NJPR-12-0043

Missing Seismic Walkdown Checklist (SWC)

Sheet 1 of 3 Status: Y (N) U

	· · ·		
Equipment ID No. <u>T4100B009</u> Equip. Class 11, Chillers			
Equipment Description CCHVAC North Div 1 Air Conditioner Chiller	· · · · · · · · · · · ·		
Location: Bldg. AB Floor El. 677 - 6" Room, Area HVAC Equip.	Room (B-2	27A)	
Manufacturer, Model, Etc. (optional but recommended) <u>Trane Model C5-BF3-</u>	BV3		<u>.</u>
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 questionsmay be used to record the 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 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 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	ne results of	f judgments	
Anchorage			
1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?	YØ NO	**	
All bolts visible.	*		e Audio
2. Is the anchorage free of bent, broken, missing or loose hardware?	YO NX	U N/A[i .
All bolts installed properly. Missing spring isolator bolt at SE spring isolator; See CARD 12-28245 for action. See photos DSCN0558-0569 and DSCN0576-0579.			
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	YE N	U N/A[_
Bolts are clean with no corrosion. Chiller isolators exhibit some rusting. The corrosion is mild and will not impact seismic performance. See CARD 12-28246 for action. See Photo DSCN0571.			•
4. Is the anchorage free of visible cracks in the concrete near the anchors? No visible cracks observed in the concrete.	Y⊠ N□	U□ N/A[
5. Is the anchorage configuration consistent with plant documentation?(Note: This question only applies if the item is one of the 50% for which ananchorage configuration verification is required.)	Y ND	U□ N/A[J
Anchorage is consistent with drawing M-4007. Missing spring isolator bolt at SE spring isolator (See question No. 2)			
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	Y NE	U	
The missing spring isolator bolt and questionable clearance at spring isolators are potentially adverse seismic conditions. Refer to CARDs 12-28245 and 12-28393 for resolution of the conditions.			
	٠		

¹Enter the equipment class name from Appendix B: Classes of Equipment

JML

NJPR-12-0043

Sheet 2 of 3 Status: Y N U

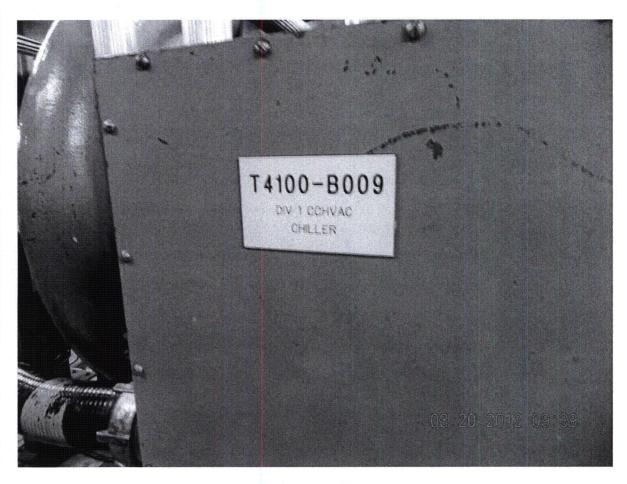
Missing Seismic Walkdown Checklist (SWC)					
Equipment ID No. <u>T4100B009</u> Equip. Class 11, <u>Chillers</u>	•. • •	·.	<u> </u>		
Equipment Description CCHVAC North Div 1 Air Conditioner Chiller	<u></u>	÷			
Interaction Effects	, . ··		in the second		ţ.
7. Are soft targets free from impact by nearby equipment or structures?	YZ	N□	U	N/A□	, .e.,
Area is congested, but all equipment, conduit, cable tray and tube track are seismically mounted.					
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	Y⊠	N	ט_	N/A	٠,
No ceiling tiles, Lights hung on chains and redundant cable. Block wall is seismically reinforced.	*.	. •		, , ,	
9. Do attached lines have adequate flexibility to avoid damage? All pipes, conduit and instrument tubing have adequate flexibility.	Y⊠	N□	U	N/A	
		٠ -		talletti e.	
		,	75	•	
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	ΥØ	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?	Υ□	NM	U	÷ .	
Isolator clearance at some locations appears insufficient. Minimum clearances are not specified on the drawings or vendor documents. See CARD 12-28393 for action. See Photo DSCN0574.	. *				

NJPR-12-0043

Sheet 3 of 3 Status: N U

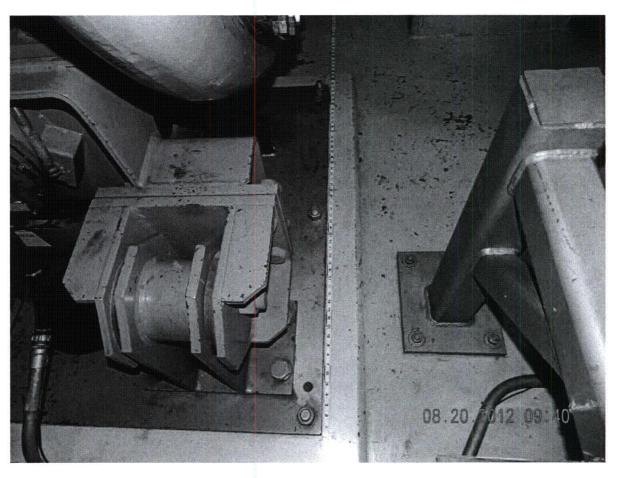
Seismic Walkdown Checklist (SWC)	80/18/12-
Equipment ID No. 741008009 Equip. Class 1 11 - CHILLERS	
Equipment Description CC HVAC NORTH DIV 1. AIR CONDITIONER CAILLER.	
Comments (Additional pages may be added as necessary)	
·	
Seismic Engineer Walkdown PSE-53Qualified	
Evaluator #1: Dand & Diekeni Date: 8/20/2012	
☑ Seismic Engineer Walkdown PSE-53Qualified	
Evaluator #2: Oseph Malke Date: 08/20/	1012

Equipment ID No. <u>T4100B009</u> Equipment Class: <u>11, Chillers</u>



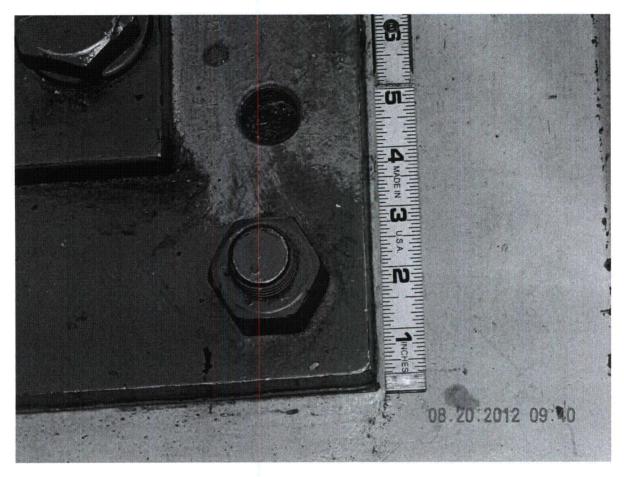
(DSCN0558)

Equipment ID No. <u>T4100B009</u> Equipment Class: <u>11, Chillers</u>



(DSCN0559)

Equipment ID No. <u>T4100B009</u> Equipment Class: <u>11, Chillers</u>



(DSCN0560)

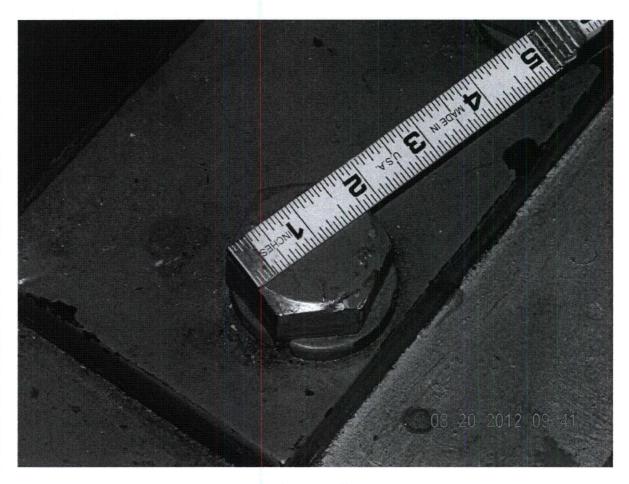
Equipment ID No. <u>T4100B009</u> Equipment Class: <u>11, Chillers</u>

Equipment Description <u>CCHVAC North Div 1 Air Conditioner Chiller</u>



(DSCN0561)

Equipment ID No. <u>T4100B009</u> Equipment Class: <u>11, Chillers</u>



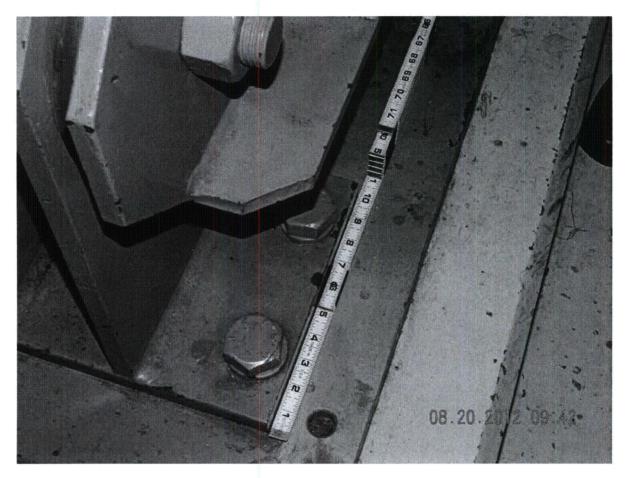
(DSCN0562)

Equipment ID No. <u>T4100B009</u> Equipment Class: <u>11, Chillers</u>



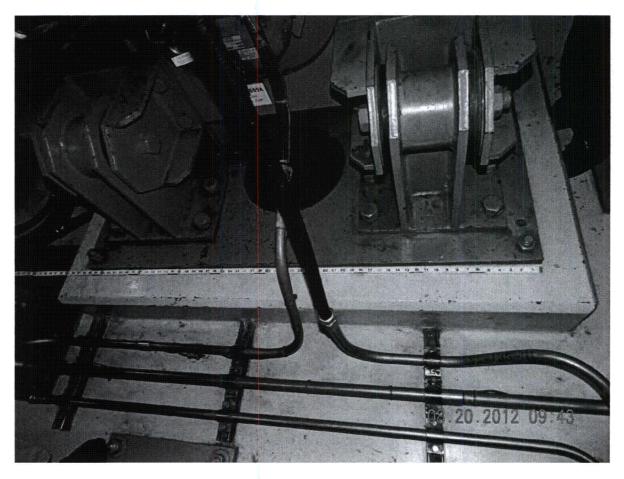
(DSCN0563)

Equipment ID No. <u>T4100B009</u> Equipment Class: <u>11, Chillers</u>



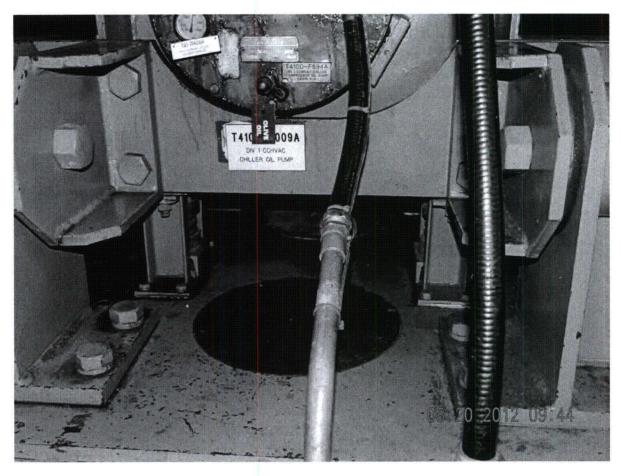
(DSCN0564)

Equipment ID No. <u>T4100B009</u> Equipment Class: <u>11, Chillers</u>



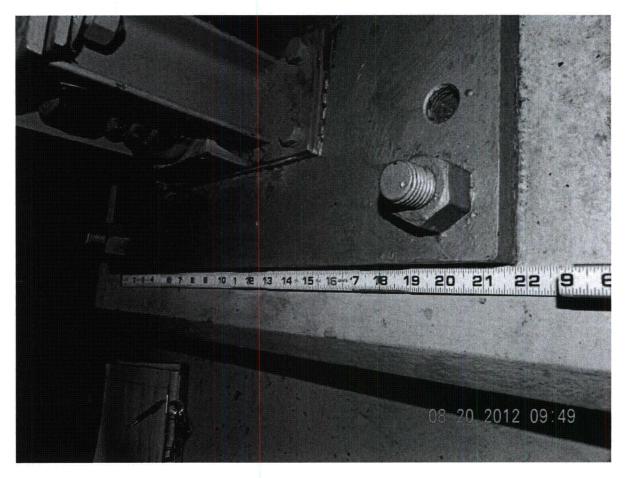
(DSCN0565)

Equipment ID No. <u>T4100B009</u> Equipment Class: <u>11, Chillers</u>



(DSCN0566)

