NJPR-12-0043

Sheet 1 of 3 Status: N U

Seismic Walkdown Checklist (SWC)	
[Note: This Walkdown's scope was limited to cabinet internals per 9/18/12 NEI Focus Group response	to Frequently Asked Questions.]
Equipment ID No. H21P624 Equip. Class 20, Instrumentation 8	& Control Panels
Equipment Description <u>H21-P624 Div. 1 Bus 64C Dedicated Shutdown Panel</u>	
Location: Bldg. <u>AB2</u> Floor El. <u>613'-6"</u> Room, Area <u>Room B-11</u> ,	Col. G-10
Manufacturer, Model, Etc. (optional but recommended) Hoffman, Model A-30	H30BLP
Instructions for Completing Checklist	
This checklist may be used to document the results of the Seismic Walkdown of SWEL. The space below each of the following questions may be used to record findings. Additional space is provided at the end of this checklist for documenting the space is provided at the end of this checklist for documenting the space is provided at the end of this checklist for documenting the space is provided at the end of this checklist for documenting the space is provided at the end of this checklist for documenting the space is provided at the end of this checklist for documenting the space is provided at the end of this checklist for documenting the space is provided at the end of this checklist for documenting the space is provided at the end of this checklist for documenting the space is provided at the end of this checklist for documenting the space is provided at the end of this checklist for documenting the space is provided at the end of this checklist for documenting the space is provided at the end of this checklist for documenting the space is provided at the end of this checklist for documenting the space is provided at the end of this checklist for documenting the space is provided at the end of this checklist for documenting the space is provided at the end of this checklist for the space is provided	the results of judgments and
Anchorage	
1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?  Not applicable. See August 22, 2012, Seismic Walkdown Checklist and comment on page 3 on this checklist dated October 8, 2012.	Y N
2. Is the anchorage free of bent, broken, missing or loose hardware? See August 22, 2012, Seismic Walkdown Checklist and comment on page 3 on this checklist dated October 8, 2012.	Y N UU U/AX
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	Y NO UO N/AIX
See response to Question 2 above.	
4. Is the anchorage free of visible cracks in the concrete near the anchors? See response to Question 2 above.	Y N UU 'N/AK
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.)  See response to Question 2 above.	YO NO UO N/AX
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Not applicable. See August 22, 2012, Seismic Walkdown Checklist and comment on page 3 on this checklist dated October 8, 2012.	Y NU UU

<sup>&</sup>lt;sup>1</sup> Enter the equipment class name from Appendix B: Classes of Equipment

NJPR-12-0043

Sheet 2 of 3 Status: N U

Seismic Walkdown Checklist (SWC)	
[Note: This Walkdown's scope was limited to cabinet internals per 9/18/12 NEI Focus Group response to	o Frequently Asked Questions.]
Equipment ID No. H21P624 Equip. Class 20, Instrumentation &	Control Panels
Equipment Description H21-P624 Div. 1 Bus 64C Dedicated Shutdown Panel	
Interaction Effects	
7. Are soft targets free from impact by nearby equipment or structures? See August 22, 2012, Seismic Walkdown Checklist and comment on page 3 on this checklist dated October 8, 2012.	Y NO UO N/AX
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? See response to Question 7, above.	YO NO UO N/ADX
9. Do attached lines have adequate flexibility to avoid damage?  See response to Question 7, above.	Y NO UO N/AX
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Not applicable. See August 22, 2012, Seismic Walkdown Checklist and comment on page 3 on this checklist dated October 8, 2012.	Y NO UO
Other Adverse Conditions	
11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment?  The door on the instrument panel was opened to permit evaluating the adequacy of fasteners securing components mounted inside. None of the components weighed more than two pounds. No adverse conditions were identified. See Photo 1, attached.	YX NO UO

NJPR-12-0043

Sheet 3 of 3 Status: (Y) N U

			<b>Y</b>
Seismic Walkdown Che	ecklist (SWC)		
[Note: This Walkdown's	scope was limited to	cabinet internals per 9/18/12 NEI Focus	Group response to Frequently Asked Questions.]
Equipment ID No.	H21P624	Equip. Class <sup>1</sup> 20, Instr	rumentation & Control Panels
Equipment Descrip	otion <u>H21-P624</u>	Div. 1 Bus 64C Dedicated Shut	down Panel
Comments (Addition	onal pages may be	e added as necessary)	
in a Seismic the instrume anchorage o Frequently August 22 V	c Walkdown Che ent panel was no on components i Asked Question. Valkdown. Ther	ecklist dated August 22, 2012. Hot opened to afford Seismic Walk inside the panel. A September 18 s about opening cabinet doors le	In August Walkdown and results reported However, during the Walkdown, the door on kdown Engineers an opportunity to inspect 8, 2012, NEI Focus Group response to ed to consider increasing the scope of the wn included unlocking and opening the nounted inside.
			•
Evaluator #1:	eismic Engineer	· Walkdown PSE-53Qualified · Walkdown PSE-53Qualified	Date: 10/08/12

Equipment ID No. <u>H21P624</u> Equipment Class: <u>20, Instrument and Control Panels</u>

Equipment Description \_H21-P624 Div. 1 Bus 64C Dedicated Shutdown Panel

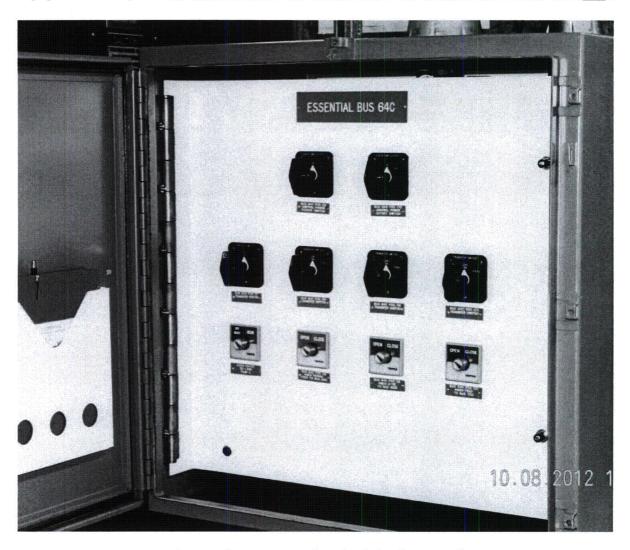


Photo 1, Close-Up View of Inside of Shutdown Panel

NJPR-12-0043

Sh	eet	م إ	f3
Status:	Y(	N	)U

Seismic Walkdown Checklist (SWC)	
Equipment ID No. <u>H21P628</u> Equip. Class 20, <u>Instrument Panel</u>	
Equipment Description Dedicated Shutdown Local Control Panel Div I	
Location: Bldg. <u>AB</u> Floor El. <u>613'-6"</u> Room, Area <u>Switchgear Room</u>	om (B-11)
Manufacturer, Model, Etc. (optional but recommended) N/A	
Instructions for Completing Checklist	
This checklist may be used to document the results of the Seismic Walkdown of ar SWEL. The space below each of the following questions may be used to record the findings. Additional space is provided at the end of this checklist for documenting	e results of judgments and
Anchorage	
1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?  1 welded to embedded plate and 3 welded to bolted base plate.  (SEF PICTURES DSCN0303, DSCN0305, DSCN0306, DSCN0306	
	YE NO UO N/AO
3. Is the anchorage free of corrosion that is more than mild surface oxidation?  Welds painted. Anchor bolts free of corrosion.  (SEE PICTURE DSCNOBOB) ~ DSK 10/9/12	YEJIN□ U□ N/A□
4. Is the anchorage free of visible cracks in the concrete near the anchors? Concrete at anchor bolts and embedded plate free of corrosion and cracks in concrete.	YZ NO UO N/AO
(Note: This question only applies if the item is one of the 50% for	Y□ NØ U□ N/A□
which anchorage configuration verification is required.)  Drawing has configuration error — Section G-G is incorrect for the front right leg — As-built condition is as shown on section D-D from H21P626. Verification and drawing update required (ref. Dwg. E-2998-05). CARD 12-26837 has been issued to track drawing configuration error. Welds of unistrut are consistent with drawing and welding of front legs to equipment is consistent with drawing. SEE comme	SEE PICTURES DSCNG303, DSCNG309)~D5k 10/9/12
	AKI NO NO

<sup>&</sup>lt;sup>1</sup> Enter the equipment class name from Appendix B: Classes of Equipment

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Sheet 2 of 3 Status: Y N U

Seismic Walkdown Checklist (SWC)		
Equipment ID No. <u>H21P628</u> Equip. Class <sup>1</sup> <u>20, Instrument Pa</u>	anel	
Equipment Description <u>Dedicated Shutdown Local Control Panel Div I</u>		
Interaction Effects		
7. Are soft targets free from impact by nearby equipment or structures? Phone and speaker robustly mounted. Operations green box anchore to the wall with 6 3/8" Ø concrete expansion anchors.		]
8. Are overhead equipment, distribution systems, ceiling tiles and lighting and masonry block walls not likely to collapse onto the equipment?  Lights on cable and wire. Cable tray seismically supported	ing, Y⊠ N□ U□ N/A□	3
9. Do attached lines have adequate flexibility to avoid damage?  Bottom entry to cabinet flex in 12" radius approx. (See Picture DS Lines have a dequate flexibility.	Y⊠ N□ U□ N/A□ SCN0303)	JAM JAM 10/18/12
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	e Y⊠(N□U□	
Other Adverse Conditions		
11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? Cabinet not opened.	d YA NO UO	
Note: This asset is locked and would require an Operational was not opened. Base a was exterior and verifiable.	rator to be junchorage 10	AM 18/12

NJPR-12-0043

Sheet 3 of 3 Status: Y N JML 1012

Seismic Walkdown	Checklist (SWC)
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• • • • • • • • • • • • • • • • • • • •	
Equipment ID No. H21P628 Equip. Class 20 INSTRUMENT PANEquipment Description DEDTC ATED SHUTPOWN IDCAL CONTROL PANE	
Comments (Additional pages may be added as necessary)  Dwg. E-2998-05, REU. B HAS NO POSTINGS VDJK 10/12/12	
Note: Per NEI Focus Group response to Frequently Acked Questions (FAQ) dated September 18,2012, a supplemental seismic walkdown was conducted on October 8,2012 to open the panel and visually inspectionside. The supplemental SWC follows this SWC.	JAM 10/23/1
Seismic Engineer Walkdown PSE-53Qualified  Evaluator #1: Dovid Checker. Date: 08/14/20	
and On Old	1/201

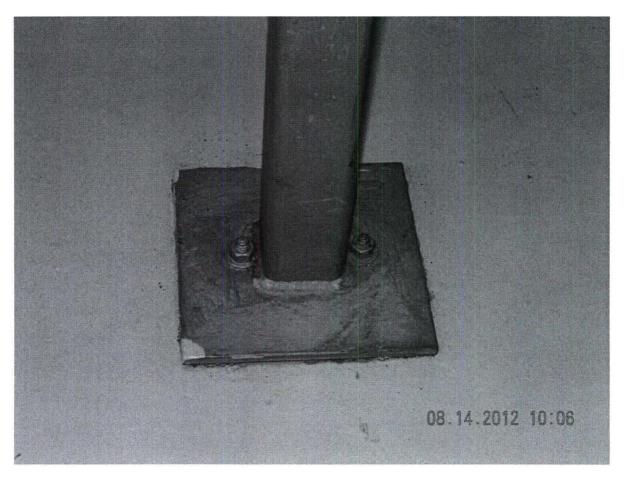
Equipment ID No. <u>H21P628</u> Equipment Class: <u>20, Instrument & Control Panel</u>

Equipment Description <u>Dedicated Shutdown Local Control Panel DIV1</u>



(DSCN0303)

**General Mounting Configuration** 

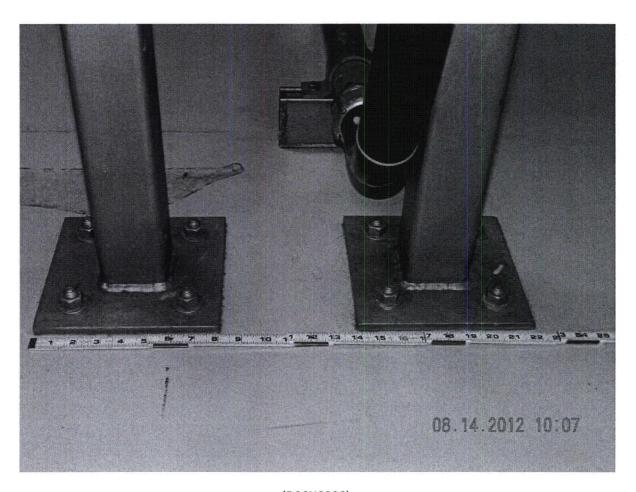


(DSCN0305)

