Braidwood Station Unit 2 12Q0108.10-R-002 Rev. 0 Correspondence No.: RS-12-159 Sheet 1 of 4

Seismic Walkdown Checklist (SWC)	tatus: Y N U
Equipment ID No.: 2DC03E	•
Equipment Class: (16) Battery Chargers and Inverters	
Equipment Description: BATTERY CHARGER 211 DIV. 21	
Project: Braidwood 2 SWEL	
Location (Bldg, Elev, Room/Area): Auxiliary, 451.00 ft, ALL Manufacturer/Model:	
Instructions for Completing Checklist	
This checklist may be used to document the results of the Seismic Walkdown of an item of equi SWEL. The space below each of the following questions may be used to record the results of j findings. Additional space is provided at the end of this checklist for documenting other comme	udgments and
Anchorage	÷
 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? Mild corrector (not. No etrusture/colomic impact.)	Yes
Mild corrosion / rust. No structural/seismic impact.	• .
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

Braidwood Station Unit 2 12Q0108.10-R-002 Rev. 0 Correspondence No.: RS-12-159 Sheet 2 of 4

Seismic Walkdown Checl	diet (SWC)	Status: Y N U
Equipment ID N		
• •	ss: (16) Battery Chargers and Inverters	
	on: BATTERY CHARGER 211 DIV. 21	
Interaction Effects	SI. BATTERY CHARGEN 211 DIV. 21	
	e from impact by nearby equipment or structures?	Yes
	oment, distribution systems, ceiling tiles and lighting, and s not likely to collapse onto the equipment?	Yes
9. Do attached lines h	ave adequate flexibility to avoid damage?	Yes
	e seismic interaction evaluations, is equipment free of seismic interaction effects?	Yes
	ar and found no adverse seismic conditions that could e safety functions of the equipment?	Yes
Comments Seismic walkdown team M.	Delaney & P. Gazda 7/30/12 pm	
Evaluated by:	a. In oh	10/1/2012 10/1/2012

orrespondence No.: RS-12-159 Sheet 3 of 4

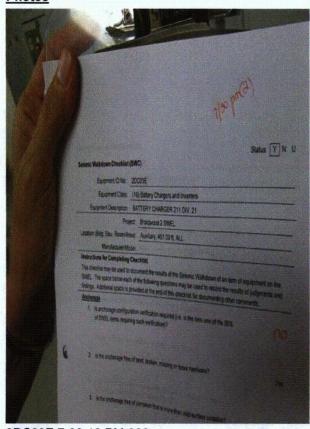
Status: Y N U

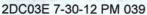
Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2DC03E

Equipment Class: (16) Battery Chargers and Inverters

Equipment Description: BATTERY CHARGER 211 DIV. 21







2DC03E 7-30-12 PM 040

Braidwood Station Unit 2 12Q0108.10-R-002 Rev. 0 Correspondence No.: RS-12-159 Sheet 4 of 4

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2DC03E

Equipment Class: (16) Battery Chargers and Inverters

Equipment Description: BATTERY CHARGER 211 DIV. 21



2DC03E 7-30-12 PM 041

Braidwood Station Unit 2 12Q0108.10-R-002 Rev. 0

Correspondence No:: RS-12-159 Sheet 1 of 3

Status: Y Seismic Walkdown Checklist (SWC) Equipment ID No.: 2DC04E Equipment Class: (16) Battery Chargers and Inverters Equipment Description: BATTERY CHARGER 212 DIV. 22 Project: Braidwood 2 SWEL Location (Bldg, Elev, Room/Area): Auxiliary, 451.00 ft, ALL Manufacturer/Model: **Instructions for Completing Checklist** This checklist may be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments. **Anchorage** 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.) Based on the above anchorage evaluations, is the anchorage free of Yes potentially adverse seismic conditions?

Braidwood Station Unit 2 12Q0108.10-R-002 Rev. 0 Correspondence No.: RS-12-159 Sheet 2 of 3

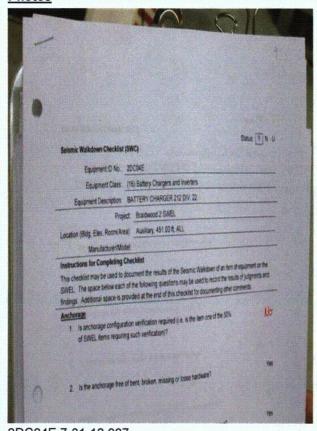
Seism	ic Walkdown Checklist	(SWC)			Status: Y	I U
00.0,	Equipment ID No.:					
		(16) Battery Chargers a	and inverters			
	Equipment Description:					
	ction Effects	DATTERT OHAROER	212 014. 22			
	Are soft targets free from	m impact by nearby equ	ipment or structures?		· •	Yes
			:			
8.	Seismic block walls. Lights suspended on ro	t likely to collapse onto t ds with no bulb guards l	he equipment? but would not impact eq	uipment	÷	Yes
9.	Do attached lines have	table. S&L Std EE-103 o adequate flexibility to av		on fluorescen	_	Yes
10.	Based on the above sei		ions, is equipment free	of		Yes
Other	Adverse Conditions				· .	
11.	Have you looked for an	d found no adverse seis ety functions of the equi		đ	,	Yes
<u>Co</u>						
<u>Comm</u> Seismi	c walkdown team M. Dela	aney & P. Gazda 7/31/1	2 am			
Evalua	Marler ted by:	Mysh Philip C	Marlene Delaney Gazda		/1/2012 /1/2012	

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2DC04E

Equipment Class: (16) Battery Chargers and Inverters

Equipment Description: BATTERY CHARGER 212 DIV. 22





2DC04E 7-31-12 007

2DC04E 7-31-12 008

Braidwood Station Unit 2 12Q0108.10-R-002 Rev. 0

Correspondence No.: RS-12-159

Sheet 1 of 4

Status: Y N U Seismic Walkdown Checklist (SWC) Equipment ID No.: 2DC05E Equipment Class: (14) Distribution Panels Equipment Description: 125V DC ESF DIST CENTER 211 Project: Braidwood 2 SWEL Location (Bldg, Elev, Room/Area): Auxiliary, 451.00 ft, ALL Manufacturer/Model: **Instructions for Completing Checklist** This checklist may be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments. Anchorage Yes Is anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? 2. Is the anchorage free of bent, broken, missing or loose hardware? Yes Welded anchorage. Is the anchorage free of corrosion that is more than mild surface oxidation? Yes Yes Is the anchorage free of visible cracks in the concrete near the anchors? 5. Is the anchorage configuration consistent with plant documentation? (Note: Yes This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) Weld length and spacing matches or exceeds drawing. Drawing 20E-0-3391C Revision BM Yes 6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?

Braidwood Station Unit 2 12Q0108.10-R-002 Rev. 0 Correspondence No.: RS-12-159 Sheet 2 of 4

Status: Y N U

Seismic Wa	lkdown Checklist	(SWC)	•
E	equipment ID No.:	2DC05E	
1	Equipment Class:	(14) Distribution Panels	
Equip	ment Description:	125V DC ESF DIST CENTER 211	
Interaction I	Effects	,	
7. Are s	soft targets free fro	m impact by nearby equipment or structures?	Yes
	• •	nt, distribution systems, ceiling tiles and lighting, and it likely to collapse onto the equipment?	Yes
9. Do a	ttached lines have	adequate flexibility to avoid damage?	Yes
pote <i>Sca</i>	ntially adverse seis affolding in area is t	ismic interaction evaluations, is equipment free of smic interaction effects? well constructed and braced. Movement limited by would not impact equipment.	Yes
Other Adve	se Conditions		
		d found no adverse seismic conditions that could fety functions of the equipment?	Yes
Comments			
Seismic walkdown team M. Delaney & P. Gazda 7/30/12 pm			
Evaluated by		Marlene Delaney Date: 10/1/2012 Mych Philip Gazda 10/1/2012	

Sheet 3 of 4

Status: Y N U

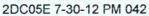
Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2DC05E

Equipment Class: (14) Distribution Panels

Equipment Description: 125V DC ESF DIST CENTER 211







2DC05E 7-30-12 PM 043

Braidwood Station Unit 2 12Q0108.10-R-002 Rev. 0 Correspondence No.: RS-12-159 Sheet 4 of 4

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2DC05E

Equipment Class: (14) Distribution Panels

Equipment Description: 125V DC ESF DIST CENTER 211



2DC05E 7-30-12 PM 044

Braidwood Station Unit 2 12Q0108.10-R-002 Rev. 0 Correspondence No.: RS-12-159 Sheet 1 of 4

Status: Y N U Seismic Walkdown Checklist (SWC)
Equipment ID No.: 2DC06E
Equipment Class: (14) Distribution Panels
Equipment Description: 125V DC ESF DIST CENTER 212
Project: Braidwood 2 SWEL
Location (Bldg, Elev, Room/Area): Auxiliary, 451.00 ft, ALL
Manufacturer/Model:
Instructions for Completing Checklist
This checklist may be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.
<u>Anchorage</u>
 Is anchorage configuration verification required (i.e., is the item one of the 50% Yes of SWEL items requiring such verification)?
Is the anchorage free of bent, broken, missing or loose hardware? Yes
Is the anchorage free of corrosion that is more than mild surface oxidation? Yes
4. Is the anchorage free of visible cracks in the concrete near the anchors? Yes
5. Is the anchorage configuration consistent with plant documentation? (Note: Yes This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) Drawing 20E-0-3391C Revision BM Weld exceeds drawing requirements
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?

Braidwood Station Unit 2 12Q0108.10-R-002 Rev. 0

Correspondence No.: RS-12-159 Sheet 2 of 4

Status: Y N U Seismic Walkdown Checklist (SWC) Equipment ID No.: 2DC06E Equipment Class: (14) Distribution Panels Equipment Description: 125V DC ESF DIST CENTER 212 **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? Seismic block walls Do attached lines have adequate flexibility to avoid damage? Yes 10. Based on the above seismic interaction evaluations, is equipment free of Yes potentially adverse seismic interaction effects? **Other Adverse Conditions** 11. Have you looked for and found no adverse seismic conditions that could Yes adversely affect the safety functions of the equipment? Comments Seismic walkdown team M. Delaney & P. Gazda 7/31/12 am Evaluated by: Marlene Delaney Date: 10/1/2012 10/1/2012

Sheet 3 of 4

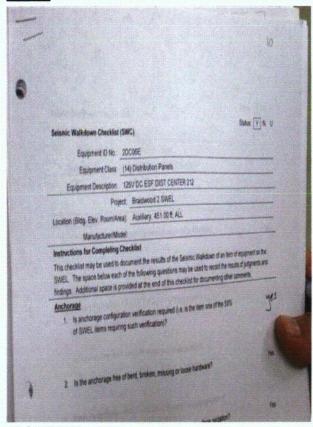
Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2DC06E

Equipment Class: (14) Distribution Panels

Equipment Description: 125V DC ESF DIST CENTER 212





2DC06E 7-31-12 009

2DC06E 7-31-12 010

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2DC06E

Equipment Class: (14) Distribution Panels

Equipment Description: 125V DC ESF DIST CENTER 212





2DC06E 7-31-12 011 2DC06E 7-31-12 012

Braidwood Station Unit 2 12Q0108.10-R-002 Rev. 0 Correspondence No.: RS-12-159 Sheet 1 of 3

Statu	ıs: Y N U
Seismic Walkdown Checklist (SWC)	
Equipment ID No.: 2DC06EA	
Equipment Class: (14) Distribution Panels	
Equipment Description: 125V DC ESF DIST PNL 212	
Project: Braidwood 2 SWEL	
Location (Bldg, Elev, Room/Area): Auxiliary, 451.00 ft, ALL	
Manufacturer/Model:	
Instructions for Completing Checklist	
This checklist may be used to document the results of the Seismic Walkdown of an item of equipm SWEL. The space below each of the following questions may be used to record the results of judg findings. Additional space is provided at the end of this checklist for documenting other comments	gments and
Anchorage	V
 Is anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? 	Yes
Cabinet is subset to 2DC06E with the weld shown on Drawing 20E-0-3391C	•
Revision BM	
2. Is the anchorage free of bent, broken, missing or loose hardware?	Yes
•	
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	Yes
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Yes
· · ·	,
	•
5. Is the anchorage configuration consistent with plant documentation? (Note:	Yes
This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)	
Drawing 20E-0-3391C Revision BM	
Based on the above anchorage evaluations, is the anchorage free of	Yes
potentially adverse seismic conditions?	163

Braidwood Station Unit 2 12Q0108.10-R-002 Rev. 0

Sheet 2 of 3

Correspondence No.: RS-12-159

Status: Y N U Seismic Walkdown Checklist (SWC) Equipment ID No.: 2DC06EA Equipment Class: (14) Distribution Panels Equipment Description: 125V DC ESF DIST PNL 212 **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? Seismic block walls Do attached lines have adequate flexibility to avoid damage? Yes 10. Based on the above seismic interaction evaluations, is equipment free of Yes potentially adverse seismic interaction effects? **Other Adverse Conditions** 11. Have you looked for and found no adverse seismic conditions that could Yes adversely affect the safety functions of the equipment? **Comments** Seismic walkdown team M. Delaney & P. Gazda 7/31/12 am Evaluated by: Marlene Delaney Date: 10/1/2012 Philip Gazda 10/1/2012

Braidwood Station Unit 2 12Q0108.10-R-002 Rev. 0 Correspondence No.: RS-12-159

Sheet 3 of 3

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2DC06EA

Equipment Class: (14) Distribution Panels

Equipment Description: 125V DC ESF DIST PNL 212

Photos

None.