Equipment ID No. <u>T4100B009</u> Equipment Class: <u>11, Chillers</u>



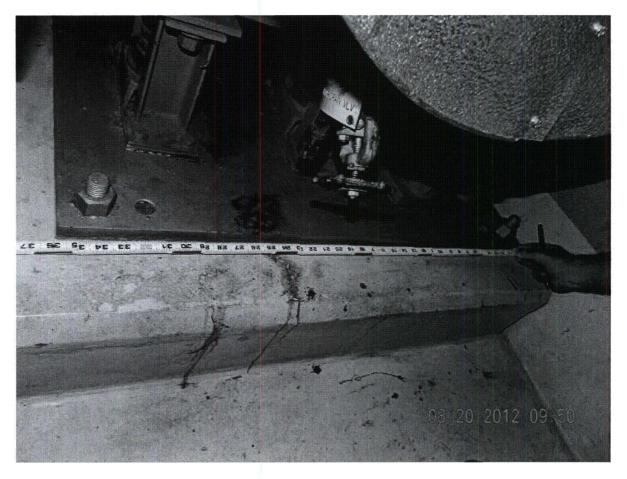
(DSCN0567)

Equipment ID No. <u>T4100B009</u> Equipment Class: <u>11, Chillers</u>



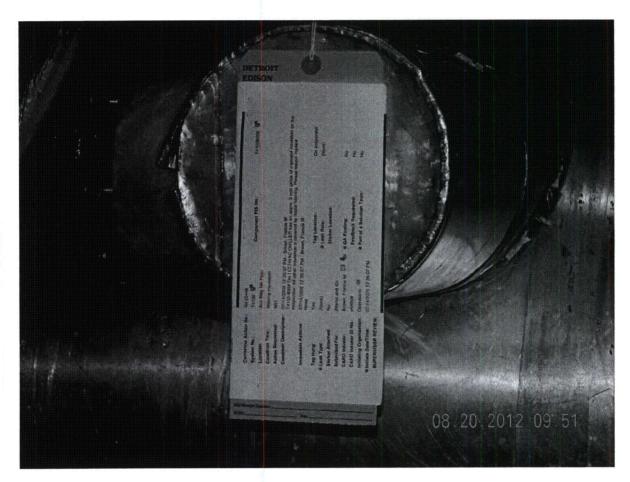
(DSCN0568)

Equipment ID No. <u>T4100B009</u> Equipment Class: <u>11, Chillers</u>



(DSCN0569)

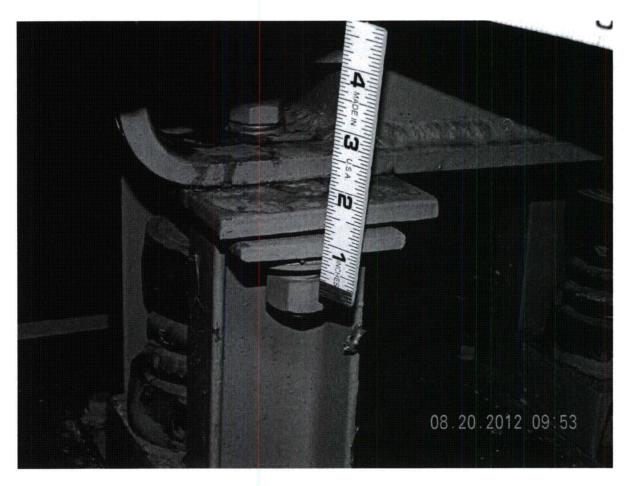
Equipment ID No. <u>T4100B009</u> Equipment Class: <u>11, Chillers</u>



(DSCN0570)

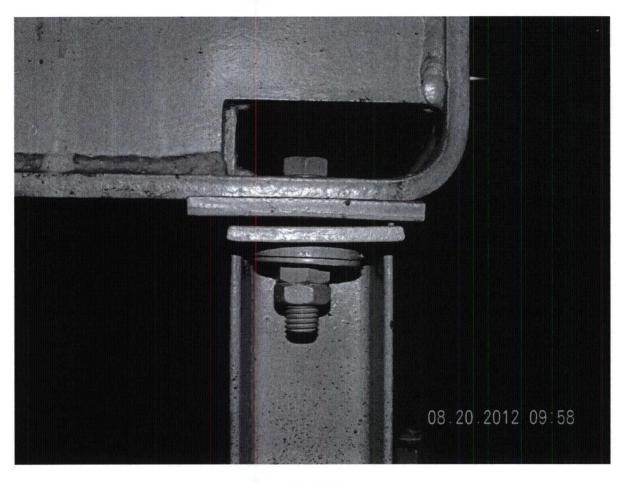
Equipment ID No. <u>T4100B009</u> Equipment Class: <u>11, Chillers</u>

Equipment Description <u>CCHVAC North Div 1 Air Conditioner Chiller</u>



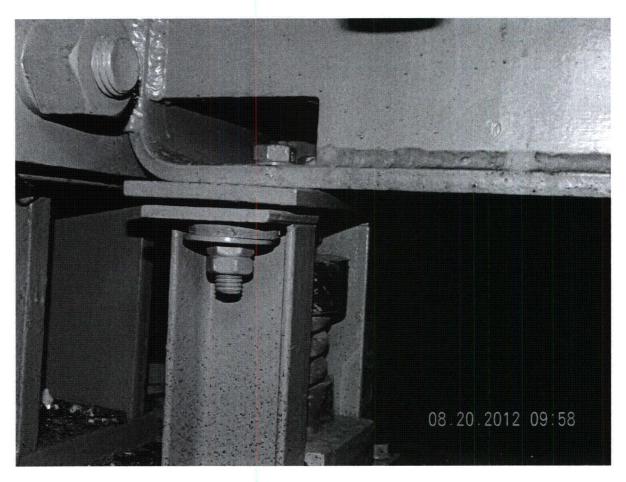
(DSCN0571)

Equipment ID No. <u>T4100B009</u> Equipment Class: <u>11, Chillers</u>



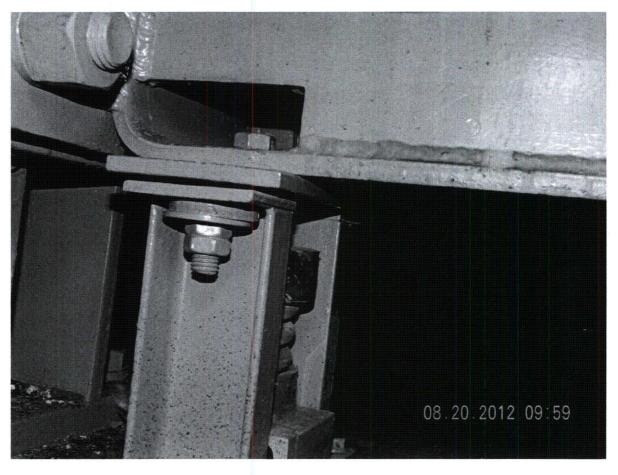
(DSCN0572)

Equipment ID No. <u>T4100B009</u> Equipment Class: <u>11, Chillers</u>



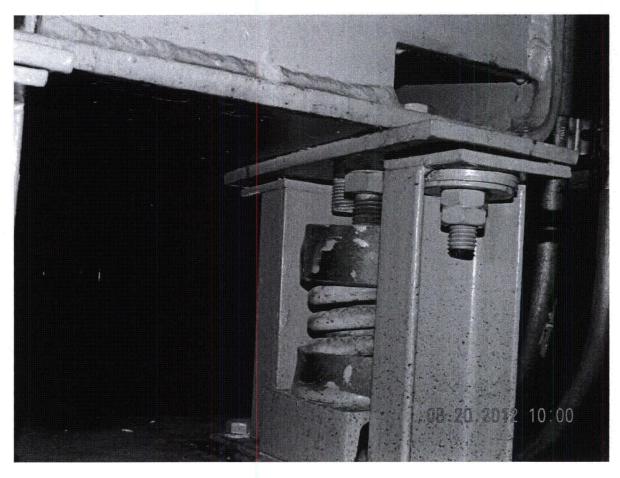
(DSCN0573)

Equipment ID No. <u>T4100B009</u> Equipment Class: <u>11, Chillers</u>



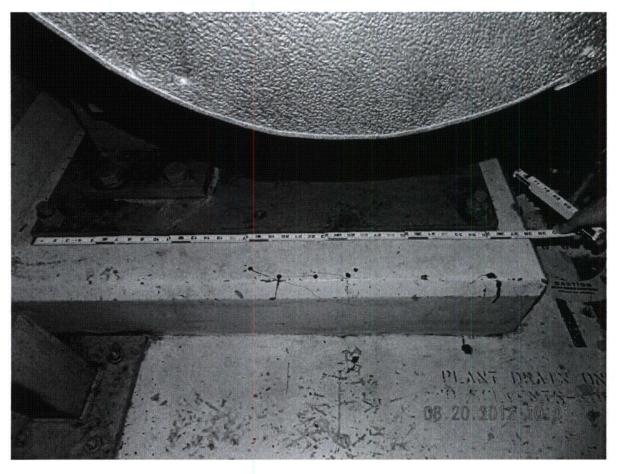
(DSCN0574)

Equipment ID No. <u>T4100B009</u> Equipment Class: <u>11, Chillers</u>



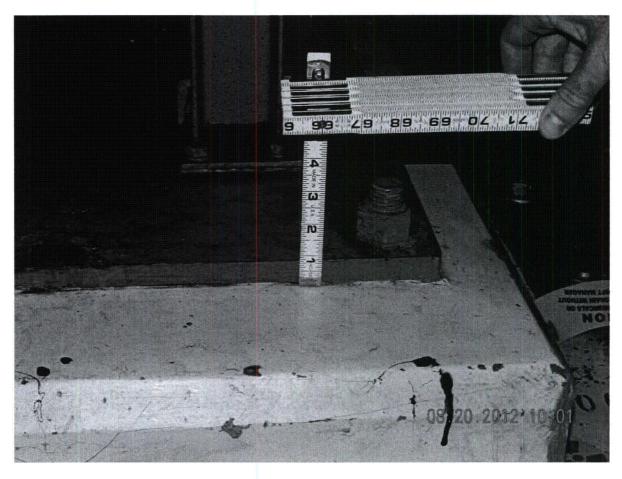
(DSCN0575)

Equipment ID No. <u>T4100B009</u> Equipment Class: <u>11, Chillers</u>



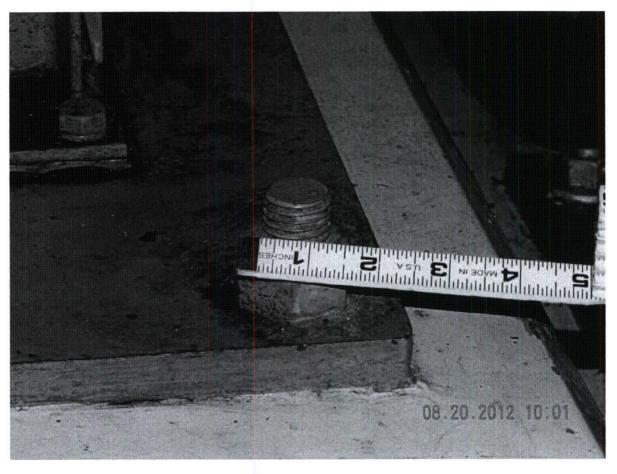
(DSCN0576)

Equipment ID No. <u>T4100B009</u> Equipment Class: <u>11, Chillers</u>



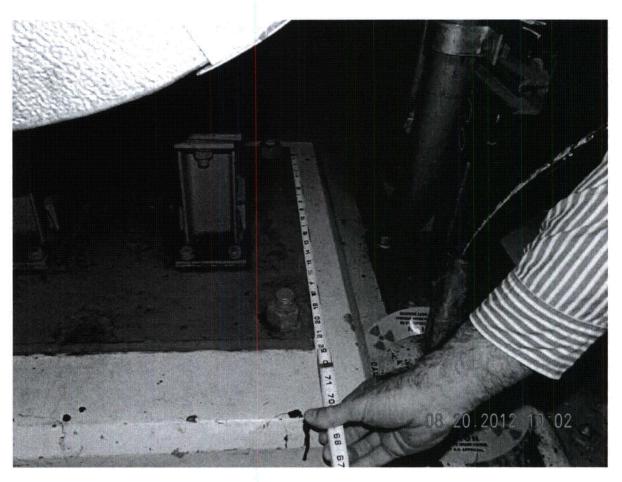
(DSCN0577)

Equipment ID No. <u>T4100B009</u> Equipment Class: <u>11, Chillers</u>



(DSCN0578)

Equipment ID No. <u>T4100B009</u> Equipment Class: <u>11, Chillers</u>



(DSCN0579)

NJPR-12-0043

Sheet 1 of 3 Status: (Y) N U

Seismic Walkdown Checklist (SWC)	
Equipment ID No. <u>T4100B035</u> Equip. Class 1 10 – Air Handlers	
Equipment Description RB HVAC EECW Pmp Rm Cooler Unit	
Location: Bldg. RB Floor El. 613'-6" Room, Area A-17A, Col. A	E-10
Manufacturer, Model, Etc. (optional but recommended) <u>AEROFIN CORP. TY</u>	PE W COIL LEFT HAND
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 the space is provided the space is provid	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⊠ N□
2. Is the anchorage free of bent, broken, missing or loose hardware? All bolts present and in good condition. See Photo DSC01025 for example of condition.	YK NO UO N/AO
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	AM UN UN WAD
Bolts are painted. No corrosion evident. (See Photos DSC00304 & 00309)	
4. Is the anchorage free of visible cracks in the concrete near the anchors? No visible cracks on concrete pad or floor.	YK 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.)	YX NO UO N/AO
Anchorage consistent with Dwg. M-3515, March 1975. (NO POSTINGS).	~ DIL, 10/12/12
6. Based on the above anchorage evaluations, is the anchorage free of	YZ NO UO

potentially adverse seismic conditions?

