NJPR-12-0043

Sheet 1 of 3 Status: Y N U

Seismic Walkdown Checklist (SWC)	•
Equipment ID No. C4104F004A Equip. Class 8-Motor Operated an	d Solenoid Operated Valves
Equipment Description SLC Explosive (SQUIB) Valve	·
Location: Bldg. RB Floor El. 613'-6" Room, Area A-17. Col C	-11
Manufacturer, Model, Etc. (optional but recommended) P/N 7048-17000-01	
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□ N ⊠
2. Is the anchorage free of bent, broken, missing or loose hardware? All visible anchorage associated with this asset is in good condition and intact, see picture 1.	Y⊠ N□ U□ N/A□
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	YM NO UO N/AO
There is no anchorage with corrosion or surface oxidation. (See picture 1.)	
4. Is the anchorage free of visible cracks in the concrete near the anchors? There are no visible cracks in the concrete near the pipe hanger anchorage.	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.)	Y NU UU N/AX
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	YX NO UO
· · · · · · · · · · · · · · · · · · ·	MPS 10/3/12

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. C4104F004A Equip. Class ¹ 8-Motor Operated an	d Solenoid Operated Valves
Equipment Description SLC Explosive (SQUIB) Valve	
Interaction Effects	
7. Are soft targets free from impact by nearby equipment or structures? The asset does not have any soft targets. (See picture 1.)	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? The asset is protected overhead by the concrete slab. (See picture 2.)	YM N□ U□ N/A□
9. Do attached lines have adequate flexibility to avoid damage? The attached lines have adequate flexibility. (See picture 3.)	Y⊠ N□ U□ N/A□
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?	YX N□ U□

MPS 10/3/12

No other adverse seismic conditions were identified.

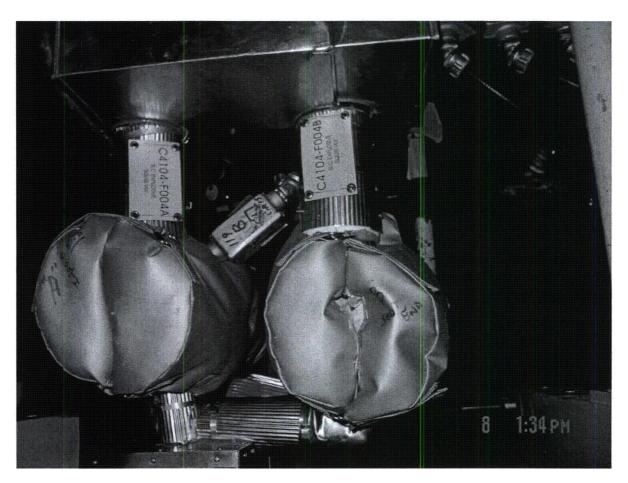
NJPR-12-0043

Sheet 3 of 3 Status: (Y) N U

Seismic Walkdown Checklist (SWC)
Equipment ID No. <u>C4104F004A</u> Equip. Class' 8, Motor Operated and Solenoid Operated Equipment Description <u>SLC Explosive</u> (SQUIB) VIV.
Comments (Additional pages may be added as necessary)
Seismic Engineer Walkdown PSE-53Qualified
Evaluator #1: Michel P. Dasso Date: 8/8/2012
Evaluator #2: Scott Bank Date: 8/8/2012
Evaluator #2: Scott 1)ane Date: 8/8/2012

Equipment ID No. <u>C4104F004A</u> Equipment Class: <u>8, Motor/Solenoid-Operated Valves</u>

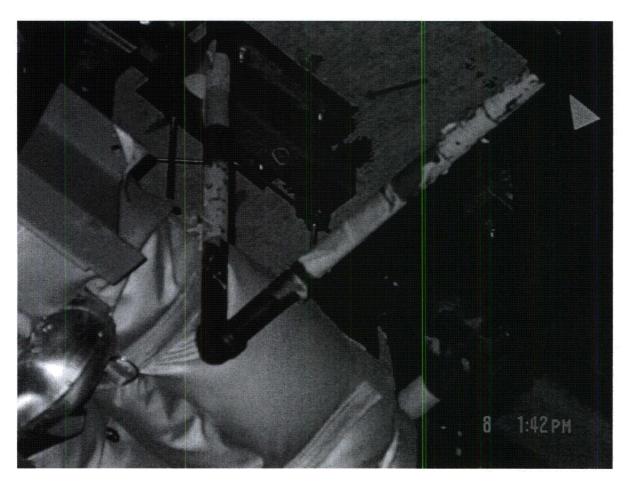
Equipment Description <u>SLC Explosive (SQUIB) Valve</u>



(Picture 1)

Equipment ID No. <u>C4104F004A</u> Equipment Class: <u>8, Motor/Solenoid-Operated Valves</u>

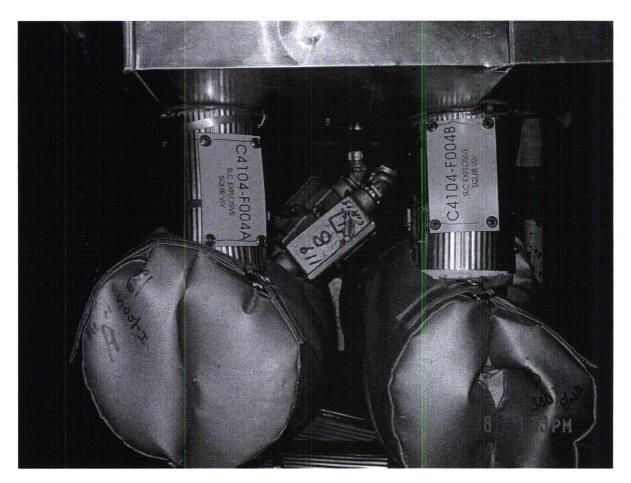
Equipment Description <u>SLC Explosive (SQUIB) Valve</u>



(Picture 2)

Equipment ID No. <u>C4104F004A</u> Equipment Class: <u>8, Motor/Solenoid-Operated Valves</u>

Equipment Description <u>SLC Explosive (SQUIB) Valve</u>



(Picture 3)

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Sheet 1 of 3 Status: Y N U

Seismic waikdown Checklist (SWC)	
Equipment ID No. E1150F004C Equip. Class 8, Motor/Solenoid-Op	perated Valves
Equipment Description RHR Div. I Pump C Suppression Pool Suction Isolation	MOV
Location: Bldg. <u>RB</u> Floor El. <u>540'-0"</u> Room, Area <u>A-01, Col. C</u>	-13
Manufacturer, Model, Etc. (optional but recommended) Powell valve, 3023 WE	E/Limitorque Operator, SMB-2
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□ N ⊠
2. Is the anchorage free of bent, broken, missing or loose hardware? Anchorage and hardware is in good condition. See pictures 1 & 3.	Y⊠ N□ U□ N/A□
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	Y⊠ N□ U□ N/A□
There is no observed corrosion or surface oxidation. See picture 1 & 3.	
4. Is the anchorage free of visible cracks in the concrete near the anchors? The assets anchorage is not mounted on/in 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 an anchorage configuration verification is required.)	Y□ N□ U□ N/A⊠
Line mounted equipment is not required to be evaluated for anchorage adequacy and should not be counted in establishing the 50% sample size.	
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	YM NO UO

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. <u>E1150F004C</u> Equip. Class 8, <u>Motor/Solenoid-Op</u>	perated Valves
Equipment Description RHR Div. I Pump C Suppression Pool Suction Isolation	MOV
Interaction Effects	
7. Are soft targets free from impact by nearby equipment or structures? There are no observed impact sources.	YM N U U N/A
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? The catwalk structure above has adequate structural design. See picture 9. No ceiling tiles or masonry walls in the area.	Y ⊠ N□ U□ N/A□
9. Do attached lines have adequate flexibility to avoid damage? Attached lines to motor operator have adequate flexibility. See flex conduit in picture 1.	Y Z N U U N/A
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	ט טו אַץ ע
Other Adverse Conditions	
11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment?	YX N U

No other seismic conditions found that could adversely affect the safety

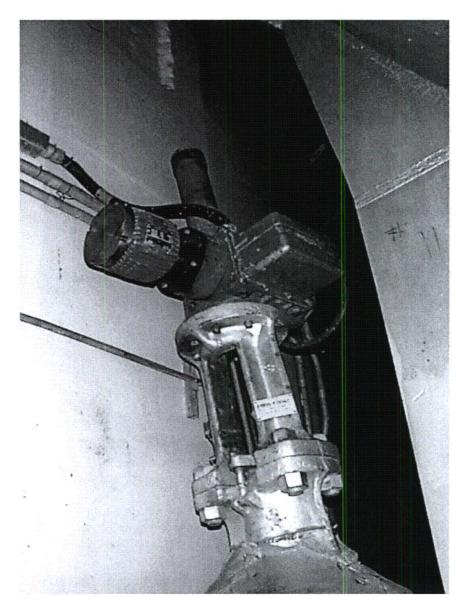
functions of the equipment.

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Sheet 3 of 3 Status: N U

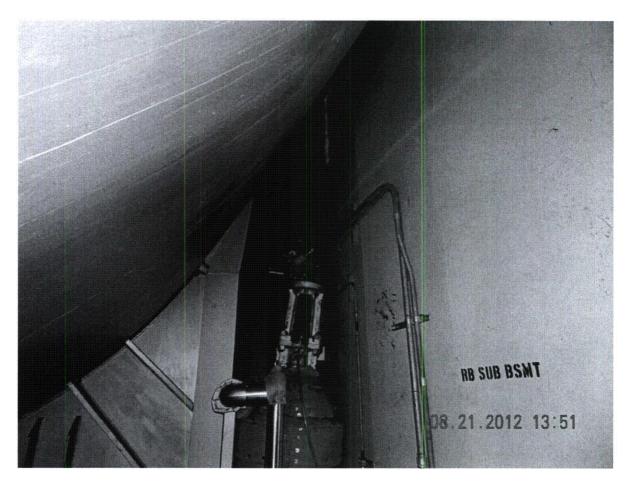
Seismic Walkdown Checklist (SWC)	
Equipment ID No. E1150 F004 C Equip. Class 8, Solenoi	OPERATED AND D-OPERATED VALVES
Equipment Description RHR DIV I PUMP C SUPR P	
Comments (Additional pages may be added as necessary)	
	·
🕱 Seismic Engineer Walkdown PSE-53Qualified	
Evaluator #1: Mihal P. Sasso	Date: 8/21/12
🛚 Seismic Engineer Walkdown PSE-53Qualified	
Evaluator #2: Romeday	Date: Aug. 21, 12_

Equipment ID No. <u>E1150F004C</u> Equipment Class: <u>8, Motor/Solenoid-Operated Valves</u>
Equipment Description <u>RHR Div. I Pump C Suppression Pool Suction Isolation Valve</u>



(Picture 1)

Equipment ID No. <u>E1150F004C</u> Equipment Class: <u>8, Motor/Solenoid-Operated Valves</u>
Equipment Description <u>RHR Div. I Pump C Suppression Pool Suction Isolation Valve</u>



(Picture 3)

Equipment ID No. <u>E1150F004C</u> Equipment Class: <u>8, Motor/Solenoid-Operated Valves</u>

Equipment Description <u>RHR Div. I Pump C Suppression Pool Suction Isolation Valve</u>



(Picture 9)

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Sheet 1 of 3 Status: N U

Seismic Walkdown Checklist (SWC)	
Equipment ID No. E1150F016A Equip. Class 1 8-Motor and Solenoid	d-Operated Valves
Equipment Description Div. I RHR DW Spray OTBD Isolation Valve	
Location: Bldg. RB Floor El. 583'-6" Room, Area A-12, Col. B	-13
Manufacturer, Model, Etc. (optional but recommended) <u>Limitorque SMB-3, Po</u>	owell 3051WE
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□ 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 attached to is own piping system with hardware that is in good condition. (See Picture 1.)	Y NO UN N/AX
3. Is the anchorage free of corrosion that is more than mild surface oxidation? There is no anchorage.	Y NU UNAX
4. Is the anchorage free of visible cracks in the concrete near the anchors? The asset is not anchored to 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 anchorage configuration verification is required.)	Y NU UU N/A X
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

