Equipment ID No.: MS-V-0001C	
Equipment Class: (8) Motor-Operated and Solenoid-Operated Valves	
Equipment Description: CONT ISOL B OTSG MS ISOL VALVE	
Project: TMI SWEL	
Location (Bldg, Elev, Room/Area): IB, 355.00 ft, 44 : IN 'C' STEAM RM	
Manufacturer/Model:	
Instructions for Completing Checklist	
This checklist may be used to document the results of the Seismic Walkdown of an item of equip SWEL. The space below each of the following questions may be used to record the results of jurnings. Additional space is provided at the end of this checklist for documenting other commenting other co	ment on the dgments and ts.
Anchorage	** -
 Is anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? 	Yes
2 Is the anchorage free of heat broken missing or lease herdward?	Vac
2. Is the anchorage nee of bent, broken, missing of loose hardware?	165
3 Is the anchorage free of corrosion that is more than mild surface oxidation?	Yes
	100
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Yes
5. Is the anchorage configuration consistent with plant documentation? (Note:	Yes
This question only applies if the item is one of the 50% for which an anchorage	· · · ·
configuration verification is required.)	
6. Based on the above anchorage evaluations, is the anchorage free of	Yes
potentially adverse seismic conditions?	

Seismic Walkdown Checklist (SWC)

Seism	ic Walkdown Checklist	(SWC)	Status: Y N U
	Equipment ID No.:	MS-V-0001C	
	Equipment Class:	(8) Motor-Operated and Solenoid-Operated Valves	
	Equipment Description:	CONT ISOL B OTSG MS ISOL VALVE	
Intera	ction Effects		
7.	Are soft targets free fro	m impact by nearby equipment or structures?	Yes
8.	Are overhead equipme masonry block walls no	nt, distribution systems, ceiling tiles and lighting, and It likely to collapse onto the equipment?	Yes
9.	Do attached lines have	adequate flexibility to avoid damage?	Yes
10.	Based on the above se potentially adverse seis	ismic interaction evaluations, is equipment free of smic interaction effects?	Yes
Other	Adverse Conditions		
11.	Have you looked for ar adversely affect the sa	Id found no adverse seismic conditions that could fety functions of the equipment?	Yes

Comments

See SQ-T1-MS-V-0001C Rev 01

Minor surface crack near support, consistent with the acceptance criteria of ACI-349, therefore OK.

				Status: Y N	U
Seismic Walkdo	own Checklist	(SWC)			
Equip	oment ID No.:	MS-V-0001C			
Equi	ipment Class:	(8) Motor-Operated and Solenoid-Operate	d Valves		
Equipmen	t Description:	CONT ISOL B OTSG MS ISOL VALVE			
	Man	S Etre			
Evaluated by:	- 1	Mark S. Etre	Date:	10/24/2012	
	Juan	Africa			
	Q.	Juan A. López		10/9/12	

Photos





100_4041

Seismic Walkdown Checklist (SWC)	Status: Y N U
Equipment ID No.: MS-V-0002B	
Equipment Class: (8) Motor-Operated and Solenoid-Operated Valves	
Equipment Description: CONT ISOL B OTSG ISOL TO ATMOS	
Project: TMI SWEL	
Location (Bldg, Elev, Room/Area): IB, 295.00 ft, 5 : EF-P-1 RM ON MS	
Manufacturer/Model:	
Instructions for Completing Checklist This checklist may be used to document the results of the Seismic Walkdown of an item of en SWEL. The space below each of the following questions may be used to record the results of findings. Additional space is provided at the end of this checklist for documenting other com	quipment on the of judgments and ments.
 Anchorage 1. Is anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? 	No
2. Is the anchorage free of bent, broken, missing or loose hardware?	Not Applicable
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	Not Applicable
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Not Applicable
 Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) 	Not Applicable
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	Yes