Bolting Configuration to Concrete Floor

Equipment ID No. <u>H21P628</u> Equipment Class: <u>20, Instrument & Control Panel</u>

Equipment Description <u>Dedicated Shutdown Local Control Panel DIV1</u>

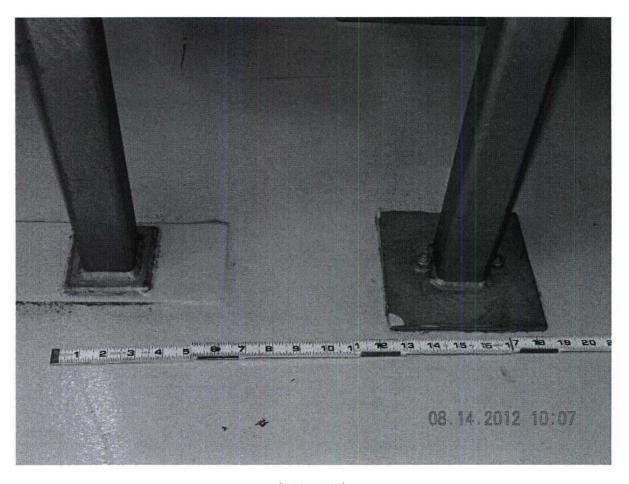


(DSCN0306)

Bolting Configuration to Concrete Floor (Rear)

Equipment ID No. <u>H21P628</u> Equipment Class: <u>20, Instrument & Control Panel</u>

Equipment Description <u>Dedicated Shutdown Local Control Panel DIV1</u>



(DSCN0309)

Bolting Configuration to Concrete Floor (Front)

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Sheet 1 of 3 Status: (Y) N U

Seismic Walkdown Checklist (SWC)	
[Note: This Walkdown's scope was limited to cabinet internals per 9/18/12 NEI Focus Group response	
Equipment ID No. H21P628 Equip. Class 20, Instrument Panel	
Equipment Description <u>Dedicated Shutdown Panel, Local Control Panel Div. 1</u>	
Location: Bldg. AB2 Floor El. 613'-6" Room, Area Switchgear I	Room B-11, Col. G-10
Manufacturer, Model, Etc. (optional but recommended) N/A	
Instructions for Completing Checklist  This checklist may be used to document the results of the Seismic Walkdown of SWEL. The space below each of the following questions may be used to record findings. Additional space is provided at the end of this checklist for documenting the space is provided at the end of this checklist for documenting the space is provided at the end of this checklist for documenting the space is provided at the end of this checklist for documenting the space is provided at the end of this checklist for documenting the space is provided at the end of this checklist for documenting the space is provided at the end of this checklist for documenting the space is provided at the end of this checklist for documenting the space is provided at the end of this checklist for documenting the space is provided at the end of this checklist for documenting the space is provided at the end of this checklist for documenting the space is provided at the end of this checklist for documenting the space is provided at the end of this checklist for documenting the space is provided at the end of this checklist for documenting the space is provided at the end of this checklist for documenting the space is provided at the end of this checklist for documenting the space is provided at the end of this checklist for documenting the space is provided at the end of this checklist for documenting the space is provided at the end of this checklist for documenting the space is provided at the end of this checklist for documenting the space is provided at the end of this checklist for documenting the space is provided the space is provided at the end of this checklist for the space is provided	the results of judgments and
Anchorage	
1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?  Not applicable. See August 14, 2012, Seismic Walkdown Checklist and comment on page 3 on this checklist dated October 8, 2012.	Y N
2. Is the anchorage free of bent, broken, missing or loose hardware? See August 14, 2012, Seismic Walkdown Checklist and comment on page 3 on this checklist dated October 8, 2012.	Y NU UU N/AX
<ol> <li>Is the anchorage free of corrosion that is more than mild surface oxidation?</li> <li>See response to Question 2, above.</li> </ol>	Y OU ON OY
4. Is the anchorage free of visible cracks in the concrete near the anchors? See response to Question 2, above.	Y NU UU N/AX
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.)  See response to Question 2, above.	Y N U N/ATA
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Not applicable. See August 14, 2012, Seismic Walkdown Checklist and comment on page 3 on this checklist dated October 8, 2012.	Y NU UU

<sup>&</sup>lt;sup>1</sup> Enter the equipment class name from Appendix B: Classes of Equipment

NJPR-12-0043

Sheet 2 of 3 Status: N U

Seismic Walkdown Checklist (SWC)	
[Note: This Walkdown's scope was limited to cabinet internals per 9/18/12 NEI Focus Group response Equipment ID No. <u>H21P628</u> Equip. Class <u>1 20, Instrument Panel</u>	
Equipment Description <u>Dedicated Shutdown Panel, Local Control Panel Div. 1</u>	
Interaction Effects	
7. Are soft targets free from impact by nearby equipment or structures? See August 14, 2012, Seismic Walkdown Checklist and comment on page 3 on this checklist dated October 8, 2012.	Y NU UU N/AX
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? See response to Question 7, above.	Y NU UU N/ATA
9. Do attached lines have adequate flexibility to avoid damage? See response to Question 7, above.	Y NO UO N/AK
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Not applicable. See August 14, 2012, Seismic Walkdown Checklist and comment on page 3 on this checklist dated October 8, 2012.	Y NU UU
Other Adverse Conditions	
11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment?  The door on the instrument panel was opened to permit evaluating the adequacy of fasteners securing components mounted inside. None of the components weighed more than two pounds. No adverse conditions were identified. See Photos 1,2 & 3 attached.	YXX NO UO

NJPR-12-0043

Sheet 3 of 3 Status: N U

Seismic Walkdown Checklist (SWC)
[Note: This Walkdown's scope was limited to cabinet internals per 9/18/12 NEI Focus Group response to Frequently Asked Questions.]
Equipment ID No. H21P628 Equip. Class 20, Instrument Panel
Equipment Description <u>Dedicated Shutdown Panel, Local Control Panel Div. 1</u>
Comments (Additional pages may be added as necessary)
Anchorage and Interaction Effects were evaluated during an August Walkdown and results reported in a Seismic Walkdown Checklist dated August 14, 2012. However, during the Walkdown, the door on the instrument panel was not opened to afford Seismic Walkdown Engineers an opportunity to inspect anchorage on components inside the panel. A September 18, 2012, NEI Focus Group response to Frequently Asked Questions about opening cabinet doors led to consider increasing the scope of the August 14 Walkdown. Therefore, the scope of this Walkdown included unlocking and opening the panel door and evaluating fasteners securing components mounted inside.
Seismic Engineer Walkdown PSE-53Qualified  Evaluator #1: Date: 1008 12.
Evaluator #2: Mikol P. Dasso  Date: 10/08/12

Equipment ID No. <u>H21P628</u> Equipment Class: <u>20, Instrument Panel</u>

Equipment Description <u>Dedicated Shutdown Local Control Panel Div. 1</u>

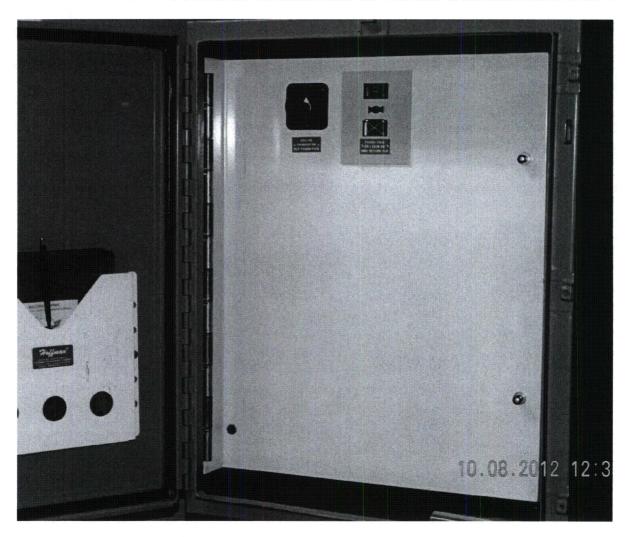


Photo 1, Close-Up View of Inside of Panel

Equipment ID No. <u>H21P628</u> Equipment Class: <u>20, Instrument Panel</u>

Equipment Description <u>Dedicated Shutdown Local Control Panel Div. 1</u>

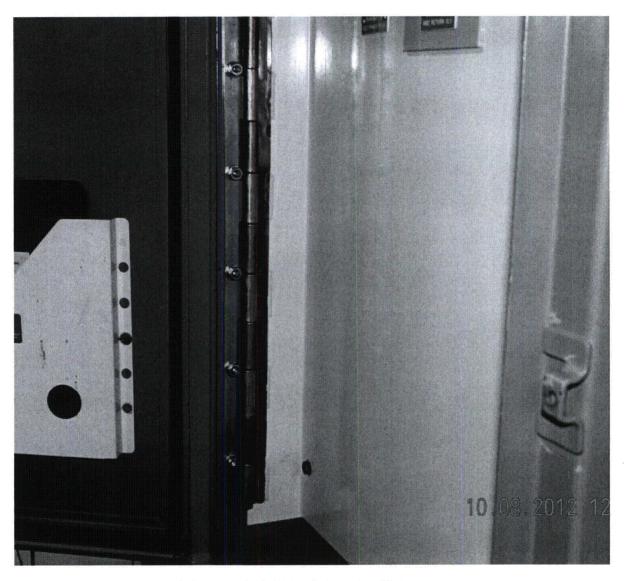


Photo 2, Close-Up View of Hinge on Left Side of Mounting Plate

Equipment ID No. <u>H21P628</u> Equipment Class: <u>20, Instrument Panel</u>

Equipment Description <u>Dedicated Shutdown Local Control Panel Div. 1</u>



Photo 3, Close-Up View of Welds on Right Side of Mounting Plate

NJPR-12-0043

oxidation?

Seismic Walkdown Checklist (SWC)

Sheet 1 of 3 Status: YN U

Equipment ID No. <u>H21P632</u> Equip. Class 1 20-Instrumentation ar	nd Control Panels
Equipment Description <u>Dedicated Shutdown MCC 72F-4A Local Ctrl Panel</u>	· ···
Location: Bldg. <u>RB</u> Floor El. <u>2</u> Room, Area <u>A-17, Col</u>	C-10
Manufacturer, Model, Etc. (optional but recommended) Hoffman	···-
Instructions for Completing Checklist	
This checklist may be used to document the results of the Seismic Walkdown of SWEL. The space below each of the following questions may be used to record findings. Additional space is provided at the end of this checklist for documenting the space of t	the results of judgments and
Anchorage	
1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?	Y <b>⊠</b> N□
2. Is the anchorage free of bent, broken, missing or loose hardware?  All anchorage is present and secure. See pictures 11 and 19,	Y⊠ N□ U□ N/A□

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

Y⋈ N□ U□

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

The anchorage did not exhibit any corrosion or oxidation!

No concrete cracks were observed.

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

YX N U U N/A

YX N U U N/A

<sup>5.</sup> Is the anchorage configuration consistent with plant documentation?

(Note: This question only applies if the item is one of the 50% for which anchorage configuration verification is required.)