NJPR-12-0043

Sheet 2 of 3 Status: N U

Seismic Walkdown Checklist (SWC)

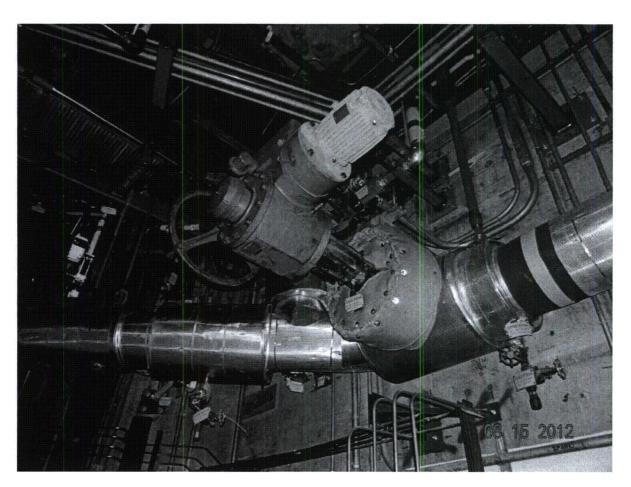
Equipment ID No. E1150F016A Equip. Class 8-Motor and Solenoid-Operated Valves		
Equipment Description <u>Div.I RHR DW Spray OTBD Isolation Valve</u>		
Interaction Effects		
7. Are soft targets free from impact by nearby equipment or structures? There are no observed impact sources within striking distance?	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? There are no observed overhead hazards. (See picture 5 and 6.)	YM N□ U□ N/A□	
9. Do attached lines have adequate flexibility to avoid damage? Attached lines are made of flexible material. (See picture 4.)	Y⊠ N□ U□ N/A□	
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	Y X U 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 seismic conditions were identified.	Y ⊠ N□ U□	

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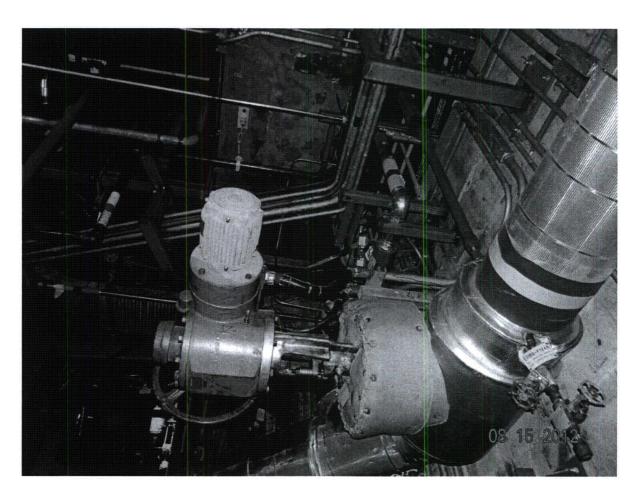
NJPR-12-0043

Sheet 3 of 3 Status: (Y) N U

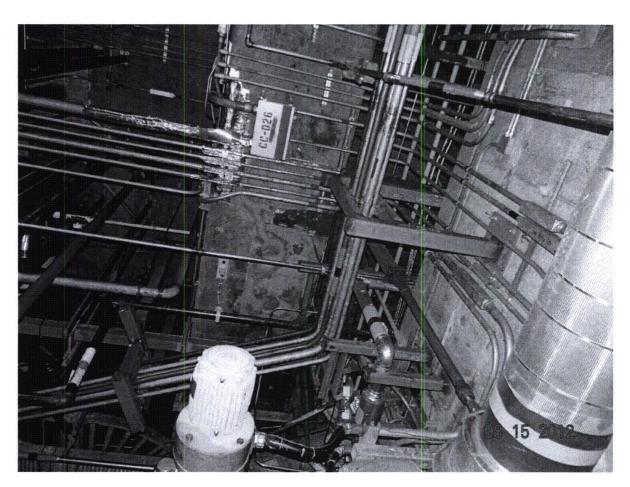
Seismic Walkdown Checklist (SWC)
Equipment ID No. <u>F1150F016A</u> Equip. Class' 8-MOV and SOV Equipment Description <u>Div. 1 RHR DW Spray OTBD Iso Valve</u>
Comments (Additional pages may be added as necessary)
Seismic Engineer Walkdown PSE-53Qualified Evaluator #1: Michel P. Dasso Date: 8/15/12
Seismic Engineer Walkdown PSE-53Qualified
Evaluator #2: Scott Haule Date: 8/15/12



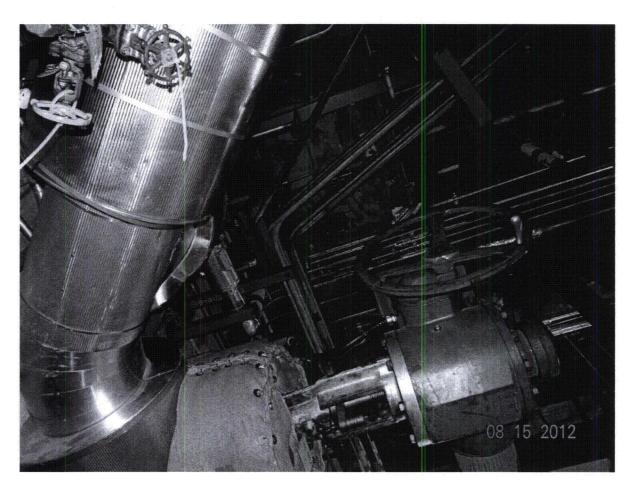
(Picture 1)



(Picture 4)



(Picture 5)



(Picture 6)

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Sheet 1 of 3 Status: N U

Seismic Walkdown	Checklist ((SWC)
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Equipment ID No. E1150F068A Equip. Class 8-Motor-and Solenoid-Operated Valves			
Equipment Description Div. I RHR HX Service Water Outlet FCV			
Location: Bldg. RB Floor El. 613'-6" Room, Area A-22N, Col.	C-17		
Manufacturer, Model, Etc. (optional but recommended) Powell 1551WE			
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□ N ⊠		
2. Is the anchorage free of bent, broken, missing or loose hardware? The asset is not anchored to concrete. It is attached to its piping system via a flanged connection. (See picture 6.)	Y□ N□ U□ N/A ⊠		
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	Y□ N□ U□ N/A⊠		
See comment for question 2.			
4. Is the anchorage free of visible cracks in the concrete near the anchors? Not anchored to 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 anchorage configuration verification is required.)	Y_ N_ U_ N/AM		
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	Y⊠ N□ U□		
Enter the equipment class name from Annordiy Dr Classes of Equi	MPS 10/4/12		

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Sheet 2 of 3 Status: (Y) N U

Seismic	Walkdown	Checklist ((SWC)
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Equipment ID No. E1150F068A Equip. Class 8-Motor-and Solenoid-Operated Valves				
Equipment Description Div. I RHR HX Service Water Outlet FCV				
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 onto soft targets.	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 observed overhead hazards. (See picture 10 and 11.)	Y⊠ N□ U□ N/A□			
9. Do attached lines have adequate flexibility to avoid damage? Attached lines are flex conduit, which has adequate flexibility. (See picture 12.)	Y⊠ N□ U□ N/A□			
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? No other adverse seismic conditions were identified.	YX NO UO			

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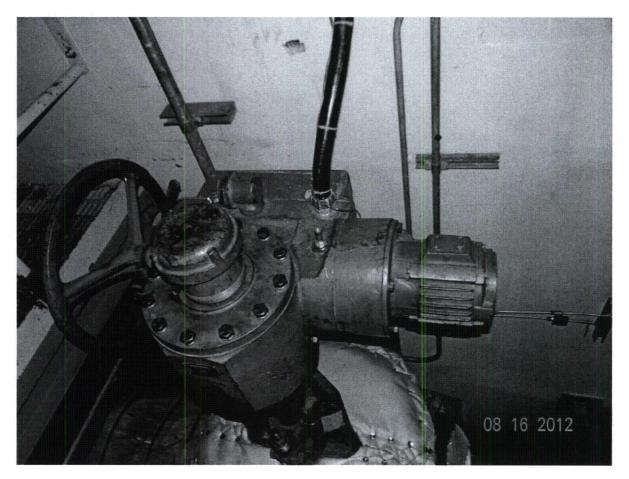
NJPR-12-0043

Sheet 3 of 3 Status: (Y) N U

Seismic Walkdown Checklist (SWC)
Equipment ID No. E1150F068A Equip. Class 8 - MOV and SOV
Equipment Description Div. 1 RHR HX Service Water Outlet FCV
Comments (Additional pages may be added as necessary)
Seismic Engineer Walkdown PSE-53 Qualified Evaluator #1: Model Source Sour
Evaluator #2: Scott Baner Walkdown PSE-53 Qualified Date: 8/16/12

Equipment ID No. <u>E1150F068A</u> Equipment Class: <u>8, Motor & Solenoid Operated Valves</u>

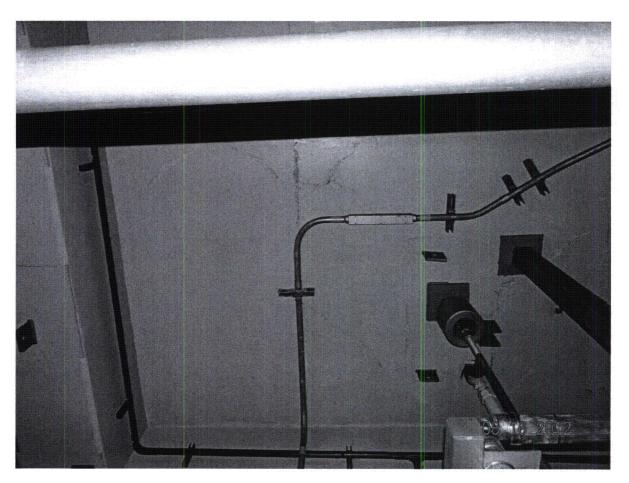
Equipment Description <u>DIV 1 RHR Hx Service Water Outlet FCV</u>



(Picture 6)

Equipment ID No. <u>E1150F068A</u> Equipment Class: <u>8, Motor & Solenoid Operated Valves</u>

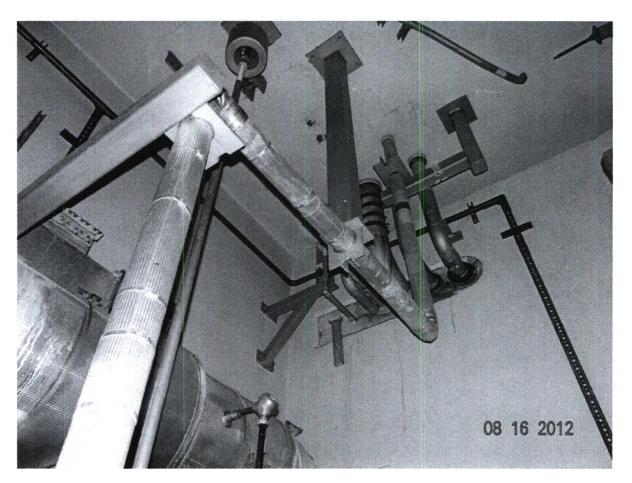
Equipment Description <u>DIV 1 RHR Hx Service Water Outlet FCV</u>



(Picture 10)

Equipment ID No. <u>E1150F068A</u> Equipment Class: <u>8, Motor & Solenoid Operated Valves</u>

Equipment Description <u>DIV 1 RHR Hx Service Water Outlet FCV</u>

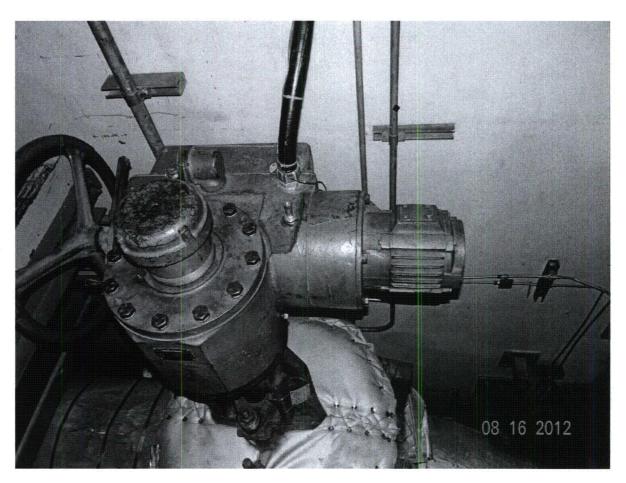


(Picture 11)