Seismic Walkdown Checklist (SWC)	Status: Y N U
Equipment ID No.: MS-V-0002B	
Equipment Class: (8) Motor-Operated and Solenoid-Operated Valve	S
Equipment Description: CONT ISOL B OTSG ISOL TO ATMOS	
· · · · · · · · · · · · · · · · · · ·	
Interaction Effects	······································
7. Are soft targets free from impact by nearby equipment or structures?	Yes
8 Are overhead equipment, distribution systems, ceiling tiles and lighting, an masonry block walls not likely to collapse onto the equipment?	d Yes
9. Do attached lines have adequate flexibility to avoid damage?	Yes
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	Yes
Other Adverse Conditions	
11. Have you looked for and found no adverse seismic conditions that could adversely affect the safety functions of the equipment?	Yes
Comments	
Anchorage check is not applicable. This is in-line equipment.	

See SQ-T1-MS-V-0002B, Revision 001

				Status: Y N U	J
Seismic Walkdo	wn Checklist	(SWC)			
Equip	ment ID No.:	MS-V-0002B			
Equi	pment Class:	(8) Motor-Operated and Solenoid-Operated	Valves		
Equipmen	t Description:	CONT ISOL B OTSG ISOL TO ATMOS			
Evaluated by:	Man	S Eller Mark S. Etre	Date:	10/24/2012	
	So	Bur Seth W. Baker		10/24/2012	

Photos



Seismic	Walkdown	Checklist	(SWC)

Equipment ID No.: MS	S-V-0004B	
Equipment Class: (7)	Fluid-Operated Valves	
Equipment Description: AT	MOSPHERIC DUMP VALVE FOR 'B' OTSG	
Project:	TMI SWEL	
Location (Bldg, Elev, Room/Area):	IB, 295.00 ft, 5 : EF-P-1 RM ON MS	
Manufacturer/Model:		
Instructions for Completing Chee	cklist	
This checklist may be used to docu SWEL. The space below each of the findings. Additional space is provid	ment the results of the Seismic Walkdown of an item of e ne following questions may be used to record the results o led at the end of this checklist for documenting other com	quipment on the of judgments and ments.
Anchorage	,	
 Is anchorage configuration of SWEL items requiring sum 	verification required (i.e., is the item one of the 50% ich verification)?	No
2. Is the anchorage free of be	nt, broken, missing or loose hardware?	Not Applicable
3. Is the anchorage free of co	rrosion that is more than mild surface oxidation?	Not Applicable
4. Is the anchorage free of vis	sible cracks in the concrete near the anchors?	Not Applicable
 Is the anchorage configura This question only applies configuration verification is 	tion consistent with plant documentation? (Note: if the item is one of the 50% for which an anchorage required.)	Not Applicable
Based on the above ancho potentially adverse seismic	rage evaluations, is the anchorage free of conditions?	Yes

.

	12Q0108.70-R-001 Rev. 1 Correspondence No.: RS-12-175
Seismic Walkdown Checklist (SWC)	Status: Y N U
Equipment ID No.: MS-V-0004B	
Equipment Class: (7) Fluid-Opera	ated Valves
Equipment Description: ATMOSPHER	C DUMP VALVE FOR 'B' OTSG
-	
Interaction Effects	
7. Are soft targets free from impact by nea	arby equipment or structures? Yes
 Are overhead equipment, distribution s masonry block walls not likely to collap 	ystems, ceiling tiles and lighting, and Yes se onto the equipment?
9. Do attached lines have adequate flexib	ility to avoid damage? Yes
10. Based on the above seismic interaction potentially adverse seismic interaction	evaluations, is equipment free of Yes effects?
Other Adverse Conditions	
 Have you looked for and found no adversely affect the safety functions of 	erse seismic conditions that could Yes the equipment?
Comments	
Anchorage check is not applicable. This is in-li	ne equipment.
See SQ-T1-MS-V-0004B, Revision 001	

. . ..