Braidwood Station Unit 2 12Q0108.10-R-002 Rev. 0 Correspondence No.: RS-12-159 Sheet 1 of 3

		Status: Y N U
Seismic Walkdown Checklist	(SWC)	
Equipment ID No.:	2DC10J	
Equipment Class:	(14) Distribution Panels	
Equipment Description:	125V DC FUSE PANEL - DIV. 21	
Proje	ect: Braidwood 2 SWEL	
Location (Bldg, Elev, Room/Are	ea): Auxiliary, 451.00 ft, ALL	:
Manufacturer/Mod	del:	
Instructions for Completing C	Checklist	
SWEL. The space below each	locument the results of the Seismic Walkdown of an item of of the following questions may be used to record the results ovided at the end of this checklist for documenting other con	of judgments and
<u>Anchorage</u>		
 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?	Yes
3. Is the anchorage free o	of corrosion that is more than mild surface oxidation?	Yes
4. Is the anchorage free o	of visible cracks in the concrete near the anchors?	Yes
	guration consistent with plant documentation? (Note: lies if the item is one of the 50% for which an anchorage on is required.)	Not Applicable
Based on the above an potentially adverse seis No issues with anchor		Yes

Braidwood Station Unit 2 12Q0108.10-R-002 Rev. 0

Sheet 2 of 3

Correspondence No.: RS-12-159

Status: Y N U Seismic Walkdown Checklist (SWC) Equipment ID No.: 2DC10J Equipment Class: (14) Distribution Panels Equipment Description: 125V DC FUSE PANEL - DIV. 21 **Interaction Effects** 7. Are soft targets free from impact by nearby equipment or structures? Yes 8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and Yes masonry block walls not likely to collapse onto the equipment? 9. Do attached lines have adequate flexibility to avoid damage? Yes Yes' 10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? **Other Adverse Conditions** 11. Have you looked for and found no adverse seismic conditions that could Yes adversely affect the safety functions of the equipment? **Comments** Seismic walkdown team M. Delaney & P. Gazda 7/30/12 pm Evaluated by: Marlene Delaney Date: 10/1/2012 10/1/2012

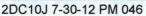
Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2DC10J

Equipment Class: (14) Distribution Panels

Equipment Description: 125V DC FUSE PANEL - DIV. 21







2DC10J 7-30-12 PM 047

Braidwood Station Unit 2 12Q0108.10-R-002 Rev. 0 orrespondence No : RS-12-159

Correspondence No.: RS-12-159 Sheet 1 of 5

Status: Y N U Seismic Walkdown Checklist (SWC) Equipment ID No.: 2DG01KA Equipment Class: (17) Engine-Generators Equipment Description: 2A DIESEL GENERATOR SKID Project: Braidwood 2 SWEL Location (Bldg, Elev, Room/Area): Auxiliary, 401.00 ft, ALL Manufacturer/Model: **Instructions for Completing Checklist** This checklist may be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments. Anchorage 1. Is anchorage configuration verification required (i.e., is the item one of the 50% Yes of SWEL items requiring such verification)? 2. Is the anchorage free of bent, broken, missing or loose hardware? Yes Is the anchorage free of corrosion that is more than mild surface oxidation? Yes Yes 4. Is the anchorage free of visible cracks in the concrete near the anchors? 5. Is the anchorage configuration consistent with plant documentation? (Note: Yes This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) M-1222 Sheet 5 Revision S Yes 6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?

Braidwood Station Unit 2 12Q0108.10-R-002 Rev. 0 Correspondence No.: RS-12-159 Sheet 2 of 5

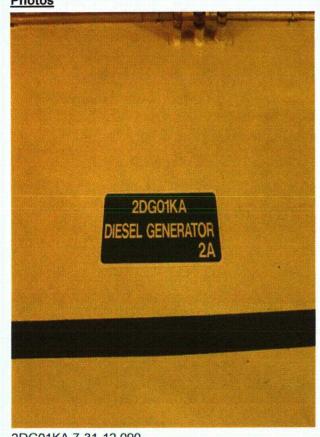
Seismic Walkdown Check	ict (SWC)	Status: Y N U
		•
Equipment ID No	Marie Company of the	
	s: (17) Engine-Generators	
· · · · · · · · · · · · · · · · · · ·	n: 2A DIESEL GENERATOR SKID	
Interaction Effects Are soft targets free	from impact by nearby equipment or structures?	Yes
i. Are soft targets free	non impact by hearby equipment of structures:	
	ment, distribution systems, ceiling tiles and lighting, and	Yes
masonry block walls	not likely to collapse onto the equipment?	
9. Do attached lines ha	ve adequate flexibility to avoid damage?	Yes
10. Based on the above	seismic interaction evaluations, is equipment free of	Yes
potentially adverse	eismic interaction effects?	
Other Adverse Conditions		
	and found no adverse seismic conditions that could	Yes
adversely aπect the No structural/seisn	safety functions of the equipment? nic issues	
		•
Comments		•
Seismic walkdown team M.	Delaney & P. Gazda 7/31/12 pm	• .
Mail	Per Al A. L.	
, p	M. M. Silasy	
Evaluated by:	Marlene Delaney Date:	10/1/2012
		10, 1120 12
G.	1. Shach Phillip Coards	40/4/0040
	Philip Gazda	10/1/2012

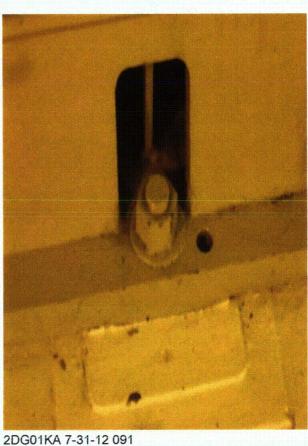
Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2DG01KA

Equipment Class: (17) Engine-Generators

Equipment Description: 2A DIESEL GENERATOR SKID





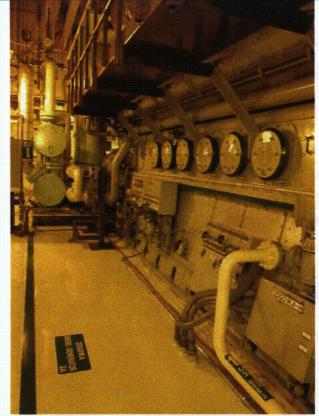
2DG01KA 7-31-12 090

Seismic Walkdown Checklist (SWC)

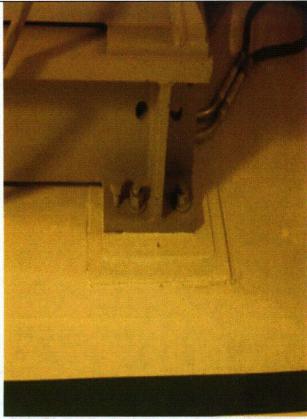
Equipment ID No.: 2DG01KA

Equipment Class: (17) Engine-Generators

Equipment Description: 2A DIESEL GENERATOR SKID







2DG01KA 7-31-12 094

Braidwood Station Unit 2 12Q0108.10-R-002 Rev. 0 Correspondence No.: RS-12-159 Sheet 5 of 5

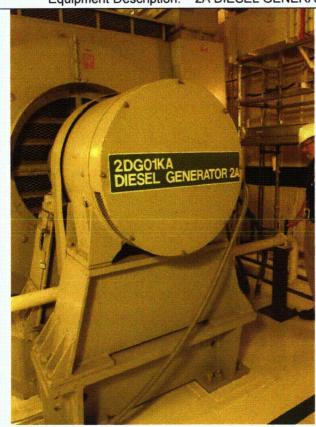
Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2DG01KA

Equipment Class: (17) Engine-Generators

Equipment Description: 2A DIESEL GENERATOR SKID



2DG01KA7-31-12 093

Braidwood Station Unit 2 12Q0108.10-R-002 Rev. 0 Correspondence No.: RS-12-159 Sheet 1 of 3

Seismic Walkdown Checklist	t (SWC)	Status: Y N U
Equipment ID No.:	2DG04EA	
	(20) Instrumentation and Control Panels and Cabinets	
Equipment Description:	DIESEL GENERATOR 1A SYNCHRO-CHECK RELAY BO	x
Proj	ect: Braidwood 2 SWEL	
Location (Bldg, Elev, Room/Are	ea): Auxiliary, 426.00 ft, ALL	
Manufacturer/Mo	del:	
Instructions for Completing	Checklist	
SWEL. The space below each	document the results of the Seismic Walkdown of an item of endering of the following questions may be used to record the results rovided at the end of this checklist for documenting other com	of judgments and
Anchorage		
 Is anchorage configura of SWEL items requirir 	ation verification required (i.e., is the item one of the 50% ng such verification)?	· No
2. Is the anchorage free o	of bent, broken, missing or loose hardware?	Yes
3. Is the anchorage free of	of corrosion that is more than mild surface oxidation?	Yes
4. Is the anchorage free	of visible cracks in the concrete near the anchors?	Yes
	guration consistent with plant documentation? (Note: blies if the item is one of the 50% for which an anchorage on is required.)	Not Applicable
potentially adverse sei Note that anchorage	is internal to box but no cracking in concrete was visible n the wall, there is no corrosion possible. Washer plates	Yes

Braidwood Station Unit 2 12Q0108.10-R-002 Rev. 0

Correspondence No.: RS-12-159

Sheet 2 of 3

Status: Seismic Walkdown Checklist (SWC) Equipment ID No.: 2DG04EA Equipment Class: (20) Instrumentation and Control Panels and Cabinets Equipment Description: DIESEL GENERATOR 1A SYNCHRO-CHECK RELAY BOX Interaction Effects 7. Are soft targets free from impact by nearby equipment or structures? Yes 8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and Yes masonry block walls not likely to collapse onto the equipment? Overhead components (i.e. HVAC) is well-supported Do attached lines have adequate flexibility to avoid damage? Yes 10. Based on the above seismic interaction evaluations, is equipment free of Yes potentially adverse seismic interaction effects? **Other Adverse Conditions** 11. Have you looked for and found no adverse seismic conditions that could Yes adversely affect the safety functions of the equipment? **Comments** Seismic walkdown team M. Delaney & P. Gazda 7/31/12 pm Evaluated by: Marlene Delaney Date: 10/1/2012 Philip Gazda 10/1/2012

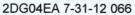
Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2DG04EA