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Equipment ID No. <u>E1150F068A</u> Equipment Class: <u>8, Motor & Solenoid Operated Valves</u>

Equipment Description <u>DIV 1 RHR Hx Service Water Outlet FCV</u>



(Picture 12)

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Sheet 1 of 3 Status: (Y) N U

Seismic Walkdown Checklist (SWC)	
Equipment ID No. E1151C001C Equip. Class 6, Vertical Pumps	
Equipment Description South Service Water "C" Pump	
Location: Bldg. <u>RHR</u> Floor El. <u>590'-0"</u> Room, Area <u>SRHRPR, Col. E-2</u>	
Manufacturer, Model, Etc. (optional but recommended) Gould Pumps Inc., VIT 12x18 HMC	
Instructions for Completing Checklist This checklist may be used to document the results of the Seismic Walkdown of an item of equi SWEL. The space below each of the following questions may be used to record the results of ju findings. Additional space is provided at the end of this checklist for documenting other comme	dgments and
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? Y⊠ N□ U□ All anchors are in good condition.] N/A□
3. Is the anchorage free of corrosion that is more than mild surface Y⊠ N□ U□ oxidation? Bolts are painted (see photo DSC 01355).] N/A[]
4. Is the anchorage free of visible cracks in the concrete near the anchors? Y⋈ N□ U□ No visible cracks on concrete pier or floor.] 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 an anchorage configuration verification is required.) Anchor configuration is consistent with Dwg. M-N-2090-5, Rev Q (No postings); DSN: MD 21146, Rev N (No applicable postings) and Dwg. M-N-2090-4, Rev P (No applicable Postings). (see photo DSC 01354)] N/A□
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Free of potentially adverse seismic conditions, no concerns identified. Y[☒ 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)		

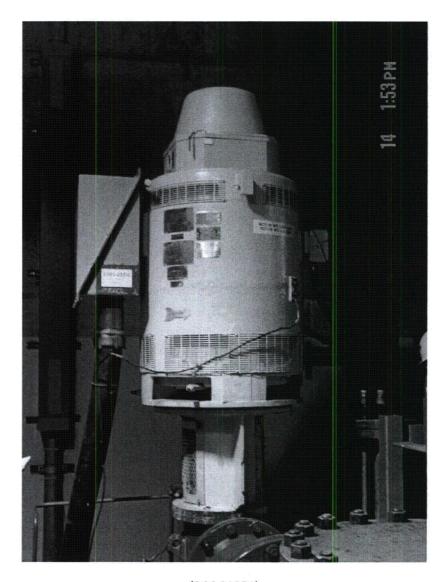
Equipment ID No. E1151C001C Equip. Class 6, Vertical Pumps	
Equipment Description South Service Water "C" Pump	
Interaction Effects	
7. Are soft targets free from impact by nearby equipment or structures? No nearby equipment, cable trays or piping to impact the pump. (See photo DSC 01357).	YX NO UO N/AO
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? No equipment, ceiling tiles, lighting, and masonry block walls. Conduits/cables are adequately supported.	YX NO UO N/AO
9. Do attached lines have adequate flexibility to avoid damage? Lines have adequate flexibility. (See photo DSC 01351).	YX NO UO N/AO
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	YX UD
Other Adverse Conditions	
	YM NO UO
11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? None identified.	IM NO OC

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Sheet 3 of 3 Status: (Y) N U

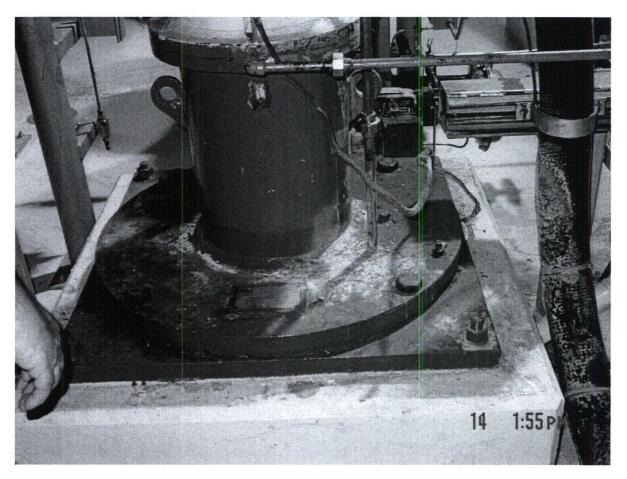
Seismic walkdown	i Checklist (SVVC))		
Equipment ID No. E	1151C001C	_ Equip. Class ¹ 6, Vertical 1	Pumps	
Equipment Descriptio	n <u>South Service Wa</u>	ater "C" Pump		
Comments (Additiona	l pages may be added	as necessary)		
None				
X Seisi	mic Engineer Walkd	lown PSE-53 Qualified		
Evaluator #1:	Romadler	-f	Date:	8/14/12
		,		1 '
X Seis	mic Engineer Walkd	lown PSE-53 Qualified		
Evaluator #2:	ML		Date:	08/4/12
	~ \psi			, ,

Equipment ID No. <u>E1151C001C</u> Equipment Class: <u>6, Vertical Pumps</u>



(DSC 01351)

Equipment ID No. <u>E1151C001C</u> Equipment Class: <u>6, Vertical Pumps</u>



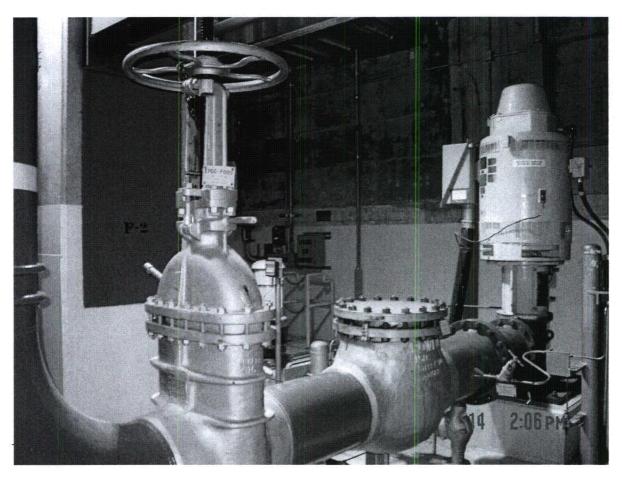
(DSC 01354)

Equipment ID No. <u>E1151C001C</u> Equipment Class: <u>6, Vertical Pumps</u>



(DSC 01355)

Equipment ID No. <u>E1151C001C</u> Equipment Class: <u>6, Vertical Pumps</u>



(DSC 01357)

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Sheet 1 of 3 Status: N U

Seisiffic Walkdown Checklist (SWC)	
Equipment ID No. E1156C001C Equip. Class 9, Fans	
Equipment Description RHR SW MDCT Fan	
Location: Bldg. RHR Floor El. 617'-0" Room, Area SRHRCT, Co	ol. B-3
Manufacturer, Model, Etc. (optional but recommended) Marley Cooling Towe	r Co 240" DIA HP4-8
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	
 Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? All bolts verified. 	A X N D
2. Is the anchorage free of bent, broken, missing or loose hardware? Anchors in good condition. See photos DSCN 0414 & 0420.	YM UU U/AU
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	YM N□ U□ N/A□
No corrosion or mild surface oxidation. See photos DSCN 0414 & 0420.	
4. Is the anchorage free of visible cracks in the concrete near the anchors? No visible cracks in concrete floor/pad.	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 an anchorage configuration verification is required.)	YX NO UO N/AO
Anchor configuration is consistent with the following drawings: M-N-2090-4 Rev. P (Anchor bolt schedule), M-N-2090-5 Rev. Q, DDVEND 2858C77 Rev I & 222C602 PT 1/22/1980.	
ALL REFERENCED DOCUMENTS WERE REVIEWED DAK 10/12/12 AND NO APPLICABLE POSTINGS WERE FOUND. 6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	ט טע אַץ

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

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None identified.

Sheet 2 of 3 Status: Y N U

Seismic Walkdown Checklist (SWC)				
Equipment ID No. <u>E1156C001C</u> Equip. Class 1 9, Fans				
Equipment Description RHR SW MDCT Fan				
Interaction Effects				
7. Are soft targets free from impact by nearby equipment or structures? Existing cylinders nearby are securely fastened. Junction boxes are also adequately supported. No potential impact on the fan (see photo DSCN 0418).	YX 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? Area has no observed equipment, ceiling tiles or lighting.	YM N□ U□ N/A□			
9. Do attached lines have adequate flexibility to avoid damage? Attached lines have flex conduit or loops. Attached lines attached to cylinders.	Y ⊠ N□ U□ N/A□			
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	UD □N K YY			
Other Adverse Conditions 11. Have you looked for and found no other seismic conditions that could	YM N U			
adversely affect the safety functions of the equipment?	· Marian on			

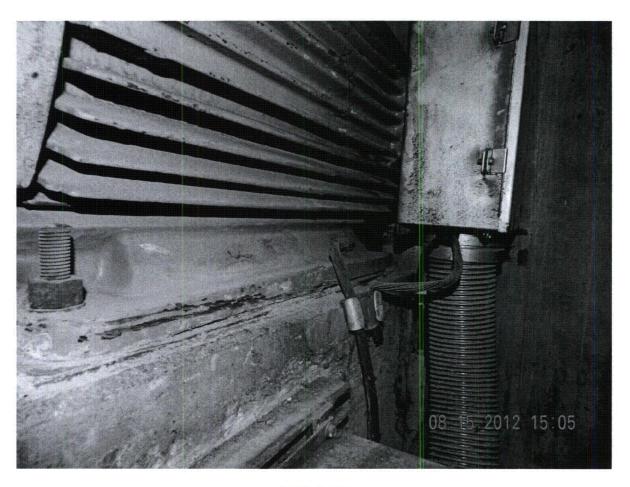
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Sheet 3 of 3 Status: N U

Seismic Walkdown Checklist (SWC)		
Equipment ID No. E1156C001C Equip. Class 9, Fans		
Equipment Description RHR SW MDCT Fan		
Comments (Additional pages may be added as necessary)		
X Seismic Engineer Walkdown PSE-53 Qualified		
Evaluator #1:	Date:	8/15/12
7	. =	
☐ Seismic Engineer Walkdown PSE-53 Qualified ☐		
Evaluator #2:	Date:	08/15/12
Evaluation 112.	. Date.	

Equipment ID No. <u>E1156C001C</u> Equipment Class: <u>9, Fans</u>

Equipment Description RHR SW MDCT Fan

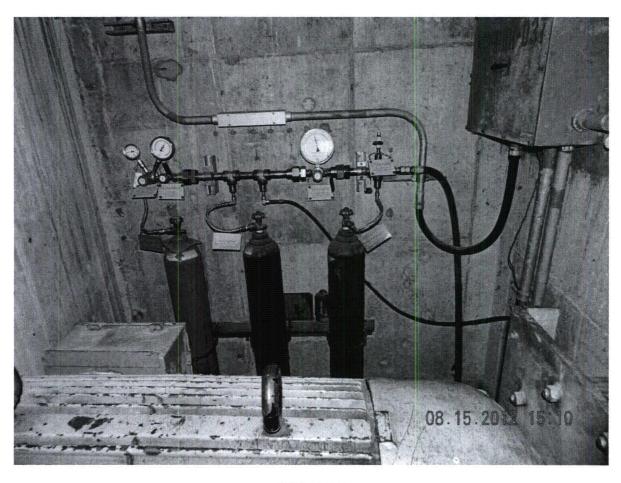


(DSCN 0414)

Bolt Configuration (Back)

Equipment ID No. <u>E1156C001C</u> Equipment Class: <u>9, Fans</u>

Equipment Description RHR SW MDCT Fan



(DSCN 0418)

Equipment ID No. <u>E1156C001C</u> Equipment Class: <u>9, Fans</u>

Equipment Description RHR SW MDCT Fan



(DSCN 0420)

Bolt Configuration (Front)

NJPR-12-0043

Sheet 1 of 3 Status: N U

Seismic Walkdown Checklist (SWC)	
Equipment ID No. <u>E2101C001C</u> Equip. Class 1 <u>7-Pneumatic-Operate</u>	ed Valve
Equipment Description CS DIV 1 "C" Pump	
Location: Bldg. RB Floor El. 540'-0" Room, Area A-05, Col. G	-15
Manufacturer, Model, Etc. (optional but recommended) <u>Borg-Warner Corp. J.</u>	W-4106-DJ
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)?	у□ и ⊠
2. Is the anchorage free of bent, broken, missing or loose hardware? All anchors present and secure.	Y ⊠ N□U□N/A□
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	Y⊠ N□ U□ N/A□
No corrosion observed.	
4. Is the anchorage free of visible cracks in the concrete near the anchors? No concrete cracks observed.	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 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?	Y⊠ N□ U□
Enter the equipment class name from Appendix B: Classes of Equi	pment MPS 10/3/12

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Sheet 2 of 3 Status: Y N U

Seismic Walkdown	Checklist ((SWC)
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No adverse conditions were identified.