¹ 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)	
Equipment ID No. <u>T4100B035</u> Equip. Class 1 <u>10 - Air Handlers</u>	
Equipment Description RB HVAC EECW Pmp Rm Cooler Unit	
Interaction Effects	
7. Are soft targets free from impact by nearby equipment or structures? <i>Piping in area adequately supported.</i>	YM UU U/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 or masonry block walls in area. There are no other realistic hazards overhead.	YX NO UO N/AO
9. Do attached lines have adequate flexibility to avoid damage? Attached lines have adequate flexibility around this equipment.	YN UU N/AC
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? None identified	YM 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.	YN UU UU

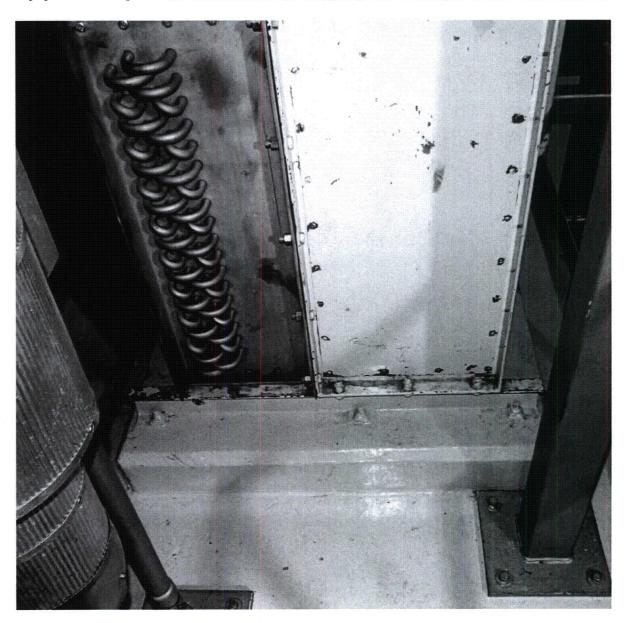
NJPR-12-0043

Sheet 3 of 3 Status: (Y) N U

Seismic Walkdown Checklist (SWC)	
Equipment ID No. <u>T4100B035</u> Equip. Class 1 <u>10 - Air Handlers</u>	
Equipment Description RB HVAC EECW Pmp Rm Cooler Unit	
Comments (Additional pages may be added as necessary)	
None.	
M =	
Seismic Engineer Walkdown PSE-53 Qualified	
Evaluator #1: Downer D	Date: 8 8 12
Seismic Engineer Walkdown PSE-53 Qualified	onlant.
Evaluator #2:	Date: 08/68/12
,	

Equipment ID No. <u>T4100B035</u> Equipment Class: <u>10, Air Handlers</u>

Equipment Description <u>RBHVAC EECW PUMP ROOM COOLER UNIT</u>

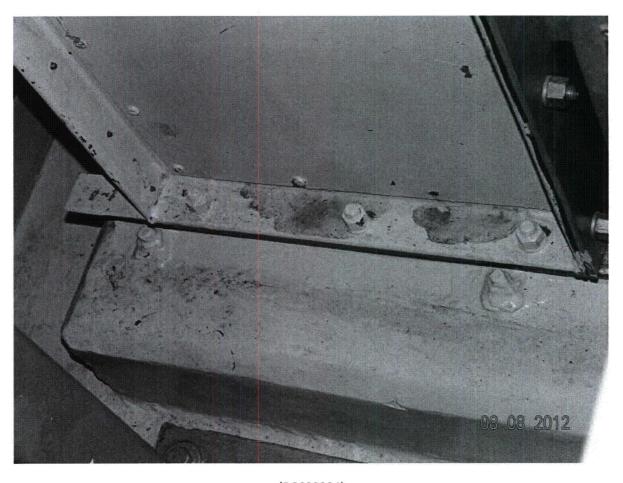


(DSC001025)

BOLT CONFIGURATION

Equipment ID No. <u>T4100B035</u> Equipment Class: <u>10, Air Handlers</u>

Equipment Description <u>RBHVAC EECW PUMP ROOM COOLER UNIT</u>



(DSC00304)

BOLT CONFIGURATION (REF DWG. M-3515)

Equipment ID No. <u>T4100B035</u> Equipment Class: <u>10, Air Handlers</u>

Equipment Description <u>RBHVAC EECW PUMP ROOM COOLER UNIT</u>



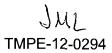
(DSC00309)

ACHOR BOLTS AS-BUILT CONDITION

NJPR-12-0043

Sheet 1 of 3 Status: N U

Seismic Walkdown Checklist (SWC)
Equipment ID No. <u>T4100B044</u> Equip. Class 1 <u>10, Air Handlers</u>
Equipment Description RBHVAC Div 2 Batt. Charger Rm. Fan Coil Units
Location: Bldg. AB Floor El. 643'-6" Room, Area B-22W, Col. F-10
Manufacturer, Model, Etc. (optional but recommended) Philips Ind. Inc Model BC150
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)?
All anchors visible (SEE PICTURES DSCNOIS9, DSCNOIG3, DSCNOIG6, DSCNOIG7) ~ DJK 10/11/12
2. Is the anchorage free of bent, broken, missing or loose hardware? All anchor bolts visible and in good condition. No bent, broken or missing hardware evident.
(SEE PICTURES DECHOIS , DSCHOIGS, DSCHOIGG, DSCHOIGT)~ DEK 10/11/12
3. Is the anchorage free of corrosion that is more than mild surface Y∑ N□ U□ N/A□ oxidation?
Anchorage is free of corrosion.
(SEE PICTURES DECNOISY, DECNOIGE, DECNOIGE) DECNOIGE) -DJK 10/11/12 4. Is the anchorage free of visible cracks in the concrete near the anchors? YM N U N/A
The concrete at the anchorage is in serviceable condition. No cracks observed.
(SEE PILTURES DICNOIS9, DECNOIGS, DECNOIGG, DECNOIGS) ~ DIK IOIII/12
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.) YN□ U□ N/A□ N/A□
See M-5436 Rev. A. (NO POSTINGS) - DJK 10/12/12
6. Based on the above anchorage evaluations, is the anchorage free of Y № N□ U□ potentially adverse seismic conditions?
Possible rattlespace violation with 1"Ø conduit to TSE-T41-N452 (see photo DSCN0163). Note: See attached hand calculation for resolution. Rattlespace is sufficient.
(SEE PICTURE DSCHOOLOG) WATE 10/11/12



¹ 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>T4100B044</u> Equip. Class ¹ <u>10, Air Handlers</u>	
Equipment Description RBHVAC Div 2 Batt. Charger Rm. Fan Coil Units	
Interaction Effects	
7. Are soft targets free from impact by nearby equipment or structures? No soft targets susceptible to impact.	Y⊠ N□ U□ N/A□
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? No block walls or ceiling tiles. Lights do not pose a collapse risk (connected with cables & chains).	YDY NO UO N/AO
9. Do attached lines have adequate flexibility to avoid damage? Flex conduit attached to unit.	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	
11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment?	YQ N U

Possible rattlespace violation with 1"Ø conduit to TSE-T41-N452 (see photo DSCN0163). Note: See attached hand calculation of

maximum frame deflection. Rattlespace is sufficient.

NJPR-12-0043

Sheet 3 of 3 Status: (Y) N U

Seismic Walkdown Checklist (SWC)		
Equipment ID No. <u>T4/00B044</u> Equip. Class ¹	10-AIR	HANDLERS
Equipment DescriptionAIR HANDLING UNIT		
Comments (Additional pages may be added as necessary)		
☑ Seismic Engineer Walkdown PSE-53Qualified Evaluator #1: Dovid C Dekini		o lolous
Evaluator #1: Poved C Dekun	Date:	8/8/2012
☐ Seismic Engineer Walkdown PSE-53Qualified		/ /
Evaluator #2: Joseph M. Le Vere	Date:	00/08/2012

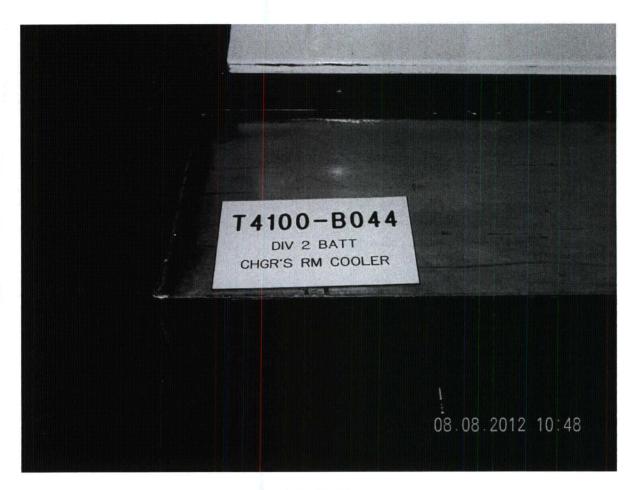
Equipment ID No.	. <i>T4100B044</i>	Equipment Class:	10, Air Handlers	
Equipment in 110.	. 171000077	Equipment Class.	10, 1111 1141141615	

Equipment Description RBHVAC Div 2 Batt. Charger Rm. Fan Coil Unit

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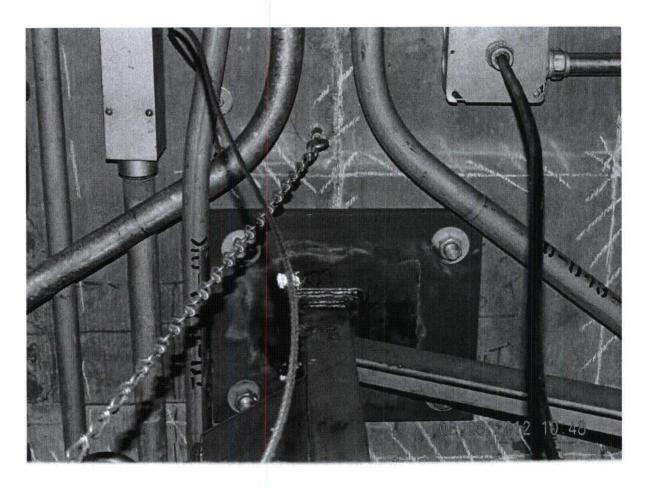
Equipment ID No. <u>T4100B044</u> Equipment Class: <u>10, Air Handlers</u>

Equipment Description RBHVAC Div 2 Batt. Charger Rm. Fan Coil Unit



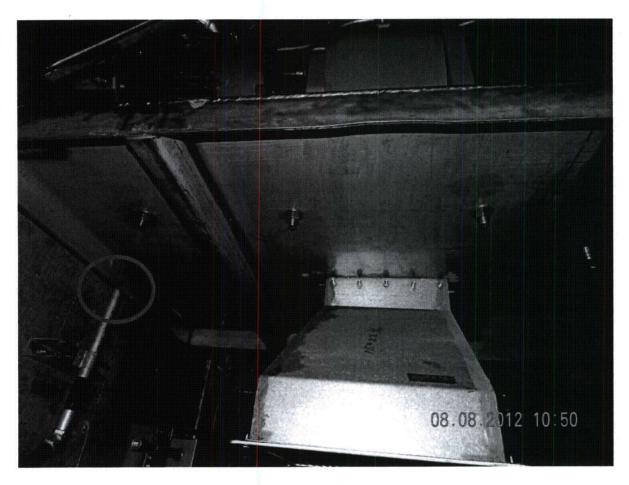
(DSCN0157)

Equipment ID No. <u>T4100B044</u> Equipment Class: <u>10, Air Handlers</u>



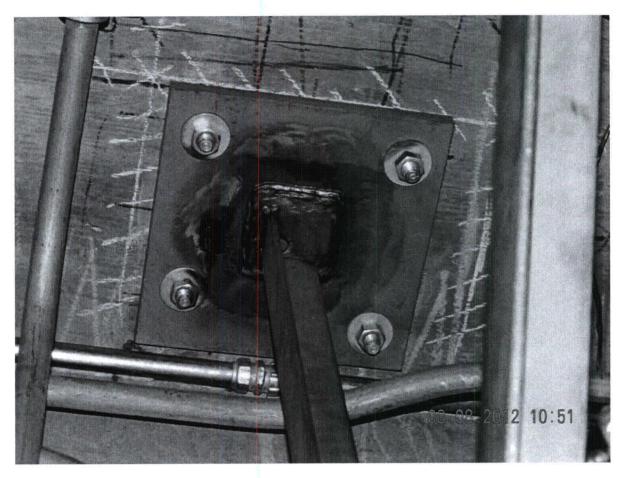
(DSCN0159)

Equipment ID No. <u>T4100B044</u> Equipment Class: <u>10, Air Handlers</u>



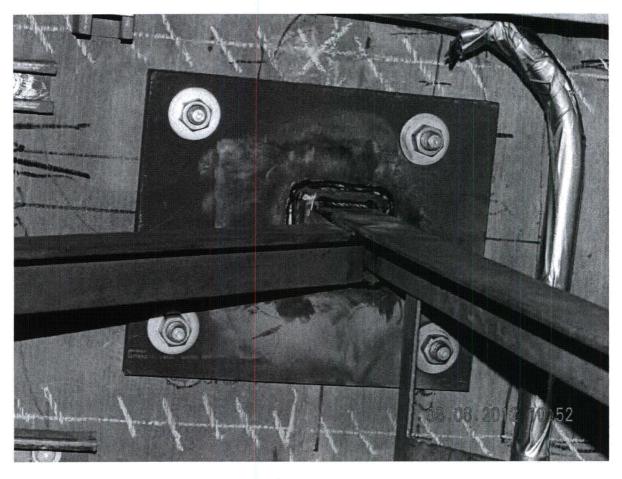
(DSCN0163)