Seismic Walkd	own Checklist	(SWC)		Status: Y N U
Equi	ipment ID No.:	MS-V-0004B		
Equ	ipment Class:	(7) Fluid-Operated Valves		
Equipme	nt Description:	ATMOSPHERIC DUMP VALVE FOR 'B' OTS	SG	
Evaluated by:	Man	Mark S. Etre	Date:	10/24/2012
	So	Seth W. Baker		10/24/2012

Photos



Seismic Walkdown Checklist (SWC)	
Equipment ID No.: MU-FT-1127	
Equipment Class: (18) Instruments on Racks	
Equipment Description: HPI THRU MU-V-16B FLOW TRANSMITTER	
Project: TMI SWEL	
Location (Bldg, Elev, Room/Area): AB, 281.00 ft, 15 : 3' E. MU VLV ALLEY	
Manufacturer/Model:	
Instructions for Completing Checklist	
This checklist may be used to document the results of the Seismic Walkdown of an item of eq SWEL. The space below each of the following questions may be used to record the results of findings. Additional space is provided at the end of this checklist for documenting other comm	uipment on the i judgments and nents.
Anchorage	
 Is anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? 	Yes
2. Is the anchorage free of bent, broken, missing or loose hardware?	Yes
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	Yes
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Yes
 Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) 	Yes
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	Yes

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Seismic Walkdown Checklis	t (SWC)		Status: Y N	U
Equipment ID No.:	MU-FT-1127			
Equipment Class:	(18) Instruments on Rack	S		
Equipment Description:	HPI THRU MU-V-16B FL	OW TRANSMITTER		
Interaction Effects				
7. Are soft targets free fr	om impact by nearby equip	nent or structures?	Ye	es
 Are overhead equipm masonry block walls r 	ent, distribution systems, ce ot likely to collapse onto the	iling tiles and lighting, and e equipment?	Ye	es
9. Do attached lines hav	e adequate flexibility to avoi	d damage?	Ye	es
10. Based on the above s potentially adverse se	eismic interaction evaluation smic interaction effects?	ns, is equipment free of	Ye	es
Other Adverse Conditions				
11. Have you looked for a adversely affect the s	nd found no adverse seism afety functions of the equipn	ic conditions that could nent?	Ye	es
See SQ-T1-MU-FT-1127, Rev	ision 000			
Evaluated by:	S Eng Mark S.	EtreD	ate: 10/24/2012	
Se	trBur set	W. Baker	10/24/2012	

Seismic Walkdown Checklist (SWC)

Equipment ID No.:	MU-FT-1127
Equipment Class:	(18) Instruments on Racks
Equipment Description:	HPI THRU MU-V-16B FLOW TRANSMITTER

Photos



.

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.:	MU-FT-1128	
Equipment Class:	(18) Instruments on Racks	
Equipment Description;	HPI THRU MU-V-16C FLOW TRANSMITTER	
Proj	ect: TMI SWEL	
Location (Bldg, Elev, Room/Are	ea): AB, 305.00 ft, 13 : ON WALL BY MU-F-4A 4' UP	
Manufacturer/Mo	del:	
Instructions for Completing This checklist may be used to SWEL. The space below each findings. Additional space is p	Checklist document the results of the Seismic Walkdown of an item of equipmen of the following questions may be used to record the results of judgm ovided at the end of this checklist for documenting other comments.	nt on the nents and
Anchorage 1. Is anchorage configura of SWEL items requirir	tion verification required (i.e., is the item one of the 50% og such verification)?	Yes
2. Is the anchorage free	of bent, broken, missing or loose hardware?	Yes
3. Is the anchorage free	of corrosion that is more than mild surface oxidation?	Yes
4. Is the anchorage free	of visible cracks in the concrete near the anchors?	Yes
5. Is the anchorage confi This question only app configuration verification	guration consistent with plant documentation? (Note: lies if the item is one of the 50% for which an anchorage on is required.)	Yes
 Based on the above a potentially adverse sei 	nchorage evaluations, is the anchorage free of smic conditions?	Yes

