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

Seismic Walkdown Checklist (SWC)	Status: Y N U
Equipment ID No.: 0VC01JB	
Equipment Class: (20) Instrumentation and Control Panels and Cabinets	<u></u>
Equipment Description: CONTROL ROOM HVAC SYST LOCAL CONT PANEL AS	MBLY
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 a 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	, N L.
 Is anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? 	, No
2. Is the anchorage free of bent, broken, missing or loose hardware?	Yes
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	Yes
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Yes
 Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) 	Not Applicable
Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	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.: 0VC01JB Equipment Class: (20) Instrumentation and Control Panels and Cabinets Equipment Description: CONTROL ROOM HVAC SYST LOCAL CONT PANEL ASMBLY **Interaction Effects** 7. Are soft targets free from impact by nearby equipment or structures? Yes 8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and Yes masonry block walls not likely to collapse onto the equipment? Fire protection piping is well-supported. Do attached lines have adequate flexibility to avoid damage? Yes Yes 10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? **Other Adverse Conditions** Have you looked for and found no adverse seismic conditions that could Yes adversely affect the safety functions of the equipment? Comments Seismic walkdown team M. Delaney & P. Gazda 7/31/12 am Mariene Delaney Evaluated by: Date: 10/1/2012 10/1/2012

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 0VC01JB

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

Equipment Description: CONTROL ROOM HVAC SYST LOCAL CONT PANEL ASMBLY





0CV01JB 7-31-12 032

0VC01JB 7-31-12 033

Braidwood Station Unit 2 12Q0108.10-R-002 Rev. 0 Correspondence No.: RS-12-159 Sheet 1 of 5

		Status: Y N U
Seismic Walkdown Checklist	(SWC)	
Equipment ID No.:	0VC02FA	
Equipment Class:	(10) Air Handlers	
Equipment Description:	CONTROL RM REC CHARCOAL FILTER A TRAIN ASME	BLY
Proje	ect: Braidwood 2 SWEL	
Location (Bldg, Elev, Room/Are	ea): Auxiliary, 451.00 ft, ALL	
Manufacturer/Mod	del:	
SWEL. The space below each findings. Additional space is pr	Checklist document the results of the Seismic Walkdown of an item of of the following questions may be used to record the results rovided at the end of this checklist for documenting other cor	s of judgments and
Anchorage	tion verification required (i.e. in the item and of the EON/	No
Is anchorage configura of SWEL items requiring	ntion verification required (i.e., is the item one of the 50% and such verification)?	NO
2. Is the anchorage free of	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 of	of visible cracks in the concrete near the anchors?	Yes
	guration consistent with plant documentation? (Note: lies if the item is one of the 50% for which an anchorage on is required.)	Not Applicable
6. Based on the above ar potentially adverse seis Welded to beam at to		Yes

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

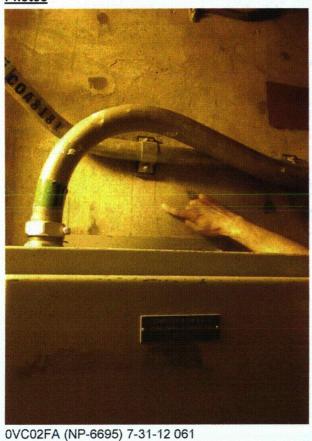
Seismic Walkdown Checklis	HISWC)	Status: Y N U
•		
Equipment ID No.:		
	(10) Air Handlers	
Equipment Description:	CONTROL RM REC CHARCOAL FILTER A TRAIN ASMBL	<u>.Y</u>
7. Are soft targets free free	om impact by nearby equipment or structures?	Yes
	ent, distribution systems, ceiling tiles and lighting, and	Yes
Seismic block walls	ot likely to collapse onto the equipment?	Voo
9. Do attached lines have	e adequate flexibility to avoid damage?	Yes
	eismic interaction evaluations, is equipment free of smic interaction effects?	Yes
Other Adverse Conditions		
	nd found no adverse seismic conditions that could fety functions of the equipment? equipment	Yes
Comments		
Seismic walkdown team M. De	elaney & P. Gazda 7/31/12 pm	
Evaluated by:	. In oh	/1/2012
÷		

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 0VC02FA

Equipment Class: (10) Air Handlers

Equipment Description: CONTROL RM REC CHARCOAL FILTER A TRAIN ASMBLY







0VC02FA 7-31-12 057

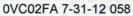
Seismic Walkdown Checklist (SWC)

Equipment ID No.: 0VC02FA

Equipment Class: (10) Air Handlers

Equipment Description: CONTROL RM REC CHARCOAL FILTER A TRAIN ASMBLY







0VC02FA 7-31-12 060

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

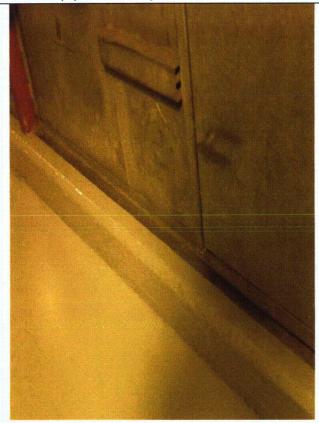
Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 0VC02FA

Equipment Class: (10) Air Handlers

Equipment Description: CONTROL RM REC CHARCOAL FILTER A TRAIN ASMBLY



0VC02FA7-31-12 059

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

Sheet 1 of 3

Correspondence No.: RS-12-159

Status: Seismic Walkdown Checklist (SWC) Equipment ID No.: 0VC16J Equipment Class: (20) Instrumentation and Control Panels and Cabinets Equipment Description: MCR U-2 HVAC START PNL Project: Braidwood 2 SWEL Location (Bldg, Elev, Room/Area): Auxiliary, 463.00 ft, ALL Manufacturer/Model: **Instructions for Completing Checklist** This checklist may be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments. **Anchorage** 1. Is anchorage configuration verification required (i.e., is the item one of the 50% No of SWEL items requiring such verification)? 2. Is the anchorage free of bent, broken, missing or loose hardware? Yes 3. Is the anchorage free of corrosion that is more than mild surface oxidation? Yes 4. Is the anchorage free of visible cracks in the concrete near the anchors? Yes 5. Is the anchorage configuration consistent with plant documentation? (Note: Not Applicable This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) 6. Based on the above anchorage evaluations, is the anchorage free of Yes potentially adverse seismic conditions?

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

	(0.10)	Status: Y N U
Seismic Walkdown Checklist	(SWC)	
Equipment ID No.:	0VC16J	
Equipment Class:	(20) Instrumentation and Control Panels and Cabinets	
Equipment Description:	MCR U-2 HVAC START PNL	
Interaction Effects		
7. Are soft targets free fro	m impact by nearby equipment or structures?	Yes
masonry block walls no	nt, distribution systems, ceiling tiles and lighting, and of likely to collapse onto the equipment? In ladder storage area.	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		•
- · · · · · · · · · · · · · · · · · · ·	d found no adverse seismic conditions that could fety functions of the equipment?	Yes
Comments		
Seismic walkdown team M. De	aney & P. Gazda 7/31/12 am	
Evaluated by:	In oh	/1/2012 /1/2012

Seismic Walkdown Checklist (SWC)

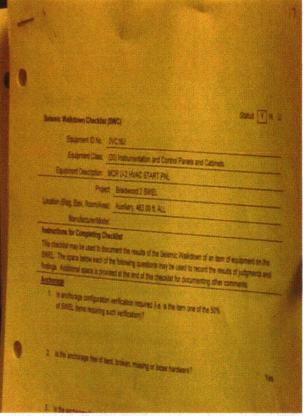
Equipment ID No.: 0VC16J

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

Equipment Description: MCR U-2 HVAC START PNL







0VC16J 7-31-12 028

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

Sheet 1 of 3

Correspondence No.: RS-12-159

Status: Seismic Walkdown Checklist (SWC) Equipment ID No.: 2AF005C Equipment Class: (7) Fluid-Operated Valves Equipment Description: S/G 2C FLOW CONT VLV ASMBLY 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 Is anchorage configuration verification required (i.e., is the item one of the 50% No of SWEL items requiring such verification)? Is the anchorage free of bent, broken, missing or loose hardware? Not Applicable 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 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.)

