	
Project:	Byron 1 SWEL	
Location (Bldg, Elev, Room/Area):	Auxiliary, 401.00 ft, ALL	
Manufacturer/Model:	· · · · ·	
Instructions for Completing Cheo	klist	
This checklist may be used to docu SWEL. The space below each of th findings. Additional space is provid	ment the results of the Seismic Walkdown of an item of ne following questions may be used to record the results ed at the end of this checklist for documenting other cor	equipment on the s of judgments and mments.
<u>Anchorage</u>		
1. Is anchorage configuration	verification required (i.e., is the item one of the 50%	No
2. Is the anchorage free of be	nt, 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	ible cracks in the concrete near the anchors?	Not Applicable
 Is the anchorage configural This question only applies i configuration verification is 	tion consistent with plant documentation? (Note: f the item is one of the 50% for which an anchorage required.)	Not Applicable
 Based on the above anchor potentially adverse seismic 	rage evaluations, is the anchorage free of conditions?	Yes

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Seismic Walkdown Checklist (SWC)	Status: Y N U
Equipment ID No.: 1MS018A	
Equipment Class: (8) Motor-Operated and Solenoid-Operated Valves	
Equipment Description: S/G 1A PORV ASMBLY; 8"	· · · · · · · · · · · · · · · · · ·
Interaction Effects	••••••••••••••••••••••••••••••••••••••
7. Are soft targets free from impact by nearby equipment or structures?	Yes
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and 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? There is degradation at the joint at the containment. 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.	Yes
<u>Comments</u> Seismic walkdown team M. Delaney & P. Gazda 8/7/12 am	

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Seismic Walkdow	n Checklist	(SWC)			Status: Y N U
Equipm	nent ID No.:	1MS018A			
Equip	ment Class:	(8) Motor-Operated and	d Solenoid-Operated V	alves	
Equipment I	Description:	S/G 1A PORV ASMBL	Y; 8"		
Evaluated by:	Mailes C. C.	Malany Mych Philip C	Marlene Delaney Bazda	Date:	10/5/2012

Photos



Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.:	1MS018A
Equipment Class:	(8) Motor-Operated and Solenoid-Operated Valves
Equipment Description:	S/G 1A PORV ASMBLY; 8"



1MS018A Byron 1 & 2 155

Seismic Walkdown Checklist (SWC)	Status: Y N U
Equipment ID No.: 1MS018B	1.
Equipment Class: (8) Motor-Operated and Solenoid-Operated Valves	
Equipment Description: S/G 1B PORV ASMBLY; 8"	· · · · · · · · · · · · · · · · · · ·
Project: Byron 1 SWEL	
Location (Bldg, Elev, Room/Area): Auxiliary, 401.00 ft, ALL	vetta
Manufacturer/Model:	· · · · · · · ·
Instructions for Completing Checklist This checklist may be used to document the results of the Seismic Walkdown of an item of SWEL. The space below each of the following questions may be used to record the results findings. Additional space is provided at the end of this checklist for documenting other co	f equipment on the s of judgments and mments.
 Is anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? 	No
2. Is the anchorage free of bent, broken, missing or loose hardware?	Not Applicable
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	Not Applicable
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Not Applicable
 Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) 	Not Applicable
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	Yes

Status: Y N U

Seismic Walkdov	vn Checklist (SWC)		
Equipr	nent ID No.: 1MS018B		
Equip	ment Class: (8) Motor-Operated	d and Solenoid-Operated Valves	
Equipment	Description: S/G 1B PORV ASM	MBLY; 8"	
Interaction Effect	<u>s</u>		
7. Are soft ta	rgets free from impact by nearby	equipment or structures?	Yes
	,		
			*
8. Are overh masonry b	ead equipment, distribution system lock walls not likely to collapse of	ms, ceiling tiles and lighting, and nto the equipment?	Yes
	· .		
9. Do attach	ed lines have adequate flexibility t	to avoid damage?	Yes
10. Based on potentially	the above seismic interaction eva adverse seismic interaction effec	aluations, is equipment free of sts?	Yes
Other Adverse Control Other Adverse Control Other Adversely	onditions looked for and found no adverse affect the safety functions of the e	seismic conditions that could equipment?	Yes
Comments Seismic walkdown	team M. Delaney & P. Gazda 8/7	7/12 am	
Evaluated by:	Mailere Marlen	Marlene Delaney Date	: 10/5/2012
	C.C. Shych Phi	ilip Gazda	10/5/2012
		·······	

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.:	1MS018B
Equipment Class:	(8) Motor-Operated and Solenoid-Operated Valves
Equipment Description:	S/G 1B PORV ASMBLY; 8"

Photos



1MS018B Byron 1 & 2 152



1MS018B Byron 1 & 2 153

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Seismic Walkdown Checklist (SWC)	Status: Y N U
Equipment ID No.: 1PA01J	
Equipment Class: (20) Instrumentation and Control Panels and Cabinets	
Equipment Description: U-1 PROC I&C RACK PROTECT CH 1 CAB 1	,
Project: Byron 1 SWEL	·····
Location (Bldg, Elev, Room/Area): Auxiliary, 451.00 ft, ALL	
Manufacturer/Model:	
Instructions for Completing Checklist	
This checklist may be used to document the results of the Seismic Walkdown of an item of ex 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 comp	quipment on the of judgments and ments.
Anchorage	
 Is anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? 	No
2. Is the anchorage free of bent, broken, missing or loose hardware?	Yes
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	Yes
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Yes
 Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) 	Not Applicable
 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