Equipment ID No. <u>E2101C001C</u> Equip. Class ¹ <u>7-Pneumatic-Operated Valve</u>	
Equipment Description CS DIV 1 "C" Pump	
Interaction Effects	
7. Are soft targets free from impact by nearby equipment or structures? There are no impact sources observed nearby.	YM UU U/AÚ
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Lights above are swivel mounts that will not affect the asset. Overhead pipes/conduit are appropriately supported.	Y⊠ N□ U□ N/A□
9. Do attached lines have adequate flexibility to avoid damage? Attached lines are made of a flexible material or are looped to provide adequate flexibility. (See Picture 18.)	YM N□ U□ N/A□
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? The asset and a local support brace have a minimum clearance of approximately 1½". These items are quite rigid and robust, therefore they do not pose an adverse seismic interaction per engineering judgment.	Y⊠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?	YX NO UO

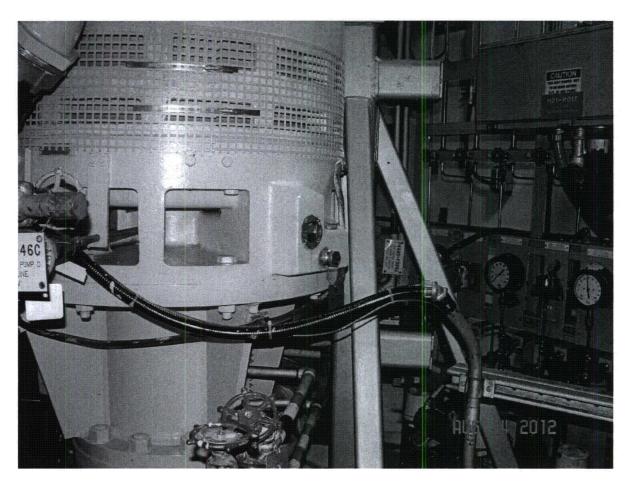
NJPR-12-0043

Sheet 3 of 3 Status: Y N U

Seismic Walkdown Checklist (SWC)
Equipment ID No. <u>E2101COOLC</u> Equip. Class 5, Horizontal Pumps Equipment Description <u>CS DW 1 "C" PUMP</u> .
Comments (Additional pages may be added as necessary)
Evaluator #1: Mike P. Daso Date: 8/21/12
Seismic Engineer Walkdown PSE-53Qualified
Evaluator #2: Scott Hauen Date: 8/21/12

Equipment ID No. <u>E2101C001C</u> Equipment Class: <u>5, Horizontal Pumps</u>

Equipment Description <u>CS DIV 1 "C" Pump</u>



(Picture 18)

NJPR-12-0043

Sheet 1 of 3 Status: N U

Equipment ID No. E2150F031A Equip. Class 8, Motor-Operated and S	Solenoid-Operated Valves
Equipment Description Div. I CS Pumps Min. Flow Valve	
Location: Bldg. RB Floor El. 568'-0" Room, Area A-08/Col. G-15	<u> </u>
Manufacturer, Model, Etc. (optional but recommended) Limitorque SMB-000	
Instructions for Completing Checklist	
This checklist may be used to document the results of the Seismic Walkdown of an SWEL. The space below each of the following questions may be used to record the findings. Additional space is provided at the end of this checklist for documenting or	results of judgments and
Anchorage	
1. Is the anchorage configuration verification required (i.e., is the item one YI of the 50% of SWEL items requiring such verification)?	□ N ⊠
2. Is the anchorage free of bent, broken, missing or loose hardware? Asset is attached to piping system via a flange with 10 - (½" or 5/8") diameter bolts on an 8"diameter bolt circle. (See pictures 1 and 2.)	X N□ U□ N/A□
3. Is the anchorage free of corrosion that is more than mild surface you oxidation?	⊠ N□ U□ N/A□
Bolts have no corrosion.	
4. Is the anchorage free of visible cracks in the concrete near the anchors? Y[No anchorage to concrete.	□ N□ U□ N/A ⊠
5. Is the anchorage configuration consistent with plant documentation? Y[(Note: This question only applies if the item is one of the 50% for which anchorage configuration verification is required.)	□ N□ U□ N/A ⊠
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	¥ N□ U□
¹ Enter the equipment class name from Appendix B: Classes of Equipmen	MPS 10/4/12

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Sheet 2 of 3 Status: Y N U

Equipment ID No. <u>E2150F031A</u> Equip. Class 8, <u>Motor-Operated ar</u>	nd Solenoid-Operated Valves
Equipment Description Div. I CS Pumps Min. Flow Valve	
Interaction Effects	
7. Are soft targets free from impact by nearby equipment or structures? The only nearby equipment is a pipe which is 5" away that is fully restrained from impact because it is well-supported in the direction of the asset. (See picture 1.)	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? All overhead equipment is properly restrained.	Y⊠ N□ U□ N/A□
9. Do attached lines have adequate flexibility to avoid damage? Attached line has adequate flexibility. (See picture 2.)	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? A pipe support above the asset is only 1" away from another pipe, however, the pipe has insulation around it so actual distance is acceptable. Nut and bolts fasteners were used in two locations and Allen bolts were used elsewhere on the asset's operator panel. This condition is not considered adverse per engineering judgment. In addition, the case is free of leaks at the seal that is secured by the fasteners. (See picture 6.)	YM NO UO

MPS 19/4/12

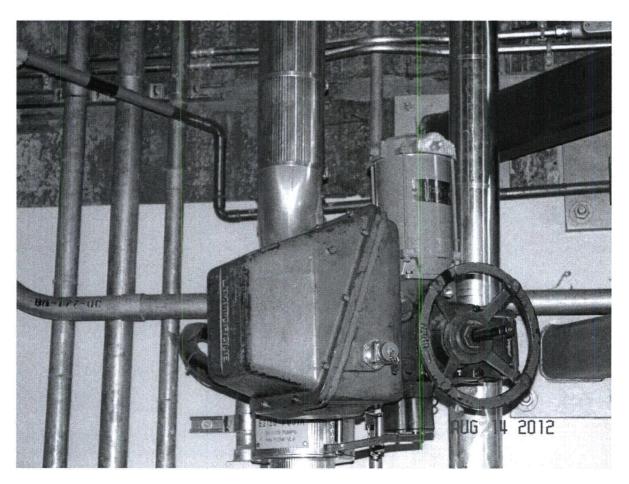
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Sheet 3 of 3 Status: (\widehat{Y}) N U

Seismic Walkdown Checklist (SWC)		
Equipment ID No. <u>E2150F03/A</u> Equip. Class <u>8 — Motor - and Equipment Description</u> <u>Div. 1 CS PMPS Min. Flow Valve</u>	id Soleno	uid-Operated Valves
Comments (Additional pages may be added as necessary)		
M Saigmia Enginean Walldown DSE 52 Qualified		
Evaluator #1: Mil P. Sasso	Date:	8/24/12
		•
Seismic Engineer Walkdown PSE-53Qualified Evaluator #2:	Date:	9/24/12
Evaluator #2.	Date.	0/4/12

Equipment ID No. <u>E2150F031A</u> Equipment Class: <u>8, Motor/Solenoid-Operated Valves</u>

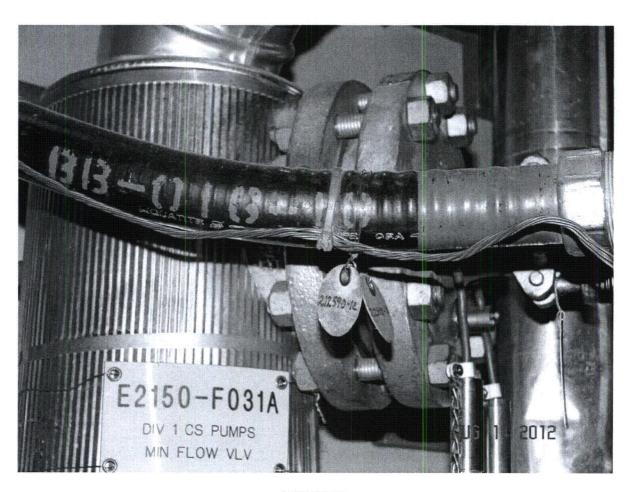
Equipment Description <u>Div. I CS Pumps Min. Flow Valve</u>



PICTURE #1

Equipment ID No. <u>E2150F031A</u> Equipment Class: <u>8, Motor/Solenoid-Operated Valves</u>

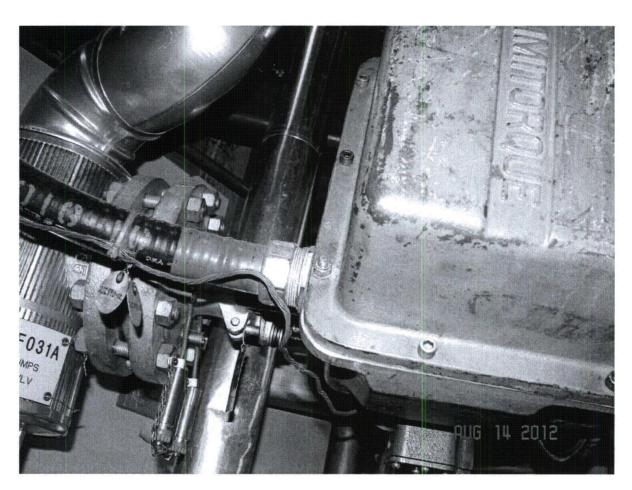
Equipment Description <u>Div. I CS Pumps Min. Flow Valve</u>



PICTURE #2

Equipment ID No. <u>E2150F031A</u> Equipment Class: <u>8, Motor/Solenoid-Operated Valves</u>

Equipment Description <u>Div. I CS Pumps Min. Flow Valve</u>



PICTURE #6

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Sheet 1 of 3 Status: Y N U

Seismic Walkdown Checklist (SWC)	
Equipment ID No. <u>E4101C001C</u> Equip. Class ¹ <u>5, Horizontal Pump</u>	
Equipment Description <u>HPCI Turbine Driven Oil Pump</u>	
Location: Bldg. RB Floor El. 540'-0" Room, Area B-01, Col. H	-9
Manufacturer, Model, Etc. (optional but recommended) <u>Delaval Turbine Co. 1</u>	Model A3DBCX187, IMO
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□ N⊠
2. Is the anchorage free of bent, broken, missing or loose hardware? Anchorage is between flanges. All bolts are present and securely tightened. See pictures 11, 14 & 17.	Y⊠ N□ U□ N/A□
3. Is the anchorage free of corrosion that is more than mild surface oxidation? Bolts do not exhibit corrosion. See pictures 11, 14 & 17.	YM NU UU N/AU
4. Is the anchorage free of visible cracks in the concrete near the anchors? Bolts are not anchored to concrete.	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.)	Y NU UU N/AX
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	YXX N U U U
MPS 19/	19/12