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

Instrument is mounted on rack 2PL84JB which is well-anchored

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: Seismic Walkdown Checklist (SWC) Equipment ID No.: 2AF005C Equipment Class: (7) Fluid-Operated Valves Equipment Description: S/G 2C FLOW CONT VLV ASMBLY **Interaction Effects** 7. Are soft targets free from impact by nearby equipment or structures? Yes Adequate clearance with adjacent valves 8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and Yes masonry block walls not likely to collapse onto the equipment? 9. Do attached lines have adequate flexibility to avoid damage? Yes 10. Based on the above seismic interaction evaluations, is equipment free of Yes potentially adverse seismic interaction effects? **Other Adverse Conditions** Have you looked for and found no adverse seismic conditions that could Yes adversely affect the safety functions of the equipment? No structural/seismic issues **Comments** Seismic walkdown team M. Delaney & P. Gazda 8/1/12 am Evaluated by: Marlene Delaney Date: 10/1/2012 10/1/2012

Sheet 3 of 3

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2AF005C

Equipment Class: (7) Fluid-Operated Valves

Equipment Description: S/G 2C FLOW CONT VLV ASMBLY



2AF005C 8-1-12 AM 038

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

Calamia Walladana Obaaldia	(CMO)	Status: Y N U
Seismic Walkdown Checklist	(SWC)	
Equipment ID No.:	2AF005G	
Equipment Class:	(7) Fluid-Operated Valves	- do -
Equipment Description:	S/G 2C FLOW CONT VLV ASMBLY	
Proje	ct: Braidwood 2 SWEL	
Location (Bldg, Elev, Room/Are	a): Auxiliary, 364.00 ft, ALL	
Manufacturer/Mod	el:	
Instructions for Completing C		
SWEL. The space below each	ocument the results of the Seismic Walkdown of an item of of the following questions may be used to record the results ovided at the end of this checklist for documenting other cor	s of judgments and
<u>Anchorage</u>		
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: es if the item is one of the 50% for which an anchorage n is required.)	Not Applicable
Based on the above an potentially adverse seis	chorage evaluations, is the anchorage free of mic conditions?	Yes

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

Sheet 2 of 4

Correspondence No.: RS-12-159

Status: Y N U Seismic Walkdown Checklist (SWC) Equipment ID No.: 2AF005G Equipment Class: (7) Fluid-Operated Valves Equipment Description: S/G 2C FLOW CONT VLV ASMBLY **Interaction Effects** 7. Are soft targets free from impact by nearby equipment or structures? Yes Handwheel for valve 2AF005H is less than 1/8" from the actuator of valve 2AF005G. Piping is observed to be well-supported (lateral movement is limited and impact would be to rugged part of valve). IR 1396037 written documenting engineering review of the seismic movements. Due to the relatively small displacements and the nature of the contact (hand wheel to air actuator) such contact will not result in valve assembly distortion that will challenge the function of the valve to open. 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** 11. Have you looked for and found no adverse seismic conditions that could Yes adversely affect the safety functions of the equipment? Comments Seismic walkdown team M. Delaney & P. Gazda 8/1/12 am

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

Sheet 3 of 4

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2AF005G

Equipment Class: (7) Fluid-Operated Valves

Equipment Description: S/G 2C FLOW CONT VLV ASMBLY

Evaluated by:

Marlene Delaney

Date: 10/1/2012

Philip Gazda

10/1/2012



2AF005G 8-1-12 AM 035



2AF005G 8-1-12 AM 036

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2AF005G

Equipment Class: (7) Fluid-Operated Valves

Equipment Description: S/G 2C FLOW CONT VLV ASMBLY



2AF005G 8-1-12 AM 037

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)
COMMI	*********	OHOOMISE!	

Equipment ID No.: 2AF006A

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

Equipment Description: AUXILIARY FEEDWATER PMP 2A SX SUCT VLV ASMBLY

Project: Braidwood 2 SWEL

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

Manufacturer/Model:

Instructions for Completing Checklist

This checklist may be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and

Anchorage

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

findings. Additional space is provided at the end of this checklist for documenting other comments.

- No

2. Is the anchorage free of bent, broken, missing or loose hardware?

Not Applicable

3. Is the anchorage free of corrosion that is more than mild surface oxidation?

Not Applicable

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

Not Applicable

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

Not Applicable

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

Yes

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

Seismic Walkdown Checklis	(SWC)	Status: Y N U
Equipment ID No.:		
Equipment Class:		
• •	AUXILIARY FEEDWATER PMP 2A SX SUCT VLV ASMB	BLY
Interaction Effects		
7. Are soft targets free fre	om impact by nearby equipment or structures?	Yes
	nt, distribution systems, ceiling tiles and lighting, and of likely to collapse onto the equipment?	Yes
9. Do attached lines have	adequate flexibility to avoid damage?	Yes
	eismic interaction evaluations, is equipment free of smic interaction effects?	Yes
Other Adverse Conditions		
		Yes
		·
Comments Seismic walkdown team M. De	laney & P. Gazda 8/1/12 am	
Evaluated by:	In oh	10/1/2012 10/1/2012

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2AF006A

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

Equipment Description: AUXILIARY FEEDWATER PMP 2A SX SUCT VLV ASMBLY



2AF006A (AWB - BOLT CORROSION OK) 8-1-12 AM 033



2AF006A (AWB - BOLT CORROSION OK) 8-1-12 AM 034

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2AF006A

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

Equipment Description: AUXILIARY FEEDWATER PMP 2A SX SUCT VLV ASMBLY



2AF006A 8-1-12 AM 032

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

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

Status: Y N U Seismic Walkdown Checklist (SWC) Equipment ID No.: 2AF017A Equipment Class: (8) Motor-Operated and Solenoid-Operated Valves Equipment Description: AUXILIARY FEEDWATER PMP 2A SX SUCT VLV ASMBLY Project: Braidwood 2 SWEL Location (Bldg, Elev, Room/Area): Auxiliary, 383.00 ft, ALL Manufacturer/Model: Instructions for Completing Checklist This checklist may be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments. **Anchorage** 1. Is anchorage configuration verification required (i.e., is the item one of the 50% No of SWEL items requiring such verification)? 2. Is the anchorage free of bent, broken, missing or loose hardware? Not Applicable 3. Is the anchorage free of corrosion that is more than mild surface oxidation? Not Applicable 4. Is the anchorage free of visible cracks in the concrete near the anchors? Not Applicable 5. Is the anchorage configuration consistent with plant documentation? (Note: Not Applicable This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) 6. Based on the above anchorage evaluations, is the anchorage free of Yes potentially adverse seismic conditions?

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

Status: Y N U

Seismi	ic Walkdown Checklis	t (SWC)	
	Equipment ID No.:	2AF017A	
	Equipment Class:	pment Class: (8) Motor-Operated and Solenoid-Operated Valves	
	Equipment Description:	AUXILIARY FEEDWATER PMP 2A SX SUCT VLV ASMBLY	
<u>Interac</u>	ction Effects		
7.	Are soft targets free fre	om impact by nearby equipment or structures?	Yes
8.		ent, distribution systems, ceiling tiles and lighting, and	Yes
	masonry block walls n Cable trays are well-	ot likely to collapse onto the equipment?	
	· · · · · · · · · · · · · · · · · · ·	, apportou	
9.	Do attached lines have	e adequate flexibility to avoid damage?	Yes
4.0			W
10. Based on the above seismic interaction evaluations, is equipment free of your potentially adverse seismic interaction effects?			Yes
potentially adverse seismic interaction enests.			
Other .	Adverse Conditions	•	
11.	_	nd found no adverse seismic conditions that could	Yes
	Valve is on same pip	fety functions of the equipment? e as 2AF006A	
		ical and lateral supports	
	Valve operator is near WS piping but is well-supported so not a seismic		
C	concern		
<u>Comm</u>	·= ···	elaney & P. Gazda 8/1/12 am	;
Ocisiiii	c waikdowii team ivi. De	aney & F. Sazua of In 12 am	
	Made	W. M. Arlean	
	, (
Evalua	ted by:	Marlene Delaney Date: 10/1/2012	
Lvalua		1 1	
	00	. Throh	
		Philip Gazda 10/1/2012	

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2AF017A

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

Equipment Description: AUXILIARY FEEDWATER PMP 2A SX SUCT VLV ASMBLY



2AF017A 8-1-12 AM 025

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

Seismic Walkdown Checklist (SWC)	Status: Y N U
Equipment ID No.: 2AF01EA-A	
Equipment Class: (15) Batteries on Racks	
Equipment Description: BATTERY 1 AUXILIARY FEEDWATER PUMP	
Project: Braidwood 2 SWEL	
Location (Bldg, Elev, Room/Area): Auxiliary, 383.00 ft, ALL:	
Manufacturer/Model:	
Instructions for Completing Checklist	
This checklist may be used to document the results of the Seismic Walkdown of an item of equipment. 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.	judgments and
 Anchorage 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
 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-0-3322D09 Revision V 	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 3

Seismi	ic Walkdown Checklis	t (SWC)	Status: Y N U
	Equipment ID No.:		•
		(15) Batteries on Racks	
· · · · · · · · · · · · · · · · · · ·	ction Effects	BATTERY 1 AUXILIARY FEEDWATER PUMP	
		om impact by nearby equipment or structures?	Yes
	7 11 0 0011 tall gotto 11 00 11	milipast by mailby equipment of citatianes.	
	. ,	•	
8.		ent, distribution systems, ceiling tiles and lighting, and ot likely to collapse onto the equipment?	Yes
9.	Do attached lines have	e adequate flexibility to avoid damage?	Yes
10.	Rased on the above s	eismic interaction evaluations, is equipment free of	Yes
10.		smic interaction effects?	
		·	
	Adverse Conditions		
11.	_	nd found no adverse seismic conditions that could fety functions of the equipment?	Yes
	TVO GRADIATAN GOIGHNE	100000	
Comm	ents		
		laney & P. Gazda 8/1/12 am	
	Marle	ce M Seleny	
Evalua	ted by:	Marlene Delaney Date: 10	0/1/2012
	0.0	. Mych Philip Gazda 10	0/1/2012

Sheet 5 of

Status: Y N U

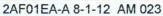
Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2AF01EA-A