Seismic Walkdown Checklist	t (SWC)	Status: Y N U
Equipment ID No.:	1PA01J	
Equipment Class:	(20) Instrumentation and Control Panels and Cabinets	
Equipment Description:	U-1 PROC I&C RACK PROTECT CH 1 CAB 1	
Interaction Effects		
7. Are soft targets free fro	om impact by nearby equipment or structures?	Yes
Cabinets are bolted to seismic event.	ogether to eliminate spatial interaction issues during a	
8. Are overhead equipme masonry block walls no Numerous partially of become disengaged si are open - judged acce hooks.	ent, distribution systems, ceiling tiles and lighting, and ot likely to collapse onto the equipment? one S-hooks identified. It is unlikely that the lights would ince the hooks are only partially open and not all hooks aptable. IR 1397693 written to inspect and fully close S-	Yes
9. Do attached lines have	e adequate flexibility to avoid damage?	Yes
10. Based on the above se potentially adverse sei	eismic interaction evaluations, is equipment free of smic interaction effects?	Yes
· · · · · · · · · · · · · · · · · · ·		
Other Adverse Conditions 11. Have you looked for an adversely affect the sa	nd found no adverse seismic conditions that could fety functions of the equipment?	Yes
Comments		
Seismic walkdown team M. De	laney & P. Gazda 8/6/12 pm	
Evaluated by:	Marlene Delaney Date: 11 Marlene Delaney Date: 11 Marlene Delaney Date: 11	0/5/2012 0/5/2012

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Seismic Walkdown Checklist	(SWC)	Status: Y N	U
Equipment ID No.:	1PA01J	1	
Equipment Class:	(20) Instrumentation and Control Panels and Cabinets	annonista na seguna dal 10 se nova a canton se s 8. 18 180 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19	
Equipment Description:	U-1 PROC I&C RACK PROTECT CH 1 CAB 1		



Seismic Walkdown Checklist (SWC)	Status: Y N U
Equipment ID No.: 1PA02J	
Equipment Class: (20) Instrumentation and Control Panels and Cabinets	
Equipment Description: U-1 PROC I&C RACK PROTECT CH 2 CAB 2	
Project: Byron 1 SWEL	
Location (Bldg, Elev, Room/Area):Auxiliary, 451.00 ft, ALL	
Manufacturer/Model:	
Instructions for Completing Checklist This checklist may be used to document the results of the Seismic Walkdown of an item of 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 cor	equipment on the of judgments and nments.
 <u>Anchorage</u> 1. Is anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? 	No
2. Is the anchorage free of bent, broken, missing or loose hardware?	Yes
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	Yes
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Yes
 Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) 	Not Applicable
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? See discussion in Section 5 of report to address cove molding at anchorage detail. Anchorage is judged to be acceptable.	Yes

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Seismic Walkdown Checklist (SWC)	Status: Y N U
Equipment ID No.: 1PA02J	
Equipment Class: (20) Instrumentation and Control Panels and Cat	pinets
Equipment Description: U-1 PROC I&C RACK PROTECT CH 2 CAB 2	· · · · · · · · · · · · · · · · · · ·
Interaction Effects	
7. Are soft targets free from impact by nearby equipment or structures?	Yes
Cabinets are bolted together to eliminate spatial interaction issues during seismic event.	g a
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, at masonry block walls not likely to collapse onto the equipment? Numerous partially open S-hooks identified. It is unlikely that the lights to become disengaged since the hooks are only partially open and not all ho are open - judged acceptable. IR 1397693 written to inspect and fully clochooks.	nd Yes would poks se S-
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

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

	Mailere M Su	lasy	\ \		······
Evaluated by:		\bigcirc	Marlene Delaney	_ Date:	10/5/2012
	C.U. Mych	Philip G	azda		10/5/2012
				-	

		Status: Y N U
Seismic Walkdown Checklist	(SWC)	
Equipment ID No.:	1PA02J	
Equipment Class:	(20) Instrumentation and Control Panels and Cabinets	
Equipment Description:	U-1 PROC I&C RACK PROTECT CH 2 CAB 2	
Photos		





Soismia Malkdown Chacklist (SMC)	Status: Y N U
Equipment ID No.: 1PA03J	
Equipment Class: (20) Instrumentation and Control Panels and Cabinets	
Equipment Description: U-1 PROC I&C RACK PROTECT CH 3 CAB 3	
Project: Byron 1 SWEL	
Location (Bldg, Elev, Room/Area): Auxiliary, 451.00 ft, ALL	
Manufacturer/Model:	·
Instructions for Completing Checklist This checklist may be used to document the results of the Seismic Walkdown of an item of e	auipment on the
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	
 Is anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? 	No
	No. 1
2. Is the anchorage free of bent, broken, missing or loose hardware?	tes
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 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	,

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Seismic Walkdown Checklist	(SWC)	Status: Y N U
Equipment ID No.:	1PA03J	·
Equipment Class:	(20) Instrumentation and Control Panels and Cabinets	··· .
Equipment Description:	U-1 PROC I&C RACK PROTECT CH 3 CAB 3	
Interaction Effects		
7. Are soft targets free from	m impact by nearby equipment or structures?	Yes
Cabinets are bolted to seismic event.	gether to eliminate spatial interaction issues during a	
8. Are overhead equipmer masonry block walls no Numerous partially op become disengaged sir are open - judged accej hooks.	nt, distribution systems, ceiling tiles and lighting, and t likely to collapse onto the equipment? en S-hooks identified. It is unlikely that the lights would ace the hooks are only partially open and not all hooks otable. IR 1397693 written to inspect and fully close S-	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. Have you looked for an adversely affect the saf	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

, pue	Me Marlesy			
Evaluated by:	Marlene Delaney	Date:	10/5/2012	
<i>G.t</i>	. Mych Philip Gazda		10/5/2012	

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.:	1PA03J	
Equipment Class:	(20) Instrumentation and Control Panels and Cabinets	
Equipment Description:	U-1 PROC I&C RACK PROTECT CH 3 CAB 3	

Photos



Seismic Walkdown Checklist (SWC)	Status: Y N U
Equipment ID No.: 1PA04J	
Equipment Class: (20) Instrumentation and Control Panels and Cabir	nets
Equipment Description: U-1 PROC I&C RACK PROTECT CH 4 CAB 4	
Project: Byron 1 SWEL	
Location (Bldg, Elev, Room/Area): Auxiliary, 451.00 ft, ALL	
Manufacturer/Model:	
Instructions for Completing Checklist	
This checklist may be used to document the results of the Seismic Walkdown of an SWEL. The space below each of the following questions may be used to record the findings. Additional space is provided at the end of this checklist for documenting of the space space.	item of equipment on the e results of judgments and ther comments.
Anchorage	
 Is anchorage configuration verification required (i.e., is the item one of the sof SWEL items requiring such verification)? 	50% 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
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 anchor configuration verification is required.)	Not Applicable age
 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 anchora detail. Anchorage is judged to be acceptable. 	Yes