Seismic Walkdown Checkl	ist (SWC)			Status: Y]N U
Equipment ID No	o.: MU-FT-1128	i -			
Equipment Clas	s: (18) Instrum	ents on Racks			
Equipment Descriptio	n: HPI THRU M	IU-V-16C FLOW TRANSMIT	TER		
Interaction Effects					
7. Are soft targets free	from impact by n	earby equipment or structure	es?		Yes
8. Are overhead equip masonry block walls	ment, distribution not likely to colla	systems, ceiling tiles and lig apse onto the equipment?	hting, and		Yes
		·			
9. Do attached lines ha	ave adequate fle>	kibility to avoid damage?			Yes
10. Based on the above	seismic interacti	on evaluations, is equipment	free of	•	Yes
potentially adverse	seismic interactio	n effects?			
					-
Other Adverse Conditions					
11. Have you looked for adversely affect the	and found no ac safety functions	lverse seismic conditions tha of the equipment?	t could		Yes
<u>Comments</u> See SQ-T1-MU-FT-1128, R	evision 000				
Evaluated by:	of S Eline	Mark S. Etre	Date:	10/24/2012	
	R	11/			

Seismic Walkdown Checklist (SWC)

Equipment ID No.:	MU-FT-1128
Equipment Class:	(18) Instruments on Racks
Equipment Description:	HPI THRU MU-V-16C FLOW TRANSMITTER

Photos



Seismic Walkdown Checklist (SWC)	
Equipment ID No.: MU-FT-1129	
Equipment Class: (18) Instruments on Racks	
Equipment Description: HPI THROUGH MU-V-16D FLOW TRANSMITTER	
Project: TMI SWEL	
Location (Bldg, Elev, Room/Area): FB, 281.00 ft, 31 : W WALL 12' N OF SEAL RET CLR	
Manufacturer/Model:	
Instructions for Completing Checklist	
This checklist may be used to document the results of the Seismic Walkdown of an item of equipment SWEL. The space below each of the following questions may be used to record the results of judgme findings. Additional space is provided at the end of this checklist for documenting other comments.	t on the ents and
Anchorage	
1. Is anchorage configuration verification required (i.e., is the item one of the 50%	Yes
or SVVEL items requiring such vernication)?	
2. In the evolution of head broken missing or lease berefuere?	Vaa
2. Is the anchorage nee of bent, broken, missing of loose hardware?	Tes
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	Yes
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Yes
5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage	Yes
configuration verification is required.)	
6. Based on the above anchorage evaluations, is the anchorage free of	Yes
potentially adverse seismic conditions?	

,

Seismic Walkdown Checklis	t (SWC)	Status: Y N U
Equipment ID No.:	MU-FT-1129	
Equipment Class:	(18) Instruments on Racks	
Equipment Description:	HPI THROUGH MU-V-16D FLOW TRANSMITTER	
Interaction Effects		
7. Are soft targets free fro	om impact by nearby equipment or structures?	Yes
 Are overhead equipme masonry block walls n 	ent, distribution systems, ceiling tiles and lighting, and ot likely to collapse onto the equipment?	Yes
9. Do attached lines have	e adequate flexibility to avoid damage?	Yes
• •		
10. Based on the above s potentially adverse se	eismic interaction evaluations, is equipment free of ismic interaction effects?	Yes
Other Adverse Conditions		
11. Have you looked for a adversely affect the sa	nd found no adverse seismic conditions that could afety functions of the equipment?	Yes

<u>Comments</u>

Equipment was verified to be in accordance with Seismic Qualification No. SQ-T1-MU-FT-1129, Rev 000

Evaluated by:	Man S End Mark S. Etre	Date:	10/24/2012	
	Sun Bern Seth W. Baker		10/24/2012	

Seismic Walkdown Checklist	(SWC)	Status: Y N U
Equipment ID No.:	MU-FT-1129	
Equipment Class:	(18) Instruments on Racks	
Equipment Description:	HPI THROUGH MU-V-16D FLOW TRANSMITTER	

Photos



Seismic Walkdown Checklist (SWC)

.