Equipment ID No. <u>T4100B044</u> Equipment Class: <u>10, Air Handlers</u>



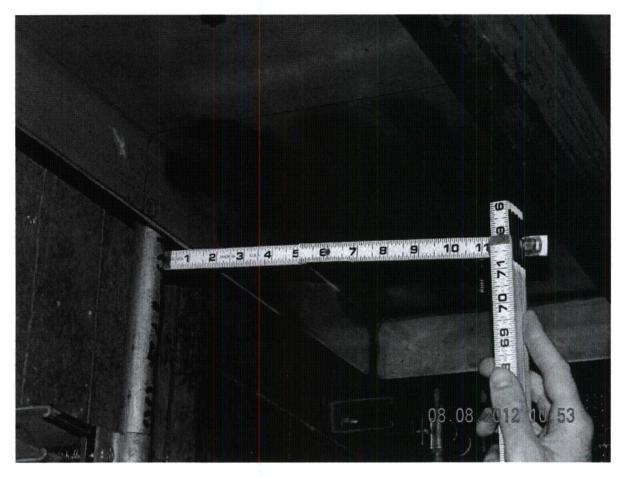
(DSCN0166)

Equipment ID No. <u>T4100B044</u> Equipment Class: <u>10, Air Handlers</u>



(DSCN0167)

Equipment ID No. T4100B044 Equipment Class: 10, Air Handlers



(DSCN0169)

NJPR-12-0043

Sheet 1 of 3 Status Y N U

Seismic Walkdown Checklist (SWC)	
Equipment ID No. T4100C009 Equip. Class 1 9, Fans	
Equipment Description RBHVAC Exhaust Fan Div II	
Location: Bldg. <u>AB</u> Floor El. <u>653'-0"</u> Room, Area <u>B-22W, Col.</u>	F-11
Manufacturer, Model, Etc. (optional but recommended)	AND
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)? Six anchors to ceiling. Fan output bolted to the wall.	Y⊠ N□
(SEE PICTURE DSCNOIH6, DSCNOIH7, DSCNOIH8, DSCNOIH9) 2. Is the anchorage free of bent, broken, missing or loose hardware? Anchorage is in good condition and is free of bent, broken, missing or loose hardware.	V MK 1011/12 Y⊠ N□ U□ N/A□
(SEE PICTURE DSCNOWN, DSCNOWN) ~ DJR 10/11/2. 3. Is the anchorage free of corrosion that is more than mild surface oxidation? Belle Laborage and are free of corrosion and evidetics.	AM NO NO N/AO
Bolts look new and are free of corrosion and oxidation. (SEE PICTURE DSCNOIUS) ~ DSK 10/11/12	
4. Is the anchorage free of visible cracks in the concrete near the anchors? No visible cracks in the concrete.	YØ 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 plant documentation. See DSN: H-0010, Rev. 0.	Y⊠ N□ U□ N/A□
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	AM NO NO



¹ 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. T4100C009 Equip. Class 9, Fans	
Equipment Description RBHVAC Exhaust Fan Div II	
Interaction Effects	
7. Are soft targets free from impact by nearby equipment or structures? Tight area — all equip/conduit well supported in accordance with seismic requirement - acceptable	YN 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, cables and lighting adequately supported. No ceiling tiles or block walls.	YM UU N/AU
9. Do attached lines have adequate flexibility to avoid damage? Attached lines have adequate flexibility.	YN UU U/AU
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	YÍX N□ U□
Other Adverse Conditions 11. Have you looked for and found no other seismic conditions that could	YZIN□ U□

No other seismic conditions identified. See Question 7.

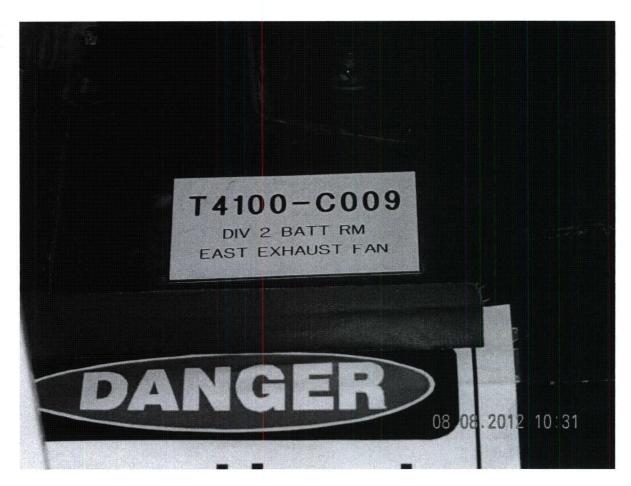
NJPR-12-0043

Sheet 3 of 3 Status: Y N U

Seismic Walkdov	vn Checklist (SWC	;)		
Equipment ID No.	T41000009	Equip. Class ¹	9 - FANS	
Equipment Descript	tion <u>RBHVAC</u>	EXHALET FAN		
Comments (Additio	nal pages may be added	i as necessary)		
				•
	ismic Engineer Walk	down PSE-53Qualified O		8/8/2012
Evaluator #1:	Covel C NCC	Ker	Date:	90/2012
,			_	
⊠ Se	eismic Engineer Walk	down PSE-53Qualified		00/10/2012
Evaluator #2:	Joseph M	youreu	Date:	08/08/2012
	/		*	

Equipment ID No. <u>T4100C009</u> Equipment Class: <u>9, Fans</u>

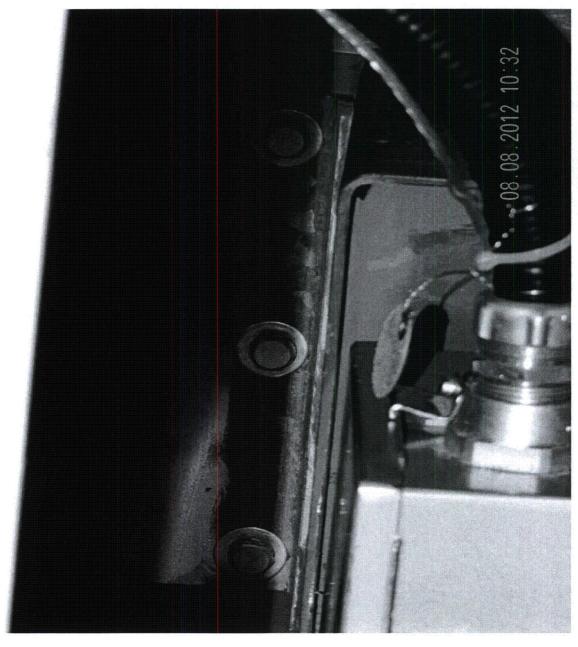
Equipment Description RBHVAC Exhaust Fan Div. II



(DSCN0145)

Equipment ID No. <u>T4100C009</u> Equipment Class: <u>9, Fans</u>

Equipment Description RBHVAC Exhaust Fan Div. II



(DSCN0146)

Equipment ID No. <u>T4100C009</u> Equipment Class: <u>9, Fans</u>

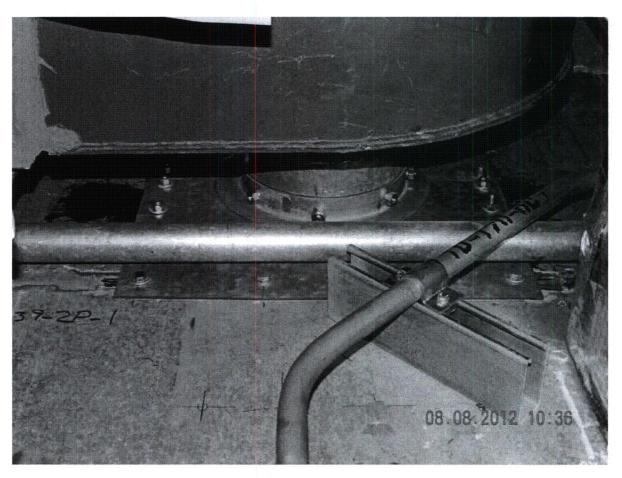
Equipment Description RBHVAC Exhaust Fan Div. II



(DSCN0147)

Equipment ID No. <u>T4100C009</u> Equipment Class: <u>9, Fans</u>

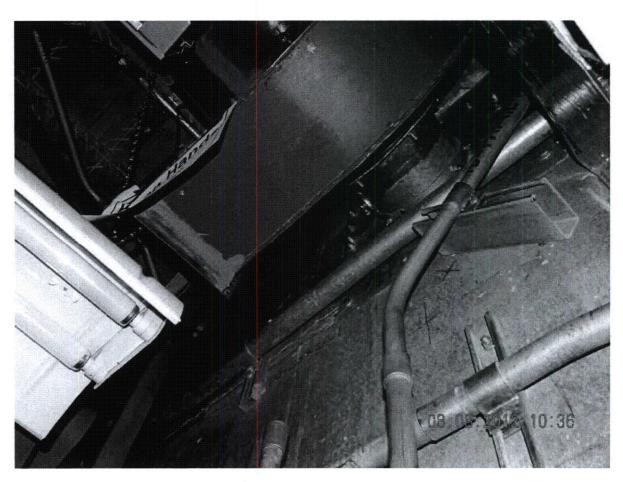
Equipment Description RBHVAC Exhaust Fan Div. II



(DSCN0148)

Equipment ID No. <u>T4100C009</u> Equipment Class: <u>9, Fans</u>

Equipment Description <u>RBHVAC Exhaust Fan Div. II</u>

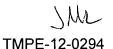


(DSCN0149)

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Sheet 1 of 3 Status: Y N U

Seismic Walkdown Checklist (SWC)	
Equipment ID No. T4100F041 Equip. Class 7, Pneumatic-Operated Valves	
Equipment Description Div I CCHVAC Outside Air Damper	
Location: Bldg. <u>AB</u> Floor El. <u>670'-0"</u> Room, Area <u>B-24, Col. H-12</u>	
Manufacturer, Model, Etc. (optional but recommended) <u>Hydrotork – SSM Industries</u>	
Instructions for Completing Checklist	
This checklist may be used to document the results of the Seismic Walkdown of an item of equipment of SWEL. The space below each of the following questions may be used to record the results of judgments 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)?	
Mounting bolts visible. (SEE PICTURES DECOCOTG, DECOCOTE) - DOK 10/11/12	
2. Is the anchorage free of bent, broken, missing or loose hardware? Anchorage is in good condition and is free of bent, broken, missing or loose hardware. (SEE PICTURE DSC 00076) ~ DTK 10/11/12]
3. Is the anchorage free of corrosion that is more than mild surface Y☒ N☐ U☐ N/A☐ oxidation?]
Bolts in good condition and are free of corrosion and oxidation. (SEE PICTURE DSCOBO78) - DJK 19/1/2	
4. Is the anchorage free of visible cracks in the concrete near the anchors? **Directly mounted to the ductwork.**	į
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 plant documentation. 4 bolts observed − 1 ¼" across flats − vendor manual show ¾" diameter − for ¾" Ø bolt 1 ¼" across the flats is correct.]
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y □ N□ U□	



¹ 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. T4100F041 Equip. Class 7, Pneumatic-Operate	ed Valves
Equipment Description Div I CCHVAC Outside Air Damper	
Interaction Effects	
7. Are soft targets free from impact by nearby equipment or structures? Instrument air and conduit well supported. I/A supports are massive.	Y⊠ N□ U□ N/A□
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? No ceiling tiles – no lights close. HVAC and cables adequately supported	Y⊠ N□ U□ N/A□
9. Do attached lines have adequate flexibility to avoid damage? Flex conduit with loops.	YØ N□ U□ N/A□
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	YZZINO 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?	YØ NO UO

No other seismic conditions identified.