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Status: Y N U

Seismic Walkdown	Checklist (SWC)
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	Equipment ID No	o.: 1PA04J		_		
	Equipment Clas	s: (20) Instrumentation a	and Control Panels and	Cabinets		
	Equipment Descriptio	n: U-1 PROC I&C RACK	PROTECT CH 4 CAB	4		
<u>Interac</u>	ction_Effects					
7.	Are soft targets free	from impact by nearby eq	uipment or structures?		,	Yes
	Cabinets are bolted seismic event.	I together to eliminate spa	tial interaction issues dເ	ıring a		
8.	Are overhead equips masonry block walls Numerous partially become disengaged are open - judged ac hooks.	nent, distribution systems not likely to collapse onto open S-hooks identified. since the hooks are only ceptable. IR 1397693 wr	, ceiling tiles and lighting the equipment? It is unlikely that the ligh partially open and not al itten to inspect and fully	, and ts would I hooks close S-		Yes
9.	Do attached lines ha	ve adequate flexibility to a	void damage?			Yes
2						
10.	Based on the above	seismic interaction evalua	itions, is equipment free	of		Yes
					· ·	
Other /	Adverse Conditions					
11.	Have you looked for adversely affect the	and found no adverse sei safety functions of the equ	smic conditions that cou ipment?	ıld		Yes
Comm	ents				····	
Seismi	c walkdown team M. I	Delaney & P. Gazda 8/6/1	2 pm			
	Mail	ere Marlany				<u>.</u>
Evalua	ted by:	0	Marlene Delaney	Date:	10/5/2012	
	G.L	i. Jazoh Philip	Gazda		10/5/2012	

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.:	1PA04J	
Equipment Class:	(20) Instrumentation and Control Panels and Cabinets	
Equipment Description:	U-1 PROC I&C RACK PROTECT CH 4 CAB 4	

Photos



1PA04J Byron 1 & 2 095

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Seismic Walkdown Checklist (SWC)
Equipment ID No. 18406 J
Equipment (Jass: (20) Instrumentation and Control Panels and Cabinets
Equipment Description: U 1 PPOC ISC PACK CONT CPP 2 CAP 6
Breiget: Byren 1 SWEL
Leastion (Pldg Elay Ream(Area)) Auxiliant 451.00 ft Al.L
Location (blug, Elev, Room/Area). Auxiliary, 451.00 h, ALL
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? Yes
3. Is the anchorage free of corrosion that is more than mild surface oxidation? Yes
4. Is the anchorage free of visible cracks in the concrete near the anchors? Yes
 Is the anchorage configuration consistent with plant documentation? (Note: Not Applicable This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)
 Based on the above anchorage evaluations, is the anchorage free of Yes potentially adverse seismic conditions? See discussion in Section 5 of report to address cove molding at anchorage detail. Anchorage is judged to be acceptable.

Seismic Walkdown Checklist	t (SWC)	Status: Y N U
Equipment ID No.:	1PA06J	
Equipment Class:	(20) Instrumentation and Control Panels and Cabinets	· · · · · · · · · · · · · · · · · · ·
Equipment Description:	U-1 PROC I&C RACK CONT GRP 2 CAB 6	
Interaction Effects	······································	
7. Are soft targets free fro	om impact by nearby equipment or structures?	Yes
 Cabinets are bolted to seismic event. Cabinet is 1 3/4" away cabinets bolted togethe 8. Are overhead equipme masonry block walls no Numerous partially or become disengaged si are open - judged acce hooks. 9. Do attached lines have 	ogether to eliminate spatial interaction issues during a from Column P12. Adequate clearance for string of er and is judged acceptable. ent, distribution systems, ceiling tiles and lighting, and ot likely to collapse onto the equipment? onen S-hooks identified. It is unlikely that the lights would ince the hooks are only partially open and not all hooks eptable. IR 1397693 written to inspect and fully close S- e adequate flexibility to avoid damage?	Yes Yes
10. Based on the above se potentially adverse seis	eismic interaction evaluations, is equipment free of smic interaction effects?	Yes
Other Adverse Conditions	· ·	
11. Have you looked for ar adversely affect the sa	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 8/6/12 pm	
Evaluated by:	Marlene Delaney Date:	10/5/2012

Evaluated by: C. C. Maych

Marlene Delaney Date: 10/5/2012
Philip Gazda 10/5/2012

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.:	1PA06J	
Equipment Class:	(20) Instrumentation and Control Panels and Cabinets	
Equipment Description:	U-1 PROC I&C RACK CONT GRP 2 CAB 6	



Status: Y N U

Seismic Walkdown Checklist (SWC) Equipment ID No.: 1PA07J Equipment Class: (20) Instrumentation and Control Panels and Cabinets Equipment Description: PROC I&C RACK CONT GRP 3 CAB 7 Project: Byron 1 SWEL Location (Bldg, Elev, Room/Area): Auxiliary, 451.00 ft, ALL Manufacturer/Model: Instructions for Completing Checklist This checklist may be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments. Anchorage 1. Is anchorage configuration verification required (i.e., is the item one of the 50% No of SWEL items requiring such verification)? 2. Is the anchorage free of bent, broken, missing or loose hardware? Yes 3. Is the anchorage free of corrosion that is more than mild surface oxidation? Yes 4. Is the anchorage free of visible cracks in the concrete near the anchors? Yes 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.