Equipment ID No.: MU-P-0001B	
Equipment Class: (5) Horizontal Pumps	
Equipment Description: MAKEUP PUMP 1B	
Project: TMI SWEL	
Location (Bldg, Elev, Room/Area): AB, 281.00 ft, 14 : MU PUMP RM B	
Manufacturer/Model:	
Instructions for Completing Checklist This checklist may be used to document the results of the Seismic Walkdow SWEL. The space below each of the following questions may be used to findings. Additional space is provided at the end of this checklist for docu	own of an item of equipment on the record the results of judgments and menting other comments.
Anchorage	
 Is anchorage configuration verification required (i.e., is the item of of SWEL items requiring such verification)? 	ne of the 50% Yes
2. Is the anchorage free of bent, broken, missing or loose hardware	Yes
3. Is the anchorage free of corrosion that is more than mild surface of	oxidation? Yes
4. Is the anchorage free of visible cracks in the concrete near the ar	chors? Yes
 Is the anchorage configuration consistent with plant documentation This question only applies if the item is one of the 50% for which configuration verification is required.) 	on? (Note: Yes an anchorage
 Based on the above anchorage evaluations, is the anchorage free potentially adverse seismic conditions? 	e of Yes

.

Seismic Walkdown Checklist	t (SWC)	Status: Y N U
Equipment ID No.:	MU-P-0001B	
Equipment Class:	(5) Horizontal Pumps	
Equipment Description:	MAKEUP PUMP 1B	
Interaction Effects		
7. Are soft targets free fro	orn impact by nearby equipment or structures?	Yes
 Are overhead equipme masonry block walls no 	ent, distribution systems, ceiling tiles and lighting, and ot likely to collapse onto the equipment?	Yes
9. Do attached lines have	e adequate flexibility to avoid damage?	Yes
10. Based on the above se potentially adverse sei	eismic interaction evaluations, is equipment free of smic interaction effects?	Yes
Other Adverse Conditions		
11. Have you looked for a adversely affect the sa	nd found no adverse seismic conditions that could afety functions of the equipment?	Yes

<u>Comments</u>

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Two linear indications in pad and one on floor is within the ACI-349 acceptance criteria. Not a potential seismic concern.

See SQ-T1-MU-P-0001B, Revision 001

Seismic Walkdo	wn Checklist	(SWC)		Status: Y N U
Equip	ment ID No.:	MU-P-0001B		
Equi	pment Class:	(5) Horizontal Pumps		
Equipmen	t Description:	MAKEUP PUMP 1B		1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 -
Evaluated by:	Man	S The Mark S. Etre	Date:	10/24/2012
	So	Ber Seth W. Baker		10/24/2012

Photos



Seismic Walkdown Checklist (SWC)

Equipment ID No.: MU-V-0003	
Equipment Class: (7) Fluid-Operated Valves	
Equipment Description: CONTAINMENT ISOL LD COOLER ISOL VLV	
Project: TMI SWEL	
Location (Bldg, Elev, Room/Area): AB, 281.00 ft, 15 : N ON MEZANINE O	
Manufacturer/Model:	
Instructions for Completing Checklist	
This checklist may be used to document the results of the Seismic Walkdown of an item of equipm SWEL. The space below each of the following questions may be used to record the results of jud findings. Additional space is provided at the end of this checklist for documenting other comment	nent on the gments and s.
Anchorage	
 Is anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? 	No
2. Is the anchorage free of bent, broken, missing or loose hardware?	Not Applicable
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	Not Applicable
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Not Applicable
 Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) 	Not Applicable
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	Yes