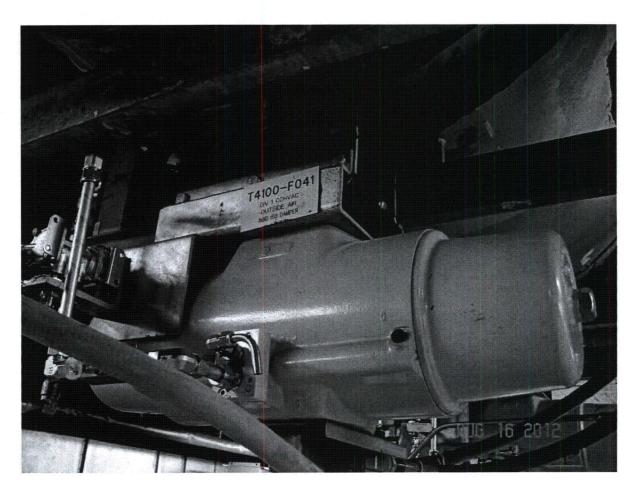
NJPR-12-0043

Sheet 3 of 3 Status: N U

Seismic Walkdown Checklist (SWC)	
Equipment ID No. 74/00F04/ Equip. Class 7-PNEUMATIC	OPERATED VALVES
Equipment Description DIV 1. CCHVAC OUTSIDE AIR DAMPER	
Comments (Additional pages may be added as necessary)	
☑ Seismic Engineer Walkdown PSE-53Qualified	, ,
Evaluator #1: David C Dickerin	Date: 16th August 2012
Seismic Engineer Walkdown PSE-53Qualified	, ,
Evaluator #2: foresh Molene	Date: <u>08/14/2012</u>

Equipment ID No. <u>T4100F041</u> Equipment Class: <u>7, Pneumatic-Operated Valves</u>

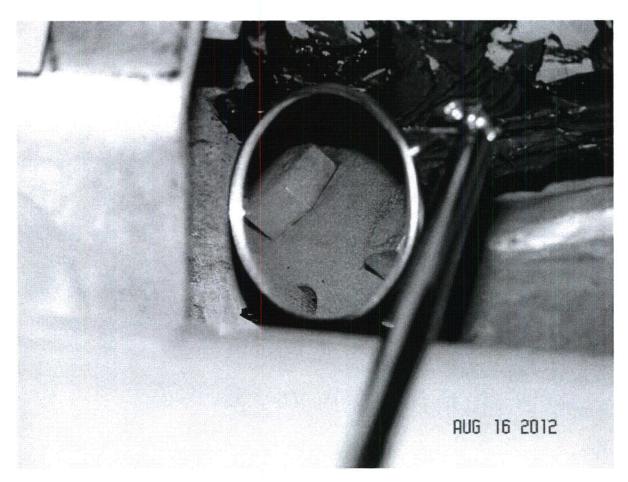
Equipment Description <u>Div. I CCHVAC Outside Air Damper</u>



(DSC00076)

Equipment ID No. <u>T4100F041</u> Equipment Class: <u>7, Pneumatic-Operated Valves</u>

Equipment Description <u>Div. I CCHVAC Outside Air Damper</u>



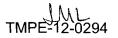
(DSC00078)

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Sheet 1 of 3 Status Y N U

Seismic Walkdown Checklist (SWC)
Equipment ID No. T41F101A Equip. Class 8, Motor/Solenoid-Operated Valves
Equipment Description Div I - CCHVAC Air Modulation Damper SOV
Location: Bldg. AB Floor El. 677'-6" Room, Area B-27A, Col. H-15
Manufacturer, Model, Etc. (optional but recommended) ASCO
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図 N□ of the 50% of SWEL items requiring such verification)? Bolts visible. (SEE PICTURES DSCNO473, DSCNO474) ~ DJK 10/11/2
2. Is the anchorage free of bent, broken, missing or loose hardware? Anchorage is in good condition and is free of bent, broken, missing or loose hardware. Y∑ N□ U□ N/A□ N/A□
3. Is the anchorage free of corrosion that is more than mild surface Y∑ N□ U□ N/A□ oxidation?
Bolts in good condition and are free of corrosion and oxidation.
4. Is the anchorage free of visible cracks in the concrete near the anchors? Y□ N□ U□ N/A□ Not attached to concrete.
5. Is the anchorage configuration consistent with plant documentation? Y⋈ N□ U□ N/A□ (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 plant documentation. All bolts and bracket verified – Ref. Dwg. I-2612-76 and I-2612-04.**
* REFERENCE DOCUMENT (LATEST REUISION) HAVE NO APPLICABLE POSTINGS. 10/14/17
6 Based on the above anchorage evaluations, is the anchorage free of YV NO UO

potentially adverse seismic conditions?



¹ 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. T41F101A Equip. Class 8, Motor/Solenoid-Op	perated Valves
Equipment Description <u>Div I - CCHVAC Air Modulation Damper SOV</u>	
Interaction Effects	
7. Are soft targets free from impact by nearby equipment or structures? Located inside panel H21P296A.	YÂLNOUDN/AO
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Lights inside H21P296A are mounted seismically. All equipment, cables and tubing is mounted seismically.	Y⊠ N□ U□ N/A□
9. Do attached lines have adequate flexibility to avoid damage? Attached tubing has adequate flexibility.	YM.N U N/A
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	YØ 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?	YM NO UO

No other seismic conditions identified.

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Sheet 3 of 3 Status: Y N U

Seismic Walkdown Checklist (SWC)
Equipment ID No. <u>T41F101 A</u> Equip. Class 17- PNEUMATIC OPERATING VALVE Equipment Description <u>DIV 1- CCHVAC OUTSIDE AIR MODILATING DAMPER SOV.</u>
Comments (Additional pages may be added as necessary)
PANEL H21-P296A IS EVALUATED FOR SEISMIC INTERACTION IN A SEPARATE PACKAGE
Seismic Engineer Walkdown PSE-53 Qualified Evaluator #1: David C Dickerin Date: 16th August 2012
Seismic Engineer Walkdown PSE-53Qualified Evaluator #2: Date: Dat

Equipment ID No. <u>T41F101A</u> Equipment Class: <u>8, Motor/Solenoid-Operated Valves</u>

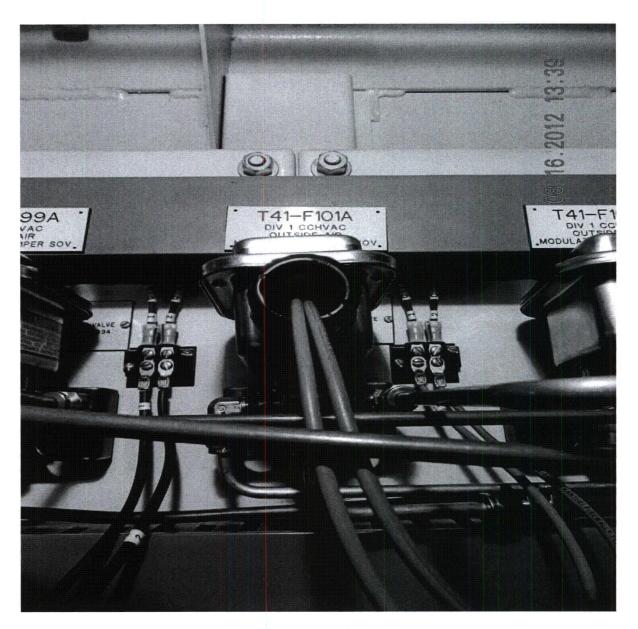
Equipment Description <u>Div. I – CCHVAC Air Modulation Damper SOV</u>



(DSCN0473)

Equipment ID No. <u>T41F101A</u> Equipment Class: <u>8, Motor/Solenoid-Operated Valves</u>

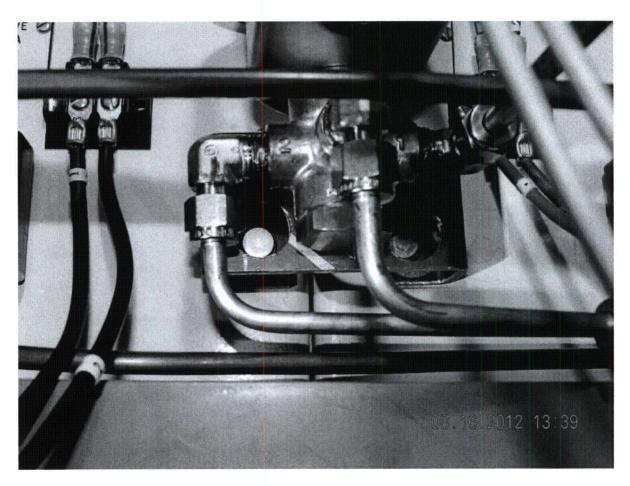
Equipment Description <u>Div. I – CCHVAC Air Modulation Damper SOV</u>



(DSCN0474)

Equipment ID No. <u>T41F101A</u> Equipment Class: <u>8, Motor/Solenoid-Operated Valves</u>

Equipment Description <u>Div. I – CCHVAC Air Modulation Damper SOV</u>



(DSCN0475)

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Sheet 1 of 3 Status: N U

Seismic Walkdown Checklist (SWC)
Equipment ID No. <u>T4600F407</u> Equip. Class <u>7, Pneumatic Operated Valve</u>
Equipment Description AOV @ El. 647'-02" (SGTS from RB Exh Sys Iso AOV)
Location: Bldg. RB Floor El. 641'-6" Room, Area Room A-24, Col F-13
Manufacturer, Model, Etc. (optional but recommended) Jamesbury, 24-8229 EA Mod. 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 Y□ N⊠ of the 50% of SWEL items requiring such verification)?
2. Is the anchorage free of bent, broken, missing or loose hardware? Valve is attached to piping, not to building. Bolts securing valve to piping are in good condition (see Photo DSC00222). Y□ N□ U□ N/A□
3. Is the anchorage free of corrosion that is more than mild surface oxidation? Flange bolts are free of corrosion. Y□ N□ U□ N/A▷ Flange bolts are free of corrosion.
4. Is the anchorage free of visible cracks in the concrete near the anchors? Y□ N□ U□ N/A□ No anchors embedded 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.)
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? No adverse conditions were identified.

¹ Enter the equipment class name from Appendix B: Classes of Equipment

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Sheet 2 of 3 Status: V N U

Equipment ID No. <u>T4600F407</u> Equip. Class 1 7, <u>Pneumatic Operated Valve</u>	
Equipment Description AOV @ El. 647'-02" (SGTS from RB Exh Sys Iso AOV)	
nteraction Effects	
7. Are soft targets free from impact by nearby equipment or structures? Overhead HVAC and cable trays are adequately supported. There are no soft targets on the valve that could be impacted. Y ▶ N□ U□ N/A□	
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, YN N U N/A and masonry block walls not likely to collapse onto the equipment? No overhead ceiling tiles or lighting, and no masonry block walls. (see Photo DSC00220)	
9. Do attached lines have adequate flexibility to avoid damage? Y∑ N□ U□ N/A□ Lines have adequate flexibility. (see Photo DSC00220)	
10. Based on the above seismic interaction evaluations, is equipment free Y⊠ N□ U□ of potentially adverse seismic interaction effects?	
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 in this area that could adversely affect the valve's safety functions. Y N□ U□	

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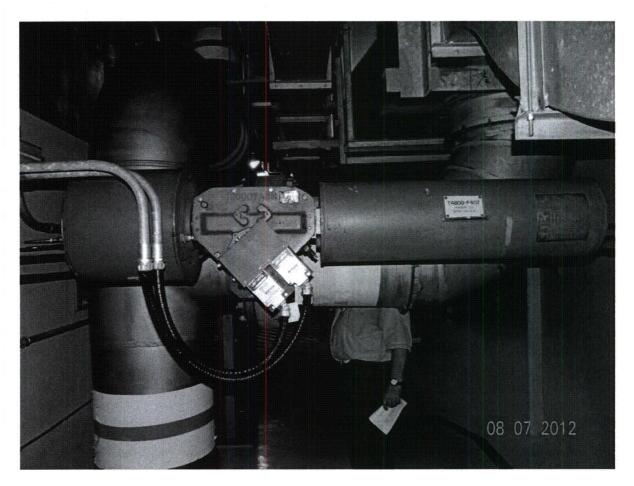
Sheet 3 of 3 Status: (Y) N U

Seismic	waikdown	Checklist	(SWC)	

dupment in No. 140007407 Equip. Class 7, Fneumatic Operated valve
quipment Description AOV @ El. 647'-02" (SGTS from RB Exh Sys Iso AOV)
omments (Additional pages may be added as necessary)
Seismic Engineer Walkdown PSE-53 Qualified
valuator #1: Date: 8/7/12
🛮 Seismic Engineer Walkdown PSE-53 Qualified
valuator #2 : Date: Date: Date:

Equipment ID No. <u>T4600F407</u> Equipment Class: <u>7, Pneumatic Operated Valve</u>

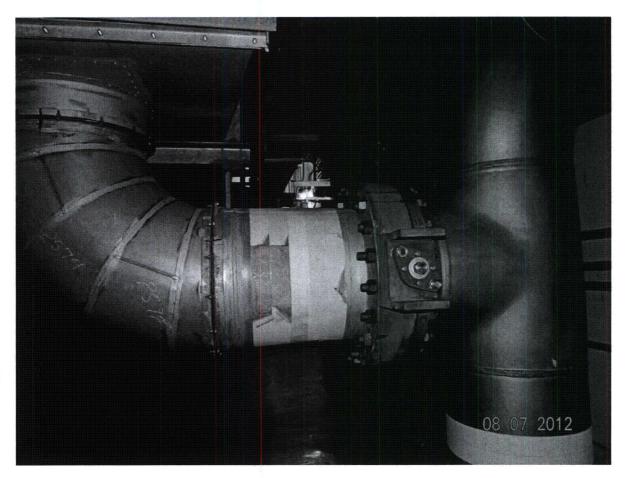
Equipment Description <u>AOV @ El. 647'-02" (SGTS from RB Exh Sys Iso AOV)</u>



(DSC00220)

Equipment ID No. <u>T4600F407</u> Equipment Class: <u>7, Pneumatic Operated Valve</u>

Equipment Description <u>AOV @ El. 647'-02" (SGTS from RB Exh Sys Iso AOV)</u>



(DSC00222)

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Sheet 1 of 3 Status: (Y) N U

Seismic Walkdown Checklist (SWC)	
Equipment ID No. <u>T49P400A</u> Equip. Class 1 19, Temperature Sens	cors
Equipment Description PC Pneumatic Div. I Supply instrumentation Rack	
Location: Bldg. RB Floor El. 583'-6" Room, Area A-12, Col. B-	-13
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 the space is provided to the sp	the results of judgments an
Anchorage	
1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?	YØ NO
2. Is the anchorage free of bent, broken, missing or loose hardware? All anchorage is present and securely fastened. (See pictures 3 and 4.)	YM NO UO N/AO
3. Is the anchorage free of corrosion that is more than mild surface oxidation? No corrosion was observed.	Y¤ N□ U□ N/A□
4. Is the anchorage free of visible cracks in the concrete near the anchors? There are no cracks in the concrete.	YK 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 anchorage configuration verification is required.) Drawing I-2662-01, Rev. H, front view and section B-B (No applicable postings) was field verified, and therefore anchorage is consistent. (See picture 3 and 4.)	YN UU N/AU
6. Based on the above anchorage evaluations, is the anchorage free of	ט מאַץ עוי

¹ 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)

No other adverse seismic conditions were identified.