• • • • • • • •					Status: Y]N U
Seismic Walkdow	n Checklist	(SWC)				
Equipn	nent ID No.:	1PA07J	·			·
Equip	ment Class:	(20) Instrumentation	and Control Panels and	Cabinets		
Equipment I	Description:	PROC I&C RACK CO	ONT GRP 3 CAB 7		•	
Interaction Effect	<u>s</u>					
7. Are soft ta	rgets free fro	m impact by nearby eo	quipment or structures?	•		Yes
Cabinets seismic ev	are bolted to ent.	gether to eliminate sp	atial interaction issues du	iring a	:	
8. Are overhe masonry b	ead equipmer lock walls no	nt, distribution systems t likely to collapse onto	s, ceiling tiles and lighting o the equipment?	, and		Yes
Numerou become di are open - books	s partially op sengaged sir judged acce _l	en S-hooks identified. nee the hooks are only otable. IR 1397693 w	It is unlikely that the ligh partially open and not al ritten to inspect and fully	ts would I hooks close S-		
9. Do attache	ed lines have	adequate flexibility to	avoid damage?			Yes
10. Based on t potentially	he above sei adverse seis	ismic interaction evalu mic interaction effects	ations, is equipment free ?	of		Yes
Other Adverse Co	onditions	terre terre e			<u></u>	
11. Have you l adversely	ooked for an affect the saf	d found no adverse se ety functions of the eq	ismic conditions that cou uipment?	ld		Yes
					· ·	
<u>Comments</u> Seismic walkdown	team M. Dela	aney & P. Gazda 8/6/1	12 pm			
	Mailes	e M Selary	`			
Evaluated by:	Evaluated by: Marlene Delaney Date: 10/5/2012					
	C. C. Mych Philip Gazda 10/5/2012					

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Seismic Walkdown Checklist	(SWC)	Status: Y N U
Equipment ID No.:	1PA07J	
Equipment Class:	(20) Instrumentation and Control Panels and Cabinets	
Equipment Description:	PROC I&C RACK CONT GRP 3 CAB 7	

Photos



Seismic Walkdown Checklist (SWC)	tus: YNU
Equipment ID No · 1PA08.	
Equipment Class: (20) Instrumentation and Control Panels and Cabinets	· · · · · · · · · · · · · · · · · · ·
Equipment Description: U-1 PROC J&C RACK	
Project: Byron 1 SWEI	
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 equip SWEL. The space below each of the following questions may be used to record the results of juc findings. Additional space is provided at the end of this checklist for documenting other comment	ment on the Jgments and ts.
Anchorage	
 Is anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? 	No
2. Is the anchorage free of bent, broken, missing or loose hardware?	Yes
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	Yes
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Yes
 Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) 	Not Applicable
 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

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Seismic Walkdown Checklist (SWC)	Status: Y N U
Equipment ID No.: 1PA08J	
Equipment Class: (20) Instrumentation and Control Panels and Cabir	nets
Equipment Description: U-1 PROC I&C RACK	· · · · · · · · · · · · · · · · · · ·
Interaction Effects	
7. Are soft targets free from impact by nearby equipment or structures?	Yes
Cabinets are bolted together to eliminate spatial interaction issues during seismic event.	a
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Numerous partially open S-hooks identified. It is unlikely that the lights we become disengaged since the hooks are only partially open and not all hoo are open - judged acceptable. IR 1397693 written to inspect and fully close	d Yes ould ks Ə S-
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

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

C-296

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.:	1PA08J
Equipment Class:	(20) Instrumentation and Control Panels and Cabinets
Equipment Description:	U-1 PROC I&C RACK

Photos



1PA08J Byron 1 & 2 101

1PA08J Byron 1 & 2 102

	Status: Y N U
Equipment ID No.: 1PA09J	
Equipment Class: (20) Instrumentation and Control Panels and Cabinets	
Equipment Description: CAB PROT SYST SOL ST RX/ESF TRN A 0-3371B AB1	
Project: Byron 1 SWEL	
Location (Bldg, Elev, Room/Area): Auxiliary, 451.00 ft, ALL	
Manufacturer/Model:	· · · · · · · · · · · · · · · · · · ·
Instructions for Completing Checklist This checklist may be used to document the results of the Seismic Walkdown of an item of SWEL. The space below each of the following questions may be used to record the results	equipment on the
findings. Additional space is provided at the end of this checklist for documenting other cor	nments.
Anchorage	
 Is anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? 	No
	·
2. Is the anchorage free of bent, broken, missing or loose hardware?	Yes
· · ·	
3 Is the anchorage free of corrosion that is more than mild surface ovidation?	Ves
	163
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
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.	

Saiam	ic Walkdown Chacklist (SWC)	Status: Y N U
Jeisin		
	Equipment ID No.: 1PA09J	
	Equipment Class: (20) Instrumentation and Control Panels and Cabinets	
	Equipment Description: CAB PROT SYST SOL ST RX/ESF TRN A 0-3371B AB1	
Interac	ction Effects	
7.	Are soft targets free from impact by nearby equipment or structures?	Yes
	1PA09J is bolted in the interior to Panel 1PA33J to eliminate seismic interaction during a seismic event. At Panel 1PA11J, the panels are bolted together in the back by an exterior arrangement of 4 bolts. At the front, the panels are bolted together with an interior bolt. There is a gap between the cabinets approximately equal to 1/8". IR 1397709 was written. The panels are laterally and torsionally stiff (cabinets bolted together in the line) so movement would be minimal and would not adversely impact the function of the cabinet.	
8.	Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Numerous partially open S-hooks identified. It is unlikely that the lights would become disengaged since the hooks are only partially open and not all hooks are open - judged acceptable. IR 1397693 written to inspect and fully close S- hooks.	Yes
9.	Do attached lines have adequate flexibility to avoid damage?	Yes
10.	Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	Yes
Other	Adverse Conditions	· · · · · · · · · · · · · · · · ·
11.	Have you looked for and found no adverse seismic conditions that could adversely affect the safety functions of the equipment?	Yes

<u>Comments</u>

Seismic walkdown team M. Delaney & P. Gazda 8/6/12 pm
		Status: Y N U
Seismic Walkdown Checklist	(SWC)	
Equipment ID No .:	1PA09J	
Equipment Class:	(20) Instrumentation and Control Panels and Cabinet	S
Equipment Description:	CAB PROT SYST SOL ST RX/ESF TRN A 0-3371B	AB1
Evaluated by:	Marlene Delaney Date Marlene Delaney Date	10/5/2012 10/5/2012





Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No .:	1PA09J	
Equipment Class:	(20) Instrumentation and Control Panels and Cabinets	
Equipment Description:	CAB PROT SYST SOL ST RX/ESF TRN A 0-3371B AB1	