Solomia Walkdown Chacklist		Status: Y N U
Equipment ID No.:	MU-V-0003	
Equipment Class:	(7) Fluid-Operated Valves	
Equipment Description:	CONTAINMENT ISOL LD COOLER ISOL VLV	
Interaction Effects	m import by possibly any import or attractive 2	· Vaa
7. Are sont targets free fro	om impact by hearby equipment of structures?	tes
8. Are overhead equipme	nt, distribution systems, ceiling tiles and lighting, and	Yes
masonry block walls no	ot likely to collapse onto the equipment?	
9. Do attached lines have	e adequate flexibility to avoid damage?	Yes
10. Based on the above se	eismic interaction evaluations, is equipment free of	Yes
potentially adverse sei	smic interaction effects?	
Other Adverse Conditions		
11. Have you looked for a	nd found no adverse seismic conditions that could	Yes
adversely affect the sa	tety functions of the equipment?	

Comments

In-line equipment.

See SQ-T1-MU-V-0003, Revision 002

Seismic Walkdo	wn Checklist	(SWC)		Status: Y N U
Equip	ment ID No.:	MU-V-0003		
Equi	pment Class:	(7) Fluid-Operated Valves		
Equipmen	t Description:	CONTAINMENT ISOL LD COOLER ISOL VLV	1	
Evaluated by:	Man	S Elver Mark S. Etre	_ Date:	10/24/2012
	So	Bur Seth W. Baker		10/24/2012

Photos



Seismic Walkdown Checklist (SWC)	
Equipment ID No.: NR-P-0001B	
Equipment Class: (6) Vertical Pumps	
Equipment Description: NUC SVC COOL RIVER WATER 'B' PUMP	
Project: TMI SWEL	
Location (Bldg, Elev, Room/Area): IPH, 308.00 ft, 28 : N PUMP ROOM SOU	
Manufacturer/Model:	
Instructions for Completing Checklist	
This checklist may be used to document the results of the Seismic Walkdown of an item of SWEL. The space below each of the following questions may be used to record the result findings. Additional space is provided at the end of this checklist for documenting other co	f equipment on the ts of judgments and omments.
Anchorage	
 Is anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? 	Yes
2. Is the anchorage free of bent, broken, missing or loose hardware?	Yes
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	Yes
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Yes
 Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) 	Yes
 Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? 	Yes

Soismi	c Walkdown Checklist	(SWC)	Status: Y N U
J e13111	c wardown onechist	(6116)	
	Equipment ID No.:	NR-P-0001B	
	Equipment Class:	(6) Vertical Pumps	
E	Equipment Description:	NUC SVC COOL RIVER WATER 'B' PUMP	
Interac	tion Effects		
7.	Are soft targets free fro	m impact by nearby equipment or structures?	Yes
0	A		Vee
δ.	masonry block walls no	it likely to collapse onto the equipment?	res
	,		
			·
9.	Do attached lines have	adequate flexibility to avoid damage?	Yes
•			
10.	Based on the above se	ismic interaction evaluations, is equipment free of	Yes
	potentially adverse sets		
		· ·	
			· .
Other /	Adverse Conditions		
11.	Have you looked for an	d found no adverse seismic conditions that could	Yes
	auversely allest the sa		

Comments

See Calculation FBT-625-001 Rev. 000.

The pumps upper restrains are not required for seismic qualification. They were for thrust purposes and the where removed per ECRs 02-00271, 02-00272, 02-00263 due to the fact that they were not longer needed. The pump seismic qualification is not longer per SQUG (IE: Seismic Qualification No. SQ-T1-NR-P-0001B, Rev 001 is no longer applicable), instead there is a new analysis that was performed (FBT-625-001 R00) during the pump replacement on 2001 (from Peerless to Johnsons Pump) that qualified the new pump to Seismic Class

Seismic Walkdown Checklist (SWC)

Equipment ID No.: NR-P-0001B

Equipment Class: (6) Vertical Pumps

Equipment Description: NUC SVC COOL RIVER WATER 'B' PUMP

(1) One, per TMI specification (SP-1101-12-148 Rev. 3).