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>E4101C001C</u> Equip. Class 5, <u>Horizontal Pump</u>	
Equipment Description <u>HPCI Turbine Driven Oil Pump</u>	
Interaction Effects	
7. Are soft targets free from impact by nearby equipment or structures? No potential impact sources were observed.	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 overhead equipment. Area above is open for the purposes of using a local hoist.	Y NU UU N/AX
9. Do attached lines have adequate flexibility to avoid damage? Attached lines have adequate flexibility. The existing condition is found to be acceptable based on the following: The pump is securely bolted to the HPCI Turbine outer Casting with one set of feet supported vertically by two springs. See pictures 11, 14, 17 & 19. These springs are referred to as Resilient mounts per the "HPCI Turbine Main Oil Pump Disassembly and Reassembly Procedure 35.202.006" (pages 4 and 11). Per calculation DC-3283 Vol IA Rev. A, All HPCI Oil piping system weight support and seismic restraint locations were found adequate for design loading and guarantee flexibility for thermal expansion. The relatively small pump is light weight. Short cantilever distance of the turbine casing. Rigid mounting to the casing with additional spring supports. Low seismic loads (ZPA) in the Auxiliary Building Sub-Basement. The Pump was previously evaluated in an IPEEE Walkdown SEWS of good seismic design. The pump was considered to be of good seismic design based on the GE Component Seismic Evaluation Report TR102-00058 (1996). ALL REFERENCED DOLUMENTS WERE FOUND. ~ DIS N. 10/12/12. 10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	Y N U U N/A D Y N N U U U
	MPS 10/10/12
Other Adverse Conditions	
11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment?	NIX N□ U□

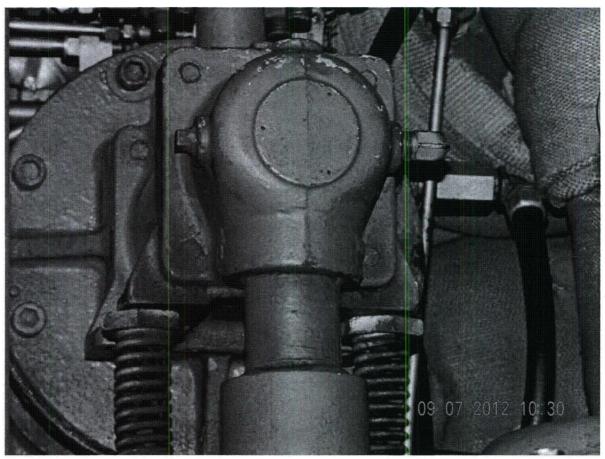
NJPR-12-0043

Sheet 3 of 3 Status: Y N U

·	
Seismic Walkdown Checklist (SWC)	
Equipment ID No. <u>E410/C00/C</u> Equip. Class 5-14. Equipment Description <u>HPCI Turbine Driven Oil (</u>	orizontal Pumps
Comments (Additional pages may be added as necessary) This asset was not identified by an equipme could determine its location and identify if M-5708-2 and the general sketch of the package CARD 12-26642 was issued for many m-5708-2, REV. L. HAS NO POSTINGS LOCK 10/12/12	issing taq.
Seismic Engineer Walkdown PSE-53Qualified Evaluator #1: Mill P. Lasso	Date: _8/7/12
Seismic Engineer Walkdown PSE-53Qualified Evaluator #2: Scott Lamen	Date: 8/7/12

Equipment ID No. <u>E4101C001C</u> Equipment Class: <u>5 – Horizontal Pumps</u>

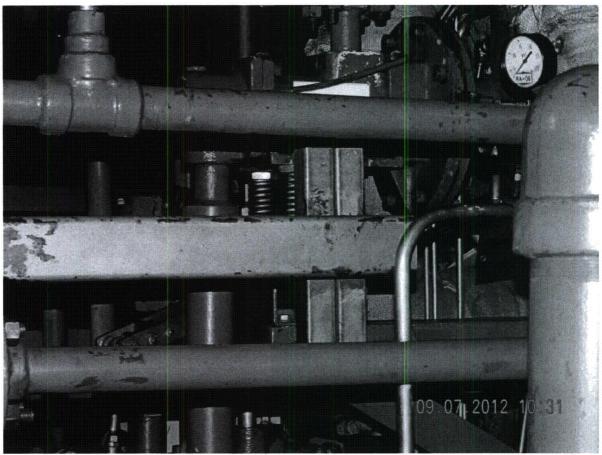
Equipment Description <u>HPCI Turbine Driven Oil Pump</u>



Bolting Configuration for HPCI Turbine Driven Oil Pump (Picture 11)

Equipment ID No. <u>E4101C001C</u> Equipment Class: <u>5 – Horizontal Pumps</u>

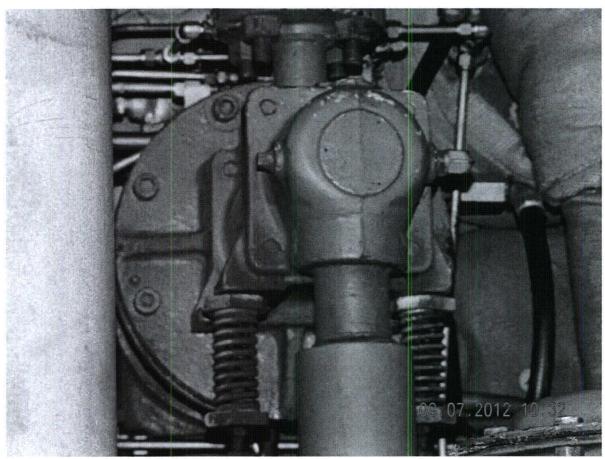
Equipment Description <u>HPCI Turbine Driven Oil Pump</u>



Side View of HPCI Turbine Driven Oil Pump (Picture 14)

Equipment ID No. <u>E4101C001C</u> Equipment Class: <u>5 – Horizontal Pumps</u>

Equipment Description HPCI Turbine Driven Oil Pump

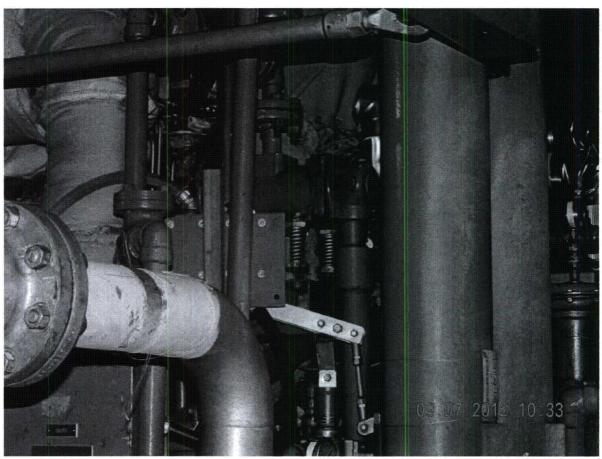


Bolting Configuration for HPCI Turbine Driven Oil Pump (Picture 17)

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Equipment ID No. <u>E4101C001C</u> Equipment Class: <u>5 – Horizontal Pumps</u>

Equipment Description HPCI Turbine Driven Oil Pump



Side View of HPCI Turbine Driven Oil Pump (Picture 19)

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Sheet 1 of 3 Status: YN U

Seismic Walkdown Checklist (SWC)	
Equipment ID No. <u>E4150F001</u> Equip. Class <u>8, Motor-Operated V</u>	alve
Equipment Description HPCI Turbine Steam Supply Isolation MOV	
Location: Bldg. RB Floor El. 540'-0" Room, Area B-01, Col. H	-10
Manufacturer, Model, Etc. (optional but recommended) <u>Limitorque Model SM</u>	<u>1B-1</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 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□ N ⊠
2. Is the anchorage free of bent, broken, missing or loose hardware? The asset is attached to the HPCI Turbine steam piping system.	Y⊠ N□ U□ N/A□
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	YX N UU N/A
No corrosion present.	•
4. Is the anchorage free of visible cracks in the concrete near the anchors? No visible cracks in concrete for the local pipe hangers. The asset is not anchored to concrete.	YMM 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 an 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?	Y M NO UO

MPS 10/3/12

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

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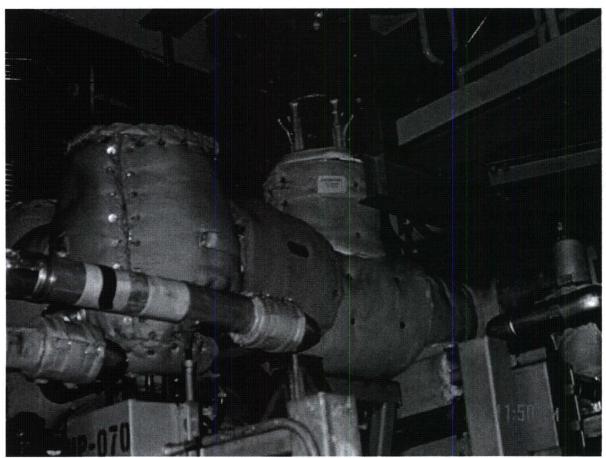
Sheet 2 of 3 Status: N U

Seismic Walkdown Checklist (SWC)	
Equipment ID No. <u>E4150F001</u> Equip. Class ¹ <u>8, Motor-Operated Volume</u>	alve
Equipment Description <u>HPCI Turbine Steam Supply Isolation MOV</u>	
Interaction Effects	
7. Are soft targets free from impact by nearby equipment or structures? No potential impact sources were observed. (See pictures 1, 4 & 5.)	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 overhead equipment. Area above is open for the purposes of using a local hoist. (See Picture 4.)	YONOUNAM
9. Do attached lines have adequate flexibility to avoid damage? Attached lines have adequate flexibility. (See Picture 5.)	YX NO UO N/AO
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?	YX NO UO

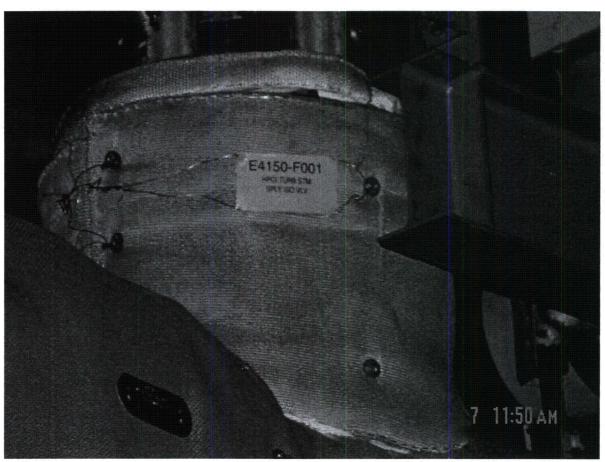
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Sheet 3 of 3 Status: Y N U

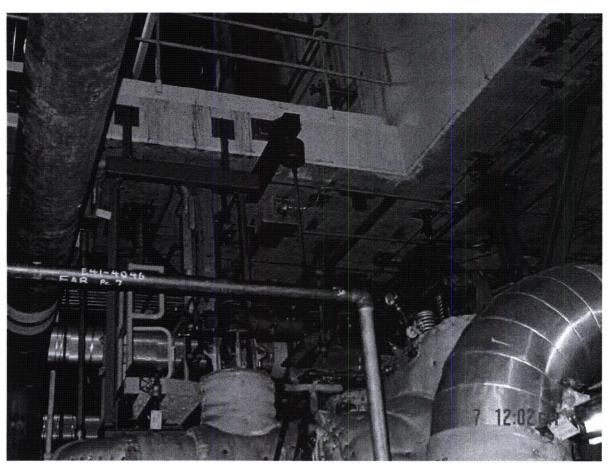
Seismic waikdown Checklist (SWC)				
Equipment ID No. <u>E4150F001</u> Equip. Class Equipment Description <u>HPCI Turb Stm S</u>	ss' operated operated of the ply Iso Mov	rated Values	and	Solenoid
Comments (Additional pages may be added as necessary) -N/A	Ιθλιογισ ^ν 7 Υίν			
⊠ Seismic Engineer Walkdown PSE-53Q Evaluator #1 : Mihal P.Sasso	Pualified	_ Date:	8/7/1	2
⊠ Seismic Engineer Walkdown PSE-53Q Evaluator #2: Scott Bauley	Qualified	_ Date: _	8/7/1	2



General View of Valve Configuration (Picture 1)



General View of Valve (Picture 3)



Piping and Supports Overhead the Valve (Picture 4)



Flexible Conduit Lines to Motor Operator (Picture 5)

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Sheet 1 of 3 Status: YN U

Seismic Walkdown Checklist (SWC)	
Equipment ID No. <u>E4150F004</u> Equip. Class <u>8, Motor-Operated V</u>	alve
Equipment Description HPCI Booster Pump Suction from CST Isolation MOV	,
Location: Bldg. RB Floor El. 540'-0" Room, Area B-01, Col. G	-11
Manufacturer, Model, Etc. (optional but recommended) <u>Limitorque Model SB</u>	-0
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□ N ⊠
2. Is the anchorage free of bent, broken, missing or loose hardware? The anchorage is present and secure. (See pictures 1,2,3,4 and 8.)	YMZ N□ U□ N/A□
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	Y⊠ N□ U□ N/A□
Little to no corrosion observed. (See pictures 1,2,3,4 and 8.)	
4. Is the anchorage free of visible cracks in the concrete near the anchors? There are no cracks in concrete or steel members near the asset. The asset not directly anchored to 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 an anchorage configuration verification is required.)	Y N U U N/AX
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	YX NOUD

MPS 10/9/12.