1PA09J Byron 1 & 2 105

1PA09J Byron 1 & 2 106

Saiamia Walkdown Chaeklist (SWC)	Status: Y N U
Equipment ID No.: 1PA10J	
Equipment Class: (20) Instrumentat	ion and Control Panels and Cabinets
Equipment Description: CAB PROT SYS	F SOL ST RX/ESF TRN B 0-3371B AB1
Project: Byron 1 SWE	<u></u>
Location (Bldg, Elev, Room/Area): <u>Auxiliary, 451</u>	.00 ft, ALL
Manufacturer/Model:	
Instructions for Completing Checklist This checklist may be used to document the result SWEL. The space below each of the following qu findings. Additional space is provided at the end of	ts of the Seismic Walkdown of an item of equipment on the estions may be used to record the results of judgments and of this checklist for documenting other comments.
Anchorage	wird (i.e., is the item are of the 50%
of SWEL items requiring such verification	i? No
2. Is the anchorage free of bent, broken, mis	sing or loose hardware? Yes
3. Is the anchorage free of corrosion that is i	nore than mild surface oxidation? Yes
4. Is the anchorage free of visible cracks in t	he concrete near the anchors? Yes
 Is the anchorage configuration consistent This question only applies if the item is or configuration verification is required.) 	with plant documentation? (Note: Not Applicable le of the 50% for which an anchorage
 Based on the above anchorage evaluation potentially adverse seismic conditions? See discussion in Section 5 of report to detail. Anchorage is judged to be acceptation 	ns, is the anchorage free of Yes address cove molding at anchorage able.

	Status: Y N U
Seismic Walkdown Checklist (SWC)	
Equipment ID No.: 1PA10J	
Equipment Class: (20) Instrumentation and Control Panels and Cabinets	
Equipment Description: CAB PROT SYST SOL ST RX/ESF TRN B 0-3371B AB1	
Interaction Effects	
7. Are soft targets free from impact by nearby equipment or structures?	Yes
Cabinets are bolted together to eliminate spatial interaction issues during a seismic event.	
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? <i>Numerous partially open S-hooks identified. It is unlikely that the lights would become disengaged since the hooks are only partially open and not all hooks</i>	Yes
are open - judged acceptable. IR 1397693 written to inspect and fully close S- books	
 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 8/6/12 pm

	Mailine M See	Lang		· · ·
Evaluated by:	· · · · · · · · · · · · · · · · · · ·	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 .:	1PA10J
Equipment Class:	(20) Instrumentation and Control Panels and Cabinets
Equipment Description:	CAB PROT SYST SOL ST RX/ESF TRN B 0-3371B AB1

Photos



1PA10J Byron 1 & 2 107



1PA10J Byron 1 & 2 108

	Status: Y N U
Seismic Walkdown Checklist (SWC)	
Equipment ID No.: 1PA12J	
Equipment Class: (20) Instrumentation and Control Panels and Cabinets	·
Equipment Description: CAB TEST SAFEGUARD TRN B AB1	
Project: Byron 1 SWEL	······································
Location (Bldg, Elev, Room/Area):Auxiliary, 451.00 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 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 cor	equipment on the of judgments and nments.
Anchorage	
 Is anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? 	No
2. Is the anchorage free of bent, broken, missing or loose hardware?	Yes
<i></i> .	
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)	· · · · · · · · · · · · · · · · · · ·
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.	

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Seism	ic Walkdown Checklist	(SWC)	Status: Y N U
Celoin	Equipment ID No :	10.101	
		(20) Instrumentation and Control Penels and Cobinet	· · · · · · · · · · · · · · · · · · ·
	Equipment Class.		.
Intora	Equipment Description:	CAB TEST SAFEGUARD TRN B AB1	
<u>niterat</u> 7.	Are soft targets free fro	n impact by nearby equipment or structures?	Yes
	Bolted to Panel 1PA10 a seismic event. The gap between Pane Per Calculation BYR99 since the existing gap is	J on the exterior to eliminate spatial interaction during 1PA12J and 1PA54J approximately equal to 9/16". 091 Rev 3, required gap equals 0.149" therefore the larger, it is acceptable.	
8.	Are overhead equipmen masonry block walls no Numerous partially op become disengaged sin are open - judged acce hooks	it, distribution systems, ceiling tiles and lighting, and likely to collapse onto the equipment? In S-hooks identified. It is unlikely that the lights would be the hooks are only partially open and not all hooks otable. IR 1397693 written to inspect and fully close S	Yes -
9.	Do attached lines have	adequate flexibility to avoid damage?	Yes
10.	Based on the above se potentially adverse seis	smic interaction evaluations, is equipment free of mic interaction effects?	Yes
<u>Other</u> 11.	Adverse Conditions Have you looked for an adversely affect the saf	d found no adverse seismic conditions that could aty functions of the equipment?	Yes
Comm	nents		······································
Seismi	ic walkdown team M. Del	aney & P. Gazda 8/6/12 pm	
Evalua	Mailer ated by: C.C.	Marlene Delaney Date	10/5/2012 10/5/2012

		Status: Y N U
Seismic Walkdown Checklist	(SWC)	
Equipment ID No.:	1PA12J	
Equipment Class:	(20) Instrumentation and Control Panels and Cabinets	
Equipment Description:	CAB TEST SAFEGUARD TRN B AB1	



	· · · · · · · · · · · · · · · · · · ·	Status: Y N U
Seismic Walkdown Checklist (SW	(C)	
Equipment ID No.: 1P	A14J	
Equipment Class: (20) Instrumentation and Control Panels and Cabinets	
Equipment Description: CA	B ESF SEQ/ACT TRN B 0-3371B AB1	
Project:	Byron 1 SWEL	
Location (Bldg, Elev, Room/Area):	Auxiliary, 451.00 ft, ALL	· -· ·
Manufacturer/Model:		
Instructions for Completing Chec This checklist may be used to docur SWEL. The space below each of the findings. Additional space is provide	klist nent the results of the Seismic Walkdown of an item of e the following questions may be used to record the results of ad at the end of this checklist for documenting other com-	quipment on the of judgments and
Anchorage		
1. Is anchorage configuration of SWEL items requiring su	verification required (i.e., is the item one of the 50% ch verification)?	No
2. Is the anchorage free of be	nt, broken, missing or loose hardware?	Yes
3. Is the anchorage free of cor	rosion that is more than mild surface oxidation?	Yes
4. Is the anchorage free of vis	ible cracks in the concrete near the anchors?	Yes
 Is the anchorage configurat This question only applies in configuration verification is 	ion consistent with plant documentation? (Note: f the item is one of the 50% for which an anchorage required.)	Not Applicable
 Based on the above anchor potentially adverse seismic See discussion in Section detail. Anchorage is judged 	age evaluations, is the anchorage free of conditions? n 5 of report to address cove molding at anchorage t to be acceptable.	Yes