Documentation for the removal of upper braces was tracked under IR 1401674 and has been determined to be acceptable per Calculation FBT-625-001 Rev. 000.

Three bolts in north brace anchorage per design and SQUG SEWS.

Evaluated by:	Man S Ere Mark S. Etre	Date:	10/24/2012	
	SonBur Seth W. Baker		10/24/2012	



Seismic Walkdown Checklist (SWC)

Equipment ID No.:	R-V-0001B	
Equipment Class: (8)	Motor-Operated and Solenoid-Operated Valves	
Equipment Description: NU	JC PUMP RIVER PUMP B DISCH VLV	
Project:	TMI SWEL	
Location (Bldg, Elev, Room/Area):	IPH, 308.00 ft, 28 : NR-P-1B DISCH N	
Manufacturer/Model:		
Instructions for Completing Che	cklist	
This checklist may be used to docu SWEL. The space below each of t findings. Additional space is provid	ment the results of the Seismic Walkdown of an item of e he following questions may be used to record the results led at the end of this checklist for documenting other com	quipment on the of judgments and ments.
Anchorage 1. Is anchorage configuration of SWEL items requiring su	verification required (i.e., is the item one of the 50% uch verification)?	No
2. Is the anchorage free of be	ent, broken, missing or loose hardware?	Not Applicable
3. Is the anchorage free of co	rrosion that is more than mild surface oxidation?	Not Applicable
4. Is the anchorage free of vis	sible cracks in the concrete near the anchors?	Not Applicable
 Is the anchorage configura This question only applies configuration verification is 	tion consistent with plant documentation? (Note: if the item is one of the 50% for which an anchorage required.)	Not Applicable
 Based on the above anchor potentially adverse seismic 	prage evaluations, is the anchorage free of conditions?	Yes

Seismic Walkdown Checklist (SWC)	Status: Y N U
Equipment ID No.: NR-V-0001B	
Equipment Class: (8) Motor-Operated and Solenoid-Operated Valves	<u> </u>
Equipment Description: NUC PUMP RIVER PUMP B DISCH VLV	<u> </u>
Interaction Effects	
7. Are soft targets free from impact by nearby equipment or structures?	Yes
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and	Yes
masonry block walls not likely to collapse onto the equipment?	
9. Do attached lines have adequate flexibility to avoid damage?	Yes
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	Yes
Other Adverse Conditions	
11. Have you looked for and found no adverse seismic conditions that could adversely affect the safety functions of the equipment?	Yes

<u>Comments</u>

Equipment was verified to be in accordance with Seismic Qualification No. SQ-T1-NR-V-0001B, Rev 000

In-line equipment.

Flexible electrical line is loose at the attachment and is being tracked by IR 1402599. Not an operability issue.

Salamia Walkdow	n Chaoklint			Status: Y N U
Seismic walkuow	n checklist	(SWC)		
Equipm	ent ID No.:	NR-V-0001B		
Equipr	ment Class:	(8) Motor-Operated and Solenoid-Operated	/alves	
Equipment [Description:	NUC PUMP RIVER PUMP B DISCH VLV		
Evaluated by:	Mar	S Ered Mark S. Etre	Date:	10/24/2012
	Sa	Bur Seth W. Baker		10/24/2012

Photos



Seismic Walkdown Checklist (SWC)