Anchorage configuration matches the sketches drawn on pages 11 and 14 of calculation DC-5869 Vol I Rev 0. (LO POSTINGS) ATK 10/12/12

<sup>&</sup>lt;sup>1</sup> Enter the equipment class name from Appendix B: Classes of Equipment

NJPR-12-0043

Sheet 2 of 3 Status: YN U

Seismic Walk	down Che	cklist (	(SWC)
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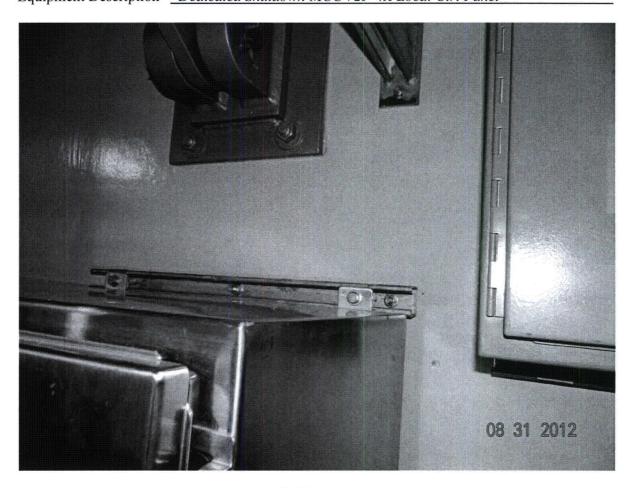
Equipment ID No. <u>H21P632</u> Equip. Class 20-Instrumentation and Control Panels		
Equipment Description <u>Dedicated Shutdown MCC 72F-4A Local Ctrl Panel</u>		
Interaction Effects		
7. Are soft targets free from impact by nearby equipment or structures?  The panel is free from impact because all nearby equipment and structures are appropriately restrained	YM NO UO N/AO	
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?  All overhead equipment, distribution systems, and lighting are adequately restrained. There are no ceiling tiles or masonry block walls in the vicinity. See pictures 13 and 18	YMZ N□ U□ N/A□	
9. Do attached lines have adequate flexibility to avoid damage?  Attached lines are looped to provide adequate flexibility. See picture 21. In addition, the unistrut will absorb some energy	Y⊠ N□ U□ N/A□	
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	YM NO UO	
Other Adverse Conditions		
Other Adverse Conditions  11. Have you looked for and found no other seismic conditions that could	Y⊠ N□ U□	
adversely affect the safety functions of the equipment?	* MAI THE OFF	

MPS 10/5/12

NJPR-12-0043

Sheet 3 of 3 Status: (Y) N U

eismic waikdown Checklist (SwC)	
quipment ID No. <u>H21P632</u> Equip. Class 20—Instrumentation and Ctrl. Panel-quipment Description <u>Dedicated Shutdown MCC 72F-4A Local Ctrl. Panel</u>	5
Comments (Additional pages may be added as necessary)	
ote: Per NEI Focus Group response to Frequently Asked Questions (FAQ) dated September 18,2012, a supplemental seismic walkdown was conducted on October 1,2012 to open the panel and visually inspect inside. The supplemental SWC follows this SWC.	14L 1/cc/v1
Seismic Engineer Walkdown PSE-53Qualified  Evaluator #1: Mill P. Lass  Date: 9/5/12	



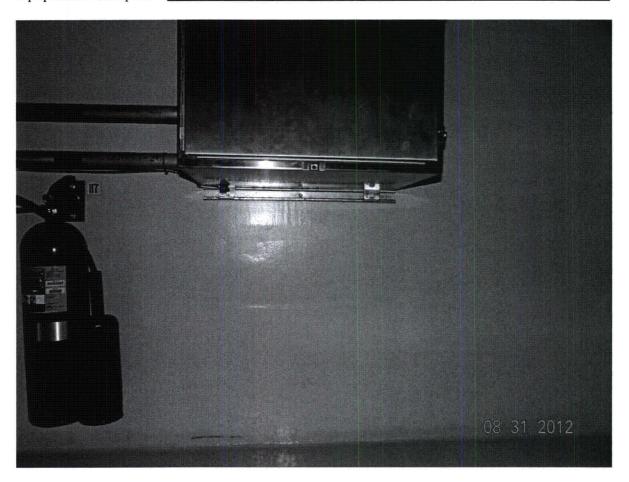
(PICTURE # 11)



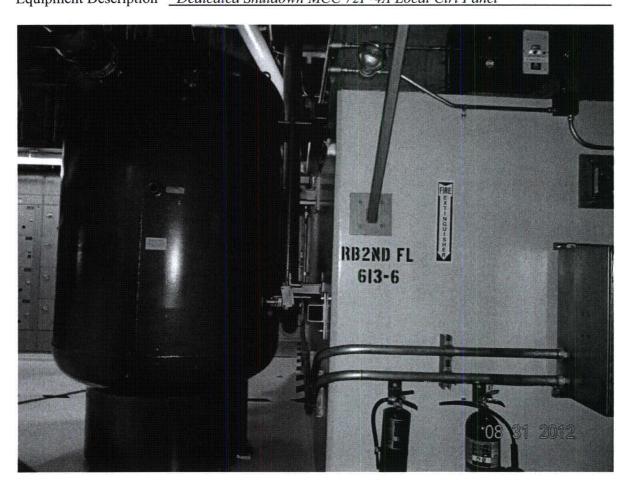
(PICTURE # 13)



(PICTURE # 18)



(PICTURE # 19)



(PICTURE # 21)

NJPR-12-0043

Sheet 1 of 3 Status: (Y) N U

Seismic Walkdown Checklist (SWC)	
[Note: This Walkdown's scope was limited to cabinet internals per 9/18/12 NEI Focus Group response	to Frequently Asked Questions.]
Equipment ID No. H21P632 Equip. Class 20 - Instrument and	Control Panels
Equipment Description <u>Dedicated Shutdown MCC 72F-4A Local Ctrl Panel</u>	
Location: Bldg. RB Floor El. 613'-6" Room, Area: Room A-17,	Col. C-10
Manufacturer, Model, Etc. (optional but recommended) Hoffman	
Instructions for Completing Checklist	
This checklist may be used to document the results of the Seismic Walkdown of SWEL. The space below each of the following questions may be used to record findings. Additional space is provided at the end of this checklist for documenting.	the results of judgments and
Anchorage	
1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?	Y NO
Not applicable. See September 5, 2012, Seismic Walkdown Checklist and comment on page 3 on this checklist dated October 1, 2012.	
2. Is the anchorage free of bent, broken, missing or loose hardware? See above.	XQA\N OU ON OY
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	Y NU UU N/AD
See above.	
4. Is the anchorage free of visible cracks in the concrete near the anchors? See above.	YOU OU OVAX
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.)  See September 5, 2012, Seismic Walkdown Checklist and comment on page 3 on this checklist dated October 1, 2012.	Y NU UU N/A
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	Y NU UU
Not applicable. See September 5, 2012, Seismic Walkdown Check-list and comment on page 3 on this checklist dated October 1, 2012.	

<sup>&</sup>lt;sup>1</sup> Enter the equipment class name from Appendix B: Classes of Equipment

NJPR-12-0043

Sheet 2 of 3 Status: N U

Equipment ID No. <u>H21P632</u> Equip. Class <sup>1</sup> <u>20 – Instrument and Control Panels</u>		
Equipment Description <u>Dedicated Shutdown MCC 72F-4A Loca</u>	l Ctrl Panel	
Interaction Effects		
7. Are soft targets free from impact by nearby equipment or See September 5, 2012, Seismic Walkdown Checklist and page 3 on this checklist dated October 1, 2012.	· · · · · · · · · · · · · · · · · · ·	
<ol> <li>Are overhead equipment, distribution systems, ceiling tile and masonry block walls not likely to collapse onto the eq See above.</li> </ol>		
9. Do attached lines have adequate flexibility to avoid damage See above.	ge? Y N U N N/A	
10. Based on the above seismic interaction evaluations, is equ of potentially adverse seismic interaction effects?  Not applicable. See September 5, 2012, Seismic Walkdow and comment on page 3 on this checklist dated October 1,	on Checklist	
Other Adverse Conditions		
11. Have you looked for and found no other seismic condition adversely affect the safety functions of the equipment?  The door on the instrument panel was opened to permit evadequacy of fasteners securing components mounted inside of the components weighed more than two pounds. No adconditions were identified. See Photos 1, 2 & 3 attached.	valuating the le. Only one	

NJPR-12-0043

Sheet 3 of 3 Status: N U

Seismic Walkdown Checklist (SWC)
[Note: This Walkdown's scope was limited to cabinet internals per 9/18/12 NEI Focus Group response to Frequently Asked Questions.]
Equipment ID No. H21P632 Equip. Class 20 - Instrument and Control Panels
Equipment Description Dedicated Shutdown MCC 72F-4A Local Ctrl Panel
Comments (Additional pages may be added as necessary)  Anchorage and Interaction Effects were evaluated during a September Walkdown and results reported in a Seismic Walkdown Checklist dated September 5, 2012. However, during the September 5 Walkdown, the door on the instrument panel was not opened to afford Seismic Walkdown Engineers an opportunity to inspect anchorage on components inside the panel. A September 18, 2012, NEI Focus Group response to Frequently Asked Questions about opening cabinet doors led to consider increasing the scope of the September 5 Walkdown. Therefore, the scope of this Walkdown included unlocking and opening the panel door and evaluating fasteners securing components mounted inside.
Seismic Engineer Walkdown PSE-53 Qualified  Evaluator #1:

Evaluator #2: Michael P. Dasso Date: 10/01/12

TMPE-12-0294 Appendix C Page C-363

Equipment ID No. <u>H21P632</u> Equipment Class: <u>20 – Instrument and Control Panels</u>

Equipment Description Dedicated Shutdown MCC 72F-4A Local Ctrl Panel

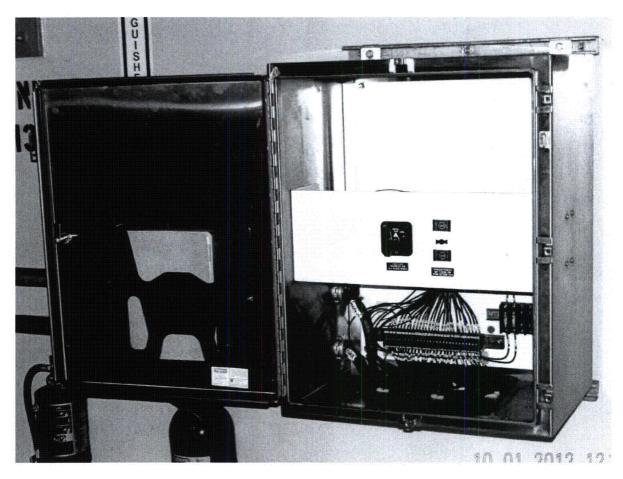


Photo 1, Components Mounted Inside Instrument Panel

Equipment ID No. <u>H21P632</u> Equipment Class: <u>20 – Instrument and Control Panels</u>

Equipment Description <u>Dedicated Shutdown MCC 72F-4A Local Ctrl Panel</u>

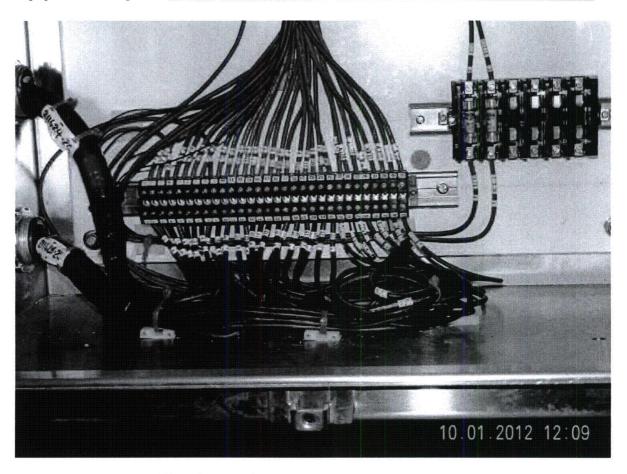


Photo 2, Close-Up of Termination Strips on Panel's Back Mounting Plate

Equipment ID No. <u>H21P632</u> Equipment Class: <u>20 – Instrument and Control Panels</u>

Equipment Description <u>Dedicated Shutdown MCC 72F-4A Local Ctrl Panel</u>

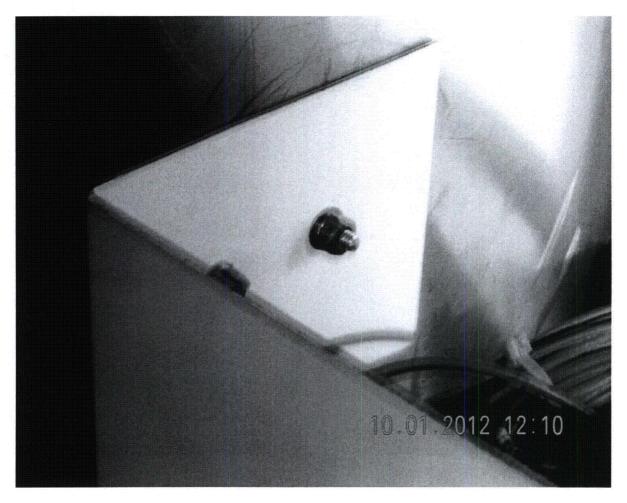


Photo 3, Close-Up of Bolts Supporting Panel's Front Mounting Plate

NJPR-12-0043

Sheet 1 of 3 Status: Y N U

Equipment ID No. <u>P4400B001B</u> Equip. Class <sup>1</sup> <u>21, Tanks and Heat Exchangers</u>		
Equipment Description EECW Div 2 Plate Frame Hx		
Location: Bldg. RB Floor El. 613'-6" Room, Area A-17A, Col. E-9		
Manufacturer, Model, Etc. (optional but recommended) <u>Alfa-Laval, MX25-BFD</u>		
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 the anchorage configuration verification required (i.e., is the item one Y⊠ N□ of the 50% of SWEL items requiring such verification)?		
2. Is the anchorage free of bent, broken, missing or loose hardware?  Anchorage is complete and in good condition.  Y ⋈ N□ U□ N/A□		
3. Is the anchorage free of corrosion that is more than mild surface  Y  N  U  N/A  U  N/A  Oxidation?		
Surface oxidation on some bolts is very minor and acceptable. (see Photos DSC0035 & DSC0043)		
4. Is the anchorage free of visible cracks in the concrete near the anchors? Y∑ N□ U□ N/A□  Anchored to steel plate, no cracks in concrete		
5. Is the anchorage configuration consistent with plant documentation?  (Note: This question only applies if the item is one of the 50% for which anchorage configuration verification is required.)		
Bolt material on Dwg. C-4889, Rev. O, does not match field condition. Initiated CARD # 12-26590 to revise drawing. Per Vendor Dwg. # 32299-1862, Rev 1, bolts, including material, are acceptable.		
6. Based on the above anchorage evaluations, is the anchorage free of Y□ N♥ U□ potentially adverse seismic conditions?		
Anchorage is not consistent with Dwg. C-4889.* Dsk		
· · ·		
* ALL DOCUMENTS REFERENCED (LATEST REVISION) HAUE BEEN		