Equipment Class: (15) Batteries on Racks

Equipment Description: BATTERY 1 AUXILIARY FEEDWATER PUMP







2AF01EA-A 8-1-12 AM 024

Braidwood Station Unit 2 12Q0108.10-R-002 Rev. 0 Correspondence No.: RS-12-159 Sheet 1 of 5

		tatus: Y N U
Seismic Walkdown Checklist (SWC)	
Equipment ID No.:	2AF01J	
Equipment Class: _	(20) Instrumentation and Control Panels and Cabinets	
Equipment Description:	AUX FEEDWATER PUMP 2B STARTUP PANEL ASMBLY	
Projec	ct: Braidwood 2 SWEL	
Location (Bldg, Elev, Room/Area	a): Auxiliary, 383.00 ft, ALL	
Manufacturer/Mode	el:	
Instructions for Completing Cl	hecklist	
SWEL. The space below each of	ocument the results of the Seismic Walkdown of an item of equor fithe following questions may be used to record the results of jointeen the end of this checklist for documenting other comme	udgments and
<u>Anchorage</u>		
 Is anchorage configurati 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
-	Revision M	Yes
Based on the above and potentially adverse seism	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 5

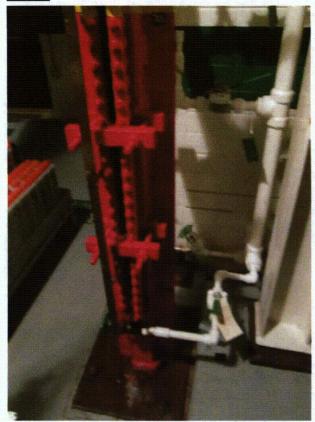
Status: Y N U Seismic Walkdown Checklist (SWC) Equipment ID No.: 2AF01J Equipment Class: (20) Instrumentation and Control Panels and Cabinets Equipment Description: AUX FEEDWATER PUMP 2B STARTUP PANEL ASMBLY **Interaction Effects** 7. Are soft targets free from impact by nearby equipment or structures? Yes 8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and Yes masonry block walls not likely to collapse onto the equipment? Yes 9. Do attached lines have adequate flexibility to avoid damage? 10. Based on the above seismic interaction evaluations, is equipment free of Yes potentially adverse seismic interaction effects? **Other Adverse Conditions** 11. Have you looked for and found no adverse seismic conditions that could Yes adversely affect the safety functions of the equipment? Comments Seismic walkdown team M. Delaney & P. Gazda 8/1/12 am See AWC 24 for discussion on DO site glass Evaluated by: Mariene Delaney Date: 10/1/2012 10/1/2012

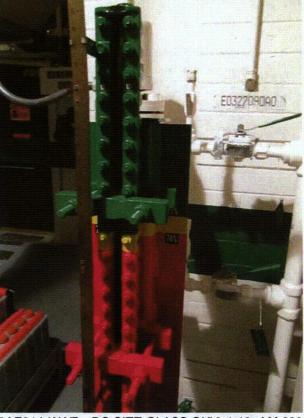
Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2AF01J

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

AUX FEEDWATER PUMP 2B STARTUP PANEL ASMBLY **Equipment Description:**





2AF01J (AWB - DO SITE GLASS OK) 8-1-12 AM 021 2AF01J (AWB - DO SITE GLASS OK)8-1-12 AM 022

Sheet 4 of 5

Status: Y N U

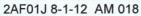
Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2AF01J

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

AUX FEEDWATER PUMP 2B STARTUP PANEL ASMBLY **Equipment Description:**







2AF01J 8-1-12 AM 020

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2AF01J

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

Equipment Description: AUX FEEDWATER PUMP 2B STARTUP PANEL ASMBLY



2AF01J8-1-12 AM 019

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.: 2AF0	1PA	
Equipment Class: (5) Ho	orizontal Pumps	
Equipment Description: PUMF	P AUX FEEDWATER, MOTOR DRIVEN ASMBLY	
Project: B	raidwood 2 SWEL	
Location (Bldg, Elev, Room/Area): A	uxiliary, 383.00 ft, ALL	
Manufacturer/Model:		
SWEL. The space below each of the f findings. Additional space is provided	st int the results of the Seismic Walkdown of an item of e following questions may be used to record the results at the end of this checklist for documenting other com	of judgments and
Anchorage 1. Is anchorage configuration ver of SWEL items requiring such	rification required (i.e., is the item one of the 50% verification)?	Yes
2. Is the anchorage free of bent,	broken, missing or loose hardware?	Yes
3. Is the anchorage free of corros	sion that is more than mild surface oxidation?	Yes
4. Is the anchorage free of visible	e cracks in the concrete near the anchors?	Yes
This question only applies if th configuration verification is required Drawing M-1221 Sheet 2 Rev	vision AD Detail 56A vas not measured due to location but quantity	Yes
Based on the above anchorag potentially adverse seismic cor	e evaluations, is the anchorage free of	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.:	2AF01PA	
Equipment Class:	(5) Horizontal Pumps	
Equipment Description:	PUMP AUX FEEDWATER, MOTOR DRIVEN ASMBLY	
Interaction Effects		
7. Are soft targets free fro	om impact by nearby equipment or structures?	Yes
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Seismic block walls		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		
-	nd found no adverse seismic conditions that could fety functions of the equipment? issues	Yes
Comments		
Seismic walkdown team M. Delaney & P. Gazda 8/1/12 am		

Sheet 3 of 4

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2AF01PA

Equipment Class: (5) Horizontal Pumps

Equipment Description: PUMP AUX FEEDWATER, MOTOR DRIVEN ASMBLY

Evaluated by:

Marlene Delaney

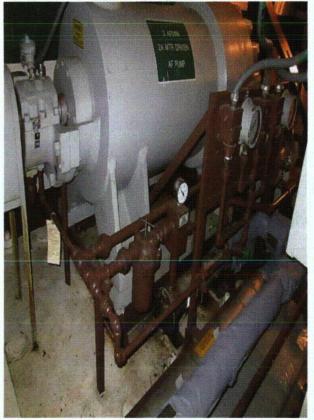
Date:

10/1/2012

10/1/2012



2AF01PA 8-1-12 AM 026



2AF01PA 8-1-12 AM 027

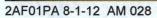
Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2AF01PA

Equipment Class: (5) Horizontal Pumps

Equipment Description: PUMP AUX FEEDWATER, MOTOR DRIVEN ASMBLY







2AF01PA 8-1-12 AM 029

Caiamia Malladanus Chaaldiat (CMC)	Status: Y N U
Seismic Walkdown Checklist (SWC)	
Equipment ID No.: 2AF01PA-A	
Equipment Class: (5) Horizontal Pumps	· · · · · · · · · · · · · · · · · · ·
Equipment Description: AUX FEEDWATER PUMP 2A AUX LUBE OIL PUMP	·
Project: Braidwood 2 SWEL	
Location (Bldg, Elev, Room/Area): Auxiliary, 383.00 ft, ALL	
Manufacturer/Model:	
Instructions for Completing Checklist	
This checklist may be used to document the results of the Seismic Walkdown of an item of expectations. SWEL. The space below each of the following questions may be used to record the results of findings. Additional space is provided at the end of this checklist for documenting other comments.	of judgments and
<u>Anchorage</u>	
 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? Pump is mounted on skid of horizontal pump 2AF01PA See SWC for 2AF01PA for anchorage verification of skid 2AF01PA-A is well-anchored to skid	Yes

Seismic Walkdown Che	rklist (SWC)	Status: Y N U
		·
	No.: 2AF01PA-A	
• •	Class: (5) Horizontal Pumps	
Interaction Effects	otion: AUX FEEDWATER PUMP 2A AUX LUBE OIL PUMP	
	ree from impact by nearby equipment or structures?	Yes
*	uipment, distribution systems, ceiling tiles and lighting, and alls not likely to collapse onto the equipment?	Yes
9. Do attached lines	s have adequate flexibility to avoid damage?	Yes
	ove seismic interaction evaluations, is equipment free of se seismic interaction effects?	Yes
Other Adverse Condition	ons_	
11. Have you looked	for and found no adverse seismic conditions that could the safety functions of the equipment?	Yes
Comments		
Seismic walkdown team	M. Delaney & P. Gazda 8/1/12 am	
Evaluated by:	1. Inch	0/1/2012 0/1/2012

Sheet 3 of 3

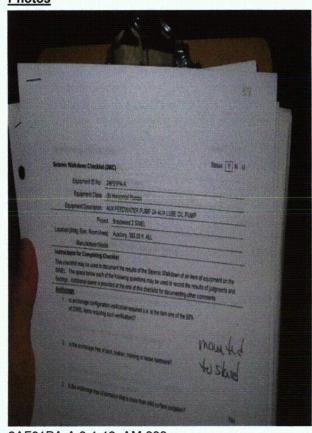
Status: Y N U

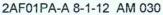
Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2AF01PA-A