Status: Y N U

Seism	ic Walkdown Checklist	(SWC)		
	Equipment ID No.:	1PA14J		
	Equipment Class:	(20) Instrumentation and Control	Panels and Cabinets	, u
	Equipment Description:	CAB ESF SEQ/ACT TRN B 0-337	71B AB1	<u></u>
nterac	ction Effects			
7.	Are soft targets free fro	m impact by nearby equipment or s	structures?	Ye
	Cabinets are bolted to seismic event.	gether to eliminate spatial interacti	on issues during a	
8.	Are overhead equipme masonry block walls no Numerous partially op become disengaged sin are open - judged acce	nt, distribution systems, ceiling tiles t likely to collapse onto the equipm en S-hooks identified. It is unlikely nee the hooks are only partially ope ptable. IR 1397693 written to inspe	and lighting, and ent? • that the lights would an and not all hooks ect and fully close S-	Ye
9.	Do attached lines have	adequate flexibility to avoid damag	je?	Ye
10.	Based on the above se potentially adverse seis	smic interaction evaluations, is equ mic interaction effects?	uipment free of	Ye
Other 11.	Adverse Conditions Have you looked for an	d found no adverse seismic conditi	ions that could	Ye
	adversely affect the saf	ety functions of the equipment?		÷ .
	onte			·······
Seismi	c walkdown team M. Del	anev & P. Gazda 8/6/12 pm		
	Mailes	e Marlany	Delaney Date	10/5/2012
Evalua	ted by:			

Seismic Walkdown Checklist	Status: Y N U
Equipment ID No.:	1PA14J
Equipment Class:	(20) Instrumentation and Control Panels and Cabinets
Equipment Description:	CAB ESF SEQ/ACT TRN B 0-3371B AB1
Photos	
THE PARTY	
al same to all	NO.



Status: Y N U Seismic Walkdown Checklist (SWC) Equipment ID No.: 1PA27J Equipment Class: (20) Instrumentation and Control Panels and Cabinets Equipment Description: CAB RELAY AUX SAFEGUARD TRN A 0-3371B AB1 Project: Byron 1 SWEL Location (Bldg, Elev, Room/Area): Auxiliary, 451.00 ft, ALL Manufacturer/Model: Instructions for Completing Checklist This checklist may be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments. **Anchorage** 1. Is anchorage configuration verification required (i.e., is the item one of the 50% No of SWEL items requiring such verification)? Yes 2. Is the anchorage free of bent, broken, missing or loose hardware? Is the anchorage free of corrosion that is more than mild surface oxidation? Yes 3. Is the anchorage free of visible cracks in the concrete near the anchors? Yes 4 Not Applicable Is the anchorage configuration consistent with plant documentation? (Note: 5. 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.

Saiamia Walkdown Chacklist (SW)		Status: Y N U
Seisinic Walkdown Checklist (SWC	(
Equipment ID No.: 1PA	27J	
Equipment Class: (20)	Instrumentation and Control Panels and Cabinets	
Equipment Description: CAE	RELAY AUX SAFEGUARD TRN A 0-3371B AB1	. *•
Interaction Effects		
7. Are soft targets free from imp	pact by nearby equipment or structures?	Yes
Cabinets are bolted togethe seismic event.	er to eliminate spatial interaction issues during a	
8. Are overhead equipment, dis masonry block walls not likel Numerous partially open S- become disengaged since th are open - judged acceptable	stribution systems, ceiling tiles and lighting, and y to collapse onto the equipment? hooks identified. It is unlikely that the lights would be hooks are only partially open and not all hooks be. IR 1397693 written to inspect and fully close S-	Yes
9. Do attached lines have adeq	uate flexibility to avoid damage?	Yes
10. Based on the above seismic potentially adverse seismic in	interaction evaluations, is equipment free of nteraction effects?	Yes
Other Adverse Conditions		
11. Have you looked for and fou adversely affect the safety fu	nd no adverse seismic conditions that could inctions of the equipment?	Yes

<u>Comments</u>

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

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	Mailere M Selery		
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 .:	1PA27J
Equipment Class:	(20) Instrumentation and Control Panels and Cabinets
Equipment Description:	CAB RELAY AUX SAFEGUARD TRN A 0-3371B AB1

Photos



Seismic Walkdown Checklist (SWC)	Status: Y N U
Equipment ID No.: 1PA28J	
Equipment Class: (20) Instrumentation and Control Panels and Cabinets	
Equipment Description: CAB RELAY AUX SAFEGUARD TRN B 0-3371B AB1	
Project: Byron 1 SWEL	
Location (Bldg, Elev, Room/Area): Auxiliary, 451.00 ft, ALL	······
Manufacturer/Model:	
Instructions for Completing Checklist This checklist may be used to document the results of the Seismic Walkdown of an item of 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 cor	equipment on the s of judgments and mments.
Anchorage	
 Is anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? 	No
2. Is the anchorage free of bent, broken, missing or loose hardware?	Yes
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	Yes
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Yes
 Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) 	Not Applicable
 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

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Seismic Walkdown Checklist (SWC)			Status: Y N U	
	Equipment ID No.:	1PA28J		
	Equipment Class:	(20) Instrumentation and Control Panels and Cabinets		
	Equipment Description:	CAB RELAY AUX SAFEGUARD TRN B 0-3371B AB1		
Intera	ction Effects			
7.	Are soft targets free fro	m impact by nearby equipment or structures?	Yes	
	Cabinets are bolted to seismic event.	gether to eliminate spatial interaction issues during a		
8.	Are overhead equipme masonry block walls no Numerous partially op become disengaged sin are open - judged acce hooks.	nt, distribution systems, ceiling tiles and lighting, and t likely to collapse onto the equipment? en S-hooks identified. It is unlikely that the lights would nee the hooks are only partially open and not all hooks ptable. IR 1397693 written to inspect and fully close S-	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	Yes	

Comments

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

adversely affect the safety functions of the equipment?