REVIEWED AND NO APPLICABLE DOSTINGS FOUND. ~ DOK 10/12/12

<sup>&</sup>lt;sup>1</sup> Enter the equipment class name from Appendix B: Classes of Equipment

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Sheet 2 of 3 Status: Y (N) U

Equipment ID No. <u>P4400B001B</u> Equip. Class 21, <u>Tanks and Heat E</u>	xchangers
Equipment Description EECW Div 2 Plate Frame Hx	
Interaction Effects	
7. Are soft targets free from impact by nearby equipment or structures?  None identified. Heat exchanger is not a soft target.	YX NO UO N/AO
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?  No ceiling tiles or masonry block walls. All other equipment is adequately supported.	YM U□ U/A□
9. Do attached lines have adequate flexibility to avoid damage?  Attached lines have adequate flexibility.	YM NO UO N/AO
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?  Equipment is free of potentially adverse seismic interaction.	YX NO UO
Other Adverse Conditions  11. Have you looked for and found no other seismic conditions that could	vX vin tin

11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment?

1/2" ~ 3/4" clearance between heat exchanger and TubeTrack was evaluated and found not to be a concern. Because TubeTrack is well supported and the heat exchanger is rigid, during a seismic event there will not be enough movement to cause the two components to come into contact with each other. See Photos DSC0046 & DSC0048.

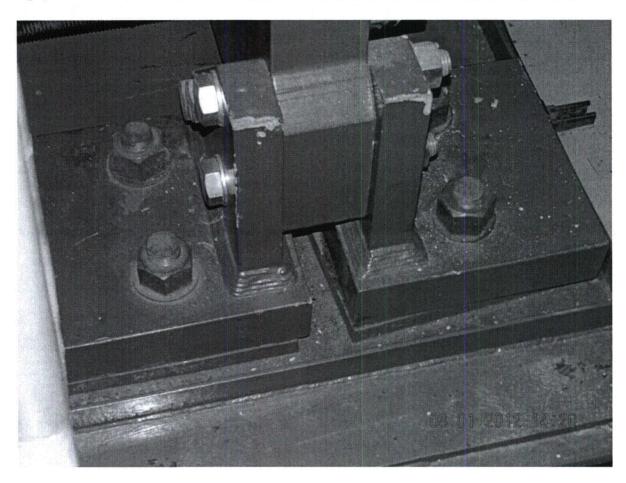
NJPR-12-0043

Sheet 3 of 3 Status: Y N U

12
11

Equipment ID No. <u>P4400B001B</u> Equipment Class: <u>21, Tanks and Heat Exchangers</u>

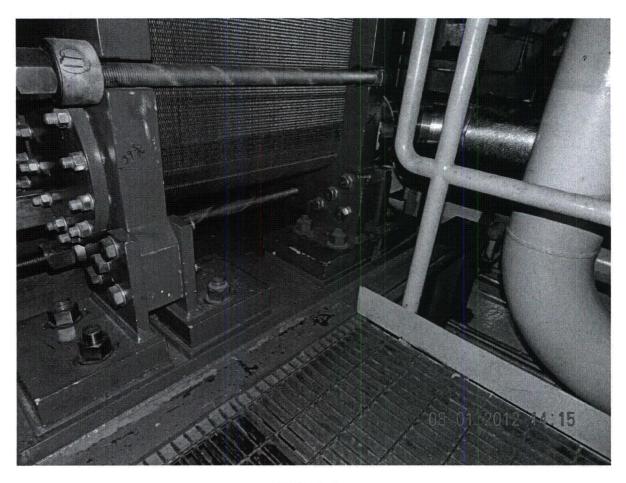
Equipment Description <u>EECW DIV2 Plate Frame HX</u>



"Bolt Configuration"
(DSCN 0043)

Equipment ID No. <u>P4400B001B</u> Equipment Class: <u>21, Tanks and Heat Exchangers</u>

Equipment Description <u>EECW DIV2 Plate Frame HX</u>



(DCSN 0035)

Equipment ID No. <u>P4400B001B</u> Equipment Class: <u>21, Tanks and Heat Exchangers</u>

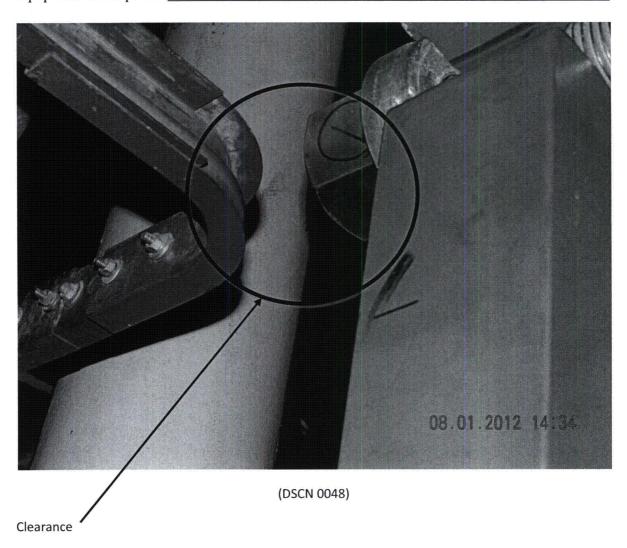
Equipment Description <u>EECW DIV2 Plate Frame HX</u>



(DSCN 0046)

Equipment ID No. <u>P4400B001B</u> Equipment Class: <u>21, Tanks and Heat Exchangers</u>

Equipment Description <u>EECW DIV2 Plate Frame HX</u>



NJPR-12-0043

Sheet 1 of 3 Status: N U

Equipment ID No. P4400B001C Equip. Class 21, Tanks & Heat Exchangers
Equipment Description EECW Div. I Plate Frame Backup Heat Exchanger
Location: Bldg. RB Floor El. 613'-6" Room, Area Room A-17, Col. A-12
Manufacturer, Model, Etc. (optional but recommended) Alfa-Laval, MX25-BFD
Instructions for Completing Checklist  This checklist may be used to document the results of the Seismic Walkdown of an item of equipment on th SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.
Anchorage
1. Is the anchorage configuration verification required (i.e., is the item one Y N□ of the 50% of SWEL items requiring such verification)?
2. Is the anchorage free of bent, broken, missing or loose hardware?  Anchorage is in good condition.  Y  N□ U□ N/A□
3. Is the anchorage free of corrosion that is more than mild surface  Y  N□ U□ N/A□  oxidation?
Some anchorage has mild surface oxidation, see photo DSC 01345.
4. Is the anchorage free of visible cracks in the concrete near the anchors? YX N□ U□ N/A□ No cracks in the concrete.
5. Is the anchorage configuration consistent with plant documentation?  (Note: This question only applies if the item is one of the 50% for which anchorage configuration verification is required.)  YX N□ U□ N/A□  which anchorage configuration verification is required.)
Anchorage configuration is consistent with Dwg C-4888, Rev. A;  Vendor Dwg. 32299 1862, Rev. 1; and Index Items 35556.A002, Rev. 0, & 35556.B003, Rev. 0. NO APPLICABLE POSTINGS WERE FOUND / DJK. AGAINST REFERENCED DOCUMENTS.
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?  The anchorage is free of potentially adverse seismic conditions, see photo DSC 01348

<sup>&</sup>lt;sup>1</sup> Enter the equipment class name from Appendix B: Classes of Equipment

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Sheet 2 of 3 Status: N U

Equipment ID No. P4400B001C Equip. Class 21, Tanks & Heat Ex	changers
Equipment Description <u>EECW Div. I Plate Frame Backup Heat Exchanger</u>	
Interaction Effects	
7. Are soft targets free from impact by nearby equipment or structures?  No soft targets identified on heat exchanger. Nearby piping, conduits are adequately supported.	YM UU N/AU
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?  No ceiling tiles, lighting or masonry block walls over this equipment.  All other commodities are adequately supported.	YK NO UO N/AO
9. Do attached lines have adequate flexibility to avoid damage?  Attached lines to heat exchanger have adequate flexibility.	YX NO UO N/AO
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? The equipment is free of potentially adverse seismic interaction. See photo DSC 01346.	YX NO UO
Other Adverse Conditions	
11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? None identified.	AND NO

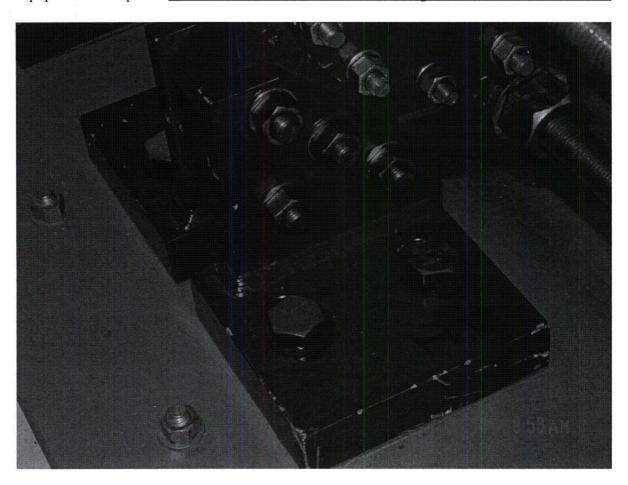
NJPR-12-0043

Sheet 3 of 3 Status: N U

Seismic waikdown Checklist (SwC)	
Equipment ID No. P4400B001C Equip. Class 21, Tanks & Heat	Exchangers
Equipment Description <u>EECW Div. I Plate Frame Backup Heat Exchanger</u>	
Comments (Additional pages may be added as necessary)	
Seismic Engineer Walkdown PSE-53 Qualified	
Evaluator #1: Zomedlag	Date:
Seismic Engineer Walkdown PSE-53 Qualified	1 (
Evaluator #2:	Date: 08   15   12

Equipment ID No. <u>P4400B001C</u> Equipment Class: <u>21, Tanks and Heat Exchangers</u>

Equipment Description <u>EECW Div. I Plate Frame Heat Exchanger</u>

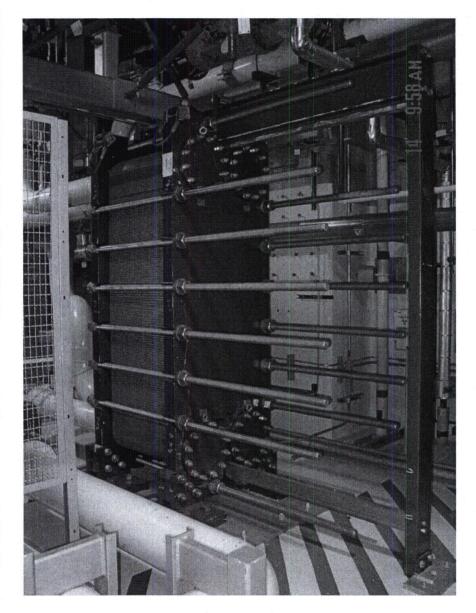


(DSC 01345)

**Bolt Configuration** 

Equipment ID No. <u>P4400B001C</u> Equipment Class: <u>21, Tanks and Heat Exchangers</u>