Equipment Class: (5) Horizontal Pumps

Equipment Description: AUX FEEDWATER PUMP 2A AUX LUBE OIL PUMP







2AF01PA-A 8-1-12 AM 031

Seismi	Status: Y	N U
	Equipment ID No.: 2AP13E	
	Equipment Class: (4) Transformers	
E	Equipment Description: EQ UNIT SUBSTATION 232X TRAN 480V ESF	
	Project: Braidwood 2 SWEL	
Location	n (Bldg, Elev, Room/Area): Auxiliary, 426.00 ft, ALL	
	Manufacturer/Model:	
Instruc	tions for Completing Checklist	
SWEL.	ecklist may be used to document the results of the Seismic Walkdown of an item of equipment on the space below each of the following questions may be used to record the results of judgments. Additional space is provided at the end of this checklist for documenting other comments.	
Anchor		
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
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-0-3391F Revision AN	Yes
	Weld exceeds drawing requirements	
6.	Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	Yes

Saismi	ic Walkdown Checklist	(SWC)			Status: Y N U
elailii					
	Equipment ID No.:		-		<u> </u>
	Equipment Class:	- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1			
	Equipment Description:	EQ UNIT SUBSTATIO	N 232X TRAN 480V ES	<u></u>	
	tion Effects Are soft targets free fro	m impact by nearby equ	inment or structures?		Yes
••	· ·	m impact by nearby equ	apment or otractares:		103
			•		
				•	
8.	Are overhead equipme			, and	Yes
	masonry block walls no Seismic block walls	t likely to collapse onto	the equipment?		
	Well-supported HVAC	and cable trays			•
		•			
9.	Do attached lines have	adequate flexibility to av	void damage?		Yes
	·		•		•
		•			
10.	Based on the above se	ismic interaction evaluat	tions is equinment free	of	Yes
, 0.		mic interaction effects?		01	103
		•	•		
Other	Adverse Conditions				
11.	Have you looked for an	d found no adverse seis	smic conditions that cou	ld	Yes
	-	ety functions of the equi			
					•
Comm	ents	<u></u>		<u></u>	
Saismi	c walkdown team M. Del	anov & P. Gazda 7/31/1	2 nm		
Seisiili	C Walkdowii team IVI. Del	alley & F. Gazua 7/31/1	2 pm		
	Mailes	1. M Delana			
		L M Selany	`		
Evalua	ted by:	\cup	Marlene Delaney	Date: 10	/1/2012
		1. 1			
•	6.0.	Mych Philip (Gazda	10	/1/2012

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2AP13E

Equipment Class: (4) Transformers

Equipment Description: EQ UNIT SUBSTATION 232X TRAN 480V ESF





2AP13E 7-31-12 069

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2AP13E

Equipment Class: (4) Transformers

Equipment Description: EQ UNIT SUBSTATION 232X TRAN 480V ESF



2AP13E 7-31-12 070

State Seismic Walkdown Checklist (SWC)	us: Y N U
Equipment ID No.: 2AP22E	
Equipment Class: (1) Motor Control Centers	
Equipment Description: 480V AUX BLDG ESF MCC 231X3 ASMBLY	
Project: Braidwood 2 SWEL	
Location (Bldg, Elev, Room/Area): Auxiliary, 383.00 ft, ALL	
Manufacturer/Model:	
Instructions for Completing Checklist	
This checklist may be used to document the results of the Seismic Walkdown of an item of equipm SWEL. The space below each of the following questions may be used to record the results of jud findings. Additional space is provided at the end of this checklist for documenting other comments.	gments and
Anchorage Charles and Charles	.,
 Is anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? 	Yes
2. Is the anchorage free of bent, broken, missing or loose hardware?	Yes
Is the anchorage free of corrosion that is more than mild surface oxidation?	Yes
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Yes
Is the anchorage configuration consistent with plant documentation? (Note:	Voo
This question only applies if the item is one of the 50% for which an anchorage	Yes
configuration verification is required.)	1, 1
Drawing 20E-0-3391C Revision BM Weld exceeds drawing requirements	
viola oxoceas arawing requirements	
6. Based on the above anchorage evaluations, is the anchorage free of	Yes
potentially adverse seismic conditions?	
	,

_	•			Status: Y N U	
Seismid	: Walkdown Checklist	(SWC)			
	Equipment ID No.:	2AP22E	<u>:</u>		_
	Equipment Class:	(1) Motor Control Centers		· · · · · · · · · · · · · · · · · · ·	_
E	quipment Description:	480V AUX BLDG ESF MCC 231X	3 ASMBLY	· · · · · · · · · · · · · · · · · · ·	
Interact	tion Effects				
7.	Are soft targets free fro	m impact by nearby equipment or s	tructures?	Yes	
	•				
8.	Are overhead equipme	nt, distribution systems, ceiling tiles	and lighting, and	Yes	
	masonry block walls no	t likely to collapse onto the equipme			
	Overhead cable trays Seismic block walls.	are well-supported.			
	Celsiffic block walls.				
9.	Do attached lines have	adequate flexibility to avoid damag	e?	Yes	
10.	Record on the above so	ismic interaction evaluations, is equ	inment free of	Yes	
		mic interaction evaluations, is equ	ubilieur liee or	165	
Other A	dverse Conditions		1,70-21 500 4		_
		d found no adverse seismic condition	ons that could	Yès	
	adversely affect the safe	ety functions of the equipment?			
		•			
Comme	ents			,	
Seismic	walkdown team M. Del	aney & P. Gazda 8/1/12 am			
·	M. A.				_
•	1 paices	e M Selesy			
F. d. d.	•		Datas	40/4/0040	
Evaluate		1	Delaney Date:	10/1/2012	
	G.0.	the of			
		Philip Gazda		10/1/2012	-

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2AP22E

Equipment Class: (1) Motor Control Centers

Equipment Description: 480V AUX BLDG ESF MCC 231X3 ASMBLY



2AP22E 8-1-12 AM 043



2AP22E 8-1-12 AM 044

orrespondence No.: RS-12-159 Sheet 1 of 4

Status: Y N U Seismic Walkdown Checklist (SWC) Equipment ID No.: 2AP27E Equipment Class: (1) Motor Control Centers Equipment Description: EQ 480V AUX BLDG MCC 232X2 ASMBLY Project: Braidwood 2 SWEL Location (Bldg, Elev, Room/Area): Auxiliary, 426.00 ft, ALL Manufacturer/Model: Instructions for Completing Checklist This checklist may be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments. **Anchorage** 1. Is anchorage configuration verification required (i.e., is the item one of the 50% Yes of SWEL items requiring such verification)? Yes 2. Is the anchorage free of bent, broken, missing or loose hardware? 3. Is the anchorage free of corrosion that is more than mild surface oxidation? Yes 4. Is the anchorage free of visible cracks in the concrete near the anchors? Yes 5. Is the anchorage configuration consistent with plant documentation? (Note: 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 and 20E-0-3391AT Revision V Drawing specified weld of 1 1/2" at 8 while actual weld is 2" at 9. The percentage of weld required per the drawing equals 1.5/8*100%=18.75% The percentage of actual weld equals 2/9*100%=22.22% which is larger than the amount required per the drawing therefore it is acceptable. 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 4

Status: Y N U Seismic Walkdown Checklist (SWC) Equipment ID No.: 2AP27E Equipment Class: (1) Motor Control Centers Equipment Description: EQ 480V AUX BLDG MCC 232X2 ASMBLY Interaction Effects 7. Are soft targets free from impact by nearby equipment or structures? Yes 8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and Yes masonry block walls not likely to collapse onto the equipment? Cable trays are well-supported Yes 9. Do attached lines have adequate flexibility to avoid damage? 10. Based on the above seismic interaction evaluations, is equipment free of Yes potentially adverse seismic interaction effects? **Other Adverse Conditions** 11. Have you looked for and found no adverse seismic conditions that could Yes adversely affect the safety functions of the equipment?

Comments

Seismic walkdown team M. Delaney & P. Gazda 8/2/12 pm

Sheet 3 of 4

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2AP27E

Equipment Class: (1) Motor Control Centers

Equipment Description: EQ 480V AUX BLDG MCC 232X2 ASMBLY

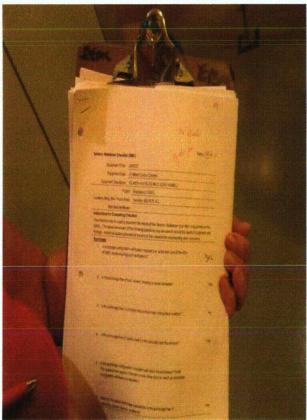
Evaluated by:

Marlene Delaney

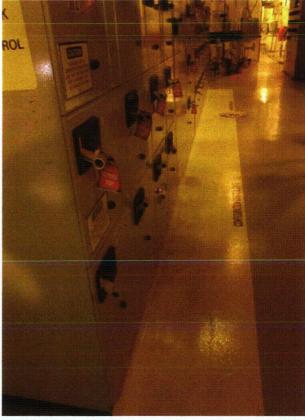
Date: 10/1/2012

10/1/2012

Photos



2AP27E 8-2-12 036



2AP27E 8-2-12 037

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2AP27E

Equipment Class: (1) Motor Control Centers

Equipment Description: EQ 480V AUX BLDG MCC 232X2 ASMBLY



2AP27E 8-2-12 038

·	Status	s: Y N U
Seismic Walkdown Checklist	(SWC)	<u></u>
Equipment ID No.:	2AP30E	
Equipment Class:	(1) Motor Control Centers	
Equipment Description:	EQ 480V AUX BLDG ESF MCC 231X5 ASMBLY	
Proje	ect: Braidwood 2 SWEL	
Location (Bldg, Elev, Room/Are	ea): Auxiliary, 426.00 ft, ALL	
Manufacturer/Mod	del:	
Instructions for Completing C	Checklist	
SWEL. The space below each	document the results of the Seismic Walkdown of an item of equipme of the following questions may be used to record the results of judgrovided at the end of this checklist for documenting other comments.	
Anchorage		
 Is anchorage configurated of SWEL items requiring 	tion verification required (i.e., is the item one of the 50% ag such verification)?	Yes
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
-	• • •	Yes
percentage of weld req The percentage of actu the amount required pe	d of 1 1/2" at 8 while actual weld is 2" at 9. The nuired per the drawing equals 1.5/8*100%=18.75% wall weld equals 2/9*100%=22.22% which is larger than er the drawing therefore it is acceptable. Inchorage evaluations, is the anchorage free of semic conditions?	Yes

Seismic Walkdown Checklis	t (SWC)	Status: Y N U
Equipment ID No.:	2AP30E	
Equipment Class:	(1) Motor Control Centers	
Equipment Description:	EQ 480V AUX BLDG ESF MCC 231X5 ASMBLY	
		·
Interaction Effects		
7. Are soft targets free fro	om impact by nearby equipment or structures?	Yes
masonry block walls n Seismic block walls Well-supported cable t	ent, distribution systems, ceiling tiles and lighting, and out likely to collapse onto the equipment? Fray above on line is well-supported	Yes
9. Do attached lines have	e adequate flexibility to avoid damage?	Yes
	eismic interaction evaluations, is equipment free of smic interaction effects?	Yes .
Other Adverse Conditions		
	nd found no adverse seismic conditions that could ifety functions of the equipment?	Yes
		· .
Comments Seismic walkdown team M. De	elaney & P. Gazda 8/2/12 am	

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2AP30E

Equipment Class: (1) Motor Control Centers

Equipment Description: EQ 480V AUX BLDG ESF MCC 231X5 ASMBLY

Evaluated by:

Marlene Delaney

Date: 10/1/2012

Philip Gazda

10/1/2012



2AP30E (AWB- HYDROGEN LINE) 8-2-12 035



2AP30E 8-2-12 032

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2AP30E

Equipment Class: (1) Motor Control Centers

Equipment Description: EQ 480V AUX BLDG ESF MCC 231X5 ASMBLY





2AP30E 8-2-12 034

Status:	Y N U
Seismic Walkdown Checklist (SWC)	
Equipment ID No.: 2AP32E	
Equipment Class: (1) Motor Control Centers	
Equipment Description: EQ 480V AUX BLDG MCC 232X5 ASMBLY	
Project: Braidwood 2 SWEL	
Location (Bldg, Elev, Room/Area): Auxiliary, 426.00 ft, ALL	
Manufacturer/Model:	
Instructions for Completing Checklist	
This checklist may be used to document the results of the Seismic Walkdown of an item of equipment SWEL. The space below each of the following questions may be used to record the results of judgme findings. Additional space is provided at the end of this checklist for documenting other comments.	
<u>Anchorage</u>	
 Is anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? 	Yes
or over the first requiring each remissance,	
2. Is the anchorage free of bent, broken, missing or loose hardware?	Yes
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	Yes
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Yes
 Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage 	Yes
configuration verification is required.)	
Drawing 20E-0-3391C Revision BM	
Drawing specified weld of 1 1/2" at 8 while actual weld is 2" at 9. The	
percentage of weld required per the drawing equals 1.5/8*100%=18.75%	
The percentage of actual weld equals 2/9*100%=22.22% which is larger than the amount required per the drawing therefore it is acceptable.	•
6. Based on the above anchorage evaluations, is the anchorage free of	Yes
notentially adverse seismic conditions?	

	Status: Y N U
Seismic Walkdown Checklist (SWC)	
Equipment ID No.: 2AP32E	
Equipment Class: (1) Motor Control Centers	
Equipment Description: EQ 480V AUX BLDG MCC 232X5 ASMBLY	
Interaction Effects	
7. Are soft targets free from impact by nearby equipment or structures?	Yes
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Cable tray above is well-supported Seismic block walls	Yes
9. Do attached lines have adequate flexibility to avoid damage?	Yes
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	Yes
Other Adverse Conditions	
Have you looked for and found no adverse seismic conditions that could adversely affect the safety functions of the equipment?	Yes
Comments Seismic walkdown team M. Delaney & P. Gazda 8/2/12 am	

Sheet 3 of 4

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2AP32E

Equipment Class: (1) Motor Control Centers

Equipment Description: EQ 480V AUX BLDG MCC 232X5 ASMBLY

Evaluated by:

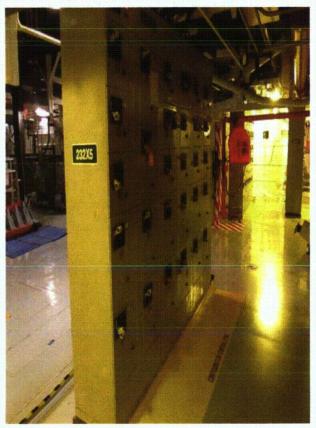
Marlene Delaney

Date: 10/1/2012

10/1/2012



2AP32E 8-2-12 028



2AP32E 8-2-12 029

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2AP32E

Equipment Class: (1) Motor Control Centers

Equipment Description: EQ 480V AUX BLDG MCC 232X5 ASMBLY





Seismic Walkdown Checklist (SWC)	s: Y N U
Equipment ID No.: 2AP38E	
Equipment Class: (1) Motor Control Centers	
Equipment Description: ASSY - 480V AUX BLDG MCC 233X1	
Project: Braidwood 2 SWEL	
Location (Bldg, Elev, Room/Area): Auxiliary, 346.00 ft, ALL	
Manufacturer/Model:	
Instructions for Completing Checklist	
This checklist may be used to document the results of the Seismic Walkdown of an item of equipme SWEL. The space below each of the following questions may be used to record the results of judg findings. Additional space is provided at the end of this checklist for documenting other comments.	ments and
<u>Anchorage</u>	
 Is anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? 	Yes
2. Is the anchorage free of bent, broken, missing or loose hardware?	Yes
Is the anchorage free of corrosion that is more than mild surface oxidation?	Yes
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Yes
4. Is the anchorage nee of visible dracks in the controle hear the anchorage	100
 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.) 	Yes
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?	Yes

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

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

Status: Y Seismic Walkdown Checklist (SWC) Equipment ID No.: 2AP38E Equipment Class: (1) Motor Control Centers Equipment Description: ASSY - 480V AUX BLDG MCC 233X1 **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? SX Drain down equipment box is approximately 9" from back of panel. IR 1396872 generated to have equipment moved. Other Adverse Conditions 11. Have you looked for and found no adverse seismic conditions that could Yes adversely affect the safety functions of the equipment? Comments Seismic walkdown team M. Delaney & P. Gazda 8/2/12 pm Evaluated by: Marlene Delaney Date: 10/1/2012 Philip Gazda 10/1/2012

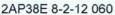
Seismic Walkdown Checklist (SWC)

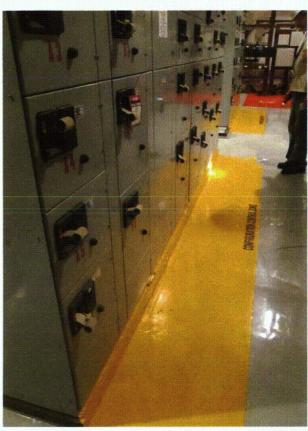
Equipment ID No.: 2AP38E

Equipment Class: (1) Motor Control Centers

Equipment Description: ASSY - 480V AUX BLDG MCC 233X1







2AP38E 8-2-12 061

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2AP38E

Equipment Class: (1) Motor Control Centers

Equipment Description: ASSY - 480V AUX BLDG MCC 233X1



2AP38E 8-2-12 062

Seismic Walkdown Checklist (SWC)	Status: Y N U
Equipment ID No.: 2CC01PA	
Equipment Class: (5) Horizontal Pumps	
Equipment Description: 2A COMPONENT COOLING WTR PUMP ASMBLY	
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 o SWEL. The space below each of the following questions may be used to record the resulfindings. Additional space is provided at the end of this checklist for documenting other contents.	ts of judgments and
Anchorage 1. Is anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?	Yes
2. Is the anchorage free of bent, broken, missing or loose hardware?	Yes
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	Yes
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Yes
5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) Drawing M-1229 Sheet 4 Revision U	Yes
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	Yes

Seismic Walkdown Checklist (SWC)					Status: [_	Y N U
	pment ID No.:					
		(5) Horizontal Pumps				_
•	•	ii	NINC WITH DUMP AS	MDI V		
Equipment Description: 2A COMPONENT COOLING WTR PUMP AS Interaction Effects						
•		m impact by nearby equ	ipment or structures?			Yes
			•			
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Seismic block walls Overhead components are well-supported						Yes
9. Do attac	hed lines have	adequate flexibility to av	oid damage?		·	Yes
		ismic interaction evaluat smic interaction effects?	ions, is equipment free	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 walkdov	vn team M. Del	laney & P. Gazda 8/2/12	pm			
Evaluated by:	Maile	LL M Selesy	∖ Marlene Delaney	Date:	10/1/2012	
	0.0	hych Philip (Gazda	_	10/1/2012	