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

Equipment Description: DIESEL GENERATOR 1A SYNCHRO-CHECK RELAY BOX







2DG04EA 7-31-12 067

Braidwood Station Unit 2 12Q0108.10-R-002 Rev. 0 Correspondence No.: RS-12-159 Sheet 1 of 4

		Status: Y N U
Seism	ic Walkdown Checklist (SWC)	
	Equipment ID No.: 2D001TA	
	Equipment Class: (21) Tanks and Heat Exchangers	,
	Equipment Description: DIESEL OIL STORAGE TANK	
	Project: Braidwood 2 SWEL	
Locatio	on (Bldg, Elev, Room/Area): Auxiliary, 373.00 ft, ALL	
	Manufacturer/Model:	
Instruc	ctions for Completing Checklist	
SWEL.	necklist may be used to document the results of the Seismic Walkdown of an item of e . The space below each of the following questions may be used to record the results s. Additional space is provided at the end of this checklist for documenting other com	of judgments and
<u>Ancho</u>		•
1.	Is anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?	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
	Tank has hair line crack at 10 of 16 anchor bolts. The cracks do not extend into base slab and are only in the approximately 1' high pad. Anchor is embedded in base slab greater than 1' in depth and pad is reinforced in area of cracks so cracks will not propagate. Cracks will not impact anchor strength and are not a structural/seismic issue. IR 1396566 was generated to document issue.	
5.	Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) Drawing M-1214 Sheet 16 Revision H Drawing M-1214 Sheet 3 Revision Z	Yes
6.	Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	Yes

Braidwood Station Unit 2 12Q0108.10-R-002 Rev. 0 Correspondence No.: RS-12-159 Sheet 2 of 4

Seismic Walkdown Checklist (SWC)	Status: Y N U
Equipment ID No.: 2D001TA	
Equipment Class: (21) Tanks and Heat Exchangers	
Equipment Description: DIESEL OIL STORAGE TANK	
	•
hadanadi Fffa da	
Interaction Effects7. Are soft targets free from impact by nearby equipment or structures?	Yes
7. Are soit targets free from impact by hearby equipment of structures:	163
	•
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and	Yes
masonry block walls not likely to collapse onto the equipment?	
9. Do attached lines have adequate flexibility to avoid damage?	Yes
10. Based on the above seismic interaction evaluations, is equipment free of	Yes
potentially adverse seismic interaction effects?	103
Other Adverse Conditions	,
Have you looked for and found no adverse seismic conditions that could	Yes
adversely affect the safety functions of the equipment?	
·	
Comments	
Seismic walkdown team M. Delaney & P. Gazda 7/31/12 pm	

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2DO01TA

Equipment Class: (21) Tanks and Heat Exchangers

Equipment Description: DIESEL OIL STORAGE TANK

Evaluated by:

Marlene Delaney

Date: 10/1/2012

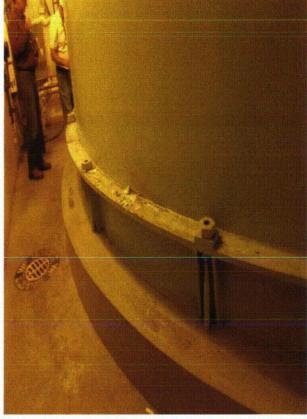
Philip Gazda

10/1/2012

Photos



2DO01TA 8-2-12 063



2DO01TA 8-2-12 064

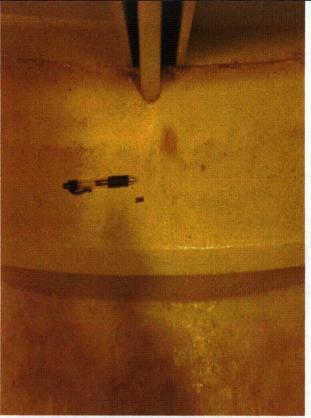
Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2DO01TA

Equipment Class: (21) Tanks and Heat Exchangers

Equipment Description: DIESEL OIL STORAGE TANK





2DO01TA 8-2-12 065

2DO01TA 8-2-12 066

Braidwood Station Unit 2 12Q0108.10-R-002 Rev. 0 Correspondence No.: RS-12-159 Sheet 1 of 3

	Status: Y N U
Seismic Walkdown Checklist (SWC)	
Equipment ID No.: 2FC004A	
Equipment Class: (0) Other	·
Equipment Description: SPENT FUEL PIT HX TUBE SIDE VENT VALVE	
Project: Braidwood 2 SWEL	•
Location (Bldg, Elev, Room/Area): FH, 401.00 ft, ALL	
Manufacturer/Model:	
Instructions for Completing Checklist	
This checklist may be used to document the results of the Seismic Walkdown of an item of eq SWEL. The space below each of the following questions may be used to record the results of findings. Additional space is provided at the end of this checklist for documenting other common the common space.	f judgments and
<u>Anchorage</u>	
 Is anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? 	No
Is the anchorage free of bent, broken, missing or loose hardware?	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

Braidwood Station Unit 2 12Q0108.10-R-002 Rev. 0

Correspondence No.: RS-12-159 Sheet 2 of 3

Status: Seismic Walkdown Checklist (SWC) Equipment ID No.: 2FC004A Equipment Class: (0) Other Equipment Description: SPENT FUEL PIT HX TUBE SIDE VENT VALVE **Interaction Effects** 7. Are soft targets free from impact by nearby equipment or structures? Yes 8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and Yes masonry block walls not likely to collapse onto the equipment? 9. Do attached lines have adequate flexibility to avoid damage? Yes 10. Based on the above seismic interaction evaluations, is equipment free of Yes potentially adverse seismic interaction effects? **Other Adverse Conditions** 11. Have you looked for and found no adverse seismic conditions that could Yes adversely affect the safety functions of the equipment? Small diameter pipe off of HX, well-supported **Comments** Seismic walkdown team M. Delaney & P. Gazda 7/30/12 pm Evaluated by: Marlene Delaney Date: 10/1/2012 Philip Gazda 10/1/2012

Sheet 3 of 3

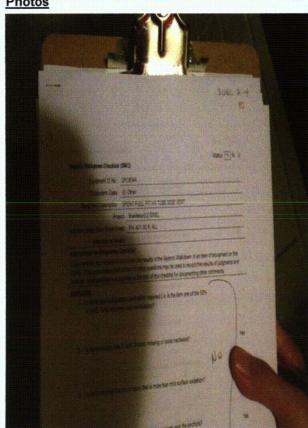
Status: Y N U

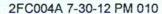
Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2FC004A

Equipment Class: (0) Other

Equipment Description: SPENT FUEL PIT HX TUBE SIDE VENT VALVE







2FC004A 7-30-12 PM 011

Seismic Walkdown Checklist (SWC)	Status: Y N U
Equipment ID No.: 2FC004B	
Equipment Class: (0) Other	· · · · · · · · · · · · · · · · · · ·
Equipment Description: SPENT FUEL PIT HX SHELL SIDE VENT VALVE	
Project: Braidwood 2 SWEL	
Location (Bldg, Elev, Room/Area): FH, 401.00 ft, ALL	
Manufacturer/Model:	· · · · · · · · · · · · · · · · · · ·
Instructions for Completing Checklist	
This checklist may be used to document the results of the Seismic Walkdown of an item of equivalent SWEL. The space below each of the following questions may be used to record the results of findings. Additional space is provided at the end of this checklist for documenting other comme	judgments and
<u>Anchorage</u>	
 Is anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? 	No
2. Is the anchorage free of bent, broken, missing or loose hardware?	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

Braidwood Station Unit 2 12Q0108.10-R-002 Rev. 0

Correspondence No.: RS-12-159

Sheet 2 of 3

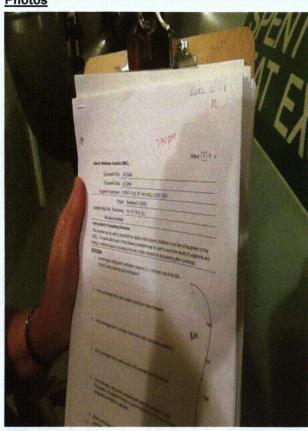
Status: Seismic Walkdown Checklist (SWC) Equipment ID No.: 2FC004B Equipment Class: (0) Other Equipment Description: SPENT FUEL PIT HX SHELL SIDE VENT VALVE **Interaction Effects** 7. Are soft targets free from impact by nearby equipment or structures? Yes 8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and Yes masonry block walls not likely to collapse onto the equipment? Do attached lines have adequate flexibility to avoid damage? Yes 10. Based on the above seismic interaction evaluations, is equipment free of Yes potentially adverse seismic interaction effects? 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? Small diameter pipe off of HX. Well-supported. **Comments** Seismic walkdown team M. Delaney & P. Gazda 7/30/12 pm Evaluated by: Marlene Delaney Date: 10/1/2012 Philip Gazda 10/1/2012

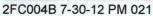
Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2FC004B

Equipment Class: (0) Other

Equipment Description: SPENT FUEL PIT HX SHELL SIDE VENT VALVE







2FC004B 7-30-12 PM 022

Braidwood Station Unit 2 12Q0108.10-R-002 Rev. 0

Correspondence No.: RS-12-159

Sheet 1 of 3

Status: | Seismic Walkdown Checklist (SWC) Equipment ID No.: 2FC005 Equipment Class: (0) Other Equipment Description: SPENT FUEL PIT PMP CASING DRN VALVE Project: Braidwood 2 SWEL Location (Bldg, Elev, Room/Area): FH, 401.00 ft, ALL Manufacturer/Model: Instructions for Completing Checklist This checklist may be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments. **Anchorage** Is anchorage configuration verification required (i.e., is the item one of the 50% No of SWEL items requiring such verification)? 2. Is the anchorage free of bent, broken, missing or loose hardware? Not Applicable Not Applicable Is the anchorage free of corrosion that is more than mild surface oxidation? Is the anchorage free of visible cracks in the concrete near the anchors? Not Applicable 5. Is the anchorage configuration consistent with plant documentation? (Note: Not Applicable This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) 6. Based on the above anchorage evaluations, is the anchorage free of Yes potentially adverse seismic conditions?

Seismic	Walkdown Checklist	(SWC)			Status: Y] N U
	Equipment ID No.:					
	Equipment Class:					
E	quipment Description:		CASING DRN VALVE			
	ion Effects	•				
7. /	Are soft targets free fro	m impact by nearby equi	pment or structures?	•		Yes
		nt, distribution systems, o t likely to collapse onto th		and		Yes
9.	Do attached lines have	adequate flexibility to av	oid damage?			Yes
		ismic interaction evaluati mic interaction effects?	ons, is equipment free	of ·		Yes
Other A	dverse Conditions					
	•	d found no adverse seisrety functions of the equipulations of the equipulations with the equipulations of the equipulation of		d		Yes
Comme Seismic		aney & P. Gazda 7/30/12	2 pm			
Evaluate		Mych Phillip G	Marlene Delaney		10/1/2012 10/1/2012	

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2FC005

Equipment Class: (0) Other

Equipment Description: SPENT FUEL PIT PMP CASING DRN VALVE



2FC005 7-30-12 PM 032

Calamia Malindania Charlita	(CMC)	Status: Y N U
Seismic Walkdown Checklist		
Equipment ID No.:	2FC006	
Equipment Class:	(0) Other	· · · · · · · · · · · · · · · · · · ·
Equipment Description:	SPENT FUEL PIT PMP CASING VENT VALVE	
Proje	ct: Braidwood 2 SWEL	
Location (Bldg, Elev, Room/Are	a): FH, 401.00 ft, ALL	
Manufacturer/Mod	el:	
SWEL. The space below each findings. Additional space is pro-	hecklist ocument the results of the Seismic Walkdown of an item of of the following questions may be used to record the results ovided at the end of this checklist for documenting other con	of judgments and
Anchorage		
Is anchorage configurate of SWEL items requiring	ion verification required (i.e., is the item one of the 50% g such verification)?	No ·
2. Is the anchorage free o	f bent, broken, missing or loose hardware?	Not Applicable
3. Is the anchorage free o	f corrosion that is more than mild surface oxidation?	Not Applicable
4. Is the anchorage free o	f visible cracks in the concrete near the anchors?	Not Applicable
	uration consistent with plant documentation? (Note: les if the item is one of the 50% for which an anchorage in is required.)	Not Applicable
Based on the above an potentially adverse seis	chorage evaluations, is the anchorage free of mic conditions?	Yes