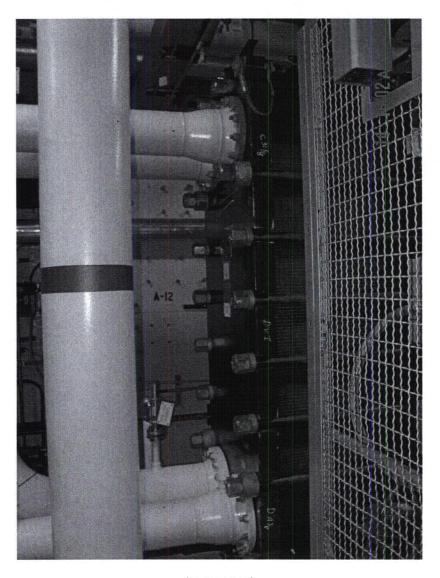
Equipment Description <u>EECW Div. I Plate Frame Heat Exchanger</u>



(DSC 01346)

Equipment ID No. <u>P4400B001C</u> Equipment Class: <u>21, Tanks and Heat Exchangers</u>

Equipment Description <u>EECW Div. I Plate Frame Heat Exchanger</u>



(DSC 01348)

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Sheet 1 of 3 Status: (Y) N U

Seismic Walkdown Checklist (SWC)		
Equipment ID No. P4400C001A Equip. Class 5, Horizontal Pumps		
Equipment Description Emergency Equipment Cooling Water Div. I Pump		
Location: Bldg. RB Floor El. 613'-6" Room, Area A-17, Col. A-	-15	
Manufacturer, Model, Etc. (optional but recommended) Goulds, Model 3410M	<i>(</i>	
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 the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?	AND .	
2. Is the anchorage free of bent, broken, missing or loose hardware?  Anchorage is in good condition.	Y N U U N/A	
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	Y N□ U□ N/A□	
No corrosion is present.		
4. Is the anchorage free of visible cracks in the concrete near the anchors?  No cracks in concrete pad or floor.	YE NO UO N/AO	
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.)  Anchorage configuration is consistent with Dwg. M-2196, Rev. I (no postings); and Calc. DC-3076, Rev. A (postings Vol. II DCD, Rev. 0, and TCEDP 33703.003, Rev. 0).	YE NO UO N/AO	
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?  Anchorage is free of potentially adverse seismic conditions.	YN UD	

<sup>&</sup>lt;sup>1</sup> Enter the equipment class name from Appendix B: Classes of Equipment

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Sheet 2 of 3 Status: N U

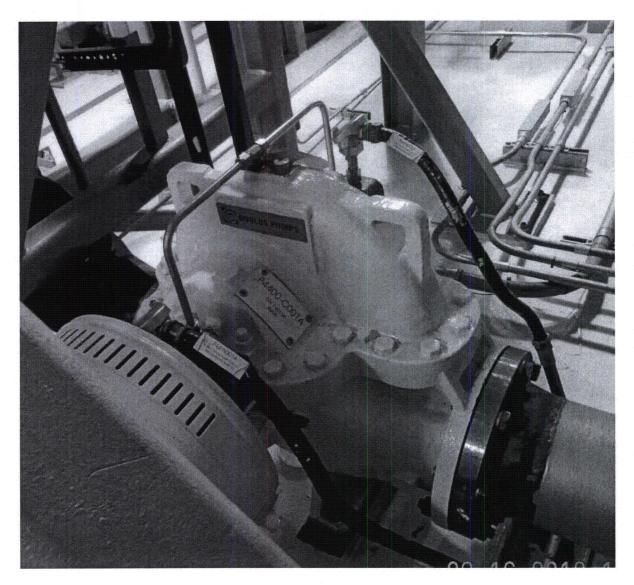
Seismic Walkdown Checklist (SWC)	
Equipment ID No. P4400C001A Equip. Class 5, Horizontal Pumps	
Equipment Description Emergency Equipment Cooling Water Div.I Pump	
Interaction Effects	
7. Are soft targets free from impact by nearby equipment or structures?  Nearby equipment is adequately supported to avoid interaction with the pump as shown in Photo 015.JPG.	YM UD N/AD
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?  No ceiling tiles or block walls. Light is adequately supported.	YM NO UO N/AO
9. Do attached lines have adequate flexibility to avoid damage?  Attached lines have adequate flexibility to avoid damage during seismic event. See Photo 016.JPG for condition of pump's flex hoses.	YM NO UO N/AO
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?  Equipment and adjacent commodities are adequately supported and free of potentially adverse seismic interaction conditions. See Photo 017.JPG for overall view of nearby commodities.	AR NO OO
Other Adverse Conditions	
11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? No other conditions found that could adversely affect equipment safety functions.	YD UD

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Sheet 3 of 3 Status: N U

Seisific Walkdown Officklist (SWO)		
Equipment ID No. P4400C001A	Equip. Class <sup>1</sup> 5, Horizontal Pumps	
Equipment Description Emergency Equipme	ent Cooling Water Div.I Pump	
Comments (Additional pages may be added as	necessary)	
N/A	•	
	·	
💢 Seismic Engineer Walkdow	un PSF-53 Qualified	
Evaluator #1:		e: 8-16-12
Evaluator #1.	Dau	. 0-16-12
-da	DOD 50 0 110 1	
✓ Seismic Engineer Walkdow  Mikh I.		adulh
Evaluator #2:	Date	e: 08/16/12
¥		

Equipment ID No. <u>P4400C001A</u> Equipment Class: <u>5, Horizontal Pumps</u>



(016.JPG)

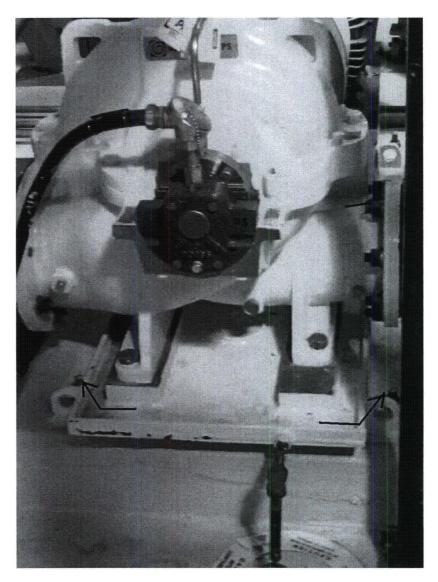
Equipment ID No. <u>P4400C001A</u> Equipment Class: <u>5, Horizontal Pumps</u>

Equipment Description Emergency Equipment Cooling Water DIV 1 Pump



(017.JPG)

Equipment ID No. <u>P4400C001A</u> Equipment Class: <u>5, Horizontal Pumps</u>



(015.JPG, Bolt to Concrete Pad)

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Sheet 1 of 3 Status: N U

Seismic Walkdown Checklist (SWC)		
Equipment ID No. <u>P4400F601B</u> Equip. Class 8, <u>Motor-Operated &amp; S</u>	Solenoid-Operated Valves	
Equipment Description <u>RBCCW Div 2, Rtrn ISO Mov (EL 600'-0")</u>		
Location: Bldg. <u>RB</u> Floor El. <u>583'-6"</u> Room, Area <u>Room A-12</u> , C	Col F-10	
Manufacturer, Model, Etc. (optional but recommended) POWELL 3023WE/Lim	nit Torque SMB-00	
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 the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?	УДИ ПУ	
2. Is the anchorage free of bent, broken, missing or loose hardware?  No bolts to verify. Valve is welded in line with full penetration groove welds.	Y NU UU N/AK	
<ol> <li>Is the anchorage free of corrosion that is more than mild surface oxidation?</li> <li>Mild corrosion (no noticeable loss of cross-section) on one or two bolts securing operator &amp; valve. Other bolts have no corrosion or very light corrosion. (See Photos DSC00385 &amp; 386)</li> </ol>	YX NO UO N/AO	
4. Is the anchorage free of visible cracks in the concrete near the anchors?  See above. (Item #2)	Y OU OU N/AX	
5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which anchorage configuration verification is required.)		
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? No adverse conditions were identified.	YX UD	

<sup>&</sup>lt;sup>1</sup> Enter the equipment class name from Appendix B: Classes of Equipment

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Sheet 2 of 3 Status: N U

Seismic Walkdov	n Checklist	(SWC)
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Equipment ID No. <u>P4400F601B</u> Equip. Class 1 8, <u>Motor-Operated &amp; </u>	Solenoid-Operated Valves	
Equipment Description RBCCW Div 2, Rtrn ISO Mov (EL 600'-0")		
Interaction Effects		
7. Are soft targets free from impact by nearby equipment or structures?  Few soft targets exist and where they do exist, none are near a potential threat.	YM UU N/AU	
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?  No overhead ceiling tiles and no nearby block walls. Lighting is NOT above valve and is well supported. (See Photo DSC00386)	YM OU ON/AO	
9. Do attached lines have adequate flexibility to avoid damage?  Flex hose is connected to the valve operator/motor and has adequate flexibility.	YX NO UO N/AO	
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?  The valve is free of potentially adverse seismic interaction	YX NO UO	
Other Adverse Conditions		

11. Have you looked for and found no other seismic conditions that could YX NO UO adversely affect the safety functions of the equipment? No other conditions identified that could be considered adverse seismic conditions.

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Sheet 3 of 3 Status: (Y), N U

Seismic Walkdown Checklist (SWC)
Equipment ID No. <u>P4400F601B</u> Equip. Class <sup>1</sup> <u>8, Motor-Operated &amp; Solenoid-Operated Valves</u>
Equipment Description RBCCW Div 2, Rtrn ISO Mov (EL 600'-0")
Comments (Additional pages may be added as necessary)  None.
Evaluator #1: Date: 0806/17
Evaluator #1. Date. Ogopic
🛚 Seismic Engineer Walkdown PSE-53 Qualified
Evaluator #2: Date: 8/6/12

Equipment ID No. <u>P4400F601B</u> Equipment Class: <u>8, Motor-Operated & Solenoid-Operated Valves</u>

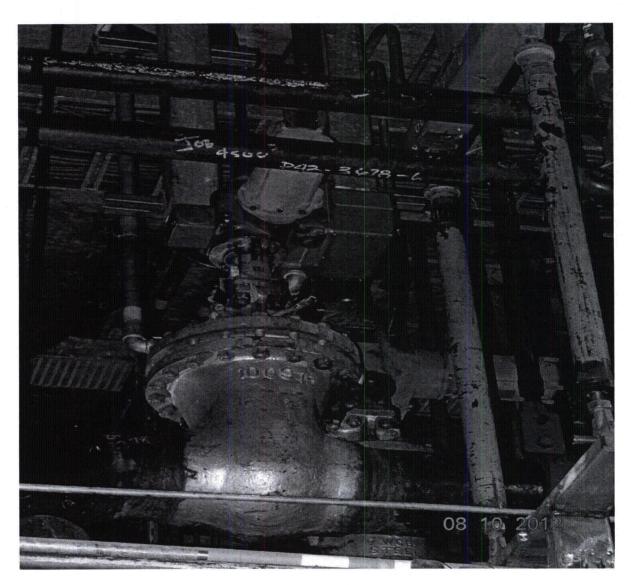
Equipment Description <u>RBCCW DIV2 Return Isolation MOV</u>



(DSC00385)

Equipment ID No. <u>P4400F601B</u> Equipment Class: <u>8, Motor-Operated & Solenoid-Operated Valves</u>

Equipment Description <u>RBCCW DIV2 Return Isolation MOV</u>



(DSC00386)

NJPR-12-0043

Sheet 1 of 3 Status: (Y) N U

Seismic Walkdown Checklist (SWC)	
Equipment ID No. <u>P4400F603B</u> Equip. Class <sup>1</sup> 8, Motor Operated an	nd Solenoid Operated Valves
Equipment Description RBCCW Div. II Supply Isolation MOV	
Location: Bldg. RB Floor El. 583'-6" Room, Area A-12, Col. F	-10
Manufacturer, Model, Etc. (optional but recommended) Powell Gate Valve, 30 SB-0	023 WE; Limitorque Operator
Instructions for Completing Checklist	
This checklist may be used to document the results of the Seismic Walkdown of SWEL. The space below each of the following questions may be used to record findings. Additional space is provided at the end of this checklist for documenting the space is provided at the end of this checklist for documenting the space is provided at the end of this checklist for documenting the space is provided at the end of this checklist for documenting the space is provided at the end of this checklist for documenting the space is provided at the end of this checklist for documenting the space is provided at the end of this checklist for documenting the space is provided at the end of this checklist for documenting the space is provided at the end of this checklist for documenting the space is provided at the end of this checklist for documenting the space is provided at the end of this checklist for documenting the space is provided at the end of this checklist for documenting the space is provided at the end of this checklist for documenting the space is provided at the end of this checklist for documenting the space is provided at the end of this checklist for documenting the space is provided at the end of this checklist for documenting the space is provided at the end of this checklist for the space is provided	the results of judgments and
Anchorage	
1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?	Y□ NX □Y
2. Is the anchorage free of bent, broken, missing or loose hardware?  No bolts to verify, valve is welded in line with full penetration grove welds.	Y OU ON/AX
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	Y OU OU A/A
Mild corrosion on several bolts (no noticeable loss of cross section) securing operator to valve. Other bolts have none or very little corrosion. See Photo DSC00199.	
4. Is the anchorage free of visible cracks in the concrete near the anchors? See response to Question #2, above.	Y OU ON AX
5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which anchorage configuration verification is required.)	Y NU UU N/AX
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	YX NO UO

No adverse conditions were identified.