Sheet 3 of 4

Status: Y N U

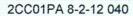
Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2CC01PA

Equipment Class: (5) Horizontal Pumps

Equipment Description: 2A COMPONENT COOLING WTR PUMP ASMBLY







2CC01PA 8-2-12 041

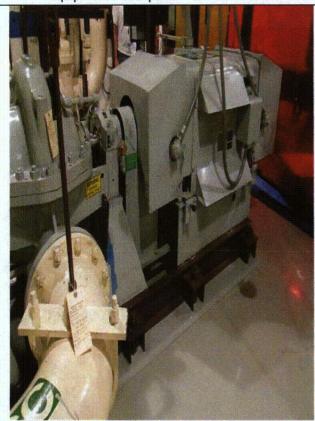
Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2CC01PA

Equipment Class: (5) Horizontal Pumps

Equipment Description: 2A COMPONENT COOLING WTR PUMP ASMBLY



2CC01PA 8-2-12 042

Seismic Walkdown Checklist (SWC)	
Equipment ID No.: 2CC01PB	
Equipment Class: (5) Horizontal Pumps	
Equipment Description: EQ MOTOR COMPONENT COOLING PMP 2B	
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% Yes	es
of SWEL items requiring such verification)?	
2. Is the anchorage free of bent, broken, missing or loose hardware?	es
Is the anchorage free of corrosion that is more than mild surface oxidation? Yes	ae.
3. Is the anchorage free of corrosion that is more than find surface oxidation?	35
4. Is the anchorage free of visible cracks in the concrete near the anchors?	es
5. Is the anchorage configuration consistent with plant documentation? (Note:	es
This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) Drawing M-1220 Sheet 4 Revision U	
Diaming Wi 1220 Officer 4 Nevision O	
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	es

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

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

Status: Y Seismic Walkdown Checklist (SWC) Equipment ID No.: 2CC01PB Equipment Class: (5) Horizontal Pumps Equipment Description: EQ MOTOR COMPONENT COOLING PMP 2B **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 9. Do attached lines have adequate flexibility to avoid damage? Yes , 10. Based on the above seismic interaction evaluations, is equipment free of Yes potentially adverse seismic interaction effects? **Other Adverse Conditions** 11. Have you looked for and found no adverse seismic conditions that could Yes adversely affect the safety functions of the equipment? Comments Seismic walkdown team M. Delaney & P. Gazda 8/2/12 pm 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)

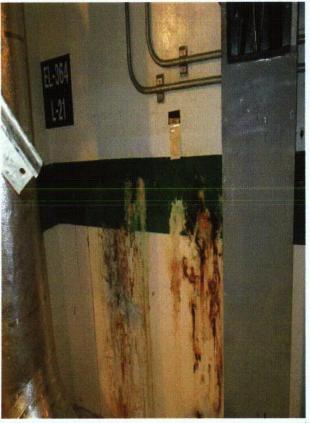
Equipment ID No.: 2CC01PB

Equipment Class: (5) Horizontal Pumps

Equipment Description: EQ MOTOR COMPONENT COOLING PMP 2B



2CC01PB (AWB - CLEARANCE TO MASONRY WALL) 8-2-12 046



2CC01PB (NP-6695) 8-2-12 045

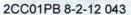
Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2CC01PB

Equipment Class: (5) Horizontal Pumps

Equipment Description: EQ MOTOR COMPONENT COOLING PMP 2B







2CC01PB 8-2-12 044

Seismic Walkdown Checklist (SWC)	Status: Y N U						
Equipment ID No.: 2CC9412A							
Equipment Class: (8) Motor-Operated and Solenoid-Operated Valves							
Equipment Description: CC FROM RH HX 2A OUTLET ISOL ASMBLY							
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	NI-						
 Is anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? 	No						
2. Is the anchorage free of bent, broken, missing or loose hardware?	Not Applicable						
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	Not Applicable						
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Not Applicable						
 Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) 	Not Applicable						
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	Yes						

Status: Seismic Walkdown Checklist (SWC) Equipment ID No.: 2CC9412A Equipment Class: (8) Motor-Operated and Solenoid-Operated Valves Equipment Description: CC FROM RH HX 2A OUTLET ISOL ASMBLY **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** Valve is located above 2A Residual Heat Exchanger Room and 2A Safety Injection Pump Room. Visual from step ladder. Seismic walkdown team M. Delaney & P. Gazda 8/2/12 pm Marlene Delaney Evaluated by: Date: 10/1/2012

Sheet 3 of 3

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2CC9412A

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

Equipment Description: CC FROM RH HX 2A OUTLET ISOL ASMBLY



2CC9412A 8-2-12 052

Seismic Walkdown Checklist (SWC)	Status: Y N U
Equipment ID No.: 2CV01PA	
Equipment Class: (5) Horizontal Pumps	
Equipment Description: PUMP,2A CENTRIFUGAL CHARGING ASMBLY	
Project: 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 example. The space below each of the following questions may be used to record the results of findings. Additional space is provided at the end of this checklist for documenting other comments.	of judgments and
Anchorage 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
 Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) Drawing M-1220 Sheet 2 Revision W 	Yes
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	Yes
·	

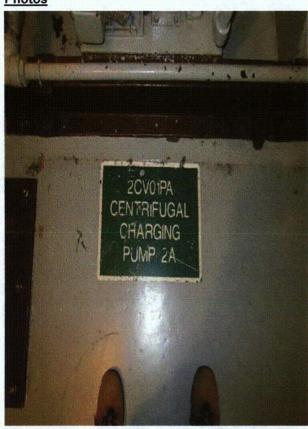
0	1.4. 0 5 .15.4	(0)4(0)			Status: Y N U
Seismic wai	kdown Checklist	(SWC)			
Ē	quipment ID No.:	2CV01PA			
E	Equipment Class:	(5) Horizontal Pumps	,		
Equipr	ment Description:	PUMP,2A CENTRIFUG	AL CHARGING ASMB	LY	
<u>Interaction E</u>					
7. Are s	oft targets free fro	m impact by nearby equi	pment or structures?		Yes
			•		
8. Are c	verhead equipme	nt, distribution systems, o	eiling tiles and lighting,	and	Yes
maso	onry block walls no	t likely to collapse onto t	ne equipment?		
	overhead piping ar eismic.	nd components are well-s	upported. Block walls	in area	• •
are s	eisime.				
9. Do a	ttached lines have	adequate flexibility to av	oid damage?		Yes
40 Bass	d on the above on	ionaia internation avalvati	ana ia aguinment frac	a.f	Yes
	10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?				
·	-				
Other Adver	se Conditions				
		d found no adverse seisi	nic conditions that coul	d	Yes
adve	rsely affect the sat	ety functions of the equip	oment?		
Comments					
Seismic walk	down team M. Del	aney & P. Gazda 7/30/12	? am		
	N A				
	Marie	e Malany			
_				_	·
Evaluated by			Marlene Delaney	_ Date: _	10/1/2012
	011	Shrah Phillip G			•
	G.0.	Philip G	azda		10/1/2012
	•		•		

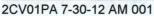
Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2CV01PA

Equipment Class: (5) Horizontal Pumps

Equipment Description: PUMP,2A CENTRIFUGAL CHARGING ASMBLY







2CV01PA 7-30-12 AM 002

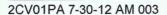
Seismic Walkdown Checklist (SWC)

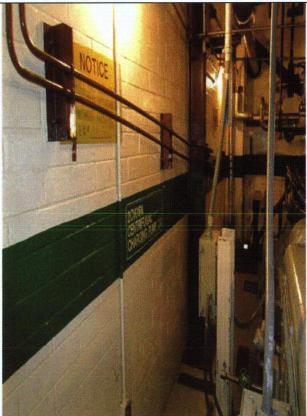
Equipment ID No.: 2CV01PA

Equipment Class: (5) Horizontal Pumps

Equipment Description: PUMP,2A CENTRIFUGAL CHARGING ASMBLY







2CV01PA 7-30-12 AM 015

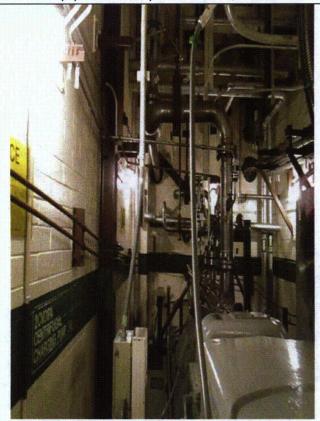
Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2CV01PA

Equipment Class: (5) Horizontal Pumps

Equipment Description: PUMP,2A CENTRIFUGAL CHARGING ASMBLY



2CV01PA 7-30-12 AM 016

Status: Y Seismic Walkdown Checklist (SWC)	N U
Equipment ID No.: 2CV01PA-A	
Equipment Class: (5) Horizontal Pumps	· · · ·
Equipment Description: PUMP, CNTRFGL CHG AUX OIL PP	
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 are findings. Additional space is provided at the end of this checklist for documenting other comments.	
Anchorage	
 Is anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Mounted to skid. 	No
Mounted to skid.	
2. Is the anchorage free of bent, broken, missing or loose hardware?	Yes
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	Yes
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Yes
 Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) 	No
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	Yes
See 2CV01PA SWEC for anchorage check.	