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

NJPR-12-0043

Seismic Walkdown Checklist (SWC)

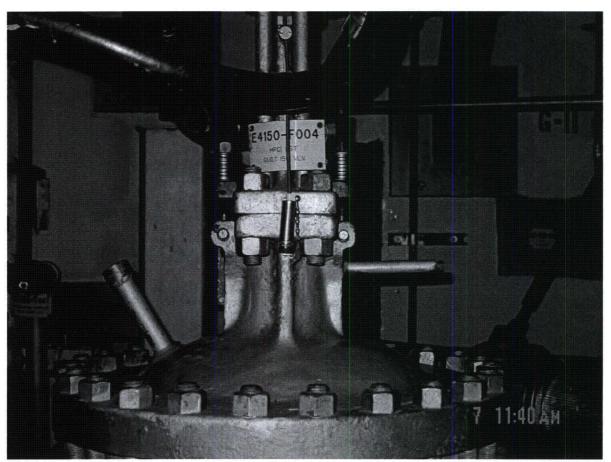
Sheet 2 of 3 Status: N U

, ,		
Equipment ID No. <u>E4150F004</u> Equip. Class 1 8, <u>Motor-Operated Volume</u>	alve	
Equipment Description HPCI Booster Pump Suction from CST Isolation MOV		
Interaction Effects		
7. Are soft targets free from impact by nearby equipment or structures? There were no potential impact sources observed. (See Pictures 4 and 5.)	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? All overhead equipment/piping was observed to be adequately anchored and restrained. (See pictures 5 and 6.)	YM N□ U□ N/A□	
9. Do attached lines have adequate flexibility to avoid damage? The attached lines have adequate flexibility. Note the flex conduits in Picture 3.	Y⊠ N□ U□ N/A□	
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	YM N□ U□	
Other Adverse Conditions	<u> </u>	
11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment?	ND OD	

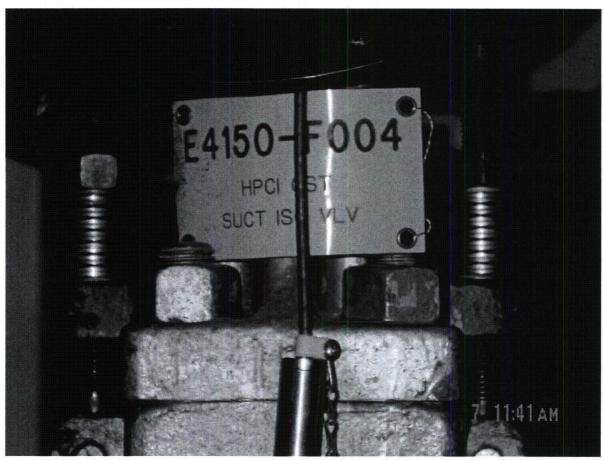
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Sheet 3 of 3 Status: Y N U

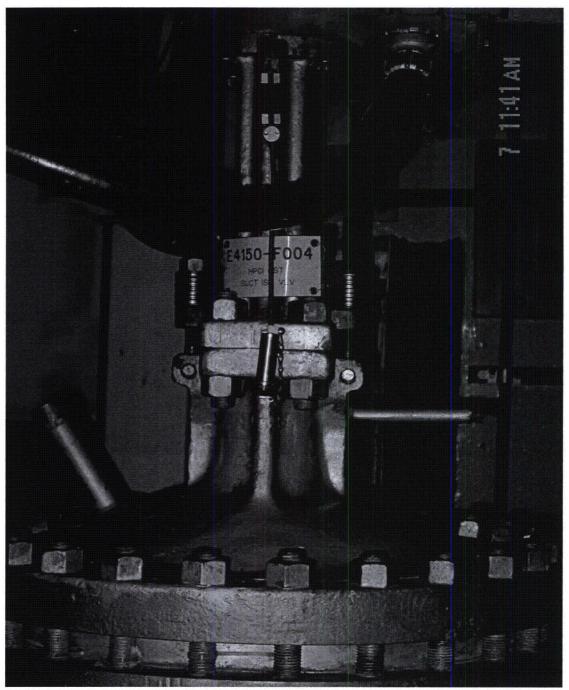
Seismic Walkdown Checklist (SWC) 8- motor operated valv	ated	A Solenoi d
Equipment ID No. <u>L7150+004</u> Equip. Class' operated valv	es.	
Equipment Description HPCI Booster Pump Suct from CS	T 150	D MOV
Comments (Additional pages may be added as necessary) JAM 10/10/12		
Seismic Engineer Walkdown PSE-53Qualified Evaluator #1: Milail P. Losso	Date: _	8/7/12
Seismic Engineer Walkdown PSE-53Qualified Evaluator #2: Scott Bank	Date:	8/7/12



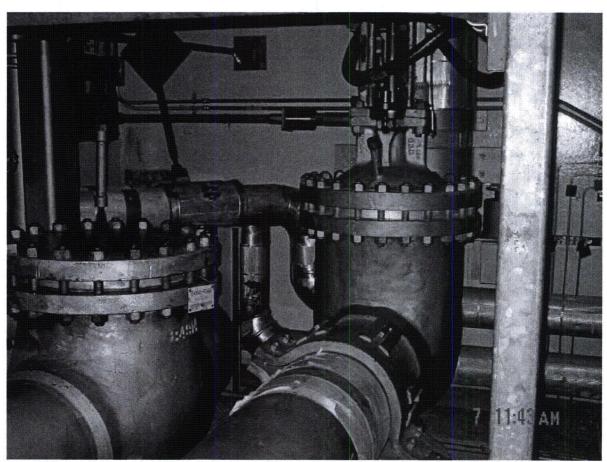
Bonnet and Gland Bolting (Front View)
(Picture 1)



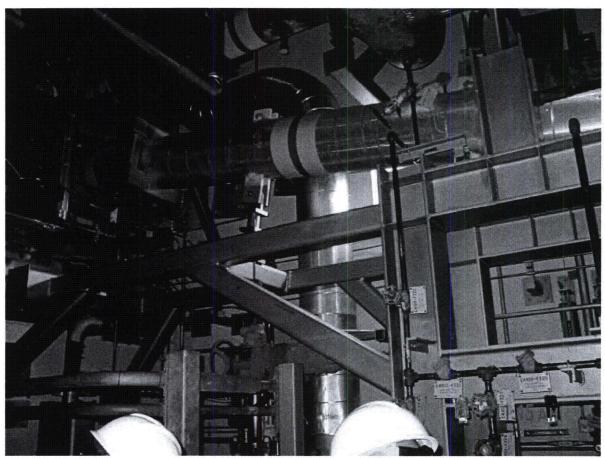
Valve Gland Bolting Configuration (Front View) (Picture 2)



Bonnet and Gland Bolting with Flexible Conduit to Motor Operator (Picture 3)



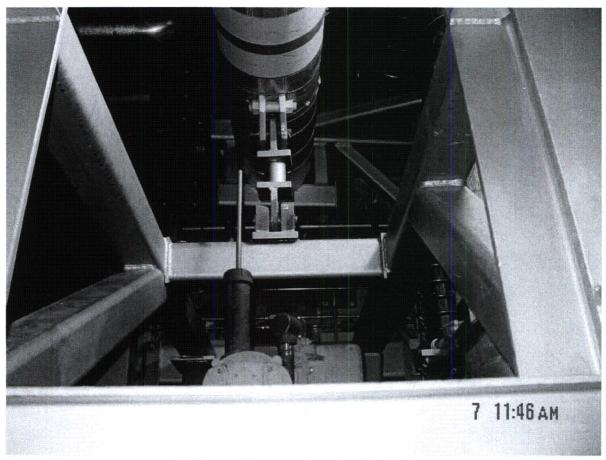
General View of Valve Configuration (Picture 4)



Piping and Supports Overhead the Valve (Picture 5)

Equipment ID No. <u>E4150F004</u> Equipment Class: <u>8 – Motor Operated and Solenoid Operated Valves</u>

Equipment Description <u>HPCI Booster Pump Suction Head form CSI ISO MOV</u>

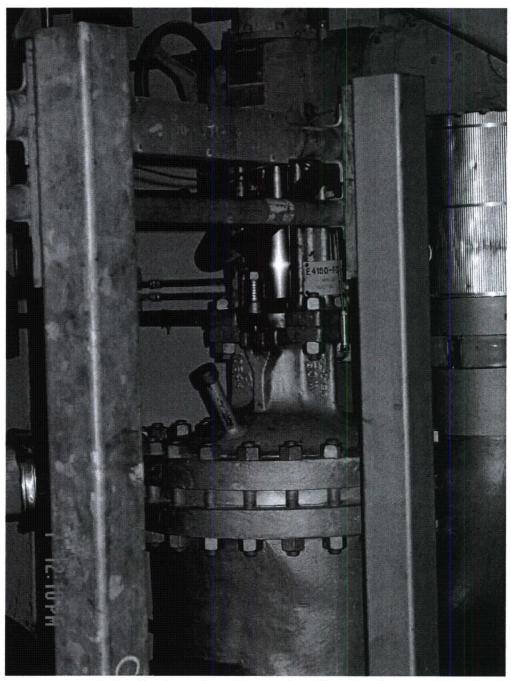


Piping and Supports Overhead the Valve (Picture 6)

Page C-114

Equipment ID No. <u>E4150F004</u> Equipment Class: <u>8 – Motor Operated and Solenoid Operated Valves</u>

Equipment Description <u>HPCI Booster Pump Suction Head form CSI ISO MOV</u>



Valve Configuration with Overhead Framing Supports (Side View) (Picture 8)

NJPR-12-0043

Sheet 1 of 3 Status Y N U

Seismic Walkdown Checklist (SWC)	
Equipment ID No. <u>E41K805</u> Equip. Class 1 0, Other	.
Equipment Description HPCI Flow Rate Modulator	
Location: Bldg. <u>AB</u> Floor El. <u>613'-6"</u> Room, Area <u>B-15, Col. F-</u>	-14
Manufacturer, Model, Etc. (optional but recommended) <u>Validyne Model CM-2</u>	249-Q2
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 provided to the space is provide	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)? Attached to plate inside cabinet H11P612. (SEE PICTURE DSCN 0077) ~ DOK 10/11/2	Y⊠ N□
2. Is the anchorage free of bent, broken, missing or loose hardware? Mounting of component to bracket confirmed.	YZ NO UO N/AO
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	Y☑ N□ U□ N/A□
Bolts and screws are free of corrosion.	
4. Is the anchorage free of visible cracks in the concrete near the anchors? Not mounted to concrete.	YDD 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 anchorage configuration verification is required.) Mounting configuration is consistent with plant documentation. (Ref. drawing I-2040-08A/Rev. G, No Posting 5) The political configuration.	Y[AN□ U□ N/A□
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	YMÄ N□ U□

JUL

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>E41K805</u> Equip. Class 1 0, Other	
Equipment Description HPCI Flow Rate Modulator	
Interaction Effects	
7. Are soft targets free from impact by nearby equipment or structures? <i>Inside cabinet H11P612. None observed.</i>	YND UN N/AN
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Lights supported on chains with redundant wire cable.	Y♥ N□ U□ N/A□
9. Do attached lines have adequate flexibility to avoid damage? Attached lines 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?	YD) 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?	YD N□ U□

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No other seismic conditions identified.