<sup>&</sup>lt;sup>1</sup> Enter the equipment class name from Appendix B: Classes of Equipment

NJPR-12-0043

Sheet 2 of 3 Status: (Y) N U

# Seismic Walkdown Checklist (SWC)

Equipment ID No. <u>P4400F603B</u> Equip. Class 8, Motor Operated and Solenoid Operated Valves			
Equipment Description RBCCW Div. II Supply Isolation MOV			
Interaction Effects			
7. Are soft targets free from impact by nearby equipment or structures?  No impact sources were identified within striking distance of valve.	YM UU N/AU		
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?  There are no ceiling tiles or lights above this valve. There are no nearby block walls. See Photo DSC 00200.	YX N□ U□ N/A□		
9. Do attached lines have adequate flexibility to avoid damage?  Electrical connections to valve operator have adequate flexibility. See flex conduit in Photo DSC 00199.	Y <b>X</b> N UU N/A		
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	Y <b>⊠</b> N□ U□		
Other Adverse Conditions  11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment?  No other adverse condition were identified that could be considered adverse.	YX NO UO		

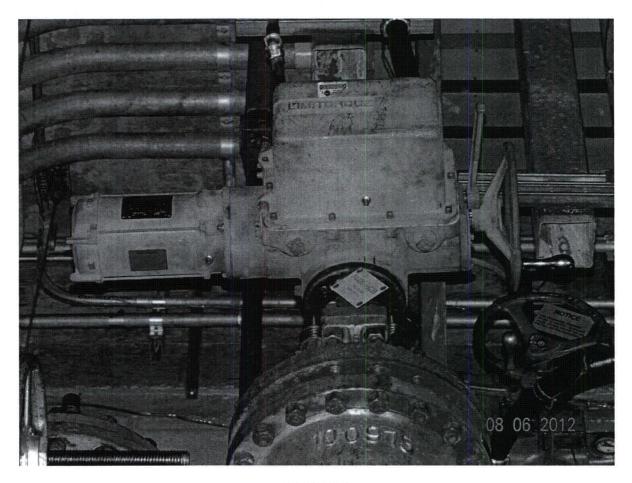
NJPR-12-0043

Sheet 3 of 3 Status: (Y) N U

olenoid Operated Valves
( . )
nte: 08/16/12
ate: <u>8-6-12</u>

Equipment ID No. <u>P4400F603B</u> Equipment Class: <u>8, Motor/Solenoid Operated Valves</u>

Equipment Description <u>RBCCW Div. II Supply Isolation MOV</u>



(DSC00199)

Equipment ID No. <u>P4400F603B</u> Equipment Class: <u>8, Motor/Solenoid Operated Valves</u>

Equipment Description <u>RBCCW Div. II Supply Isolation MOV</u>



(DSC00200)

NJPR-12-0043

Sheet 1 of 3 Status: N U

Seismic Walkdown Checklist (SWC)			
Equipment ID No. <u>P44F400A</u> Equip. Class <sup>1</sup> 7, <u>Pneumatic Operated Valves</u>			
Equipment Description EECW Div I HX Outlet Temp Ctrl AOV (Valve)			
Location: Bldg. RB Floor El. 613'-6" Room, Area Room A-17, Col. B-12			
Manufacturer, Model, Etc. (optional but recommended) <u>Control Components Inc., 100D</u>			
Instructions for Completing Checklist			
This checklist may be used to document the results of the Seismic Walkdown of an item of SWEL. The space below each of the following questions may be used to record the results findings. Additional space is provided at the end of this checklist for documenting other co	of judgments and		
Anchorage			
1. Is the anchorage configuration verification required (i.e., is the item one Y N N of the 50% of SWEL items requiring such verification)?	X .		
2. Is the anchorage free of bent, broken, missing or loose hardware? Y□ N□ No bolts, valve is attached to pipe, not to building structure.	J N□ N/YÞ		
oxidation?	]U□N/A <sup>N</sup> XÍ		
No bolts.			
<ol> <li>Is the anchorage free of visible cracks in the concrete near the anchors? Y□ N□ No bolts.</li> </ol>	] U□ N/Á <b>⊠</b>		
5. Is the anchorage configuration consistent with plant documentation?  (Note: This question only applies if the item is one of the 50% for which anchorage configuration verification is required.)  No bolt configuration requiring verification.	U□ N/A\\		
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?  No anchorage configuration issues identified during Walkdown.	ט עם		

<sup>&</sup>lt;sup>1</sup> Enter the equipment class name from Appendix B: Classes of Equipment

NJPR-12-0043

Sheet 2 of 3 Status: (X) N U

Seismic	waikdown	Checklist	(3440)		

Equipment ID No. <u>P44F400A</u> Equip. Class 1 7, <u>Pneumatic Operated Valves</u>		
Equip	ment Description EECW Div I HX Outlet Temp Ctrl AOV (Valve)	
Intera	ction Effects	
7.	Are soft targets free from impact by nearby equipment or structures? Valve is within the enclosed cage. See Photos DSC 01338 & 01349.	YX NO UO N/AO
8.	Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?  No ceiling tiles, block walls or lighting near this asset.	YM NO UO N/AO
9.	Do attached lines have adequate flexibility to avoid damage?  Attached lines have adequate flexibility. No issues.	Y N U U N/A
10.	Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	YM DU
	Southwest leg of cage is ¼" from pipe containing Valve P44F400A (see Photo 1). Pipe is well-supported to prevent movement toward cage. Since the cage is light and its frame is rigid (2x2x½ structured tubing), 15" above the floor, seismic movement toward the pipe will be negligible. Therefore, clearance is acceptable.	
	Top of cage is %" below tubing on Valve P44F400A (see Photo 2). Tubing is well supported to prevent movement toward cage. Since cage is light and attached to floor with eight anchor bolts, sliding or upward movement during an earthquake is not possible. Therefore, clearance is acceptable.	

### **Other Adverse Conditions**

11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment?

No other seismic conditions found that affect the safety functions of the equipment.

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Sheet 3 of 3 Status: YN U

Seismic Walkdown Checklist (SWC)
Equipment ID No. <u>P44F400A</u> Equip. Class 1 7, <u>Pneumatic Operated Valves</u>
Equipment Description <u>EECW Div I HX Outlet Temp Ctrl AOV (Valve)</u>
Comments (Additional pages may be added as necessary)
Seismic Engineer Walkdown PSE-53 Qualified
Evaluator #1:
2.4
Seismic Engineer Walkdown PSE-53 Qualified
Evaluator #2: Date: 08/15/12.
Date

Equipment ID No. <u>P44F400A</u> Equipment Class: <u>7, Pneumatic Operated Valves</u>

Equipment Description \_EECW Div. I HX Outlet Temp Ctrl AOV (valve)



(DSC 01349)

Equipment ID No. <u>P44F400A</u> Equipment Class: <u>7, Pneumatic Operated Valves</u>

Equipment Description <u>EECW Div. I HX Outlet Temp Ctrl AOV (valve)</u>



(DSC 01338)

Equipment ID No. <u>P44F400A</u> Equipment Class: <u>7, Pneumatic Operated Valves</u>

Equipment Description <u>EECW Div. I HX Outlet Temp Ctrl AOV (valve)</u>

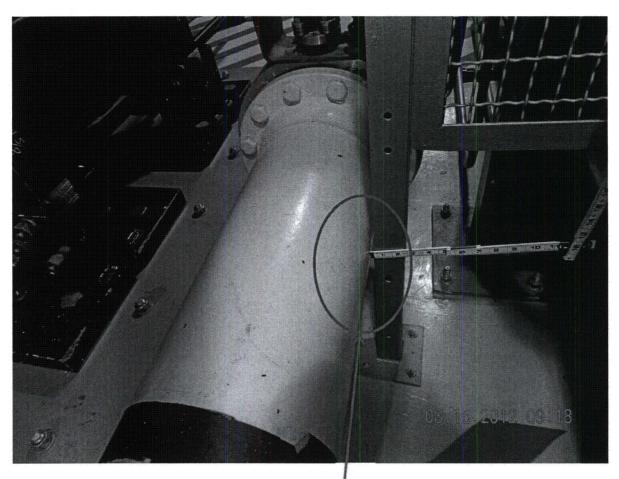


(Photo 2)

**Tubing Close to Cage** 

Equipment ID No. <u>P44F400A</u> Equipment Class: <u>7, Pneumatic Operated Valves</u>

Equipment Description <u>EECW Div. I HX Outlet Temp Ctrl AOV (valve)</u>



(Photo 1)

Pipe Close to Cage

NJPR-12-0043

Sheet 1 of 3 Status: Y (N) U

Seismic Walkdown Checklist (SWC)		
Equipment ID No. P44F402A Equip. Class 7, Pneumatic Operated Valve		
Equipment Description V8-2364 Level Control AOV		
Location: Bldg. <u>RB</u> Floor El. <u>613'-6"</u> Room, Area <u>Room A-17</u> .	Col. A-15	
Manufacturer, Model, Etc. (optional but recommended) Fisher Controls, 667N	VS-ET	
Instructions for Completing Checklist		
This checklist may be used to document the results of the Seismic Walkdown of SWEL. The space below each of the following questions may be used to record findings. Additional space is provided at the end of this checklist for documenting the space is provided at the end of this checklist for documenting the space is provided at the end of this checklist for documenting the space is provided at the end of this checklist for documenting the space is provided at the end of this checklist for documenting the space is provided at the end of this checklist for documenting the space is provided at the end of this checklist for documenting the space is provided at the end of this checklist for documenting the space is provided at the end of this checklist for documenting the space is provided at the end of this checklist for documenting the space is provided at the end of this checklist for documenting the space is provided at the end of this checklist for documenting the space is provided at the end of this checklist for documenting the space is provided at the end of this checklist for documenting the space is provided at the end of this checklist for documenting the space is provided at the end of this checklist for documenting the space is provided at the end of this checklist for the space is provided at the end of this checklist for the space is provided at the end of this checklist for the space is provided at the end of the space is provided at t	the results of judgments and	
Anchorage		
1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?	Y NA	
2. Is the anchorage free of bent, broken, missing or loose hardware?  This equipment is a valve and is secured to piping, not the building structure. See Photo 006.jpg. Bolts securing valve to pipe are in good condition.	YOU OU ON AX	
3. Is the anchorage free of corrosion that is more than mild surface oxidation?  No anchorage.	YO NO UO N/AX	
4. Is the anchorage free of visible cracks in the concrete near the anchors?  No anchorage.	Y UU UN/AX	
5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which anchorage configuration verification is required.) No anchorage configuration verification required.	Y OU ON OY	
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	YM NO UO	

No anchorage evaluation required for air operated valve, however bolts securing valve to pipe are in good condition. See photo

006.jpg.