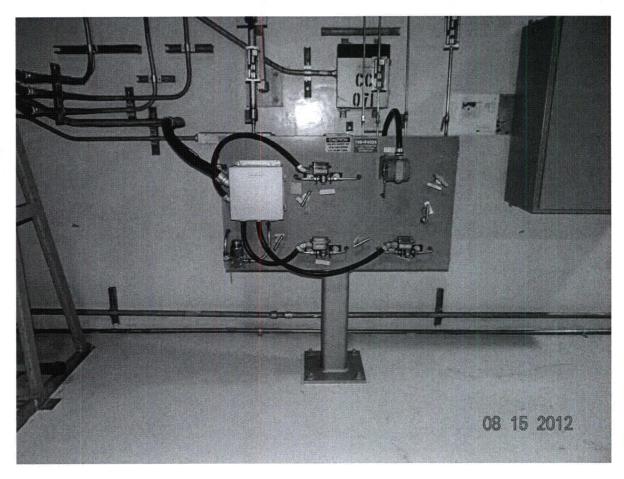
Equipment ID No. <u>T49P400A</u> Equip. Class 1 <u>19, Temperature Sensors</u>			
Equipment Description PC Pneumatic Div. I Supply instrumentation Rack			
Interaction Effects			
7. Are soft targets free from impact by nearby equipment or structures? There is no observed seismic proximity interaction or danger of falling overhead hazards. (See picture 11.)	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? There are no observed overhead hazards.	YM N□ U□ N/A□		
9. Do attached lines have adequate flexibility to avoid damage? All attached lines have adequate flexibility. (See picture 1.)	YX NO UO N/AO		
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	Y∭X 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?	YM NO UO		

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Sheet 3 of 3 Status: Y N U

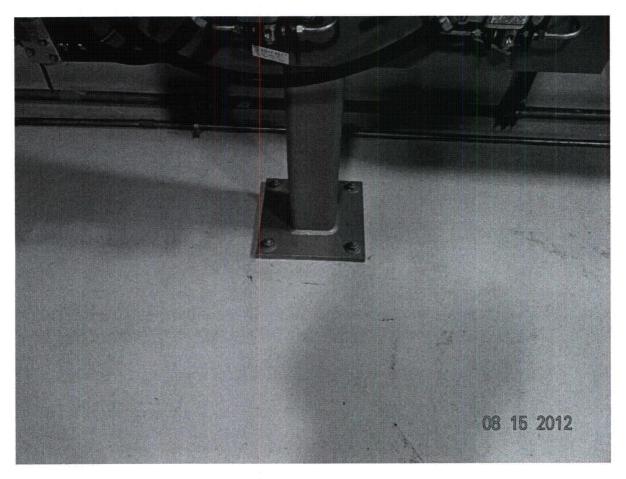
Seismic Walkdown Checklist (SWC)	
Equipment ID No. T49P400A Equip. Class 19 - Temperation	ure Sensors
Equipment Description PC Pneumatic Div. I Supply Instrumen	_
Comments (Additional pages may be added as necessary)	
	•
	•
🕱 Seismic Engineer Walkdown PSE-53Qualified	
Evaluator #1: Mil P. Jasso	Date: 8/16/12
☑ Seismic Engineer Walkdown PSE-53Qualified	- 0/10/10
Evaluator #2: Scott Bane	Date: 8/16/12

Equipment ID No. <u>T49P400A</u> Equipment Class: <u>19, Temperature Sensors</u>



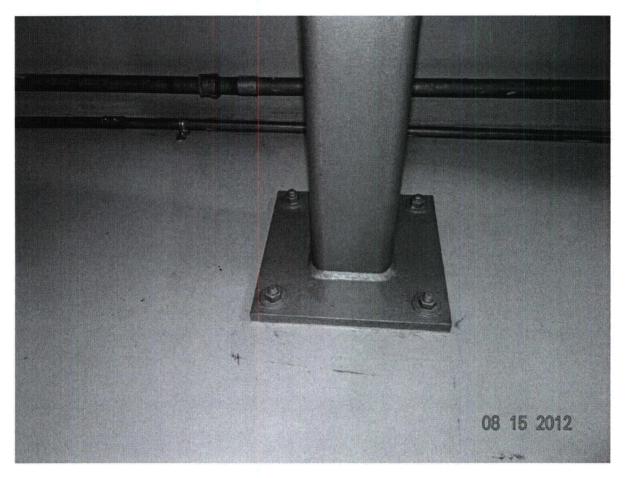
(Picture 1)

Equipment ID No. <u>T49P400A</u> Equipment Class: <u>19, Temperature Sensors</u>



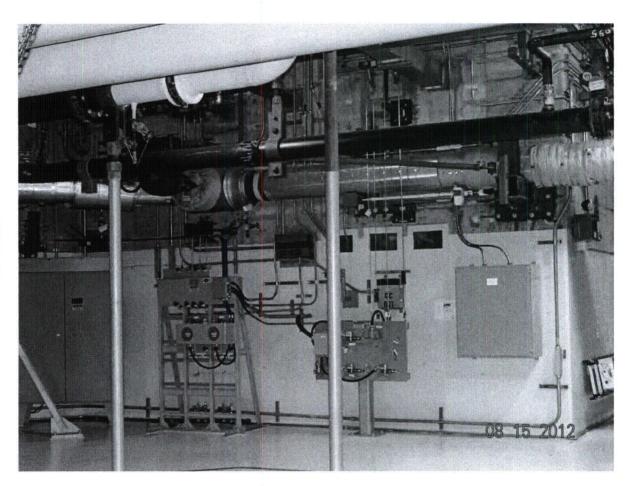
(Picture 3)

Equipment ID No. <u>T49P400A</u> Equipment Class: <u>19, Temperature Sensors</u>



(Picture 4)

Equipment ID No. <u>T49P400A</u> Equipment Class: <u>19, Temperature Sensors</u>



(Picture 11)

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Sheet 1 of 3 Status: N U

Seismic Walkdown Checklist (SWC)	
Equipment ID No. <u>T50F450</u> Equip. Class 8-Motor Operated are	nd Solenoid-Operated Valves
Equipment Description PC Rad Mon Syst Inlet ISO VLV - (EL 621'-3")	
Location: Bldg. RB Floor El. 613'-6" Room, Area A-17, Col. B	-12
Manufacturer, Model, Etc. (optional but recommended) Target Rock, V5-3083	3 (3/4")
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)?	Y□ N ⊠
2. Is the anchorage free of bent, broken, missing or loose hardware? The assets anchorage connections are not attached to a civil structure. The asset is a valve (line-mounted) on a pipeline with hardware that is in good condition. Equipment bolts are intact and tightened.	YX NO UO N/AO
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	YN UN N/AN
No corrosion is present.	
4. Is the anchorage free of visible cracks in the concrete near the anchors? Not anchored to concrete directly. There are no cracks in the concrete observed nearby.	Y NU UN 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.)	Y□ N□ U□ N/A⊠
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? The asset is attached to the conduit via solid cylindrical bar. This attachment is rigid enough to restrict movement of the asset during a seismic event per engineering judgment.	YM UD
	10/3/12

¹ 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>T50F450</u> Equip. Class <u>8-Motor Operated an</u>	d Solenoid-Operated Valves
Equipment Description PC Rad Mon Syst Inlet ISO VLV - (EL 621'-3")	
Interaction Effects	
7. Are soft targets free from impact by nearby equipment or structures? The nearby Nitrogen tanks are restrained so that they do not impact equipment. (See Picture 2.)	Y ⊠ N□ U□ N/A□
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? All overhead equipment and conduit is restrained.	Y⊠ N□ U□ N/A□
9. Do attached lines have adequate flexibility to avoid damage? All attached lines are flexible. (SEE PICTURE 1) ~ OOK 10/11/12	YX NO UO N/AO
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? There are nearby items, but they either are far enough away (≥2" for rigid items) or they do not have enough mass to cause damage to the asset.	Y⊠ N□ U□
••	
Other Adverse Conditions	
11. Have you looked for and found no other seismic conditions that could	YM NO UO

MPS 10/3/12

adversely affect the safety functions of the equipment?

None identified.

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TMPE-12-0294

Sheet 3 of 3 Status: Y N U

Seismic Walkdown Checklist (SWC)
Equipment ID No. T50F450 Equip. Class 8-Motor-Operated and Solenoid-Operated Valves Equipment Description PC RAD MOIN SYST INLET ISO VLV-(EL, 621'3")
Comments (Additional pages may be added as necessary)
NONE,
∑ Seismic Engineer Walkdown PSE-53Qualified
Evaluator #1: Mich P. Dasse Date: 8/10/12
Seismic Engineer Walkdown PSE-53Qualified
Evaluator #2: Scott Pauer Date: 8/10/12

Equipment ID No. <u>T50F450</u> Equipment Class: <u>8, Motor-Operated and Solenoid-Operated Valves</u>

Equipment Description PC RAD MON SYST INLET ISO VLV



Picture1

Equipment ID No. <u>T50F450</u> Equipment Class: <u>8, Motor-Operated and Solenoid-Operated Valves</u>

Equipment Description PC RAD MON SYST INLET ISO VLV



Picture 2

NJPR-12-0043

Sheet 1 of 3 Status: N U

Seismic Walkdown Checklist (SWC)	
Equipment ID No. X4103C001 Equip. Class 1 9, Fans	
Equipment Description RHR HVAC EDG 11 Rm E Vent Fan	
Location: Bldg. RHR Floor El. 617'-0" Room, Area EDG 11, Col. I	E-6
Manufacturer, Model, Etc. (optional but recommended) Buffalo Forge, 48B9 Typ	pe S
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)?	A X N□
2. Is the anchorage free of bent, broken, missing or loose hardware? Anchorage is in good condition (see Photo DSC01367)	YZI N U U N/A
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	YX NO UO N/AO
No corrosion (see Photo DSC01365)	
4. Is the anchorage free of visible cracks in the concrete near the anchors? No visible cracks in the concrete pier (see Photo DSC01365)	YX NO UO N/AO
(Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)	YM U□ U/A□
Anchor configuration is consistent with drawings M-N-2090-7, Rev G, Detail "E" and M-N-2090-4, Rev P (Anchor Bolt Schedule)	10112112
* REFERENCE DOCUMENTS HAVE NO REPUICABLE POSTINGS. 6. Based on the above anchorage evaluations, is the anchorage free of	בט בא אלי

potentially adverse seismic conditions?

¹ 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. X4103C001 Equip. Class 9, Fans
Equipment Description RHR HVAC EDG 11 Rm E Vent Fan
Interaction Effects
7. Are soft targets free from impact by nearby equipment or structures? No equipment or structures nearby to impact the fan in this area.
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. Lights are securely attached to walls.
9. Do attached lines have adequate flexibility to avoid damage? All of the attached lines have adequate flexibility; for example, see flex conduit in Photo DSC01367. Y ⋈ N□ U□ N/A□
10. Based on the above seismic interaction evaluations, is equipment free YX N□ U□ of potentially adverse seismic interaction effects?
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? None identified.