Correspondence No.: RS-12-159

Sheet 2 of 3

Status: Seismic Walkdown Checklist (SWC) Equipment ID No.: 2CV01PA-A Equipment Class: (5) Horizontal Pumps Equipment Description: PUMP, CNTRFGL CHG AUX OIL PP **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? See 2CV01PA for notes. **Comments** Seismic walkdown team M. Delaney & P. Gazda 7/30/12 am Evaluated by: Marlene Delaney Date: 10/1/2012 Philip Gazda 10/1/2012

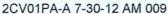
Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2CV01PA-A

Equipment Class: (5) Horizontal Pumps

Equipment Description: PUMP, CNTRFGL CHG AUX OIL PP







2CV01PA-A 7-30-12 AM 010

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

Status: Y N U Seismic Walkdown Checklist (SWC) Equipment ID No.: 2CV02SA Equipment Class: (21) Tanks and Heat Exchangers Equipment Description: 2A CV PUMP GEAR OIL COOLER 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)? Mounted on skid see 2CV01PA. 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: No This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) 6. Based on the above anchorage evaluations, is the anchorage free of Yes potentially adverse seismic conditions? See 2CV01PA for notes

Saism	ic Walkdown Checkl	ict (SMC)			Status:	Y N U
Ocisiii	Equipment ID No					
	• •	s: (21) Tanks and Heat Ex	vchangers			
		n: 2A CV PUMP GEAR O		11.0 100	<u></u>	
	ction Effects	1. ZAOVI OMI GLARO	IL GOOLLIN			
		from impact by nearby equi	pment or structures?	•		Yes
8.	• •	nent, distribution systems, on not likely to collapse onto the		and		Yes
9.	Do attached lines ha	ve adequate flexibility to av	roid damage?			Yes
10.		seismic interaction evaluati eismic interaction effects?	ions, is equipment free	of		Yes
Other	Adverse Conditions					
11.	Have you looked for	and found no adverse seisi safety functions of the equip		d		Yes
٠		·	·			
Comm	nents					
Seismi	ic walkdown team M.	Delaney & P. Gazda 7/30/12	2 am			
Evalua	Mark	Mych Philip C	Marlene Delaney	_ Date:	10/1/2012	
				_		

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2CV02SA

Equipment Class: (21) Tanks and Heat Exchangers

Equipment Description: 2A CV PUMP GEAR OIL COOLER



2CV02SA 7-30-12 AM 006

Seismic Walkdown Checklist ((SWC)	Status: Y N U
Equipment ID No.:	2CV112D	•
· · · —	(8) Motor-Operated and Solenoid-Operated Valves	
-	RWST TO CHG PMPS SUCT VLV C/S AT 2PM05J ASMBI	Υ
Projec		
Location (Bldg, Elev, Room/Area		
Manufacturer/Mode		
Instructions for Completing C	hecklist	
SWEL. The space below each of	ocument the results of the Seismic Walkdown of an item of e of the following questions may be used to record the results ovided at the end of this checklist for documenting other com	of judgments and
<u>Anchorage</u>		
 Is anchorage configurati 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
	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 seisn	chorage evaluations, is the anchorage free of nic conditions?	Yes

•		Status: Y N U
Seismic Walkdown Checklist	(SWC)	
Equipment ID No.:	2CV112D	
Equipment Class:	(8) Motor-Operated and Solenoid-Operated Valves	
Equipment Description:	RWST TO CHG PMPS SUCT VLV C/S AT 2PM05J ASMBL	_Y
Interaction Effects		
Are soft targets free from	m impact by nearby equipment or structures?	Yes
8. Are overhead equipme	nt, distribution systems, ceiling tiles and lighting, and	Yes
	ot likely to collapse onto the equipment?	
9. Do attached lines have	adequate flexibility to avoid damage?	Yes
10. Based on the above se	eismic interaction evaluations, is equipment free of	Yes
	smic interaction effects?	•
	(
Other Adverse Conditions		
•	nd found no adverse seismic conditions that could	Yes
	fety functions of the equipment? tially obstructed view due to other components	
riigir iir oyonlodd, pan	iany obstructed view due to suiter compensation	
Comments		
Seismic walkdown team M. De	aney & P. Gazda 7/30/12 am	
Made	H-M Delege	
, (Le M Selesy	
Evaluated by:	Marlene Delaney Date: 10	0/1/2012
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0.0	. <i>Shayes</i> Philip Gazda 10	0/1/2012
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Sheet 3 of 3

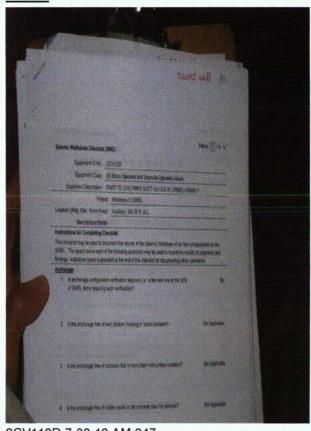
Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2CV112D

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

Equipment Description: RWST TO CHG PMPS SUCT VLV C/S AT 2PM05J ASMBLY





2CV112D 7-30-12 AM 047

2CV112D 7-30-12 AM 048

Correspondence No.: RS-12-159

Sheet 1 of 5

Status: Seismic Walkdown Checklist (SWC) Equipment ID No.: 2CV112E Equipment Class: (8) Motor-Operated and Solenoid-Operated Valves Equipment Description: RWST TO CHG PMPS SUCT VLV C/S AT 2PM05J ASMBLY 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 3. Is the anchorage free of corrosion that is more than mild surface oxidation? Not Applicable 4. Is the anchorage free of visible cracks in the concrete near the anchors? Not Applicable 5. Is the anchorage configuration consistent with plant documentation? (Note: Not Applicable This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) 6. Based on the above anchorage evaluations, is the anchorage free of Yes potentially adverse seismic conditions?

Correspondence No.: RS-12-159

Status:

Sheet 2 of 5

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2CV112E

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

Equipment Description: RWST TO CHG PMPS SUCT VLV C/S AT 2PM05J ASMBLY

Interaction Effects

7. Are soft targets free from impact by nearby equipment or structures?

Yes

10-21-12: Per IR 1429477: "During Fukushima walkdown of valve 2CV112E to verify closure of an IPEEE outlier for clearance between operator of the valve and existing structural grating it was found that in the cold position there is a 0" gap between the valve operator and grating."

The grating is in contact with the valve yoke however the valve is rugged and it is unlikely that damage would result from impact with the grating.

IR 1429477 generated to address this issue.

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?

Yes

Do attached lines have adequate flexibility to avoid damage?

Yes

10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?

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? Valve is partially obstructed due to other components. Subsequent walkdown to be performed. Walkdown performed on 10/21/12: results documented in Question 7.

Yes

Comments

Seismic walkdown team M. Delaney & P. Gazda 7/30/12 am

Walkdown performed on 10/21/12 by Jim Griffith and David Carter to verify closure of an IPEEE outlier for clearance between valve yoke and existing platform grating.

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2CV112E

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

Equipment Description: RWST TO CHG PMPS SUCT VLV C/S AT 2PM05J ASMBLY

Evaluated by:

Marlene Delaney

Date:

10/1/12

Lvaluated by.

N Philip Gazda

10/1/12

Sad Neat

David Carter

10/22/12

Jones D. Sylpton

James Griffith

10/22/12

Photos





10-21-12 299

10-21-12 300

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2CV112E

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

Equipment Description: RWST TO CHG PMPS SUCT VLV C/S AT 2PM05J ASMBLY





10-21-12 303



10-21-12 302



10-21-12 304

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2CV112E

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

Equipment Description: RWST TO CHG PMPS SUCT VLV C/S AT 2PM05J ASMBLY



2CV112E (AWB - STANCHION) 7-30-12 AM 051



2CV112E 7-30-12 AM 050

Correspondence No.: RS-12-159

Sheet 1 of 3

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

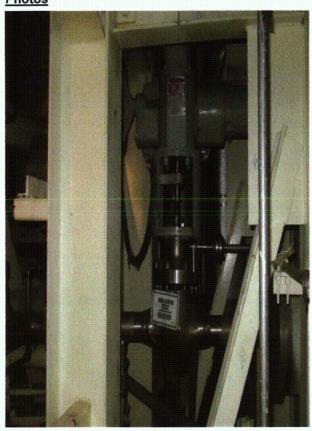
Seismic Walkdown Chec		tatus: Y N U
Equipment ID I	lo.: 2CV8105	
	ss: (8) Motor-Operated and Solenoid-Operated Valves	
Equipment Descript		
Interaction Effects		
	e from impact by nearby equipment or structures?	Yes
masonry block wa	oment, distribution systems, ceiling tiles and lighting, and is not likely to collapse onto the equipment? nents well-supported	Yes
9. Do attached lines	nave adequate flexibility to avoid damage?	Yes
	e seismic interaction evaluations, is equipment free of seismic interaction effects?	Yes
Other Adverse Condition	S	
11. Have you looked for adversely affect the	or and found no adverse seismic conditions that could be safety functions of the equipment? corted, near Penetration 71	Yes
Comments		
Seismic walkdown team M	Delaney & P. Gazda 8/2/12 am	
Evaluated by:	Marlene Delaney Date: 10/1/2	