_			Status: Y N U
Seismic Wa	alkdown Checklist	(SWC)	
	Equipment ID No.:	2FC006	
	Equipment Class:	(0) Other	
Equip	oment Description:	SPENT FUEL PIT PMP CASING VENT VALVE	
<u>Interaction</u>			
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
mas	sonry block walls no	t likely to collapse onto the equipment?	
9. Do	attached lines have	adequate flexibility to avoid damage?	Yes
10. Bas	ed on the ahove se	smic interaction evaluations, is equipment free of	Yes
		mic interaction effects?	103
Other Adve	erse Conditions		
-		d found no adverse seismic conditions that could	Yes
	•	ety functions of the equipment?	
Sr	mall diameter pipe, v	/ен-supponea.	
Comments			
Seismic wal	kdown team M. Del	aney & P. Gazda 7/30/12 pm	
<u> </u>	M. A.	. 414 1	
	/ faces	e M Selany	
Contrated by		() .	1/40
Evaluated b		Marlene Delaney Date: 10/1	./12
•	Q_{B}	Throng Philip Condo	
		Philip Gazda 10/1	1/12

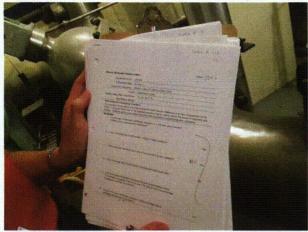
Status: Y N U

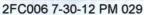
Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2FC006

Equipment Class: (0) Other

Equipment Description: SPENT FUEL PIT PMP CASING VENT VALVE







2FC006 7-30-12 PM 030

Correspondence No.: RS-12-159 Sheet 1 of 3

Status: Y N U Seismic Walkdown Checklist (SWC) Equipment ID No.: 2FC011 Equipment Class: (0) Other Equipment Description: SFP FLT DEMIN LOOP RTRN TO U-2 REFUEL CAV CNMT ISOL VALVE Project: Braidwood 2 SWEL Location (Bldg, Elev, Room/Area): Auxiliary, 364.00 ft, ALL Manufacturer/Model: **Instructions for Completing Checklist** This checklist may be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments. **Anchorage** 1. Is anchorage configuration verification required (i.e., is the item one of the 50% No of SWEL items requiring such verification)? 2. Is the anchorage free of bent, broken, missing or loose hardware? Not Applicable Not Applicable 3. Is the anchorage free of corrosion that is more than mild surface oxidation? 4. Is the anchorage free of visible cracks in the concrete near the anchors? Not Applicable -5. Is the anchorage configuration consistent with plant documentation? (Note: Not Applicable . This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) Based on the above anchorage evaluations, is the anchorage free of Yes potentially adverse seismic conditions? Well-anchored and supported at Penetration 32

Seismic Walkdow	n Checklist	(SWC)			Status:	N U
	nent ID No.:			•		
	nent Class:					
Equipment [P RTRN TO U-2 REFUI	EL CAV C	NMT ISOL VAL	.VE
Interaction Effects		•			· · · · · · · · · · · · · · · · · · ·	
7. Are soft tai	gets free fro	m impact by nearby equ	uipment or structures?			Yes
					٠	
		nt, distribution systems, t likely to collapse onto	ceiling tiles and lighting the equipment?	, and		Yes
9. Do attache	d lines have	adequate flexibility to a	void damage?		æ	Yes
		ismic interaction evalua mic interaction effects?	tions, is equipment free	of		Yes
Other Adverse Co	nditions					
		d found no adverse seis ety functions of the equ	smic conditions that cou ipment?	ld	·	Yes
Comments Seismic walkdown	team M. Del	aney & P. Gazda 8/2/12	2 am			
Evaluated by:	Marles	Le Malery	Marlene Delaney	_ Date:	10/1/2012	
	0.0.	Mych Philip	Gazda		10/1/2012	
						•

Sheet 3 of 3

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2FC011

Equipment Class: (0) Other

Equipment Description: SFP FLT DEMIN LOOP RTRN TO U-2 REFUEL CAV CNMT ISOL VALVE



2FC011 8-2-12 023

Caiamia Walladaasa Obaaldia	(OMO)	Status: Y N U
Seismic Walkdown Checklist		
Equipment ID No.:		
Equipment Class:		
Equipment Description:	SPENT FUEL PIT HEAT EXCHANGER	
Proje	ect: Braidwood 2 SWEL	
Location (Bldg, Elev, Room/Are	ea): FH, 401.00 ft, ALL	
Manufacturer/Mod	del:	
SWEL. The space below each findings. Additional space is pr	Checklist Identification of the Seismic Walkdown of an item of of the following questions may be used to record the results to the end of this checklist for documenting other continuous.	s of judgments and
Anchorage	tion varification required (i.e. in the item one of the 50%	Yes
 Is anchorage configura of SWEL items requiring 	tion verification required (i.e., is the item one of the 50% g such verification)?	res
2. Is the anchorage free o	of bent, broken, missing or loose hardware?	Yes
3. Is the anchorage free of	of corrosion that is more than mild surface oxidation?	Yes
4. Is the anchorage free of	of visible cracks in the concrete near the anchors?	Yes
	• •	Yes
Based on the above ar potentially adverse seis	nchorage evaluations, is the anchorage free of smic conditions?	Yes

					Status: Y N	U
Seismic Walkdow	n Checklist	(SWC)			,	
Equipm	ent ID No.:	2FC01A				
Equipn	nent Class:	(0) Other				
Equipment D	escription:	SPENT FUEL PIT HEA	AT EXCHANGER			
Interaction Effects	=					
7. Are soft tar	gets free fro	m impact by nearby equ	ipment or structures?		Y	es es
	ock walls no	nt, distribution systems, It likely to collapse onto	ceiling tiles and lighting the equipment?	, and	Y	′es
9. Do attache	d lines have	adequate flexibility to a	void damage?		· Y	′es
		ismic interaction evalua smic interaction effects?	tions, is equipment free	of	Y	⁄es
Other Adverse Co	nditions					
•		d found no adverse seis fety functions of the equ	smic conditions that coul ipment?	d	Y	es/es
Comments Seismic walkdown	team M. Del	aney & P. Gazda 7/30/1	2 pm			
Evaluated by:	•	Mych Philip	Marlene Delaney Gazda	_ Date: _	10/1/2012 10/1/2012	

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2FC01A

Equipment Class: (0) Other

Equipment Description: SPENT FUEL PIT HEAT EXCHANGER







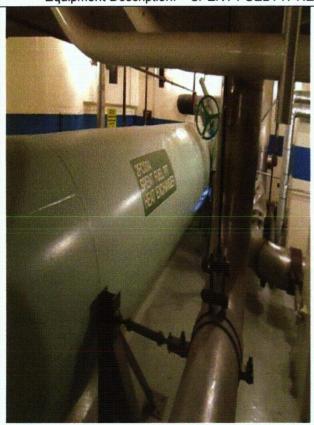
2FC01A 7-30-12 PM 003

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2FC01A

Equipment Class: (0) Other

Equipment Description: SPENT FUEL PIT HEAT EXCHANGER



2FC01A 7-30-12 PM 004

Seismic Walkdown Checklis		N U
Equipment ID No.:	2FC01P	
Equipment Class:	(5) Horizontal Pumps	
Equipment Description:	PUMP,SPENT FUEL PIT 12X14-14	
Proj	ject: Braidwood 2 SWEL	
Location (Bldg, Elev, Room/Ar	rea): FH, 401.00 ft, ALL	
Manufacturer/Mo	odel:	
Instructions for Completing	Checklist	
SWEL. The space below each	document the results of the Seismic Walkdown of an item of equipment on the hof the following questions may be used to record the results of judgments as provided at the end of this checklist for documenting other comments.	
<u>Anchorage</u>		
Is anchorage configure of SWEL items requiri	ation verification required (i.e., is the item one of the 50% ng such verification)?	Yes
2. Is the anchorage free	of bent, broken, missing or loose hardware?	Yes
3. Is the anchorage free	of corrosion that is more than mild surface oxidation?	Yes
4. Is the anchorage free	of visible cracks in the concrete near the anchors?	Yes
This question only app configuration verification Drawing M-1222 She Pump is contaminated		Yes
Based on the above a potentially adverse set	inchorage evaluations, is the anchorage free of ismic conditions?	Yes

Braidwood Station Unit 2 12Q0108.10-R-002 Rev. 0

Correspondence No.: RS-12-159

Sheet 2 of 4

Status: Seismic Walkdown Checklist (SWC) Equipment ID No.: 2FC01P Equipment Class: (5) Horizontal Pumps Equipment Description: PUMP, SPENT FUEL PIT 12X14-14 **Interaction Effects** 7. Are soft targets free from impact by nearby equipment or structures? Yes 8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and Yes masonry block walls not likely to collapse onto the equipment? Do attached lines have adequate flexibility to avoid damage? Yes Based on the above seismic interaction evaluations, is equipment free of Yes potentially adverse seismic interaction effects? Other Adverse Conditions Have you looked for and found no adverse seismic conditions that could Yes adversely affect the safety functions of the equipment? No structural/seismic issues **Comments** Seismic walkdown team M. Delaney & P. Gazda 7/30/12 pm Evaluated by: Marlene Delaney Date: 10/1/2012 Philip Gazda 10/1/2012

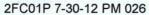
Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2FC01P

Equipment Class: (5) Horizontal Pumps

Equipment Description: PUMP, SPENT FUEL PIT 12X14-14







2FC01P 7-30-12 PM 027

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2FC01P

Equipment Class: (5) Horizontal Pumps

Equipment Description: PUMP,SPENT FUEL PIT 12X14-14



2FC01P 7-30-12 PM 028

Seismic Walkdown Checklist (SWC)	Status: Y N U
Equipment ID No.: 2FC022	
Equipment Class: (0) Other	
Equipment Description: SPENT FUEL PIT PMP SUCT INST ISOL TO 2PI-633 VALV	<u>'</u> E
Project: Braidwood 2 SWEL	
Location (Bldg, Elev, Room/Area): FH, 401.00 ft, ALL	
Manufacturer/Model:	
Instructions for Completing Checklist	
This checklist may be used to document the results of the Seismic Walkdown of an item of eq SWEL. The space below each of the following questions may be used to record the results of findings. Additional space is provided at the end of this checklist for documenting other comments.	f judgments and
Anchorage	
 Is anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? 	No
2. Is the anchorage free of bent, broken, missing or loose hardware?	Not Applicable
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	Not Applicable
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Not Applicable
 Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) 	Not Applicable
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	Yes

Braidwood Station Unit 2 12Q0108.10-R-002 Rev. 0

Correspondence No.: RS-12-159

Sheet 2 of 3

Status: Seismic Walkdown Checklist (SWC) Equipment ID No.: 2FC022 Equipment Class: (0) Other SPENT FUEL PIT PMP SUCT INST ISOL TO 2PI-633 VALVE Equipment Description: **Interaction Effects** Yes. 7. Are soft targets free from impact by nearby equipment or structures? Are overhead equipment, distribution systems, ceiling tiles and lighting, and Yes masonry block walls not likely to collapse onto the equipment? Seismic block walls 9. Do attached lines have adequate flexibility to avoid damage? Yes Based on the above seismic interaction evaluations, is equipment free of Yes potentially adverse seismic interaction effects? **Other Adverse Conditions** Yes Have you looked for and found no adverse seismic conditions that could adversely affect the safety functions of the equipment? no photo **Comments** Seismic walkdown team M. Delaney & P. Gazda 7/30/12 pm Evaluated by: Marlene Delaney Date: 10/1/2012 Philip Gazda 10/1/2012

Seismic Walkdown Checklist	(SWC)
Equipment ID No.:	2FC022
Equipment Class:	(0) Other
Equipment Description:	SPENT FUEL PIT PMP SUCT INST ISOL TO 2PI-633 VALVE
<u>Photos</u>	
None.	