<sup>&</sup>lt;sup>1</sup> Enter the equipment class name from Appendix B: Classes of Equipment

NJPR-12-0043

Sheet 2 of 3 Status: Y N U

Seismic	Walkdown	Checklist	(SWC)
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Equipment ID No. P44F402A Equip. Class <sup>1</sup> 7, Pneumatic Operated Valve			
Equipment Description <u>V8-2364 Level Control AOV</u>			
Interaction Effects			
7. Are soft targets free from impact by nearby equipment or structures? Valve is surrounded by well-built and well-anchored structures and equipment, i.e., Column A15, EECW make-up tank, and instrument rack H21P447. This equipment and these structures will not impact the valve and function as a protective barrier around the valve.	YM NO UO N/AO		
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?  Overhead light is adequately supported. No ceiling tiles and no block walls within 10'-0" of valve.	YX NO UO N/AO		
<ol> <li>Do attached lines have adequate flexibility to avoid damage?         Attached lines have adequate flexibility.     </li> </ol>	YM UU U/A□		
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	YX NO UO		
Other Adverse Conditions			
11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment?  Unistrut was found to be in close contact with the bottom of valve P4400F122A. See Photo 012.jpg. CARD 12-26921 was initiated to investigate and resolve this matter.	AD NEW DA		

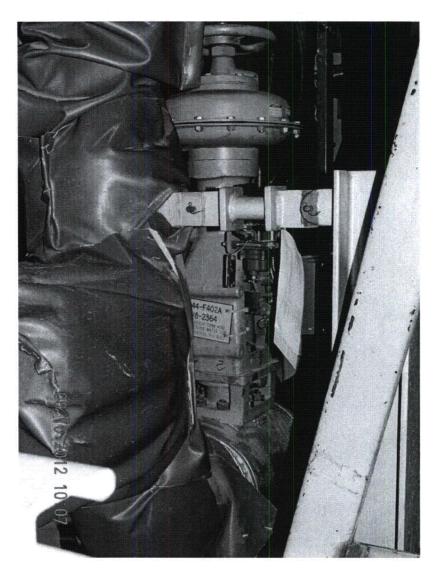
NJPR-12-0043

Sheet 3 of 3 Status: Y (N) U

Seismic Walkdown Checklist (SWC)	
Equipment ID No. P44F402A Equip. Class 1 7, Pneumatic	Operated Valve
Equipment Description <u>V8-2364 Level Control AOV</u>	· · · · · · · · · · · · · · · · · · ·
Comments (Additional pages may be added as necessary)	
Seismic Engineer Walkdown PSE-53 Qualified	
Evaluator #1: Zmuneloy	Date: 8/21/12
,	
Seismic Engineer Walkdown PSE-53 Qualified	
Evaluator #2:	Date: <u>08 21 12</u>
<b>U</b>	•

Equipment ID No. <u>P44F402A</u> Equipment Class: <u>7, Pneumatic Operated Valves</u>

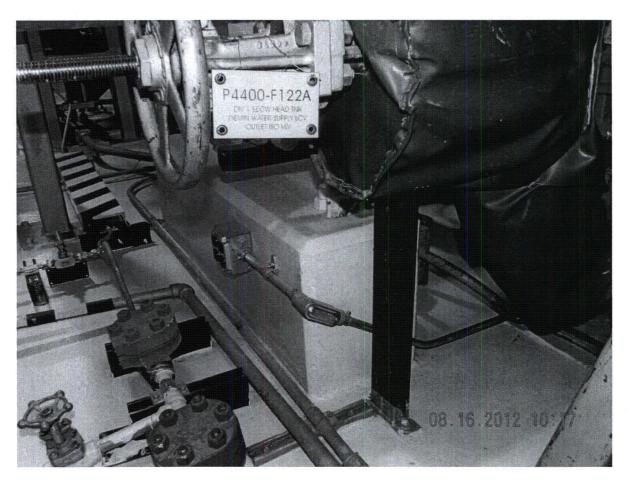
Equipment Description <u>V8-2364 Level Control AOV</u>



(Photo 006.JPG)

Equipment ID No. <u>P44F402A</u> Equipment Class: <u>7, Pneumatic Operated Valves</u>

Equipment Description <u>V8-2364 Level Control AOV</u>



(Photo 012.JPG)

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Sheet 1 of 3 Status: (Y) N U

Seismic Walkdown Checklist (SWC)	
Equipment ID No. <u>P44F402B</u> Equip. Class 1 7, <u>Pneumatic Operator</u>	ed Valves
Equipment Description EECW M/U Tank A002 Div. 2 V8-2362 Lvl Ctrl AOV	
Location: Bldg. <u>RB</u> Floor El. <u>613'-6"</u> Room, Area <u>A-17, Col D-</u>	.9
Manufacturer, Model, Etc. (optional but recommended) Fisher Controls (Actue) & 667NS-ET (	
Instructions for Completing Checklist	
This checklist may be used to document the results of the Seismic Walkdown of SWEL. The space below each of the following questions may be used to record findings. Additional space is provided at the end of this checklist for documenting the space is provided at the end of this checklist for documenting the space is provided at the end of this checklist for documenting the space is provided at the end of this checklist for documenting the space is provided at the end of this checklist for documenting the space is provided at the end of this checklist for documenting the space is provided at the end of this checklist for documenting the space is provided at the end of this checklist for documenting the space is provided at the end of this checklist for documenting the space is provided at the end of this checklist for documenting the space is provided at the end of this checklist for documenting the space is provided at the end of this checklist for documenting the space is provided at the end of this checklist for documenting the space is provided at the end of this checklist for documenting the space is provided at the end of this checklist for documenting the space is provided at the end of this checklist for documenting the space is provided the space is provided to the sp	the results of judgments and
Anchorage	
1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?	AD NX
2. Is the anchorage free of bent, broken, missing or loose hardware?  No anchorage. Valve is attached to piping, not to building structure.	YO NO UO N/AX
<ol> <li>Is the anchorage free of corrosion that is more than mild surface oxidation?</li> <li>No anchorage.</li> </ol>	Y NU UU N/AX
4. Is the anchorage free of visible cracks in the concrete near the anchors?  No anchorage.	Y NU UU N/AX
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.)  Anchorage configuration verification is not required.	YO NO UO N/AX
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?  Though an anchorage evaluation was not required, no adverse anchorage conditions were identified. See Photo DSC 01024	YX NO UO

<sup>&</sup>lt;sup>1</sup> Enter the equipment class name from Appendix B: Classes of Equipment

NJPR-12-0043

Sheet 2 of 3 Status: (Y) N U

Seismic	Walkdown	Checklist (	(SWC)
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Equipment ID No. <u>P44F402B</u> Equip. Class <sup>1</sup> 7, <u>Pneumatic Operate</u>	ed Valves
Equipment Description EECW M/U Tank A002 Div. 2 V8-2362 Lvl Ctrl AOV	
Interaction Effects	
7. Are soft targets free from impact by nearby equipment or structures?  There is no nearby equipment, piping or conduit that could impact the valve.	YX N UU N/AU
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?  HVAC, cable trays, piping, and conduits are adequately supported.  There are no ceiling tiles, lighting or block walls in this area. See Photo DSC 01029.	YM N□ U□ N/A□
9. Do attached lines have adequate flexibility to avoid damage?  Lines attached to the valve have adequate flexibility. See Photo DSC 01022.	Y⊠ N□ U□ N/A□
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	YX NO UO

#### **Other Adverse Conditions**

11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment?

The Seismic Walkdown Team noticed a potential seismic clearance issue between the Div. 2 EECW Head Tank's 4" demin water line and its 2" pressure relief line. It was determined that the line beyond Valve P44F402B @ Elev. 615'-0" (4" demin water shown on Dwg. M-2152) is Group "D". Also, since the 2" dia. line is Group "D", i.e., not safety related, there are no seismic concerns.

Dung M-2152, REU. Y HAS NO POSTINGS - DOK Idializ

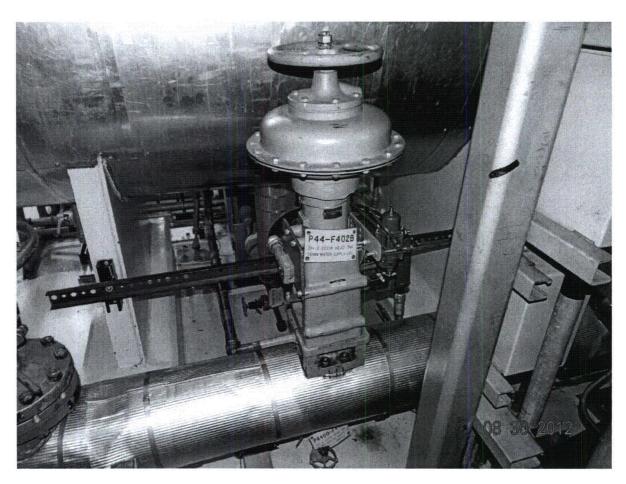
NJPR-12-0043

Sheet 3 of 3 Status: N U

Seismic Walkdown Checklist (SWC)
Equipment ID No. <u>P44F402B</u> Equip. Class <sup>1</sup> 7, <u>Pneumatic Operated Valves</u>
Equipment Description EECW M/U Tank A002 DIV 2 V8-2362 Lvl Ctrl AOV
Comments (Additional pages may be added as necessary)
☐ Seismic Engineer Walkdown PSE-53 Qualified
Evaluator #1: Date: Date:
☑ Şeismic Engineer Walkdown PSE-53 Qualified
Evaluator #2 : 4   Date: 08 3 1/12
Date. Solding.

Equipment ID No. <u>P44F402B</u> Equipment Class: <u>7, Pneumatic Operated Valves</u>

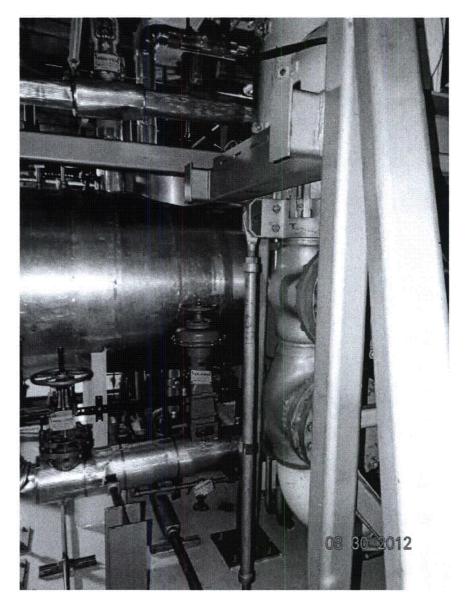
Equipment Description <u>EECW M/U Tank A002 DIV 2 V8-2362 Lvl Ctrl AOV</u>



(DSC 01022)

Equipment ID No. <u>P44F402B</u> Equipment Class: <u>7, Pneumatic Operated Valves</u>

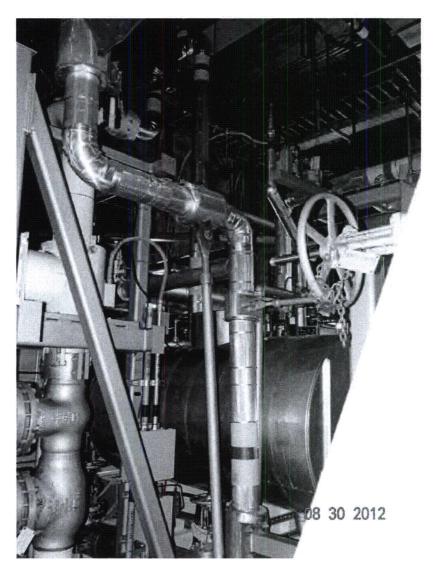
Equipment Description <u>EECW M/U Tank A002 DIV 2 V8-2362 Lvl Ctrl AOV</u>



(DSC 01024)

Equipment ID No. <u>P44F402B</u> Equipment Class: <u>7, Pneumatic Operated Valves</u>

Equipment Description <u>EECW M/U Tank A002 DIV 2 V8-2362 Lvl Ctrl AOV</u>



(DSC 01029)

NJPR-12-0043

Sheet 1 of 3 Status: Y U U

Seismic walkdown Checklist (SWC)	
Equipment ID No. <u>P44K400B</u> Equip. Class 1 <u>0, Transducer</u>	
Equipment Description EECW Div. 2 Pneumatic Converter for Valve F400B	
Location: Bldg. RB Floor El. 613'6" Room, Area Room A-17.	Col. D-10
Manufacturer, Model, Etc. (optional but recommended)	
Instructions for Completing Checklist	
This checklist may be used to document the results of the Seismic Walkdown of SWEL. The space below each of the following questions may be used to record findings. Additional space is provided at the end of this checklist for documenting the space is provided at the end of this checklist for documenting the space is provided at the end of this checklist for documenting the space is provided at the end of this checklist for documenting the space is provided at the end of this checklist for documenting the space is provided at the end of this checklist for documenting the space is provided at the end of this checklist for documenting the space is provided at the end of this checklist for documenting the space is provided at the end of this checklist for documenting the space is provided at the end of this checklist for documenting the space is provided at the end of this checklist for documenting the space is provided at the end of this checklist for documenting the space is provided at the end of this checklist for documenting the space is provided at the end of this checklist for documenting the space is provided at the end of this checklist for documenting the space is provided at the end of this checklist for documenting the space is provided at the end of this checklist for the space is provided at the end of this checklist for the space is provided at the end of this checklist for the space is provided at the end of the space is provided at the end of this checklist for the space is provided at the end of the spa	the results of judgments and
Anchorage	
1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?	AD NIX
This asset is not bolted to a building structure. It is bolted to Instrument Rack H21P448 which is anchored to the Reactor Building floor.  Anchorage of the rack is evaluated in a separate Walkdown Checklist.	÷.
<ol> <li>Is the anchorage free of bent, broken, missing or loose hardware?</li> <li>Bolts are in good condition. See Photo DSC 00285.</li> </ol>	YX NO UO N/AO
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	YM NO UO N/AO
There are no corrosion issues.	
4. Is the anchorage free of visible cracks in the concrete near the anchors?  The transducer is bolted to an instrument rack, not concrete.	AD NO NO NYADA
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.)	YX NO UO N/AO
Though anchorage configuration verification was not required, the transducer was determined to be bolted to the instrument rack in accordance with Dwg. I-2516-15, Rev. E, no postings (see Photo DSC 00285).	
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	Ala no no
No adverse seismic conditions were identified.	