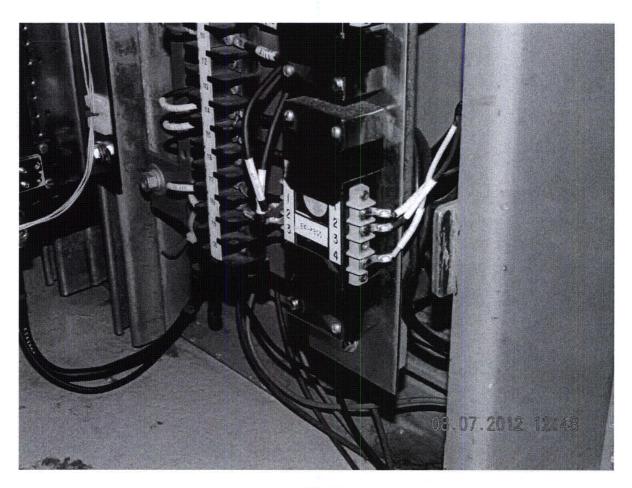
NJPR-12-0043

Sheet 3 of 3 Status: N U

Seismic Walkdown Ch		Do 8/7/2016		
Equipment ID No. <u>E4</u>	KB05 Equip.	Class ¹ 20 0	OTHER	
Equipment Description _	HPCI PUMP	FLOW RATE	MODULATOR	
Comments (Additional page	ges may be added as necessa	ary)		
	OMPONENT IS INSI	•	- 	
Н	11-P612 INSPECTE	D AS AN INDIVIDU	al component	
Seismic	Engineer Walkdown PSE	-53Qualified	, ,	
Evaluator #1: Waris	6 Wakeri		Date: 8/7/20	12
, 💢 Seismic	Engineer Walkdown PSE	-53Qualified	,	,
Evaluator #2 :	Joseph Mc	ta Vere	Date: <u>0%/07</u>	12012
	<i>)/</i>			

Equipment ID No. <u>E41K805</u> Equipment Class: <u>0</u>, Other

Equipment Description <u>HPCI Pump Flow Rate Modulator</u>



(DSCN0077)

NJPR-12-0043

Sheet 1 of 3 Status: N U

Seismic Walkdown Checklist (SWC)	
Equipment ID No. <u>E5150F045</u> Equip. Class ¹ <u>8-Motor Operated & </u>	Solenoid Operated Valves
Equipment Description RCIC Turbine Steam Inlet Isolation MOV	
Location: Bldg. RB Floor El. 544'-0" Room, Area A-05, Col. F-	-17
Manufacturer, Model, Etc. (optional but recommended) Powell Model 19023	WE
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)?	Y□ N ⊠
2. Is the anchorage free of bent, broken, missing or loose hardware? All anchors are present and securely tightened. (See picture 6.)	Y⊠ N□ U□ N/A□
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	YM N□ U□ N/A□
No corrosion other than mild surface corrosion was observed.	
4. Is the anchorage free of visible cracks in the concrete near the anchors? Not anchored to concrete. (See picture 6.)	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 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?	YN UC
·	, , ,

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

MPS 10/3/12

NJPR-12-0043

Seismic Walkdown Checklist (SWC)

Sheet 2 of 3 Status: (Y) N U

Equipment ID No. <u>E5150F045</u> Equip. Class ¹ <u>8-Motor Operated & </u>	Solenoid Operated Valves
Equipment Description RCIC Turbine Steam Inlet Isolation MOV	
Interaction Effects	
7. Are soft targets free from impact by nearby equipment or structures? There are no proximity concerns for soft targets. Asset is protected from above by platform grating and from the north by the concrete wall.	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? Asset is protected from above by platform. (See picture 15.) Equipment above is well-supported.	YM N□ U□ N/A□
9. Do attached lines have adequate flexibility to avoid damage? Attached lines are made of a flexible material. (See picture 4.) Attached lines have adequate flexibility.	Y⊠ N□ U□ N/A□
10. Based on the above seismic interaction evaluations, is equipment free	Y⊠ N□ U□

Other Adverse Conditions

effects. (See picture 16.)

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

There are no items nearby that are close enough to cause interaction

of potentially adverse seismic interaction effects?

YX NO UO

MPS 10/3/12

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Sheet 3 of 3 Status: N U

Seismic Walkdown Checklist (SWC)
Equipment ID No. <u>F5150F045</u> Equip. Class <u>8 - Motor - Operated & Solenoid-Operate</u> Equipment Description <u>RCIC TURB STM INLET ISO MOV</u> Valves
Comments (Additional pages may be added as necessary)
Evaluator #1: My P. Sasso Date: 8/24/12
Seismic Engineer Walkdown PSE-53Qualified Evaluator #2: Scott Banco Date: 8/21/12

Equipment ID No. <u>E5150F045</u> Equipment Class: <u>8, Motor/Solenoid-Operated Valves</u>

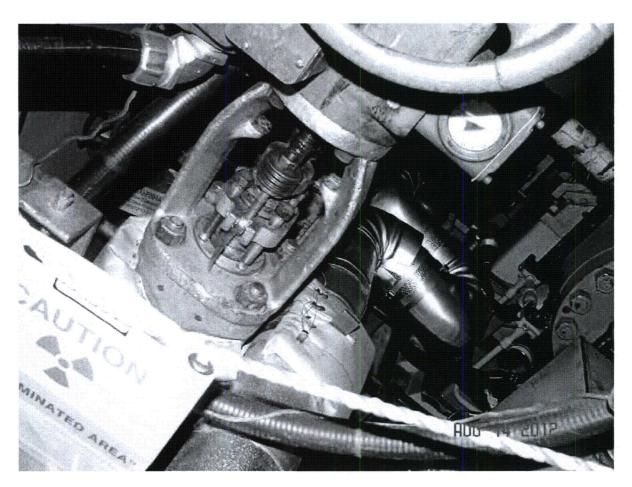
Equipment Description <u>RCIC Turbine Steam Inlet Isolation MOV</u>

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PICTURE #4

Equipment ID No. <u>E5150F045</u> Equipment Class: <u>8, Motor/Solenoid-Operated Valves</u>

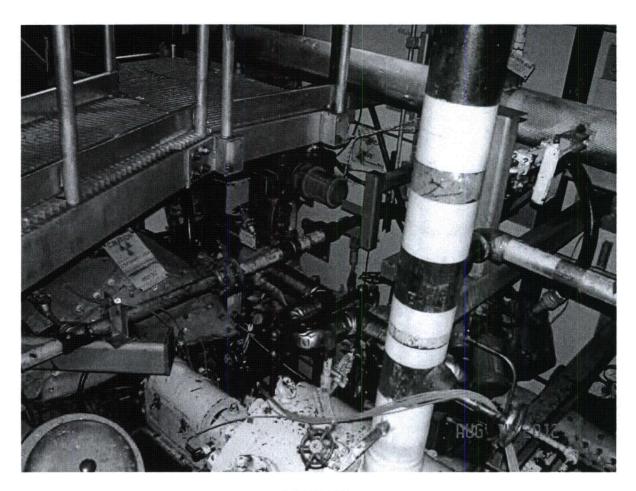
Equipment Description <u>RCIC Turbine Steam Inlet Isolation MOV</u>



PICTURE #6

Equipment ID No. <u>E5150F045</u> Equipment Class: <u>8, Motor/Solenoid-Operated Valves</u>

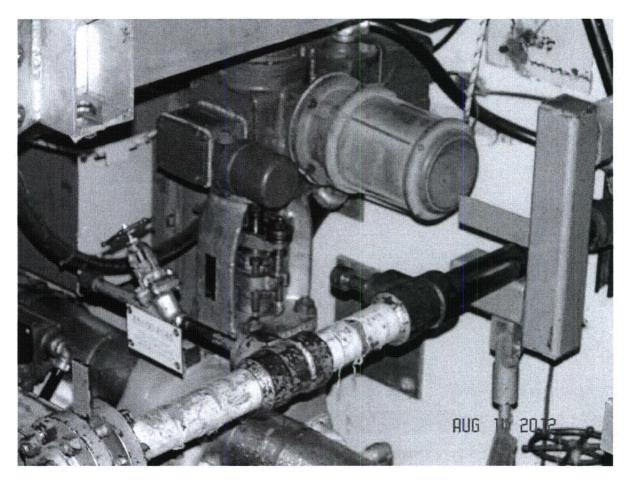
Equipment Description <u>RCIC Turbine Steam Inlet Isolation MOV</u>



PICTURE #15

Equipment ID No. <u>E5150F045</u> Equipment Class: <u>8, Motor/Solenoid-Operated Valves</u>

Equipment Description <u>RCIC Turbine Steam Inlet Isolation MOV</u>



PICTURE #16

NJPR-12-0043

Sheet 1 of 3 Status: YN U

Seismic Walkdown Checklist (SWC)	
Equipment ID No. <u>G4100F016</u> Equip. Class 1 <u>0 - Other</u>	····
Equipment Description FPCC Skimmer surge TNK to RHR ISO Valve	
Location: Bldg. RB Floor El. 583'-6" Room, Area A-12, Col. A	-12
Manufacturer, Model, Etc. (optional but recommended) Wm Powell 8"-300lb	OSY Gate Valve
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 at the end of this checklist for the space is provided at the end of the space is p	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 asset is attached to its piping system via bolts. These bolts are in good condition and securely tightened. (See Pictures 28 & 29)	Y⊠ N□ U□ N/A□
 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? No anchorage to concrete.	Y□ N□ U□ N/A⊠
 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 NU UNAX
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	Y⊠ N□ U□

Enter the equipment class name from Appendix B: Classes of Equipment MPS 10/4/12

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Sheet 2 of 3 Status: Y N U

Equipment ID No. <u>G4100F016</u> Equip. Class ¹ <u>0 - Other</u>	
Equipment Description FPCC Skimmer surge TNK to RHR ISO Valve	
Interaction Effects	
7. Are soft targets free from impact by nearby equipment or structures? There were no observed items in the area capable of impacting the asset during a seismic event because all items are adequately restrained.	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 items were observed to be appropriately supported and restrained. (See Pictures 34 and 45)	YX NO UO N/AO
9. Do attached lines have adequate flexibility to avoid damage? Attached lines have 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⊠ 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 adverse conditions were identified.	YX NO UO

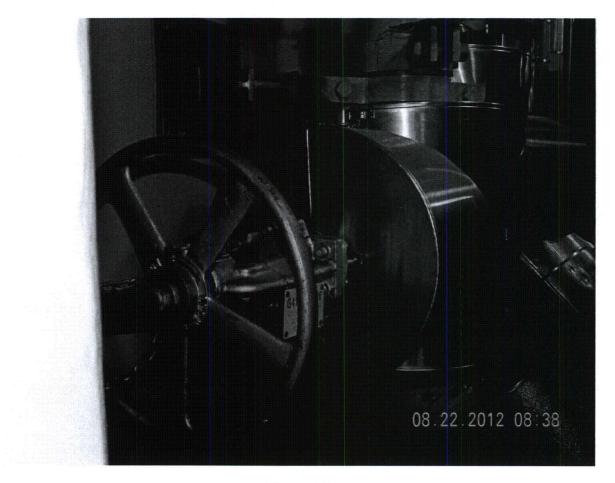
mps 10/4/12

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Sheet 3 of 3 Status: N U

Seismic Walkdown Checklist (SWC)
Equipment ID No. G4100 F016 Equip. Class O-Other Equipment Description FPCC SKimmer Surge TNK to RHR 150 Value.
Comments (Additional pages may be added as necessary)
None
Seismic Engineer Walkdown PSE-53Qualified Evaluator #1: Mill P. Saso Date: 8/24/12
Seismic Engineer Walkdown PSE-53Qualified Evaluator #2: Scott Gaule Date: 8/24/12