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

C-315

Seismic Walkdown Checklist	(SWC)	Status: Y N U
Equipment ID No.:	1PA28J	
Equipment Class:	(20) Instrumentation and Control Panels and Cabinets	
Equipment Description:	CAB RELAY AUX SAFEGUARD TRN B 0-3371B AB1	

Photos



1PA28J Byron 1 & 2 114

1PA28J Byron 1 & 2 115

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No .:	1PA28J
Equipment Class:	(20) Instrumentation and Control Panels and Cabinets
Equipment Description:	CAB RELAY AUX SAFEGUARD TRN B 0-3371B AB1



1PA28J Byron 1 & 2 116

Seismic Walkdown Checkliet (SWC)	Status: Y N U
Equipment ID No : 10/33 1	
Equipment Class: (20) Instrumentation and Control Papels and Cabinets	
Equipment Description: CAR CONT SYSTEM ESE 11.0.2271B AP1	
Broost: Buren 1 SWEL	
Project. Byron I SWEL	
Location (Bidg, Elev, Room/Area): Auxiliary, 451.00 ft, ALL	
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	equipment on the of judgments and ments.
Anchorage	
 Is anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? 	No
2. Is the anchorage free of bent, broken, missing or loose hardware?	Yes
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	Yes
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Yes
 Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) 	Not Applicable
 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

N.U Status: Seismic Walkdown Checklist (SWC) Equipment ID No.: 1PA33J Equipment Class: (20) Instrumentation and Control Panels and Cabinets Equipment Description: CAB CONT SYSTEM ESF 11 0-3371B AB1 Interaction Effects 7. Are soft targets free from impact by nearby equipment or structures? Yes Cabinets are bolted together to eliminate spatial interaction issues during a seismic event. 8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and Yes masonry block walls not likely to collapse onto the equipment? Numerous partially open S-hooks identified. It is unlikely that the lights would become disengaged since the hooks are only partially open and not all hooks are open - judged acceptable. IR 1397693 written to inspect and fully close Shooks. Yes 9. Do attached lines have adequate flexibility to avoid damage? 10. Based on the above seismic interaction evaluations, is equipment free of Yes potentially adverse seismic interaction effects? **Other Adverse Conditions** Have you looked for and found no adverse seismic conditions that could Yes 11. adversely affect the safety functions of the equipment? Comments Seismic walkdown team M. Delaney & P. Gazda 8/6/12 pm piece MA Evaluated by: Marlene Delaney Date: 10/5/2012

Philip Gazda

10/5/2012

		Status: Y N U	
Seismic Walkdown Checklist	(SWC)		
Equipment ID No.:	1PA33J		
Equipment Class:	(20) Instrumentation and Control Panels and Cabinets		
Equipment Description:	CAB CONT SYSTEM ESF 11 0-3371B AB1		

Photos



1PA33J Byron 1 & 2 117

1PA33J Byron 1 & 2 118

		Status: Y N U
Seismic Walkdown Checklis	t (SWC)	
Equipment ID No.:	1PA34J	· · · · · · · · · · · · · · · · · · ·
Equipment Class:	(20) Instrumentation and Control Panels and Cabinets	
Equipment Description:	CAB CONT SYSTEM ESF 12 0-3371B AB1	
Pro	ect: Byron 1 SWEL	· · · · · · · · · · · · · · · · · · ·
Location (Bldg, Elev, Room/Ar	ea): Auxiliary, 451.00 ft, ALL	
Manufacturer/Mo	del:	
Instructions for Completing This checklist may be used to SWEL. The space below each findings. Additional space is p	Checklist 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 co	equipment on the s of judgments and mments.
Anchorage		, No.
. 1. Is anchorage configura of SWEL items requiri	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?	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 confi This question only app configuration verification	guration consistent with plant documentation? (Note: lies if the item is one of the 50% for which an anchorage on is required.)	Not Applicable
6. Based on the above a potentially adverse sei See discussion in S detail. Anchorage is ju	nchorage evaluations, is the anchorage free of smic conditions? ection 5 of report to address cove molding at anchorage udged to be acceptable.	Yes

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Seismic Walkdown Checklist	(SWC)	Status: Y N U
Equipment ID No.:	1PA34J	
Equipment Class:	(20) Instrumentation and Control Panels and Cabinets	
Equipment Description:	CAB CONT SYSTEM ESF 12 0-3371B AB1	
Interaction Effects		
7. Are soft targets free fro	om impact by nearby equipment or structures?	Yes
Adjacent cabinets are eliminate spatial intera	bolted together (1PA10J, 1PA34J, & 1PA17J) to ction issues during a seismic event	
 Are overhead equipme masonry block walls no 	nt, distribution systems, ceiling tiles and lighting, and ot likely to collapse onto the equipment?	Yes
Numerous partially op	pen S-hooks identified. It is unlikely that the lights would	
are open - judged acce	nce the nooks are only partially open and not all nooks	
hooks.		
9. Do attached lines have	adequate flexibility to avoid damage?	Yes
potentially adverse sei	smic interaction effects?	
Other Adverse Conditions		
11. Have you looked for ar adversely affect the sa	nd found no adverse seismic conditions that could fety functions of the equipment?	Yes
Comments		
Seismic walkdown team M. De	laney & P. Gazda 8/6/12 pm	
Evaluated by:	Marlene Delaney Date:	10/5/2012
Q.0	. Maych Philip Gazda	10/5/2012

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.:	1PA34J
Equipment Class:	(20) Instrumentation and Control Panels and Cabinets
Equipment Description:	CAB CONT SYSTEM ESF 12 0-3371B AB1

Photos



1PA34J Byron 1 & 2 119

1PA34J Byron 1 & 2 120

Seismic Walkdown Checklist (SWC)
Equipment ID No. 18451
Equipment Close: (20) Instrumentation and Control Banels and Cabinate
Project: Byron 1 SWEL
Location (Bldg, Elev, Room/Area):Auxiliary, 451.00 ft, ALL
Manufacturer/Model:
Instructions for Completing Checklist
SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.
Anchorage
 Is anchorage configuration verification required (i.e., is the item one of the 50% No of SWEL items requiring such verification)?
2. Is the anchorage free of bent, broken, missing or loose hardware? Yes
3. Is the anchorage free of corrosion that is more than mild surface oxidation? Yes
4. Is the anchorage free of visible cracks in the concrete near the anchors? Yes
 Is the anchorage configuration consistent with plant documentation? (Note: Not Applicable This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)