<sup>&</sup>lt;sup>1</sup> Enter the equipment class name from Appendix B: Classes of Equipment

NJPR-12-0043

Sheet 2 of 3 Status: Y U

Equipment ID No. <u>P44K400B</u> Equip. Class 1_0, <u>Transducer</u>	
Equipment Description <u>EECW Div. 2 Pneumatic Converter for Valve F400B</u>	
Interaction Effects	
7. Are soft targets free from impact by nearby equipment or structures?  No nearby structures. Nearby equipment is well-secured and not considered a threat.	YM NO UO N/AO
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?  Lighting conduit mounted on a concrete beam above the transducer is not secured at 8'-0" intervals as required by plant drawings. See Photo DSC00296. CARD 12-26852 was initiated.	Y UU N/AU
9. Do attached lines have adequate flexibility to avoid damage?  Flex hoses and instrument tubing has adequate flexibility.	YZ NO UO N/AO
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?  Lighting conduct is not adequately supported.  See Question 8 above. Mills 10/24/12.	Y D NX UD
Other Adverse Conditions	
11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment?  None identified.	On On Xax

NJPR-12-0043

Sheet 3 of 3 Status: Y U U

Seismic Walkdown Checklist (SWC)	
Equipment ID No. <u>P44K400B</u> Equip. Class 1 <u>0, Transducer</u>	
Equipment Description <u>EECW Div. 2 Pneumatic Converter for Valve F400B</u>	_
Comments (Additional pages may be added as necessary)	
For seismic evaluation of surrounding area, see Area Walk-By Checklist for Asset H21P448.	
	_
X Seismic Engineer Walkdown PSE-53 Qualified	
Evaluator #1: Date: 8/8/12	
Sejsmic Engineer Walkdown PSE-53 Qualified	
Evaluator #2 : Date: 08/08/12	_
/ · · //	

Equipment ID No. <u>P44K400B</u> Equipment Class: <u>0, Transducer</u>

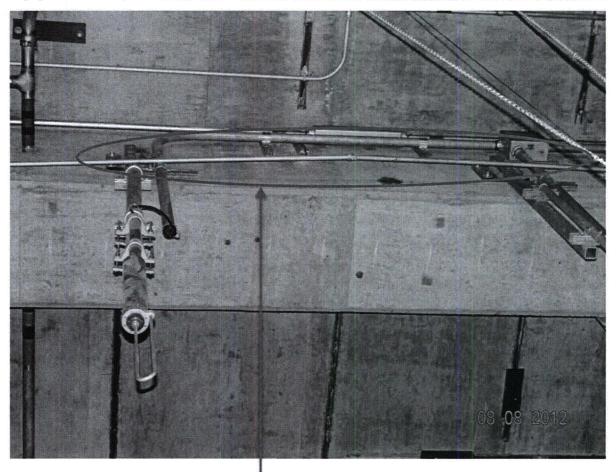
Equipment Description <u>EECW DIV 2 Pneumatic Converter for Valve F400B</u>



(DSC 00285)

Equipment ID No. <u>P44K400B</u> Equipment Class: <u>0, Transducer</u>

Equipment Description <u>EECW DIV 2 Pneumatic Converter for Valve F400B</u>



(DSC 00296)

Conduit "Unsupported"

NJPR-12-0043

Sheet 1 of 3 Status: N U

Seismic Walkdown Checklist (SWC)	
Equipment ID No. <u>P44N401A</u> Equip. Class 1 19, Temperature Sens	sors
Equipment Description <u>EECW HX B001A/B001C Rtrn T/C (Thermocouple)</u>	****
Location: Bldg. RB Floor El. 613'-6" Room, Area Room A-17.	Col A-12
Manufacturer, Model, Etc. (optional but recommended) Pyco Inc., 102-3171-2	0-3.8-10.4
Instructions for Completing Checklist	
This checklist may be used to document the results of the Seismic Walkdown of SWEL. The space below each of the following questions may be used to record findings. Additional space is provided at the end of this checklist for documenting the space is provided at the end of this checklist for documenting the space is provided at the end of this checklist for documenting the space is provided at the end of this checklist for documenting the space is provided at the end of this checklist for documenting the space is provided at the end of this checklist for documenting the space is provided at the end of this checklist for documenting the space is provided at the end of this checklist for documenting the space is provided at the end of this checklist for documenting the space is provided at the end of this checklist for documenting the space is provided at the end of this checklist for documenting the space is provided at the end of this checklist for documenting the space is provided at the end of this checklist for documenting the space is provided at the end of this checklist for documenting the space is provided at the end of this checklist for documenting the space is provided at the end of this checklist for documenting the space is provided at the end of this checklist for the space is provided at the end of this checklist for the space is provided at the end of this checklist for the space is provided at the end of the space is provided at t	the results of judgments and
Anchorage	
1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?	YO NX
2. Is the anchorage free of bent, broken, missing or loose hardware? Sensor is welded to pipe line and decoupled from conduit with a flex connection (see Photo 003). Pipe line anchorage was evaluated during an Area Walk-by.	MANN OU ON OY
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	Y NU UU N/AX
No anchorage.	
4. Is the anchorage free of visible cracks in the concrete near the anchors? <i>No anchorage</i> .	Y UU UKAX
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.) No anchorage configuration verification required.	Y N U N/AX
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? No anchorage evaluation required; however, no adverse findings were identified.	YX NO UO

<sup>&</sup>lt;sup>1</sup> Enter the equipment class name from Appendix B: Classes of Equipment

NJPR-12-0043

Sheet 2 of 3 Status: (Y) N U

Equipment ID No. <u>P44N401A</u> Equip. Class 1 <u>19, Temperature Sensors</u>	
Equipment Description <u>EECW HX B001A/B001C Rtrn T/C (Thermocouple)</u>	
Interaction Effects	
7. Are soft targets free from impact by nearby equipment or structures? No overhead objects are nearby that could impact the sensor (see Photo 004). Strut and pipe in photo are closest objects and well supported.	YX NO UO N/AO
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?  No ceiling tiles, lighting or masonry block walls. All other systems are adequately supported (see Photo 005).	Y <b>⊠</b> N□ U□ N/A□
9. Do attached lines have adequate flexibility to avoid damage?  Conduit lines attached to thermocouple have adequate flexibility.	Y <b>X</b> ND UD N/AD
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	Y⊠ N□ U□
Other Adverse Conditions	
11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment?  None identified.	YX NO UO

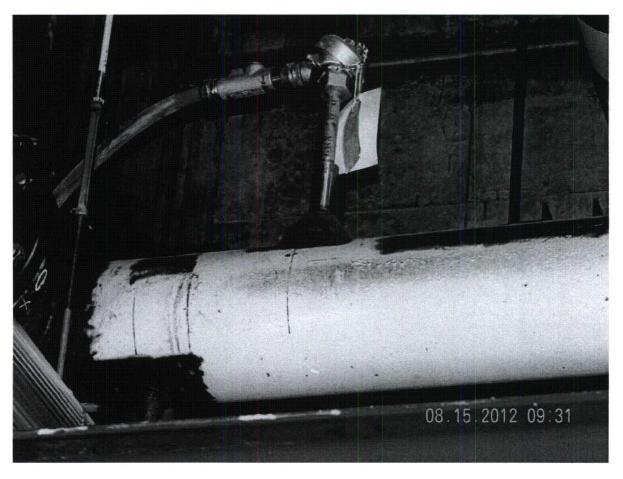
NJPR-12-0043

Sheet 3 of 3 Status: (Y) N U

Seismic waikdown Checklist (SWC)	
Equipment ID No. <u>P44N401A</u> Equip. Class 1 19, Temperature S	ensors
Equipment Description <u>EECW HX B001A/B001C Rtrn T/C (Thermocouple)</u>	***
Comments (Additional pages may be added as necessary)	
None.	
🛛 Seismic Engineer Walkdown PSE-53 Qualified	
Evaluator #1: Pomochorf	Date: 8   15   12
Seismic Engineer Walkdown PSE-53 Qualified	
Evaluator #2 :	Date: 08/15/12

Equipment ID No. <u>P44N401A</u> Equipment Class: <u>19, Temperature Sensors</u>

Equipment Description <u>EECW HX B001A/B001C Rtrn T/C (Thermocouple)</u>

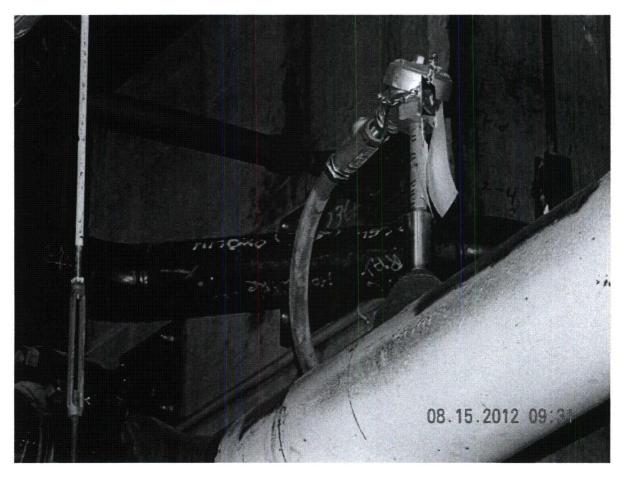


(Photo 003)

"Thermocouple"

Equipment ID No. <u>P44N401A</u> Equipment Class: <u>19, Temperature Sensors</u>

Equipment Description <u>EECW HX B001A/B001C Rtrn T/C (Thermocouple)</u>



(Photo 004)

Equipment ID No. <u>P44N401A</u> Equipment Class: <u>19, Temperature Sensors</u>

Equipment Description <u>EECW HX B001A/B001C Rtrn T/C (Thermocouple)</u>



(Photo 005)

"Overview Area"

NJPR-12-0043

Sheet 1 of 3 Status: (Y) N U

Seismic Walkdown Checklist (SWC)
Equipment ID No. <u>P44P403A</u> Equip. Class <sup>1</sup> <u>O, Other</u>
Equipment Description N <sub>2</sub> Supply Tank Storage Rack
Location: Bldg. RB Floor El. 613'-6" Room, Area: Room A-17, Col. B-13
Manufacturer, Model, Etc. (optional but recommended) DECO, N/A
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 the anchorage configuration verification required (i.e., is the item one YX N□ of the 50% of SWEL items requiring such verification)?
2. Is the anchorage free of bent, broken, missing or loose hardware?  All anchorage is in good condition.  Y☐ N☐ U☐ N/A☐
3. Is the anchorage free of corrosion that is more than mild surface oxidation?  No corrosion is present on anchorage.  Y N□ U□ N/A□
4. Is the anchorage free of visible cracks in the concrete near the anchors? Y N U N/A No cracks in concrete.
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.)  Y N□ U□ N/A□  N/A□
Anchorage configuration is consistent with Dwg. I-2443-01, Rev. A(No POSTINGS);   DSK 101212 Calc. DC-5757 Vol. I, Rev. 0, Appendix 5; and Index Item 30844.B046 Rev. 0. See Photos 005.jpg & 015.jpg.
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?  Y  N□ U□

<sup>&</sup>lt;sup>1</sup> Enter the equipment class name from Appendix B: Classes of Equipment

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Sheet 2 of 3 Status: (Y) N U

Seismic	Walkdown	Checklist (	(SWC)
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Equipment ID No. <u>P44P403A</u> Equip. Class O, Other	
Equipment Description N <sub>2</sub> Supply Tank Storage Rack	
Interaction Effects	
7. Are soft targets free from impact by nearby equipment or structures? Since nearby equipment and piping is well supported, the possibility of the rack's soft targets being impacted is not a concern.	YX NO UO N/AO
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?  No ceiling tiles or masonry block walls are in area. Lights are securely supported.	YX NO UO N/AO
9. Do attached lines have adequate flexibility to avoid damage?  Since attached lines have adequate flexibility, seismic interaction is not a concern (see Photo 004.jpg).	YX NO UO N/AO
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Storage rack is free of potentially adverse seismic interaction effects due to adequate supports and flexibility of attached lines.	YY NO UO
Other Adverse Conditions  11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment?	Dn Du Kak

The  $N_2$  tanks are tied off to the rack's structural frame. No adverse

seismic conditions identified.