Equipment ID No. <u>G4100F016</u> Equipment Class: <u>0, Other</u>



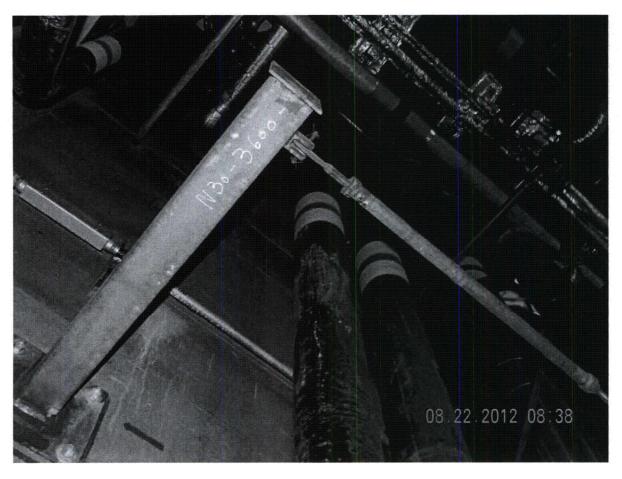
(Picture 28)

Equipment ID No. <u>G4100F016</u> Equipment Class: <u>0, Other</u>



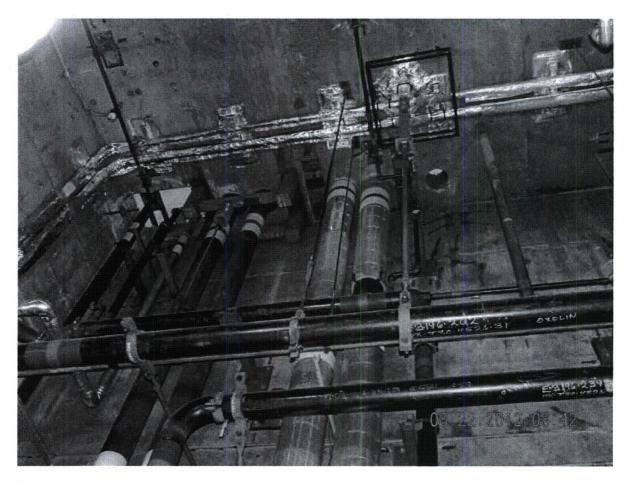
(Picture 29)

Equipment ID No. <u>G4100F016</u> Equipment Class: <u>0, Other</u>



(Picture 34)

Equipment ID No. <u>G4100F016</u> Equipment Class: <u>0, Other</u>



(Picture 45)

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Sheet 1 of 3 Status: (Y) N U

Seismic Walkdown Checklist (SWC)	
Equipment ID No. G4100F045A Equip. Class 1 0 - Other	
Equipment Description Fuel Storage Diffuser "A" Return Isolation Valve	
Location: Bldg. RB Floor El. 682'-6" Room, Area A-43, Col E-	17
Manufacturer, Model, Etc. (optional but recommended) XMOX-XOMOX Corp	
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 to findings. Additional space is provided at the end of this checklist for documenting the space of the space o	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
2. Is the anchorage free of bent, broken, missing or loose hardware? Valve is not attached to a civil structure. Aside from some minor surface corrosion, bolts that secure the valve to piping appear to be in good condition. See Picture 1.	Y NU UU N/AX
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	Y NO UO N/A
See response to Question 2 above.	
4. Is the anchorage free of visible cracks in the concrete near the anchors? Valve is not anchored to concrete	Y NO UO 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.)	XAVN DU DN DY
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	YXNO UO
•	

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

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Seismic Walkdown Checklist (SWC)

Sheet 2 of 3 Status: (Y) N U

Equipment ID No. <u>G4100F045A</u> Equip. Class ¹ <u>0 - Other</u>	
Equipment Description Fuel Storage Diffuser "A" Return Isolation Valve	
Interaction Effects 7. Are soft targets free from impact by nearby equipment or structures?	Y M N□ U□ N/A□
Valve is in a pit and shielded from impact by a checkered cover plate. There are no impact sources. (See Pictures 2 & 3)	IN OU WAL
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? There are no realistic hazards overhead. The lights on this floor are not mounted directly over the valve.	YM NO UO N/AO

9.	Do attached lines have adequate flexibility to avoid damage?	Y NU UU N/A
	There are no conduit or tubing lines on the valve (See Picture 4)	

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

Other Adverse Conditions

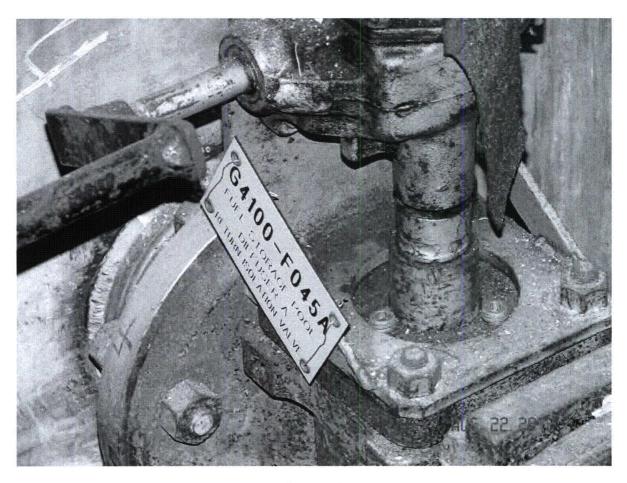
11. Have you looked for and found no other seismic conditions that could YX NO UO adversely affect the safety functions of the equipment? None were identified.

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Sheet 3 of 3 Status: (Y) N U

Seismic Walkdown Checklist (SWC)
Equipment ID No. <u>G4100F045A</u> Equip. Class <u>0 - Other</u> Equipment Description <u>Fuel Storage Diffuser "A" Return Isolation Valve</u>
Comments (Additional pages may be added as necessary) None
Seismic Engineer Walkdown PSE-53 Qualified
Evaluator #1: Michael P Sasso Michael P Sasso Date: 08/22/12 A Seismic Engineer Walkdown PSE-53 Qualified
Evaluator #2: Marc Meyer Date: 08/22/12

Equipment ID No. <u>G4100F045A</u> Equipment Class: <u>0, Other</u>



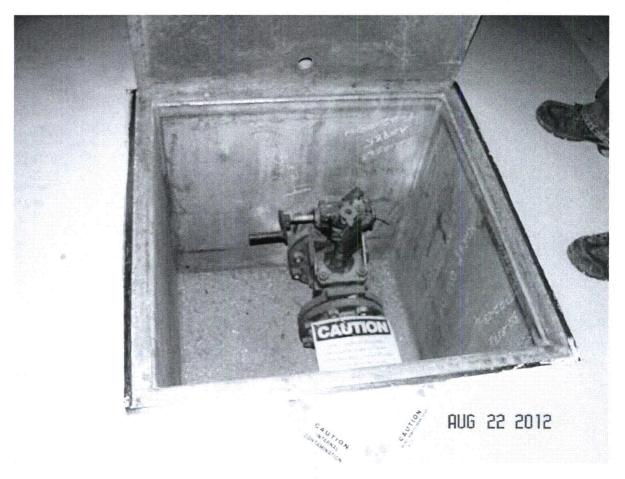
(Picture 1)

Equipment ID No. <u>G4100F045A</u> Equipment Class: <u>0, Other</u>



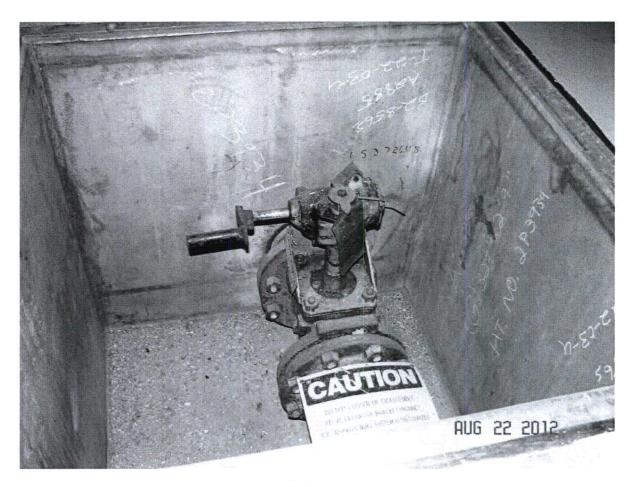
(Picture 2)

Equipment ID No. <u>G4100F045A</u> Equipment Class: <u>0, Other</u>



(Picture 3)

Equipment ID No. <u>G4100F045A</u> Equipment Class: <u>0, Other</u>



(Picture 4)

NJPR-12-0043

Sheet 1 of 3 Status: YN U

Seismic Walkdown Checklist (SWC)			
Equipment ID No. <u>H11P612</u> Equip. Class 20, Instrumentation of	nd Control Panels		
Equipment Description F.W. & Recirc. Instrument Cab Div. II			
Location: Bldg. AB Floor El. 613'-6" Room, Area B-15, Col. F.	-14		
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 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)? All welds visible. Seismic bracing added per EDP 27108.007.	YX ND		
An weas visione. Beismic ordering duded per LDT 27100.007.			
2. Is the anchorage free of bent, broken, missing or loose hardware? Front: In Bays 1 & 3, plug weld missing weld 3" at 10" to embedment. Back: Welded to embedment. Drawings I-2002-16 & I-2002-17 used to confirm no required plug welds & proper anchorage. Identified front condition verified as acceptable. (SEE PICTURES DSCHOOST, DSCHO	NA DU WALL		
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	YN UU N/AU		
Connection plates & welds were painted, therefore did not exhibit corrosion. (SEE PICTULES DSCNOOST DSCHOOLD) ~ DJU 10/11	liz		
4. Is the anchorage free of visible cracks in the concrete near the anchors? Concrete at the base is intact and not cracked. (SEE PICTURES DSCHOOSS IDSCHOOS) DJK 19/11/12	YØ 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 an anchorage configuration verification is required.) Weld configuration is consistent with documentation (Ref. drawings I-2002-16 & I-2002-17). Bracing configuration is consistent with documentation (Ref. EDP 27108.007) SEE Comment Section DS (SEE PICTARES DSCNOGS) DSCNOGS) - DSK 10/11/12	Ý☑ N□ U□ N/A□ k (0/12/12		
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	AM NO NO		

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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)
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Equipment ID No. <u>H11P612</u> Equip. Class 20, <u>Instrumentation and Control Panels</u>				
Equipment Description F.W. & Recirc. Instrument Cab. – Div. II				
Interaction Effects 7. Are soft targets free from impact by nearby equipment or structures? Soft targets are enclosed by the cabinet & door, therefore any soft targets are protected.	YÆ] 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? Lights have chain & cable. (SEE PICTURE DSCNOO(2) ~ DSK 10/11/12	YŒ N□ U□ N/A□			
9. Do attached lines have adequate flexibility to avoid damage? All attached lines have adequate flexibility. (SEE PICTURE DECNOOGI) ~ DOK 16/11/12	Y☑ N□ U□ N/A□			
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	ט ⊡ע (אָעַץ µט			
Other Adverse Conditions				
11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? Note: Bracing per EDP 27108 has been installed properly, per plan, and bolting has been verified.	YMA N□ U□			
(DEE PICTURES DECHOOTS, DECHOOTS) ~ DJK 10/11/12				

NJPR-12-0043

Sheet 3 of 3 Status: (Y) N U

Seismic Walkdown Checklist (SWC)
Equipment ID No. HIIP 612 Equip. Class 20 - INSTRUMENTATION & CONTROL
Equipment Description F.W. & RECIRC. INSTRUMENT CAB DIV. II
Comments (Additional pages may be added as necessary)
DRAWINGS I-2002-16, REV. C AND I-2002-17, REV. H WERE REVIEWED DOK AND NO APPLICABLE POSTINGS WERE FOUND.
Evaluator #1: Doevel C Duller Date: 08/06/2012
Evaluator #2:
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