Seismic Walkdown Checklist (SWC)	Status: Y N U
Equipment ID No.: 1PA51J	
Equipment Class: (20) Instrumentation and Control Panels and Cabinets	
Equipment Description: CAB HJTC RX VESSEL LEVEL CH A 0-3371B AB1	······
 6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Anchorage on front of panel inspected since a panel ventilation grate prevented installation of cove molding. Weld is 2 1/4" in length at approximately 9" spacing. Drawing 6E-0-3391AJ Revision AF specified 1 1/2" at 9". Back was not visible. See discussion in Section 5 of report to address cove molding at anchorage detail. Anchorage is judged to be acceptable. 	Yes
Interaction Effects	
7. Are soft targets free from impact by nearby equipment or structures?	Yes
Cabinets are bolted together to eliminate spatial interaction issues during a seismic event.	
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Numerous partially open S-hooks identified. It is unlikely that the lights would become disengaged since the hooks are only partially open and not all hooks are open - judged acceptable. IR 1397693 written to inspect and fully close S-hooks	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

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Status:	Υ	Ν	U
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Seismic Walkdo	wn Checklist	t (SWC)				- <u></u> -
Equip	ment ID No.:	1PA51J				
Equi	pment Class:	(20) Instrumentation ar	nd Control Panels and	Cabinets		
Equipment	t Description:	CAB HJTC RX VESSE	L LEVEL CH A 0-3371	B AB1		
Evaluated by:	Mailer C.a.	Meleny Mych Philip C	Marlene Delaney Gazda	Date:	10/5/2012 10/5/2012	
Photos			· · · · · · · · · · · · · · · · · · ·			
None.						

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 1	PA52J	
Equipment Class: (2	0) Instrumentation and Control Panels and Cabinets	
Equipment Description: C	AB HJTC RX VESSEL LEVEL CH B 0-3371B AB1	
Project:	Byron 1 SWEL	· .
Location (Bldg, Elev, Room/Area):	Auxiliary, 451.00 ft, ALL	
Manufacturer/Model:		
Instructions for Completing Che	cklist	
This checklist may be used to docu SWEL. The space below each of t findings. Additional space is provid	ument the results of the Seismic Walkdown of an item of eq the following questions may be used to record the results o ded at the end of this checklist for documenting other comm	uipment on the f judgments and nents.
Anchorage		
 Is anchorage configuration of SWEL items requiring st 	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 vi	sible cracks in the concrete near the anchors?	Yes
 Is the anchorage configura This question only applies configuration verification is 	ation consistent with plant documentation? (Note: if the item is one of the 50% for which an anchorage required.)	Not Applicable

Status: Y N U Seismic Walkdown Checklist (SWC) Equipment ID No.: 1PA52J Equipment Class: (20) Instrumentation and Control Panels and Cabinets Equipment Description: CAB HJTC RX VESSEL LEVEL CH B 0-3371B AB1 Based on the above anchorage evaluations, is the anchorage free of 6. Yes potentially adverse seismic conditions? Anchorage on front of panel inspected since a panel ventilation grate prevented installation of cove molding. Weld is 2 1/4" in length at approximately 9" spacing. Drawing 6E-0-3391AJ Revision AF specified 1 1/2" at 9". Back was not visible. See discussion in Section 5 of report to address cove molding at anchorage detail. Anchorage is judged to be acceptable. 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? Numerous partially open S-hooks identified. It is unlikely that the lights would become disengaged since the hooks are only partially open and not all hooks are open - judged acceptable. IR 1397693 written to inspect and fully close Shooks. 9. Do attached lines have adequate flexibility to avoid damage? Yes Yes 10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? **Other Adverse Conditions** Have you looked for and found no adverse seismic conditions that could Yes 11. adversely affect the safety functions of the equipment? **Comments**

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

Seismic Walkdov	wn Checklist	(SWC)	Status: Y N U
Equip	ment ID No.:	1PA52J	
Equi	pment Class:	(20) Instrumentation and Control Panels and Cabinets	
Equipment	Description:	CAB HJTC RX VESSEL LEVEL CH B 0-3371B AB1	
Evaluated by:	Marles C.a.	Marlene Delaney Date: 10/ Marlene Delaney Date: 10/	/5/2012

Photos



	Status: Y N U
Seismic Walkdown Checklist (SWC)	
Equipment ID No.: 1PI-0627	
Equipment Class: (18) Instruments on Racks	
Equipment Description: SPEND FUEL PUMP DISCHARGE PRESSURE GAGE	
Project: Byron 1 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 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 con	equipment on the of judgments and nments.
Anchorage	
 Is anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? 	No
2. Is the anchorage free of bent, broken, missing or loose hardware?	Not Applicable
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	Not Applicable
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Not Applicable
5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)	Not Applicable
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Instrument is securely attached to well-anchored rack	Yes

Seism	ic Walkdown Checklist	(SWC)	Status: Y N U
	Equipment ID No.:	1PI-0627	
	Equipment Class:	(18) Instruments on Racks	
	Equipment Description:	SPEND FUEL PUMP DISCHARGE PRESSURE GAGE	
nterac	ction Effects		
7.	Are soft targets free fro	m impact by nearby equipment or structures?	Yes
8.	Are overhead equipme masonry block walls no	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
10.	Based on the above se potentially adverse seis	ismic interaction evaluations, is equipment free of smic interaction effects?	Yes
)ther 11.	Adverse Conditions Have you looked for an	d found no adverse seismic conditions that could	Yes
	adversely affect the sat	fety functions of the equipment?	

<u>Comments</u>

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

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

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.:	1PI-0627
Equipment Class:	(18) Instruments on Racks
Equipment Description:	SPEND FUEL PUMP DISCHARGE PRESSURE GAGE

Photos



1PI-0627 Byron 1 & 2 8-9-12 052