Seismic Walkdown Checklist (SWC)	Status: Y N U
Equipment ID No.: 2FC8756	
Equipment Class: (0) Other	
Equipment Description: SPENT FUEL PIT PMP SUCTION VALVE	
Project: Braidwood 2 SWEL	
Location (Bldg, Elev, Room/Area): FH, 401.00 ft, ALL	
Manufacturer/Model:	
Instructions for Completing Checklist	
This checklist may be used to document the results of the Seismic Walkdown of an item of e SWEL. The space below each of the following questions may be used to record the results findings. Additional space is provided at the end of this checklist for documenting other com-	of judgments and
Anchorage	
 Is anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? 	No
or over a second requiring such vermounts,	·
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 Walkdo	own Checklist	(SWC)			Status: Y N U
	oment ID No.: ipment Class:		· · · · · · · · · · · · · · · · · · ·		
-			D SUCTION VALVE		
Interaction Effe		SPENT FUEL PIT PMI	SUCTION VALVE		
		m impact by nearby equ	ipment or structures?		Yes
		nt, distribution systems, It likely to collapse onto		, and	Yes
9. Do attac	hed lines have	adequate flexibility to a	void damage?		Yes
		ismic interaction evaluatemic interaction effects?	ions, is equipment free	of	Yes
Other Adverse	Conditions				
11. Have yo	u looked for an	d found no adverse seis fety functions of the equi ed valve.		∤d	Yes
Comments					
Seismic walkdow	n team M. Del	aney & P. Gazda 7/30/1	2 pm		
Evaluated by:	Marles O.O.	Mych Philip	Marlene Delaney		0/1/2012

Sheet 3 of 3

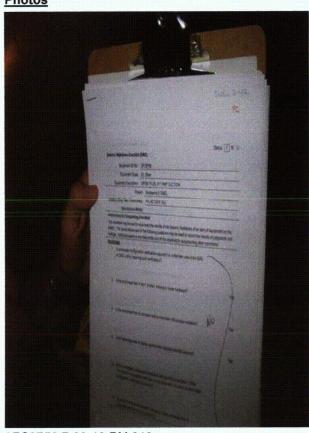
Status: Y N U

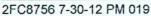
Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2FC8756

Equipment Class: (0) Other

Equipment Description: SPENT FUEL PIT PMP SUCTION VALVE







2FC8756 7-30-12 PM 020

Seismic Walkdown Checklist	(SWC)	Status: Y N U
		•
Equipment ID No.:		
Equipment Class:	SPENT FUEL PIT PMP SUCT INST ROOT TO 2PI-633	\/A \/E
		VALVE
Location (Bldg, Elev, Room/Are	ect: Braidwood 2 SWEL	
•	·	
Manufacturer/Mo		
This checklist may be used to a SWEL. The space below each	document the results of the Seismic Walkdown of an item of the following questions may be used to record the result of the end of this checklist for documenting other controls.	lts of judgments and
Anchorage		
 Is anchorage configurated of SWEL items requirired. 	ation verification required (i.e., is the item one of the 50% as such verification)?	No
2. Is the anchorage free of	of bent, broken, missing or loose hardware?	Not Applicable
3. Is the anchorage free of	of corrosion that is more than mild surface oxidation?	Not Applicable
4. Is the anchorage free of	of visible cracks in the concrete near the anchors?	Not Applicable
	guration consistent with plant documentation? (Note: lies if the item is one of the 50% for which an anchorage on is required.)	Not Applicable
 Based on the above ar potentially adverse seis 	nchorage evaluations, is the anchorage free of smic conditions?	Yes

Braidwood Station Unit 2 12Q0108.10-R-002 Rev. 0

Correspondence No.: RS-12-159

Sheet 2 of 3

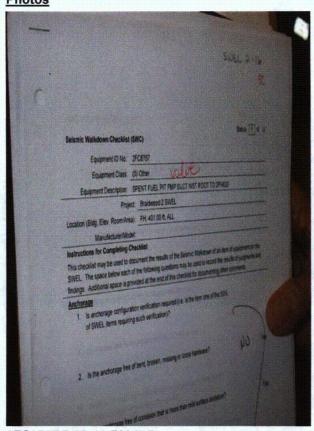
Status: Seismic Walkdown Checklist (SWC) Equipment ID No.: 2FC8757 Equipment Class: (0) Other Equipment Description: SPENT FUEL PIT PMP SUCT INST ROOT TO 2PI-633 VALVE **Interaction Effects** 7. Are soft targets free from impact by nearby equipment or structures? Yes 8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and Yes masonry block walls not likely to collapse onto the equipment? Yes Do attached lines have adequate flexibility to avoid damage? Based on the above seismic interaction evaluations, is equipment free of Yes potentially adverse seismic interaction effects? Other Adverse Conditions Have you looked for and found no adverse seismic conditions that could Yes adversely affect the safety functions of the equipment? Small diameter pipe off of HX. Well-supported. Comments Seismic walkdown team M. Delaney & P. Gazda 7/30/12 pm Evaluated by: Marlene Delaney Date: 10/1/2012 Philip Gazda 10/1/2012

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2FC8757

Equipment Class: (0) Other

Equipment Description: SPENT FUEL PIT PMP SUCT INST ROOT TO 2PI-633 VALVE





2FC8757 7-30-12 PM 017

2FC8757 7-30-12 PM 018

ic Walkdown Checklist	(SWC)	Status: Y N U
· · ·	*	
•		/AL\/E
		/ALVE
•		
-		
necklist may be used to do The space below each of s. Additional space is pro	ocument the results of the Seismic Walkdown of an item of of the following questions may be used to record the results	of judgments and
		
	· · · · · · · · · · · · · · · · · · ·	No
Is the anchorage free of	bent, broken, missing or loose hardware?	Not Applicable
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
This question only appli	es if the item is one of the 50% for which an anchorage	Not Applicable
		Yes
	Equipment ID No.: Equipment Class: Equipment Description: Project on (Bldg, Elev, Room/Area Manufacturer/Mode ctions for Completing Conecklist may be used to do The space below each os Additional space is proprage Is anchorage configurate of SWEL items requiring the anchorage free of	Equipment Description: REFUELING WTR PURIF PMP SUCT FROM U-2 RWST \ Project: Braidwood 2 SWEL On (Bldg, Elev, Room/Area): Auxiliary, 364.00 ft, ALL Manufacturer/Model: Ctions for Completing Checklist Decklist may be used to document the results of the Seismic Walkdown of an item of the space below each of the following questions may be used to record the results of this checklist for documenting other constants.

Sajamia Walkdawa ('hooklist	ewcı .		Status: Y N U	
Seismic Walkdown C		•			
Equipmen	-				
Equipmen	-		FDOM I LO DIMICT		
	cription:	REFUELING WTR PURIF PMP SUCT	FROM U-2 RVVS1	VALVE	
Interaction Effects 7 Are soft target	s free from	n impact by nearby equipment or structu	ures?	Yes	
	.0 .100 .101	· · · · · puot 27 · · · out 27 · · · quipmont 3. · out act			
	ż				
		t, distribution systems, ceiling tiles and likely to collapse onto the equipment?	lighting, and	Yes	
		•			
9. Do attached li	nes have	adequate flexibility to avoid damage?		Yes	
10 Paged on the	ahaya sai	omio intercetion evoluctione in equipme	ant from of	Yes	
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?					
	•				
Other Adverse Cond	itions	· · · · · · · · · · · · · · · · · · ·		1-48 6	
		I found no adverse seismic conditions the	hat could	Yes	
adversely affect the safety functions of the equipment?					
small diameter pipe that is well-supported					
Comments					
	m M. Dela	ney & P. Gazda 7/30/12 pm and 8/2/12	?am		
,	Yalu	L M Selesy			
Evaluated by	-	Marlene Dela	nov Doto:	10/1/2012	
Evaluated by:		Wianiene Dela	mey □ate	10/1/2012	
	7.0.	Mach			
		Philip Gazda	· _	10/1/2012	

Sheet 3 of 4

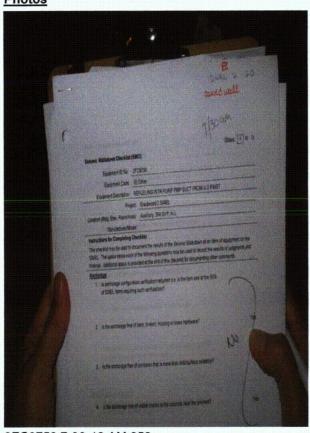
Status: Y N U

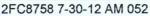
Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2FC8758

Equipment Class: (0) Other

Equipment Description: REFUELING WTR PURIF PMP SUCT FROM U-2 RWST VALVE







2FC8758 7-30-12 AM 053

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2FC8758

Equipment Class: (0) Other

Equipment Description: REFUELING WTR PURIF PMP SUCT FROM U-2 RWST VALVE



2FC8758 8-2-12 022

•	Status: Y N U
Seismic Walkdown Checklist (SWC)	•
Equipment ID No.: 2FC8762A	•
Equipment Class: (21) Tanks and Heat Exchangers	
Equipment Description: SPENT FUEL PIT HX INLET VALVE	
Project: Braidwood 2 SWEL	· .
Location (Bldg, Elev, Room/Area): FH, 401.00 ft, ALL	
Manufacturer/Model:	
Instructions for Completing Checklist	
This checklist may be used to document the results of the Seismic Walkdown of an item of eq SWEL. The space below each of the following questions may be used to record the results of findings. Additional space is provided at the end of this checklist for documenting other comme	judgments and
Anchorage	
 Is anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? 	No
2. Is the anchorage free of bent, broken, missing or loose hardware?	Not Applicable
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	Not Applicable
	.*
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Not Applicable
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	Not Applicable
configuration verification is required.)	
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	Yes

Braidwood Station Unit 2 12Q0108.10-R-002 Rev. 0

Sheet 2 of 3

Correspondence No.: RS-12-159

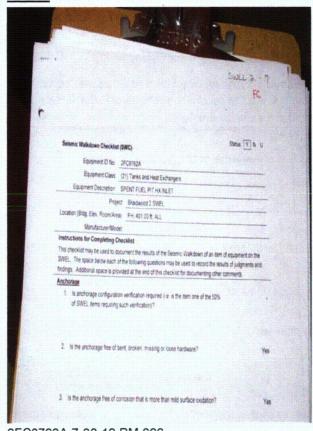
Status: Y N U Seismic Walkdown Checklist (SWC) Equipment ID No.: 2FC8762A Equipment Class: (21) Tanks and Heat Exchangers Equipment Description: SPENT FUEL PIT HX INLET VALVE **Interaction Effects** 7. Are soft targets free from impact by nearby equipment or structures? Yes 8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and Yes masonry block walls not likely to collapse onto the equipment? 9. Do attached lines have adequate flexibility to avoid damage? Yes 10. Based on the above seismic interaction evaluations, is equipment free of Yes potentially adverse seismic interaction effects? **Other Adverse Conditions** 11. Have you looked for and found no adverse seismic conditions that could Yes adversely affect the safety functions of the equipment? Rugged valve **Comments** Seismic walkdown team M. Delaney & P. Gazda 7/30/12 pm Evaluated by: Marlene Delaney Date: 10/1/2012 10/1/2012