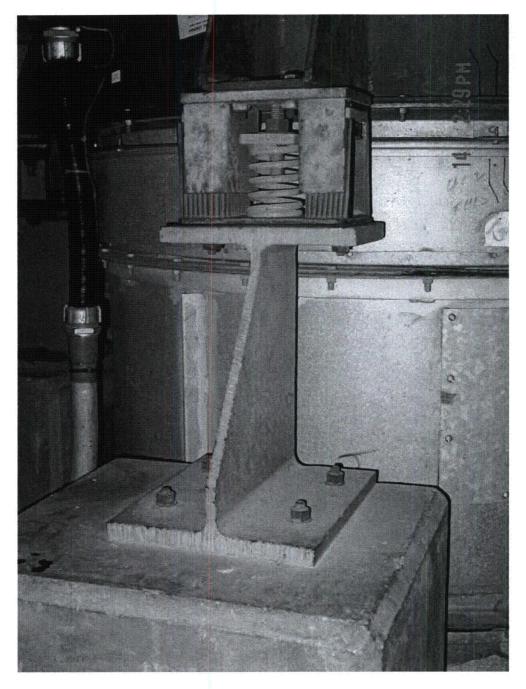
NJPR-12-0043

Sheet 3 of 3 Status: N U

Seismic Walkdown Checklist (SWC)			
Equipment ID No. X4103C001	Equip. Class ¹ <i>9, Fans</i>		
Equipment Description RHR HVAC EDG	11 Rm E Vent Fan		
Comments (Additional pages may be added	as necessary)		
None.			
		ŧ	
Seismic Engineer Walkde			4 1
Evaluator #1: Romadhor	· · · · · · · · · · · · · · · · · · ·	Date: _	8/14/12
Seismic Engineer Walkdo	own PSE-53 Qualified		1 1
Evaluator #2:		Date: _	08/14/12
, ,			

Equipment ID No. <u>X4103C001</u> Equipment Class: <u>9, Fans</u>

Equipment Description RHR HVAC EDG11 Room E Vent Fan

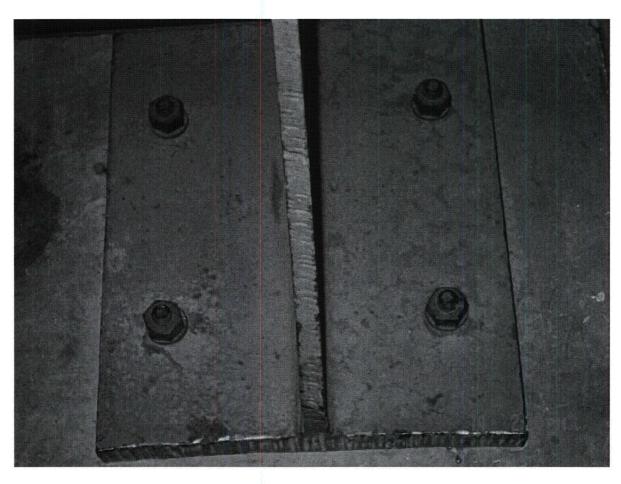


(DSC01367)

"Bolt attached to Concrete"

Equipment ID No. X4103C001 Equipment Class: 9, Fans

Equipment Description RHR HVAC EDG11 Room E Vent Fan



(DSC01365)

"Bolt Pattern"

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Sheet 1 of 3 Status: (Y) N U

Seismic Walkdown Checklist (SWC)
Equipment ID No. X4103C007 Equip. Class 9, Fans
Equipment Description RHR HVAC EDG 14 RM E Vent Fan
Location: Bldg. RHR Floor El. 617'-0" Room, Area EDG 14, Col E-7
Manufacturer, Model, Etc. (optional but recommended) Buffalo Forge, 48B9, Type S
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? Anchorages are in good condition. Y □ N □ U □ N/A□
3. Is the anchorage free of corrosion that is more than mild surface YX N□ U□ N/A□ oxidation?
No corrosion (see Photo DSC00356).
4. Is the anchorage free of visible cracks in the concrete near the anchors? Y∑ N□ U□ N/A□ No visible cracks in the concrete pier.
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 is consistent with Dwg. M-N-2030, Rev P and M-N-2090-7 □ 5 ►
Rev G. # REFERENCE Documents have not applicable Pestings.

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

potentially adverse seismic conditions?

YM N□ U□

¹ 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. X4103C007 Equip. Class 1 9, Fans	
Equipment Description RHR HVAC EDG 14 RM E Vent Fan	
Interaction Effects	
7. Are soft targets free from impact by nearby equipment or structures? The fan is a relatively hard (robust) target, and there is nothing above the fan of significant weight that could fall onto and damage it.	YM N□ U□ N/A□
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, lights on the walls are secured.	YX NO UO N/AO
9. Do attached lines have adequate flexibility to avoid damage? Attached lines have adequate flexibility.	YM UU N/AU
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	Y X 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.	Y X Y

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Sheet 3 of 3 Status: (Y) N U

Seisific walkdown checklist (3440)	
Equipment ID No. X4103C007 Equip. Class 1_9, Fans	· · · · · · · · · · · · · · · · · · ·
Equipment Description RHR HVAC EDG 14 RM E Vent Fan	ALL TO THE REPORT OF THE PERSON OF THE PERSO
Comments (Additional pages may be added as necessary)	
None.	
•	
A Seismic Engineer Walkdown PSE-53 Qualified	
Evaluator #1:	Date: 8/10/12
	1 1
Seismic Engineer Walkdown PSE-53 Qualified	
Evaluator #2:	Date: OS 10/12

Equipment ID No. X4103C007 Equipment Class: 9-Fans

Equipment Description RHR HVAC EDG 14 RM E Vent Fan

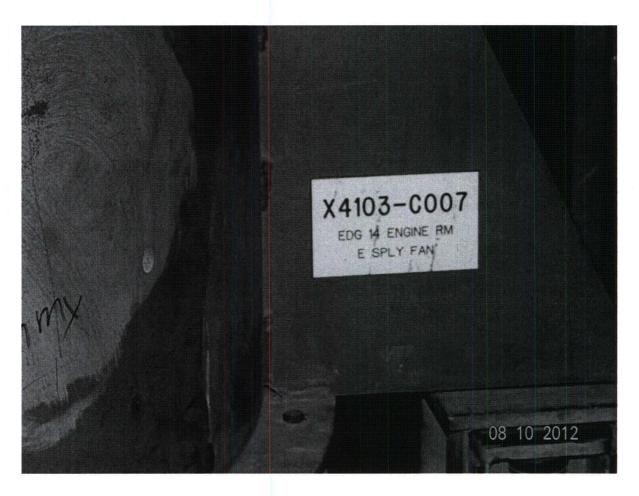


Photo DSC00361 "Fan Tag"

Equipment ID No. X4103C007 Equipment Class: 9-Fans

Equipment Description RHR HVAC EDG 14 RM E Vent Fan

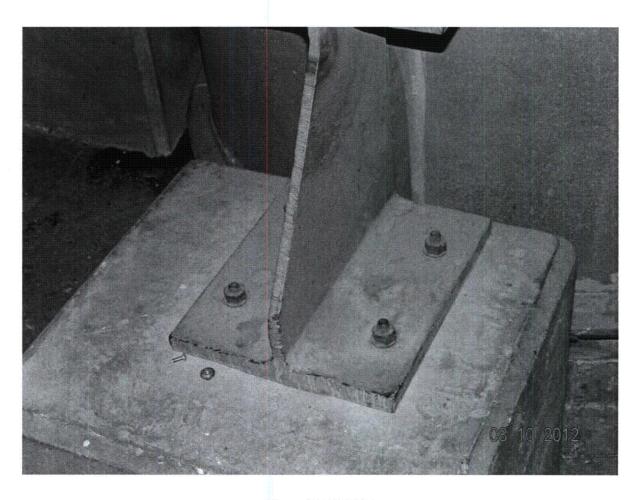


Photo DSC00356 "Bolt Configuration"

NJPR-12-0043

Sheet 1 of 3 Status: Y N U

Seismic Walkdown Checklist (SWC)	
Equipment ID No. X41N056D Equip. Class 1 19, Temperature Sen	sors
Equipment Description HVAC RHR EDG Swgr. Rm.Air Damper Temperature	Sensors (EL. 622'-00'')
Location: Bldg. RHR Floor El. 617'-0" Room, Area EDG-14 Co	l. E-8
Manufacturer, Model, Etc. (optional but recommended) Powers Regulator Co	, <i>550-1669</i>
Instructions for Completing Checklist	
This checklist may be used to document the results of the Seismic Walkdown o 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 documential space.	the results of judgments an
Anchorage 1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?	AM N□
2. Is the anchorage free of bent, broken, missing or loose hardware? Anchorage is complete and in good condition.	YK UU N/AU
3. Is the anchorage free of corrosion that is more than mild surface oxidation? No oxidation noted.	YÇ NO UO N/AO
4. Is the anchorage free of visible cracks in the concrete near the anchors? No visible cracks in the concrete.	YM 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.) The anchorage configuration is consistent with Dwg. I-N-2856-02 Rev F (No postings). See Photos DSC00340 & 00342.	YŊ N□ U□ N/A□
6. Based on the above anchorage evaluations, is the anchorage free of	YE NO UO

potentially adverse seismic conditions?

¹ 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. X41N056D Equip. Class 1 19, Temperature Sens	sors
Equipment Description HVAC RHR EDG Swgr. Rm.Air Damper Temperature S	ensors (EL. 622'-00")
Interaction Effects	
7. Are soft targets free from impact by nearby equipment or structures? Target is inside a metal enclosure and mounted on a wall. There are no observed impact sources nearby.	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. Overhead equipment and nearby systems are adequately supported.	YX NO UO N/AO
9. Do attached lines have adequate flexibility to avoid damage? The existing conduit line attached to the sensor has adequate flexibility.	Y ⊠ N□ U□ N/A□
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	Y X NO UO
Other Advance Conditions	
Other Adverse Conditions 11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? Temperature sensor bottom cover screen is missing. The upper screw is in place and supports the weight of the cover. See Photo DSC00346. CARD 12-27469 was initiated to resolve this matter.	Y DU XM UY

NJPR-12-0043

Sheet 3 of 3 Status: Y U

Seismic Walkdown Checklist (SWC)	
Equipment ID No. X41N056D Equip. Class 1 19, Temperatu	re Sensors
Equipment Description HVAC RHR EDG Swgr. Rm, Air Damper Temper	ature Sensors (EL. 622'-00")
Comments (Additional pages may be added as necessary)	
None.	
	,
Seismic Engineer Walkdown PSE-53 Qualified	
Evaluator #1: Romania	Date: <u>8-9-12</u>
Seismic Engineer Walkdown PSE-53 Qualified	, ,
Evaluator #2:	Date: 08/09/12

Equipment ID No. X41N056D Equipment Class: 19-Temperature Sensors

Equipment Description HVAC RHR EDG Swgr. Rm.Air Damper Temperature Sensors (EL. 622'-00")



Picture DSC00340 "Bolt Configuration"

Equipment ID No. X41N056D Equipment Class: 19-Temperature Sensors

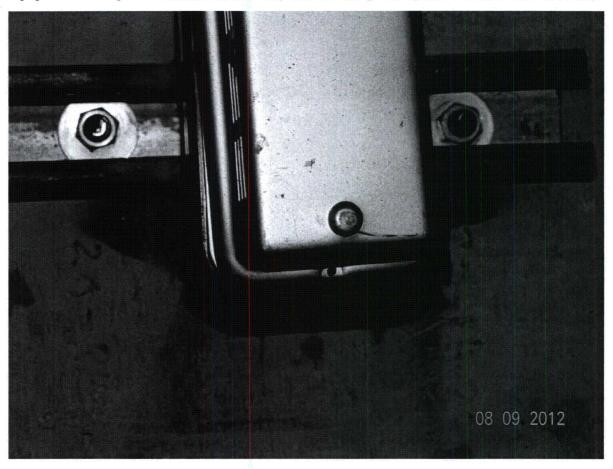
Equipment Description HVAC RHR EDG Swgr. Rm.Air Damper Temperature Sensors (EL. 622'-00")



Picture DSC00342 "Bolt Configuration"

Equipment ID No. <u>X41N056D</u> Equipment Class: <u>19-Temperature Sensors</u>

Equipment Description HVAC RHR EDG Swgr. Rm.Air Damper Temperature Sensors (EL. 622'-00")



Picture DSC00346 "Missing Cover Screw"

Appendix D Area Walk-By Checklists (AWCs)

Table D-1 - Summary of Area Walk-By Checklists

Date: November 20, 2012 D-1

Table D-1 - Summary of Area Walk-By Checklists

AWC Reference	PIS#	Equip. Class	. Component Description	Bldg.	Floor	SWEL List (1,2)	50% Anchor Verif. (Y.N)	Status of AWC (Y,N,U)	CARDs Issued	Remarks
ABB-1	P5002D001	12	CA NORTH COMPRESSOR	АВ	В	1	Y	Y	None	N/A
	E41K805	0	HPCI PUMP FLOW RATE MODULATOR/ISOLATOR FLOW SIG CND	АВ	2	1	Y			
	H11P612	20	CRTL & AUX RM PNL (MR ONLY) NSSS PROCESS INST CAB DIV2 INST RACK	АВ	2	1	Υ			
	H11P613	20	CRTL & AUX RM PNL (MR ONLY) NSSS PROCESS INST CAB DIV1 INST RACK	АВ	2	1	Y			
	H11P628	20	CRTL & AUX RM PNL (MR ONLY) SRV DIV1 ADS RELAY CAB	АВ	2	1	Y			
	H11P857	20	CRTL & AUX RM PNL (MR ONLY) MISC DC RELAY DIV1 INST RACK	АВ	2	1	Y			GAI-Tronic above Panel H11P901 does not appear to be seismically supported.
	H11P870	20	CRTL & AUX RM PNL (MR ONLY) MISC DC RELAY PANEL DIV2 INST RACK	АВ	2	1	Y	N		
AB2-1	H11P898A	20	CRTL & AUX RM PNL (MR ONLY) AUTO DIGITAL LOAD SEQ CAB DIV1 INST RACK	АВ	2	1	Y		12-26630	
A52-1	H11P898B	20	CRTL & AUX RM PNL (MR ONLY) AUTO DIGITAL LOAD SEQ CAB DIV2 INST RACK	АВ	2	1	Y		12-20030	
	H11P903	14	CRTL & AUX RM PNL (MR ONLY) 120 VAC DIST PANEL - DIV2 INST RACK	АВ	2	1	Υ			
	H11P915	20	CRTL & AUX RM PNL (MR ONLY) PC MON EQUIP & MISC RELAY DIV2 INST RACK	АВ	2	1	Y			
	H11P923	20	CRTL & AUX RM PNL (MR ONLY) RCIC TURB CTRL PANEL INST RACK	АВ	2	1	Y			
	R31K005	16	VITAL PWR DIST 120 VAC DIV2 2KVA INVERTER	АВ	2	1	Y			
	R3200S061A	14	DC RR 130V DIST CABINET 2PA2-5	АВ	2	1	Υ			
	R3200S061B	14	DC RR 130V DIST CABINET 2PA2-6	АВ	2	1	Y			