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2CV8105

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

Equipment Description: CHG LINE CNMT ISOL VLV C/S AT 2PM05J ASMBLY



2CV8105 8-2-12 020

	•	Status: Y N U
Seismic Walkdown Checklist	(SWC)	· · ·
Equipment ID No.:	2CV8106	· <u></u>
Equipment Class:	(8) Motor-Operated and Solenoid-Operated Valves	
Equipment Description:	CHG LINE CNMT ISOL VLV C/S AT 2PM05J ASMBLY	
Proje	ect: Braidwood 2 SWEL	
Location (Bldg, Elev, Room/Are	a): Auxiliary, 375.00 ft, ALL	,
Manufacturer/Mod	lel:	
SWEL. The space below each findings. Additional space is pr	Checklist locument the results of the Seismic Walkdown of an item of of the following questions may be used to record the result ovided at the end of this checklist for documenting other co	s of judgments and
<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?	Not Applicable
3. Is the anchorage free o	of corrosion that is more than mild surface oxidation?	Not Applicable
4. Is the anchorage free of	of visible cracks in the concrete near the anchors?	Not Applicable
	guration consistent with plant documentation? (Note: ies if the item is one of the 50% for which an anchorage n is required.)	Not Applicable
Based on the above an potentially adverse seis	schorage evaluations, is the anchorage free of smic conditions?	Yes

Correspondence No.: RS-12-159

Sheet 2 of 3

Status: Y Seismic Walkdown Checklist (SWC) Equipment ID No.: 2CV8106 Equipment Class: (8) Motor-Operated and Solenoid-Operated Valves Equipment Description: CHG LINE CNMT ISOL VLV C/S AT 2PM05J ASMBLY Interaction Effects 7. Are soft targets free from impact by nearby equipment or structures? Yes 8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and Yes masonry block walls not likely to collapse onto the equipment? 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 and well-supported Boric acid on adjacent valve 2CV-8402B, equipment operator notified. Not a seismic/structural concern. **Comments** Seismic walkdown team M. Delaney & P. Gazda 8/2/12 am Marlene Delaney Evaluated by: Date: 10/1/2012

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2CV8106

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

Equipment Description: CHG LINE CNMT ISOL VLV C/S AT 2PM05J ASMBLY



2CV8106 8-2-12 021

Sheet 1 of 3

Correspondence No.: RS-12-159

Status: Y N U Seismic Walkdown Checklist (SWC) Equipment ID No.: 2CV8110 Equipment Class: (8) Motor-Operated and Solenoid-Operated Valves Equipment Description: CV PMP MINIFLOW ISOL VLV C/S AT 2PM05J ASMBLY 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.) 6. Based on the above anchorage evaluations, is the anchorage free of Yes potentially adverse seismic conditions?

Status: Seismic Walkdown Checklist (SWC) Equipment ID No.: 2CV8110 Equipment Class: (8) Motor-Operated and Solenoid-Operated Valves Equipment Description: CV PMP MINIFLOW ISOL VLV C/S AT 2PM05J ASMBLY **Interaction Effects** 7. Are soft targets free from impact by nearby equipment or structures? Yes 8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and Yes masonry block walls not likely to collapse onto the equipment? 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? well-supported pipe Comments Seismic walkdown team M. Delaney & P. Gazda 7/30/12 am Evaluated by: Marlene Delaney Date: 10/1/2012 10/1/2012

Sheet 3 of 3

Status: Y N U

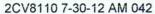
Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2CV8110

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

Equipment Description: CV PMP MINIFLOW ISOL VLV C/S AT 2PM05J ASMBLY







2CV81107-30-12 AM 041

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

Status: Seismic Walkdown Checklist (SWC) Equipment ID No.: 2CV8804A Equipment Class: (8) Motor-Operated and Solenoid-Operated Valves Equipment Description: RH HX 2A TO CV PMP SUCT ISOL VLV; C/S AT 2PM06J ASMBLY 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** Is anchorage configuration verification required (i.e., is the item one of the 50% No of SWEL items requiring such verification)? 2. Is the anchorage free of bent, broken, missing or loose hardware? Not Applicable 3. Is the anchorage free of corrosion that is more than mild surface oxidation? Not Applicable 4. Is the anchorage free of visible cracks in the concrete near the anchors? Not Applicable 5. Is the anchorage configuration consistent with plant documentation? (Note: Not Applicable This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) Based on the above anchorage evaluations, is the anchorage free of Yes potentially adverse seismic conditions?

Saism	ic Walkdown Checklis	· (SWC)	Status: Y N U
Seisiii		,	
	Equipment ID No.:		
	Equipment Class		4 0 1 4 0 1 1 4
	Equipment Description	RH HX 2A TO CV PMP SUCT ISOL VLV; C/S AT 2PM06J	ASMBLY
	Ction Effects	om impact by nearby equipment or structures?	Yes
1.5	Are soit targets free in	in impact by flearby equipment of structures.	163
	•		
8.		ent, distribution systems, ceiling tiles and lighting, and of likely to collapse onto the equipment?	Yes
9.	Do attached lines hav	e adequate flexibility to avoid damage?	Yes
10.	Based on the above s	eismic interaction evaluations, is equipment free of	Yes
		smic interaction effects?	
			•
			•
Other	Adverse Conditions		
11.		nd found no adverse seismic conditions that could	Yes
	adversely affect the sa	fety functions of the equipment?	
	Well-supported pipe		
٠			
Comm		· ·	
		laney & P. Gazda 7/30/12 am	
		·	
		u Malany	
Evalua	ited by:	Marlene Delaney Date: 10	0/1/2012
	0.0	. Mych Philip Gazda 10	0/1/2012

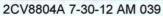
Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2CV8804A

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

Equipment Description: RH HX 2A TO CV PMP SUCT ISOL VLV; C/S AT 2PM06J ASMBLY







2CV8804A 7-30-12 AM 040

Correspondence No.: RS-12-159

Sheet 1 of 5

Status: Y N U Seismic Walkdown Checklist (SWC) Equipment ID No.: 2DC01E Equipment Class: (15) Batteries on Racks Equipment Description: 125V BATTERY 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 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 1. Is anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Is the anchorage free of bent, broken, missing or loose hardware? Yes Is the anchorage free of corrosion that is more than mild surface oxidation? Yes Is the anchorage free of visible cracks in the concrete near the anchors? Yes 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-0-3391BG Revision B 6. Based on the above anchorage evaluations, is the anchorage free of Yes potentially adverse seismic conditions?

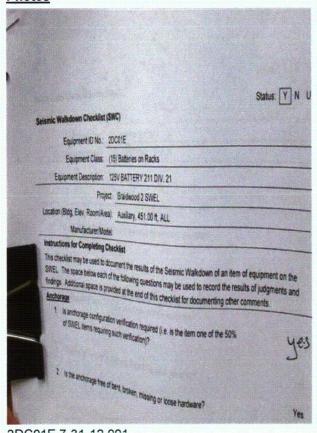
Seismic Walkdown Checklist	(SWC)	Status: Y N U
Equipment ID No.:		
	(15) Batteries on Racks	
Equipment Description:	125V BATTERY 211 DIV. 21	
Interaction Effects	minument by manyby any imment or atments.	Van
7. Are son largets nee no	n impact by nearby equipment or structures?	Yes
masonry block walls no Seismic block walls in Open S-hook on one cl	at, distribution systems, ceiling tiles and lighting, and tilkely to collapse onto the equipment? area, area for east-west light fixture just inside the room. IR Other chain does not have open hook so light would not	Yes
9. Do attached lines have	adequate flexibility to avoid damage?	Yes
Based on the above se potentially adverse seis	smic interaction evaluations, is equipment free of mic interaction effects?	Yes
Other Adverse Conditions		
	d found no adverse seismic conditions that could ety functions of the equipment?	Yes
Comments		
Seismic walkdown team M. Del	aney & P. Gazda 7/30/12 pm	
Evaluated by:	The offe	10/1/2012 10/1/2012

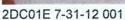
Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2DC01E

Equipment Class: (15) Batteries on Racks

Equipment Description: 125V BATTERY 211 DIV. 21







2DC01E 7-31-12 002

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2DC01E

Equipment Class: (15) Batteries on Racks

Equipment Description: 125V BATTERY 211 DIV. 21





2DC01E 7-31-12 003

2DC01E 7-31-12 004

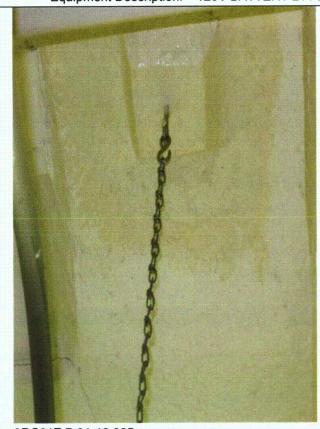
Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2DC01E

Equipment Class: (15) Batteries on Racks

Equipment Description: 125V BATTERY 211 DIV. 21



2DC01E 7-31-12 005