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2FC8762A

Equipment Class: (21) Tanks and Heat Exchangers

Equipment Description: SPENT FUEL PIT HX INLET VALVE





2FC8762A 7-30-12 PM 006

Colonia Mallalarra Obsalila (OMO)		Status: Y N U
Seismic Walkdown Checklist (SWC)		
Equipment ID No.: 2FC876	62B	
Equipment Class: (0) Oth	er	
Equipment Description: SPENT	FUEL PIT HX OUTLET VALVE	
Project: Bra	aidwood 2 SWEL	
Location (Bldg, Elev, Room/Area): FH	, 401.00 ft, ALL	
Manufacturer/Model:		
Instructions for Completing Checklis	t	
SWEL. The space below each of the fo	t the results of the Seismic Walkdown of an item of ollowing questions may be used to record the results at the end of this checklist for documenting other con	of judgments and
Anchorage		
 Is anchorage configuration verif of SWEL items requiring such v 	fication required (i.e., is the item one of the 50% rerification)?	No
· · ·	•	
2. Is the anchorage free of bent, b	roken, missing or loose hardware?	Not Applicable
3. Is the anchorage free of corrosic	on 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
		•
- , -	consistent with plant documentation? (Note:	Not Applicable
configuration verification is requ	=	·
 Based on the above anchorage potentially adverse seismic cond 	evaluations, is the anchorage free of ditions?	Yes
•		>

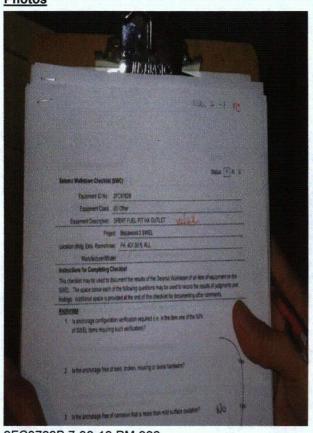
		•			Status: Y	ln u
Seismi	c Walkdown Checklist	(SWC)		•	otatas.]., 0
	Equipment ID No.:	2FC8762B				
	Equipment Class:	(0) Other				
6	Equipment Description:	SPENT FUEL PIT HX (OUTLET VALVE			
Interac	tion Effects	-				
7.	Are soft targets free fro	om impact by nearby equi	pment or structures?			Yes
8.		nt, distribution systems, on the likely to collapse onto the likely		, and	<i>:</i>	Yes
9.	Do attached lines have	adequate flexibility to av	oid damage?			Yes
10.		eismic interaction evaluati smic interaction effects?	ons, is equipment free	of		Yes
Other A	Adverse Conditions					
11.	Have you looked for ar	nd found no adverse seisr fety functions of the equip		ld		Yes
Commo		laney & P. Gazda 7/30/12	2 pm			
					<u></u>	
Evaluat	ted by:	Mych Phillip G	Marlene Delaney sazda	Date: _	10/1/2012	

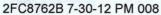
Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2FC8762B

Equipment Class: (0) Other

Equipment Description: SPENT FUEL PIT HX OUTLET VALVE







2FC8762B 7-30-12 PM 009

Braidwood Station Unit 2 12Q0108.10-R-002 Rev. 0

Sheet 1 of 3

Correspondence No.: RS-12-159

Status: Y N U Seismic Walkdown Checklist (SWC) Equipment ID No.: 2FC8792A Equipment Class: (0) Other Equipment Description: SPENT FUEL PIT HX TUBE SIDE DRN VALVE Project: Braidwood 2 SWEL Location (Bldg, Elev, Room/Area): FH, 401.00 ft, ALL Manufacturer/Model: **Instructions for Completing Checklist** This checklist may be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments. **Anchorage** 1. Is anchorage configuration verification required (i.e., is the item one of the 50% No of SWEL items requiring such verification)? 2. Is the anchorage free of bent, broken, missing or loose hardware? Not Applicable 3. Is the anchorage free of corrosion that is more than mild surface oxidation? Not Applicable Not Applicable 4. Is the anchorage free of visible cracks in the concrete near the anchors? 5. Is the anchorage configuration consistent with plant documentation? (Note: Not Applicable This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) 6. Based on the above anchorage evaluations, is the anchorage free of Yes potentially adverse seismic conditions?

Seismic Walkdown Check	Statu	ıs: Y N U
	o.: 2FC8792A	
Equipment Cla		
	on: SPENT FUEL PIT HX TUBE SIDE DRN VALVE	
Interaction Effects		
7. Are soft targets free	e from impact by nearby equipment or structures?	Yes
	oment, distribution systems, ceiling tiles and lighting, and s not likely to collapse onto the equipment?	Yes
9. Do attached lines h	ave adequate flexibility to avoid damage?	Yes
	e seismic interaction evaluations, is equipment free of seismic interaction effects?	Yes
Other Adverse Conditions	<u> </u>	
adversely affect the	r and found no adverse seismic conditions that could safety functions of the equipment? The office off of bottom of HX. Well-supported.	Yes
Comments		
Seismic walkdown team M.	Delaney & P. Gazda 7/30/12 pm	
Evaluated by:	Marlene Delaney Date: 10/1/201	

Sheet 3 of 3

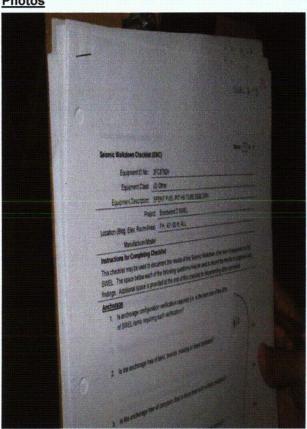
Status: Y N U

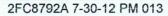
Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2FC8792A

Equipment Class: (0) Other

Equipment Description: SPENT FUEL PIT HX TUBE SIDE DRN VALVE







2FC8792A 7-30-12 PM 014

Seismic Walkdown Checklist (SWC)	Status: Y N U
Equipment ID No.:	2FC8792B	
Equipment Class:	(0) Other	
Equipment Description:	SPENT FUEL PIT HX SHELL SIDE DRN VALVE	
Projec	et: Braidwood 2 SWEL	
Location (Bldg, Elev, Room/Area): FH, 401.00 ft, ALL	
Manufacturer/Mode	el:	
Instructions for Completing Ch	necklist	
SWEL. The space below each of	cument the results of the Seismic Walkdown of an item of one of the following questions may be used to record the results wided at the end of this checklist for documenting other contracts.	of judgments and
<u>Anchorage</u>		
Is anchorage configuration of SWEL items requiring	on verification required (i.e., is the item one of the 50% such verification)?	No
2. Is the anchorage free of	bent, broken, missing or loose hardware?	Not Applicable
3. Is the anchorage free of	corrosion that is more than mild surface oxidation?	Not Applicable
4. Is the anchorage free of	visible cracks in the concrete near the anchors?	Not Applicable
	ration consistent with plant documentation? (Note: es if the item is one of the 50% for which an anchorage is required.)	Not Applicable
Based on the above and potentially adverse seisn	horage evaluations, is the anchorage free of nic conditions?	Yes

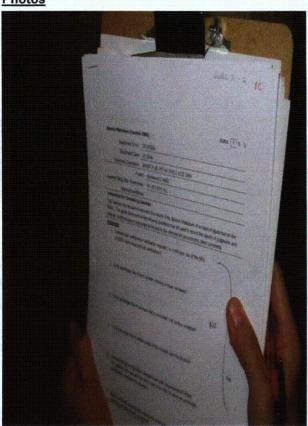
Seismic Walkdown Checklist	(SWC)	us: Y N U
Equipment ID No.: Equipment Class:		
• •	SPENT FUEL PIT HX SHELL SIDE DRN VALVE	
Interaction Effects	SPENT FUEL FIT HA SHELL SIDE DRIN VALVE	
	m impact by nearby equipment or structures?	Yes
	nt, distribution systems, ceiling tiles and lighting, and it likely to collapse onto the equipment?	Yes
9. Do attached lines have	adequate flexibility to avoid damage?	Yes
	ismic interaction evaluations, is equipment free of smic interaction effects?	Yes
Other Adverse Conditions	A PER	
 Have you looked for ar adversely affect the sa 	d found no adverse seismic conditions that could ety functions of the equipment? ff of bottom of HX. Well-supported.	Yes
Comments Seismic walkdown team M. De	aney & P. Gazda 7/30/12 pm	
Evaluated by:	Marlene Delaney Date: 10/1/202	

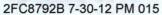
Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2FC8792B

Equipment Class: (0) Other

Equipment Description: SPENT FUEL PIT HX SHELL SIDE DRN VALVE







2FC8792B 7-30-12 PM 016

		Status: Y N U
Seismic Walkdown Checklist ((SWC)	•
Equipment ID No.:	2FC8793	
Equipment Class:	(0) Other	<u>.</u>
Equipment Description:	SPENT FUEL PIT PMP DISCH CHECK VALVE	
Proje	ct: Braidwood 2 SWEL	
Location (Bldg, Elev, Room/Area	a): FH, 401.00 ft, ALL	
Manufacturer/Mode	el:	
· · · · · · · · · · · · · · · · · · ·	hecklist ocument the results of the Seismic Walkdown of an item of of the following questions may be used to record the results	•
	ovided at the end of this checklist for documenting other cor	nments.
Anchorage		
Is anchorage configuration of SWEL items requiring	ion verification required (i.e., is the item one of the 50% g such verification)?	No
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
· · · · · · · · · · · · · · · · · · ·	uration consistent with plant documentation? (Note: es if the item is one of the 50% for which an anchorage is required.)	Not Applicable
Based on the above and potentially adverse seisi	chorage evaluations, is the anchorage free of mic conditions?	Yes

		Status: Y N U
Seismic Walkdown Checklist	(SWC)	
Equipment ID No.:	2FC8793	
Equipment Class:	(0) Other	
Equipment Description:	SPENT FUEL PIT PMP DISCH CHECK VALVE	
Interaction Effects		
Are soft targets free from the free from the free from the free free from the free free free free free free free fr	m impact by nearby equipment or structures?	Yes
,		
masonry block walls no	nt, distribution systems, ceiling tiles and lighting, and of likely to collapse onto the equipment?	Yes
Seismic block walls		
9. Do attached lines have	adequate flexibility to avoid damage?	Yes
40 0 1 "		
	ismic interaction evaluations, is equipment free of smic interaction effects?	Yes
, , , , , , , , , , , , , , , , , , , 		,
Oth A d O didi	·	
Other Adverse Conditions 11. Have you looked for ar	nd found no adverse seismic conditions that could	Yes
	fety functions of the equipment?	162
Well-supported		•
Comments		
Comments Seismic walkdown team M. De	aney & P. Gazda 7/30/12 nm	
Colornio Walkaowii todiii W. Do	:	
Marle	Le M Selesy	
\		
Evaluated by:	Marlene Delaney Date: 10	/1/2012
0.	- A 1	
6.0	Philip Gazda 10	/1/2012
· · · · · · · · · · · · · · · · · · ·		

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2FC8793

Equipment Class: (0) Other

Equipment Description: SPENT FUEL PIT PMP DISCH CHECK VALVE



2FC8793 7-30-12 PM 034

Seismic Walkdown Checklist (SWC)	Status: Y N U
Equipment ID No.: 2FT-AF012	
Equipment Class: (18) Instruments on Racks	
Equipment Description: AF TO SG 2A FLOW TRANSMITTER	
Project: Braidwood 2 SWEL	
Location (Bldg, Elev, Room/Area): Auxiliary, 364.00 ft, ALL	
Manufacturer/Model:	
Instructions for Completing Checklist	
This checklist may be used to document the results of the Seismic Walkdown of an item of 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	of judgments and
Anchorage	
 Is anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? 	No
2. Is the anchorage free of bent, broken, missing or loose hardware?	Not Applicable
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	Not Applicable
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Not Applicable
 Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) 	Not Applicable
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Instrument anchored to Rack 2PL84JB which is well-anchored.	Yes