AWC Reference	PIS#	Equip. Class	Component Description	Bldg.	Floor	SWEL List (1,2)	50% Anchor Verif. (Y.N)	Status of AWC (Y,N,U)	CARDs Issued	Remarks
	H21P100	18	LOC PNL/RACK (MR ONLY) REMOTE RX SHUTDOWN PANEL DIV1 INST RACK	АВ	2	1	Y			
	H21P624	20	LOC PNL/RACK (MR ONLY) DSD 4160V BUS 64C LOCAL CTRL PANEL LOCAL PNL & RACKS	АВ	2	1	Υ		12-27959	Seismic Clearance Between Shutdown Pnl. & HVAC Duct.
AB2-2	H21P628	20	LOC PNL/RACK (MR ONLY) DSD MCC 72B-2A LOCAL CTRL PANEL LOCAL PNL & RACKS	АВ	2	1	Y	N	12-27939	Repair Light Fixture in Div. I Switchgear Room.
	R1400S050	. 1	SWGR AE DIV1 480V MCC 72C-F ISOLATING CONTACTOR	АВ	2	1	Y	·	12 27033	Tepun Egint i Ature III 311. I 341 tengeur neom
	R3200S062	14	DC SWGR ROOM 130V DIST CABINET 2PA2-14	АВ	2	1	Υ			
AB3-1	R32005004	15	DC 260/130V DUAL BATT (2PB)	АВ	3	1	Y	Y	None	N/A
AB3-2	R3200S016	1	DC 260V DC MCC (2PB-1)	АВ	3	1	Y	Y	None	N/A
AB3-3	R3200S020C	16	DC DIV1 2A 1-2 130V BATT CHGR	АВ	3	1	Υ	Y	None	N/A
AB3-4	T4100B044	10	RBHVAC DIV2 BATT CHARGER RM FAN COIL UNITS	АВ	3	1	Y	Υ,	None	N/A
A03-4	T4100C009	9	RBHVAC WEST BATT RM EAST ESSENTIAL EXH FAN	АВ	3	1	Υ	, ,	None	None 147
AB4-1	H21P080	20	LOC PNL/RACK (MR ONLY) ECCS TRIP UNIT CAB DIV1 INST RACK	АВ	4	1	Υ	Υ	None	N/A
	H21P081	18	LOC PNL/RACK (MR ONLY) LOCAL PNL AND RACKS DIV2 ECCS TRIP UNIT INST RACK	АВ	4	1	Y			
AB4-2	H21P083	18	LOC PNL/RACK (MR ONLY) ECCS TRIP UNIT CAB DIV2 INST RACK	АВ	4	1	Y	Y	None	N/A
AD4-2	H21P085	18	LOC PNL/RACK (MR ONLY) RPS TRIP UNIT CAB A2 DIV2 INST RACK	АВ	4	1	Y	1	None	
	H21P087	18	LOCAL PNL AND RACKS RPS TRIP UNIT CAB B2 DIV2 INST RACK	АВ	4	1	Y			
AB4-3	T4100F041	7	CCHVAC NORMAL INTAKE AIR DIV1 ISO DAMPER (A.O.)	АВ	4	1	Υ	Y	None	N/A

AWC Reference	PIS#	Equip. Class	Component Description	Bldg.	Floor	SWEL List (1,2)	50% Anchor Verif. (Y.N)	Status of AWC (Y,N,U)	CARDs Issued	Remarks
	H21P296A	20	LOC PNL/RACK (MR ONLY) CCHVAC DIV1 INST RACK	АВ	5	1	N			
AB5-1	T4100B009	11	CCHVAC NORTH DIV1 AIR CONDITIONER CH	АВ	5	1	Υ	N	12-27556	Floor Drain does not match drawing M-2221.
	T41F101A	8	CCHVAC OUTSIDE AIR DAMPER F033A CTRL DIV1 SOV	AB	5	1	Y			
RBSB-1	E1150F004C	8	RHR DIV1 PUMP "C" SUPR POÓL SUCT ISO MOV	RB	SB	1	N	Y	None	N/A
RBSB-2	E2101C001C	5	CS DIV1 "C" PUMP	RB	SB	1	N		12 26057	Hose Reel Support Column Missing Anchor Nut.
KBSB-2	E5150F045	8	RCIC TURB STM INLET ISO MOV	RB	SB	1	N		Y 12-26957	Hose Reel support Column Wissing Anchor Nut.
	E4101C001C	5	HPCI TURB DRIVEN OIL PUMP	RB	SB	1	N			
RBSB-3	E4150F001	8	HPCI TURB STM SPŁY ISO MOV	RB	SB	1	N	Y	None	N/A
KDSD-S	E4150F004	8	HPCI BOOSTER PUMP SUCT FROM CST ISO MOV	RB	SB	1	N	·	None	
	H21P420	18	LOC PNL/RACK (MR ONLY) HPCI DIV2 TURB AND PILOT VLV INST RACK	RB	SB	1	Y			
RBSB-4	H21P614B	18	LOC PNL/RACK (MR ONLY) TORUS MON SYS INST RACK	RB	SB	1	Y	Υ	None	N/A
RBB-1	E2150F031A	8	CS DIV1 MIN FLOW/RECIRC ISO MOV	RB	В	1	N	Υ	12-26997	Demin. Water Valve, P1100F099D, With Slight Leak Valve (Housekeeping Issue, Not Seismic Issue).
RBB-2	P50P402B	18	CA DRYER RELAY PANEL INSTRUMENT RACK	RB	В	1	Υ	Y	None	N/A
DD4 4	C1103D128	21	CRD NUMBER 34-27 HYD CTRL UNIT	RB	1	1	Y	N 12-	12 2000	Broken Support Cable On Structural Member Above MCC 72E-
RB1-1	H21P010	18	LOC PNL/RACK (MR ONLY) JET PUMP RACK B DIV2 INST RACK	RB	1	1	Y		12-26588	12-26588 5A.
RB1-2	C11F160B	8	CRD DIV2 SOV	RB	1	1	Υ	Υ	None	N/A

AWC Reference	PIS#	Equip. Class	Component Description	Bldg.	Floor	SWEL List (1,2)	50% Anchor Verif. (Y.N)	Status of AWC (Y,N,U)	CARDs Issued	Remarks
204.2	C11F163A	8	CRD SOV	RB	1	1	Y	.,		
RB1-3	C11F182A	8	CRD SCRAM DISCH VOL VENT & DRAIN VLV F180 & F181 PILOT AIR 'A' SOV	RB	1	1	Y	Υ	None	N/A
RB1-4	E1150F016A	8	RHR DIV1 DRYWELL SPRAY OTBD ISO MOV	RB	1	1	N	Y	None	N/A
KB1-4	T49P400A	18	PC PNEU DIV1 SPLY INST RACK	RB	1	1	Y		None	
R81-5	P4400F601B	8	RBCCW DIV2 RTRN ISO MOV	RB	1	1	. N	N	12-26586	Core Spray Line in Contact with Handrail
K81-3	P4400F603B	8	RBCCW DIV2 SPLY ISO MOV	RB	1	1	N	14	12-20300	26586 Core Spray Line in Contact with Handrail.
RB1-6	G4100F016	0	FPCC SKIMMER SURGE TNK TO RESIDUAL HEAT REMOVAL ISO VLV	RB	1	2	N	Y	None	N/A
RB2-1	C4104F004A	8	SLC EXPLOSIVE (SQUIB) VLV	RB	2	1	N	Y	None	N/A
NOZ-1	H21P632	20	LOCAL PNL & RACKS DSD MCC 72F- 4A LOCAL CTRL	RB	2	1	Y	'		190
RB2-2	E1150F068A	8	RHR DIV1 HX "A" SERVICE WATER OUTLET ISO MOV	RB	2	1	N	Y	None	N/A
RB2-3	H21P448	18	LOC PNL/RACK (MR ONLY) EECW DIV2 INST RACK	RB	2	1	Y		N	2/4
KB2-3	P44K400B	0	EECW DIV2 ELECTRIC TO PNEUMATIC CONVERTER FOR TEMP CRTL VLV F400B	RB	2	1	N	Υ .	None	N/A
RB2-4	P44008001B	21	EECW DIV2 PLATE FRAME HX	RB	2	1	Y	Υ	None	N/A
	P4400B001C	21	EECW DIV1 PLATE FRAME BACKUP HX.	RB	2	1	Y			
RB2-5	P44F400A	7	EECW DIV1 HX B001A/B001C SW OUTLET TEMP CTRL AOV TEMP CRTL VLV	RB	2	1	N	Y	None	N/A
	P44N401A	19	EECW HX 8001A / B001C RTRN T/C	RB	2	1	N			

AWC Reference	PIS#	Equip. Class	Component Description	Bldg.	Floor	SWEL List (1,2)	50% Anchor Verif. (Y.N)	Status of AWC (Y,N,U)	CARDs Issued	Remarks
	P4400C001A	5	EMERGENCY EQUIPMENT COOLING WATER DIV1 PUMP	R8	2	1	Y			
RB2-6	P44F402A	7	EECW M/U TANK A001 DIV1 V8- 2364 LVL CRTL AOV	RB	2	1	N	Y	None	N/A
	P44P403A	0	EECW DIV1 N2 GAS SPLY TO M/U TANK STORAGE RACK	RB	2	1	Y			
000 7	P44F402B	7	EECW M/U TANK A002 DIV2 V8- 2362 LVL CRTL AOV	RB	2	1	N	,		
RB2-7	T4100B035	10	RBHVAC EECW PUMP RM COOL UNIT	RB	2	1	Υ	Y	None	N/A
RB2-8	T50F450	8	PCAM PC RAD MON SYS INLET ISO VLV V5-3083 SOV	RB	2	1	N	Y	None	N/A
RB3-1	T4600F407	7	SGTS FROM RB EXH SYS ISO AOV	RB	3	1	N	Y	None	N/A
									12-26633	Loose Heat Trace Pull-Boxes on Pump C4103C001A.
R84-1	C4103C001A	5	SLC NORTH REACTOR PUMP	RB	4	1	Y	N	12-26855	Leak in SLC Storage Tank Isolation Valve C4100F001 (Housekeeping Issue, Not Seismic Issue).
									12-27488	Oil Leak in SLC Pump B C4103C001B (Housekeeping Issue, Not Seismic Issue).
RB5-1	G4100F045A	0	FPCC FUEL STRG POOL DIFFUSER "A" ISO VLV	RB	5	2	N	Υ	None	N/A
RHR1-1	E1151C001C	6	RHRSW SOUTH PUMP ROOM SOUTH SERVICE WATER "C" PUMP	RHR	1	1	Y	Y	None	N/A
RHR1-2	P4500C002B	6	EMERGENCY EQUIPMENT SERVICE WATER NORTH PUMP	RHR	1	1	Υ	Υ	None	N/A
RHR1-3	R3000A011	21	EDG 11 W STARTING AIR RECEIVER	RHR	1	1	Y	Y	None	N/A
RHR1-4	R3000D002	12	EDG 12 STARTING AIR COMPRESSOR	RHR	1	1	Υ	Y	None	N/A
RHR1-5	R3000F023D	7	EDG 14 ACS 3-WAY TEMP CTRL VLV	RHR	1	1	N	Y	None	N/A
RHR1-6	R3001B004	21	EDG 14 LUBE OIL HX	RHR	1	1	Y	Y	None	N/A

Table D-1 - Summary of Area Walk-By Checklists

AWC Reference	PIS#	Equip. Class	Component Description	Bldg.	Floor	SWEL List (1,2)	50% Anchor Verif. (Y.N)	Status of AWC (Y,N,U)	CARDs Issued	Remarks
RHR1-7	R3001C006	6	EDG 12 SERVICE WATER PUMP	RHR	1	1	Y	2	12-26977	Braces on EDGSW Pump/Motor R3001C005 and C006 are not identified on vendor drawings. Broken Valve Label for E1150F605A (Housekeeping Issue, Not Seismic Issue).
RHR1-8	R3001S001	17	EDG 11 4160V	RHR	1	1	Υ	Y	None	N/A
RHR1-9	R30FA05B	8	EDG 13 THREE WAY AIR START CYL 1- 6 SOLENOID VLV	RHR	1	1	N	N	12-26861	Light Fixture is against Diesel Service Water Supply Pipe.
RHR1-10	R30NA17A	0	EDG 11 MAGNETIC PICKUP SPEED XMTR	RHR	1	1	Υ	Y	None	N/A
RHR1-11	R30P320	20	EDG ENGINE GAUGE PNL	RHR	1	1	Y	Y	None	N/A
RHR1-12	R30P343D	20	EDG 14 DIV2 SERIES BOOST EXCITER/V REG PNL	RHR	1	1	N	Y	None	N/A
RHR2-1	E1156C001C	9	RHR SW MDCT FAN	RHR	2	1	Y	Y	None	N/A
	R1400S039B	4	SWGR DIV2 480V ESS BUS 72ED V REG	RHR	2	1	Y			
RHR2-2	R1600S019A	1	MCC/DIST CAB 480V MCC NO 72ED- 2D (EDG 14)	RHR	2	1	Y	N	12-26985	Light Fixtures Above Switchgear In Contact With Cable Tray.
	X41N056D		HVAC RHR EDG SWGR RM RTRN AIR DMPRS X4103C015 & C016 DIV2 RTD	RHR	2	1	Υ			
RHR2-3	X4103C001	9	RHRHVAC EDG 11 RM E VENT FAN	RHR	2	1	Y	Y	None	N/A
RHR2-4	X4103C007	9	RHRHVAC EDG 14 RM E VENT FAN	RHR	2	1	Y	Y	None	N/A

Total AWC checklists: 50