Seismic Walkdown Checklist (SWC)	Status: Y N U
. ,	
Equipment ID No.: 2FT-AF012	
Equipment Class: (18) Instruments on Racks	
Equipment Description: AF TO SG 2A FLOW TRANSMITTER	<u> </u>
Interaction Effects	
7. Are soft targets free from impact by nearby equipment or structures?	Yes
Scaffold/robust barrier is built around rack 2PL84JB. Portions of scaffold are very near to instrument air lines and other components of rack. Discussed with scaffolding personnel who proceeded to modify scaffold to provide more clearance and complete stand-offs so scaffold/robust barrier cannot move interack.	
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?	Yes
Comments	
See Area Walk-by 26 for discussion on seismic issues. Seismic walkdown team M. Delaney & P. Gazda 8/1/12 am	
Marlere M Selary	
Evaluated by: Marlene Delaney Date	e: 10/1/2012
C.C. Mych Philip Gazda	10/1/2012

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2FT-AF012

Equipment Class: (18) Instruments on Racks

Equipment Description: AF TO SG 2A FLOW TRANSMITTER



2FT-AF012 (AWB- SEISMIC 2 OVER 1) 8-1-12 AM 042



2FT-AF012 (AWB- SIESMIC 2 OVER 1) 8-1-12 PM 001

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2FT-AF012

Equipment Class: (18) Instruments on Racks

Equipment Description: AF TO SG 2A FLOW TRANSMITTER



2FT-AF012 (AWB- SIESMIC 2 OVER 1) 8-1-12 PM 003



2FT-AF012 (AWB- SIESMIC 2 OVER 1) 8-1-12 PM 004

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2FT-AF012

Equipment Class: (18) Instruments on Racks

Equipment Description: AF TO SG 2A FLOW TRANSMITTER



2FT-AF012 (AWB- SIESMIC 2 OVER 1) 8-1-12 PM 005



2FT-AF012 8-1-12 AM 039

Sheet 6 of 6

Status: Y N U

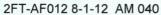
Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2FT-AF012

Equipment Class: (18) Instruments on Racks

Equipment Description: AF TO SG 2A FLOW TRANSMITTER







2FT-AF012 8-1-12 AM 041

		Status: Y N U
Seismic Walkdown Checklist	SWC)	•
Equipment ID No.:	2IP01E	
Equipment Class:	(4) Transformers	
Equipment Description:	INSTRUMENT BUS 211 TRANSFORMER - DIV. 21	
Proje	et: Braidwood 2 SWEL	
Location (Bldg, Elev, Room/Area	a): Auxiliary, 451.00 ft, ALL	
Manufacturer/Mod	el:	
SWEL. The space below each of findings. Additional space is pro-	hecklist ocument the results of the Seismic Walkdown of an item of end of the following questions may be used to record the results evided at the end of this checklist for documenting other compared to the contract of the	of judgments and
Anchorage		V
Is anchorage configurate of SWEL items requiring	on verification required (i.e., is the item one of the 50% such verification)?	Yes
2. Is the anchorage free of	bent, broken, missing or loose hardware?	Yes
3. Is the anchorage free of	corrosion that is more than mild surface oxidation?	Yes
4. Is the anchorage free of	visible cracks in the concrete near the anchors?	Yes
		Yes
Based on the above and potentially adverse seist	chorage evaluations, is the anchorage free of mic conditions?	Yes

Seismic Walkdown C	hecklist (S	SWC)	Status: Y N U
	: ID No.: 2	·	
	_	4) Transformers	
		NSTRUMENT BUS 211 TRANSFORMER - DIV. 2	1
Interaction Effects	onpuon. 1	NOTICE THE POST OF	
	s free from	impact by nearby equipment or structures?	Yes
masonry block	walls not l	distribution systems, ceiling tiles and lighting, and ikely to collapse onto the equipment? would not impact equipment if they fell. Lights	Yes
9. Do attached lir	nes have a	dequate flexibility to avoid damage?	Yes
		nic interaction evaluations, is equipment free of ic interaction effects?	Yes
Other Adverse Condi	tions		
		found no adverse seismic conditions that could y functions of the equipment?	Yes
Comments			
Seismic walkdown tea	m M. Delar	ey & P. Gazda 7/30/12 pm	
Evaluated by:	Jalen	1	ate: 10/1/2012 10/1/2012

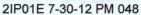
Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2IP01E

Equipment Class: (4) Transformers

Equipment Description: INSTRUMENT BUS 211 TRANSFORMER - DIV. 21







2IP01E 7-30-12 PM 049

Sheet 4 of 4

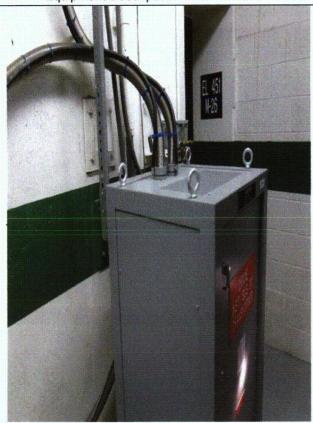
Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2IP01E

Equipment Class: (4) Transformers

Equipment Description: INSTRUMENT BUS 211 TRANSFORMER - DIV. 21



2IP01E 7-30-12 PM 050

Seismic Walkdown Checklist (S	swc)	Status: Y N U
Equipment ID No.: 2	PP01J	
Equipment Class: (14) Distribution Panels	
Equipment Description: 1	20VAC INSTRUMENT BUS DISTRIBUTION PANEL 211 -	DIV. 21
Project	: Braidwood 2 SWEL	
Location (Bldg, Elev, Room/Area)	: Auxiliary, 451.00 ft, ALL	
Manufacturer/Model	<u>:</u>	
SWEL. The space below each of	ecklist cument the results of the Seismic Walkdown of an item of e the following questions may be used to record the results ided at the end of this checklist for documenting other com	of judgments and
<u>Anchorage</u>		· ·
 Is anchorage configuration of SWEL items requiring states. 	n verification required (i.e., is the item one of the 50% such verification)?	No
2. Is the anchorage free of b	pent, broken, missing or loose hardware?	Yes
Thru bolts internal to bo seismic block wall.	x - visually verified on control room wall which is a	
3. Is the anchorage free of o	corrosion that is more than mild surface oxidation?	Yes
4. Is the anchorage free of v	visible cracks in the concrete near the anchors?	Yes
	ration consistent with plant documentation? (Note: s if the item is one of the 50% for which an anchorage is required.)	Not Applicable
Based on the above anch potentially adverse seism	norage evaluations, is the anchorage free of ic conditions?	Yes

Status: Y N U

Seism	ic Walkdown Checklist	(SWC)			L	
	Equipment ID No.:	2IP01J				
	Equipment Class:	(14) Distribution Panel	s			
	Equipment Description:	120VAC INSTRUMEN	T BUS DISTRIBUTION	PANEL 2	211 - DIV. 21	
<u>Intera</u>	ction Effects	· · · · · · · · · · · · · · · · · · ·		-		
7.	Are soft targets free fro	m impact by nearby equ	ipment or structures?			Yes
			•			·
8.		nt, distribution systems, ot likely to collapse onto t		and	· ·	Yes
		•				
9.	Do attached lines have	adequate flexibility to av	oid damage?			Yes
				٠		
•	•	·		,		
10.		ismic interaction evaluat smic interaction effects?	ions, is equipment free o	of		Yes
Other	Adverse Conditions				- AND THE STATE OF	,,,,,,,
11.	Have you looked for an adversely affect the sat	d found no adverse seis fety functions of the equi		t		Yes
Comn	nents					
	ic walkdown team M. Del	aney & P. Gazda 7/31/1	2 am			•
	Mailes	Le M Selesy	•		: .	
Evalua	ated by:	\mathbf{O}	Marlene Delaney	Date:	10/1/2012	
		hych Philip (Gazda		10/1/2012	
				_		

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2IP01J

Equipment Class: (14) Distribution Panels

Equipment Description: 120VAC INSTRUMENT BUS DISTRIBUTION PANEL 211 - DIV. 21



2IP01J 7-31-12 034

Seismic Walkdown Checklist (Statu SWC)	ıs: Y N U
Equipment ID No.:	•	
- · · · · -	(4) Transformers	
• • • • • • • • • • • • • • • • • • • •	INSTRUMENT BUS 212 TRANSFORMER - DIV. 22	
Project		
Location (Bldg, Elev, Room/Area		
Manufacturer/Mode		
Instructions for Completing Ch		
SWEL. The space below each of	ocument the results of the Seismic Walkdown of an item of equipm of the following questions may be used to record the results of judg vided at the end of this checklist for documenting other comments	ments and
Anchorage 1. Is anchorage configuration of SWEL items requiring	on verification required (i.e., is the item one of the 50% such verification)?	Yes
2. Is the anchorage free of	bent, broken, missing or loose hardware?	Yes
3. Is the anchorage free of	corrosion that is more than mild surface oxidation?	Yes
4. Is the anchorage free of	visible cracks in the concrete near the anchors?	Yes
This question only applie configuration verification Drawing 20E-0-3391Bh	·	Yes
, •	horage evaluations, is the anchorage free of	Yes

Seismic Walkdo	own Checklist	(SWC)			Status: Y N U
Equip	oment ID No.:	2IP02E	•		
Equi	pment Class:	(4) Transformers			
Equipmen	t Description:	INSTRUMENT BUS 212	TRANSFORMER - D	V. 22	
Interaction Effe	<u>cts</u>				•
7. Are soft	targets free fro	m impact by nearby equip	ment or structures?		Yes
masonry Seismid	block walls no block walls.	nt, distribution systems, co t likely to collapse onto th but if they fell, they would	e equipment?		Yes per S&L Std EE-103
9. Do attac	hed lines have	adequate flexibility to avo	id damage?		Yes
		ismic interaction evaluation mic interaction effects?	ns, is equipment free o	of	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?					
Comments Seismic walkdow	ın team M. Del	aney & P. Gazda 7/31/12	am /		·
Evaluated by:		Mych Phillip Ga	Marlene Delaney	_ Date:	10/1/2012

Sheet 3 of 3

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2IP02E

Equipment Class: (4) Transformers

Equipment Description: INSTRUMENT BUS 212 TRANSFORMER - DIV. 22







2IP02E 7-31-12 014

Seismic Walkdown Checklist (SW	Status: Y N U
Equipment ID No.: 2IPC	· · · · · · · · · · · · · · · · · · ·
Equipment Class: (4)	
	FRUMENT BUS 213 TRANSFORMER - DIV. 21
· –	Braidwood 2 SWEL
Location (Bldg, Elev, Room/Area): _	Auxiliary, 451.00 ft, ALL
Manufacturer/Model:	
SWEL. The space below each of the findings. Additional space is provide	ent the results of the Seismic Walkdown of an item of equipment on the following questions may be used to record the results of judgments and d at the end of this checklist for documenting other comments.
Anchorage	
 Is anchorage configuration v of SWEL items requiring suc 	erification required (i.e., is the item one of the 50% Yes h verification)?
	,
2. Is the anchorage free of ben	t, broken, missing or loose hardware?
 Is the anchorage free of corr 	osion that is more than mild surface oxidation? Yes
o. To the unshorage need of con-	Solott that is more than mile surface oxidation:
4. Is the anchorage free of visit	ele cracks in the concrete near the anchors? Yes
-	• •
6. Based on the above anchora potentially adverse seismic of	ge evaluations, is the anchorage free of Yes onditions?

	• •				Status: Y N U
Seismic V	/alkdown Checklist	(SWC)			-
	Equipment ID No.:	2IP03E			
	Equipment Class:	(4) Transformers			
Equ	ipment Description:	INSTRUMENT BUS 2	13 TRANSFORMER - D	IV. 21	
Interactio	<u>Effects</u>				
7. Ar	e soft targets free fro	m impact by nearby equ	ipment or structures?		Yes
8. Ar	e overhead equipmer	nt, distribution systems,	ceiling tiles and lighting	, and	Yes
		t likely to collapse onto		fall	•
	nhts supported on roc		equipment if the lights	ieli.	
•					•
9. Do	attached lines have	adequate flexibility to a	void damage?		Yes
10. Ba	sed on the above se	smic interaction evaluat	tions, is equipment free	of	Yes
		mic interaction effects?	, ,		•
Other Adv	erse Conditions	· · · · · · · · · · · · · · · · · · ·			
	= -		mic conditions that cou	ld .	Yes
ad	versely affect the saf	ety functions of the equi	pment?		
Comment	•		_	•	
Seismic w	alkdown team M. Del	aney & P. Gazda 7/30/1	2 pm		
	Mades	1 MAden			
	, ,	e M Selesy	· •		•
Evaluated		\cup	Marlene Delaney	Date:	10/1/2012
		1. 1	Market Ma		
	G.O.	Mych Philip	Gazda		10/1/2012
•		- Timp			

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2IP03E

Equipment Class: (4) Transformers

Equipment Description: INSTRUMENT BUS 213 TRANSFORMER - DIV. 21







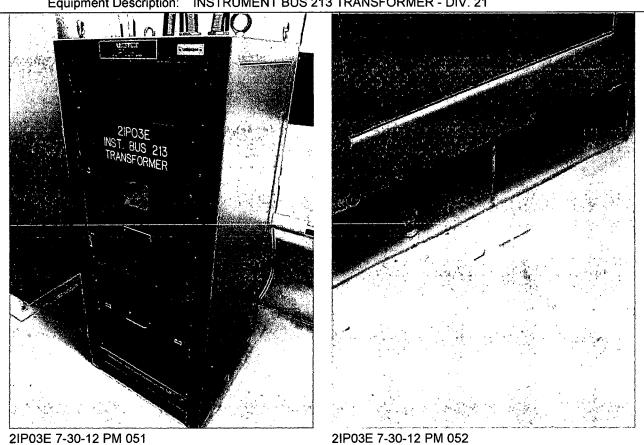
2IP03E (NP-6695) 7-30-12 PM 053

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2IP03E

Equipment Class: (4) Transformers

Equipment Description: INSTRUMENT BUS 213 TRANSFORMER - DIV. 21



Seismic Walkdown Checklist (\$	Status: Y	N U
·		
Equipment ID No.: _2 Equipment Class: (
<u> </u>	NSTRUMENT BUS 214 TRANSFORMER - DIV. 22	
Projection (Pldg. Floy, Boom (Area)		
Location (Bldg, Elev, Room/Area) Manufacturer/Mode		
Instructions for Completing Ch		
This checklist may be used to do SWEL. The space below each of findings. Additional space is prov	cument the results of the Seismic Walkdown of an item of equipment on to the following questions may be used to record the results of judgments a rided at the end of this checklist for documenting other comments.	
Anchorage 1. Is anchorage configuration of SWEL items requiring	n verification required (i.e., is the item one of the 50% such verification)?	Yes
2. Is the anchorage free of i	pent, broken, missing or loose hardware?	Yes
3. Is the anchorage free of o	corrosion that is more than mild surface oxidation?	Yes
4. Is the anchorage free of	visible cracks in the concrete near the anchors?	Yes
This question only applie configuration verification Drawing 20E-0-3391BK		Yes
Based on the above anch potentially adverse seism	norage evaluations, is the anchorage free of ic conditions?	Yes

Seismic Walkdov	wn Checklist (SWC)	Status: Y N U
	ment ID No.: 2IP04E	
	oment Class: (4) Transformers	
•	Description: INSTRUMENT BUS 214 TRANSFORMER - DIV. 22	
Interaction Effect		
	— argets free from impact by nearby equipment or structures?	Yes
masonry b Seismic	ead equipment, distribution systems, ceiling tiles and lighting, and block walls not likely to collapse onto the equipment? block walls. uard for lights but they would not impact equipment if they fell. OK per	Yes S&L Std EE-103
	ed lines have adequate flexibility to avoid damage?	Yes
	the above seismic interaction evaluations, is equipment free of adverse seismic interaction effects?	Yes
Other Adverse Co		Voe
· ·	looked for and found no adverse seismic conditions that could affect the safety functions of the equipment?	Yes
Comments Seismic walkdown	n team M. Delaney & P. Gazda 7/31/12 am	
Evaluated by:	Marlene Delaney Date: C.O. Mysh Philip Gazda	10/1/2012

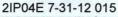
Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2IP04E

Equipment Class: (4) Transformers

Equipment Description: INSTRUMENT BUS 214 TRANSFORMER - DIV. 22







2IP04E 7-31-12 016

Braidwood Station Unit 2 12Q0108.10-R-002 Rev. 0

Correspondence No.: RS-12-159

Sheet 1 of 4

Status: Seismic Walkdown Checklist (SWC) Equipment ID No.: 2IP05E Equipment Class: (16) Battery Chargers and Inverters Equipment Description: INSTRUMENT BUS 211 INVERTER - DIV. 21 Project: Braidwood 2 SWEL Location (Bldg, Elev, Room/Area): Auxiliary, 451.00 ft, ALL Manufacturer/Model: Instructions for Completing Checklist This checklist may be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments. **Anchorage** Is anchorage configuration verification required (i.e., is the item one of the 50% Yes of SWEL items requiring such verification)? Is the anchorage free of bent, broken, missing or loose hardware? Yes Yes Is the anchorage free of corrosion that is more than mild surface oxidation? Is the anchorage free of visible cracks in the concrete near the anchors? Yes 5. Is the anchorage configuration consistent with plant documentation? (Note: Yes This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) Verified 5/8 inch diameter bolt by measuring the flat to flat dimension of bolt head. Measure 1", per AISC should be 1 1/16" which is within tolerances of tape measure. Height of bolt head matches AISC. Drawing 20E-0-3391BK Revision D Based on the above anchorage evaluations, is the anchorage free of Yes potentially adverse seismic conditions?

Seismic Walkdown Checklist	(SWC)	Status: Y N U
Equipment ID No.:		•
• •	(16) Battery Chargers and Inverters	
Equipment Description:	INSTRUMENT BUS 211 INVERTER - DIV. 21	
Interaction Effects	· · · · · · · · · · · · · · · · · · ·	
7. Are soft targets free from	om impact by nearby equipment or structures?	Yes
	nt, distribution systems, ceiling tiles and lighting, and of likely to collapse onto the equipment?	Yes
Do attached lines have	adequate flexibility to avoid damage?	Yes
	eismic interaction evaluations, is equipment free of smic interaction effects?	Yes
-	nd found no adverse seismic conditions that could fety functions of the equipment?	Yes
Comments Seismic walkdown team M. De	laney & P. Gazda 7/30/12 pm	. :
Evaluated by:	Marlene Delaney Date: Mych Philip Gazda	10/1/2012

Sheet 3 of 4

Status: Y N U

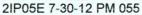
Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2IP05E

Equipment Class: (16) Battery Chargers and Inverters

Equipment Description: INSTRUMENT BUS 211 INVERTER - DIV. 21







2IP05E 7-30-12 PM 056

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2IP05E

Equipment Class: (16) Battery Chargers and Inverters

Equipment Description: INSTRUMENT BUS 211 INVERTER - DIV. 21



2IP05E 7-30-12 PM 057

		Status: Y N U
Seismic Walkdown Checklist	(SWC)	
Equipment ID No.:	2IP06E	
Equipment Class:	(16) Battery Chargers and Inverters	
Equipment Description:	INSTRUMENT BUS 212 INVERTER - DIV. 22	
Proje	ct: Braidwood 2 SWEL	·
Location (Bldg, Elev, Room/Area	a): Auxiliary, 451.00 ft, ALL	
Manufacturer/Mode	el:	
SWEL. The space below each of findings. Additional space is pro-	hecklist ocument the results of the Seismic Walkdown of an item of each of the following questions may be used to record the results ovided at the end of this checklist for documenting other com-	of judgments and
Anchorage 1. Is anchorage configuration of SWEL items requiring	on verification required (i.e., is the item one of the 50% such verification)?	Yes
2. Is the anchorage free of	bent, broken, missing or loose hardware?	Yes
3. Is the anchorage free of	corrosion that is more than mild surface oxidation?	Yes _.
4. Is the anchorage free of	visible cracks in the concrete near the anchors?	Yes
		Yes
Based on the above and potentially adverse seisn	chorage evaluations, is the anchorage free of mic conditions?	Yes

Braidwood Station Unit 2 12Q0108.10-R-002 Rev. 0

Correspondence No.: RS-12-159

Sheet 2 of 4 Status: Seismic Walkdown Checklist (SWC) Equipment ID No.: 2IP06E Equipment Class: (16) Battery Chargers and Inverters Equipment Description: INSTRUMENT BUS 212 INVERTER - DIV. 22 **Interaction Effects** 7. Are soft targets free from impact by nearby equipment or structures? Yes 8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and Yes masonry block walls not likely to collapse onto the equipment? Seismic block walls. No bulb guards for lights but they would not impact equipment if they fell. S&L Std E-103 -ok 9. Do attached lines have adequate flexibility to avoid damage? Yes 10. Based on the above seismic interaction evaluations, is equipment free of Yes potentially adverse seismic interaction effects? Other Adverse Conditions 11. Have you looked for and found no adverse seismic conditions that could Yes adversely affect the safety functions of the equipment? **Comments** Seismic walkdown team M. Delaney & P. Gazda 7/31/12 am Evaluated by: Marlene Delaney Date: 10/1/2012 Philip Gazda 10/1/2012

Sheet 3 of 4

Status: Y N U

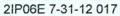
Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2IP06E

Equipment Class: (16) Battery Chargers and Inverters

Equipment Description: INSTRUMENT BUS 212 INVERTER - DIV. 22







2IP06E 7-31-12 018

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2IP06E

Equipment Class: (16) Battery Chargers and Inverters

Equipment Description: INSTRUMENT BUS 212 INVERTER - DIV. 22



2IP06E 7-31-12 019

Braidwood Station Unit 2 12Q0108.10-R-002 Rev. 0

Correspondence No.: RS-12-159

Sheet 1 of 3

Status: Y N U Seismic Walkdown Checklist (SWC) Equipment ID No.: 2IP07E Equipment Class: (16) Battery Chargers and Inverters Equipment Description: INSTRUMENT BUS 213 INVERTER - DIV. 21 Project: Braidwood 2 SWEL Location (Bldg, Elev, Room/Area): Auxiliary, 451.00 ft, ALL Manufacturer/Model: **Instructions for Completing Checklist** This checklist may be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments. **Anchorage** 1. Is anchorage configuration verification required (i.e., is the item one of the 50% Yes of SWEL items requiring such verification)? 2. Is the anchorage free of bent, broken, missing or loose hardware? Yes 3. Is the anchorage free of corrosion that is more than mild surface oxidation? Yes 4. Is the anchorage free of visible cracks in the concrete near the anchors? Yes 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 20E-0-3391BK Revision D

6. Based on the above anchorage evaluations, is the anchorage free of

potentially adverse seismic conditions?

Yes

Braidwood Station Unit 2 12Q0108.10-R-002 Rev. 0

Correspondence No.: RS-12-159

Sheet 2 of 3

Status: Seismic Walkdown Checklist (SWC) Equipment ID No.: 2IP07E Equipment Class: (16) Battery Chargers and Inverters Equipment Description: INSTRUMENT BUS 213 INVERTER - DIV. 21 **Interaction Effects** 7. Are soft targets free from impact by nearby equipment or structures? Yes 8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and Yes masonry block walls not likely to collapse onto the equipment? 9. Do attached lines have adequate flexibility to avoid damage? Yes 10. Based on the above seismic interaction evaluations, is equipment free of Yes potentially adverse seismic interaction effects? **Other Adverse Conditions** 11. Have you looked for and found no adverse seismic conditions that could Yes adversely affect the safety functions of the equipment? No structural/seismic issues **Comments** Seismic walkdown team M. Delaney & P. Gazda 7/30/12 pm Evaluated by: Marlene Delaney Date: 10/1/2012 10/1/2012

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2IP07E

Equipment Class: (16) Battery Chargers and Inverters

Equipment Description: INSTRUMENT BUS 213 INVERTER - DIV. 21



2IP07E 7-30-12 PM 058