Equipment ID No.: NF	R-V-0004B	
Equipment Class: _(8)	Motor-Operated and Solenoid-Operated Valves	
Equipment Description: DE	EICING MU VALVE B	
Project:	TMI SWEL	
Location (Bldg, Elev, Room/Area):	AB, 271.00 ft, 16 : HT EX VAULT NW	
Manufacturer/Model:		
Instructions for Completing Che	cklist	
This checklist may be used to docu SWEL. The space below each of t findings. Additional space is provid	ment the results of the Seismic Walkdown of an item of e he following questions may be used to record the results ded at the end of this checklist for documenting other com	quipment on the of judgments and ments.
Anchorage		
 Is anchorage configuration of SWEL items requiring st 	verification required (i.e., is the item one of the 50% uch verification)?	No
2. Is the anchorage free of be	ent, broken, missing or loose hardware?	Not Applicable
3. Is the anchorage free of co	prrosion that is more than mild surface oxidation?	Not Applicable
4. Is the anchorage free of vis	sible cracks in the concrete near the anchors?	Not Applicable
 Is the anchorage configura This question only applies configuration verification is 	ition consistent with plant documentation? (Note: if the item is one of the 50% for which an anchorage required.)	Not Applicable
 Based on the above anchor potentially adverse seismic 	prage evaluations, is the anchorage free of conditions?	Yes

			Status: Y N U
Seismi	ic Walkdown Checklist	(SWC)	
	Equipment ID No.:	NR-V-0004B	
	Equipment Class:	(8) Motor-Operated and Solenoid-Operated Valves	
	Equipment Description:	DEICING MU VALVE B	
Interac	ction Effects		
7.	Are soft targets free fro	m impact by nearby equipment or structures?	Yes
8	Are overhead equipme	nt, distribution systems, ceiling tiles and lighting, and	Yes
	masonry block walls no	t likely to collapse onto the equipment?	
· 9.	Do attached lines have	adequate flexibility to avoid damage?	Yes
10.	Based on the above se	ismic interaction evaluations, is equipment free of	Yes
	potentially adverse seis	mic interaction effects?	
Other	Adverse Conditions		
11.	Have you looked for an	d found no adverse seismic conditions that could	Yes
	adversely affect the sa		

Comments

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In-line equipment.

Equipment was verified to be in accordance with Seismic Qualification No. SQ-T1-NR-V-0004B Rev. 0

Seismic Walkdov	wn Checklist	(SWC)			Status: Y	N U
Equip	ment ID No.:	NR-V-0004E	3			
Equip	oment Class:	(8) Motor-O	perated and Solenoid-Opera	ated Valves		
Equipment	Description:	DEICING M	U VALVE B			
Evaluated by:	Man	S Elve	Mark S. Etre	Date:	10/24/2012	
	So	TB.	Seth W. Baker		10/24/2012	

Photos



	Status: Y N U
Seismic Walkdown Checklist (SWC)	
Equipment ID No.: NS-C-0001B	
Equipment Class: (21) Tanks and Heat Exchangers	
Equipment Description: NUCLEAR SERVICES CLOSED COOLING WATER HE	EAT EXCHANGER 1B
Project: TMI SWEL	
Location (Bldg, Elev, Room/Area): AB, 271.00 ft, 16 : HEAT EXCHANGE VAULT N	
Manufacturer/Model:	
Instructions for Completing Checklist	
This checklist may be used to document the results of the Seismic Walkdown of an item	of equipment on the
findings. Additional space is provided at the end of this checklist for documenting other	comments.
Anchorage	
1. Is anchorage configuration verification required (i.e., is the item one of the 50%	Yes
of SWEL items requiring such verification)?	
2. Is the anchorage free of bent, broken, missing or loose hardware?	Yes
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	Yes
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Yes
5. Is the anchorage configuration consistent with plant documentation? (Note:	Yes
This question only applies if the item is one of the 50% for which an anchorage	
configuration verification is required.)	
 Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? 	Yes

			Status: Y N U				
Seismi	ic Walkdown Checklist (SWC)						
	Equipment ID No.: NS-C-0001B						
	Equipment Class: (21) Tanks and	Heat Exchangers					
	Equipment Description: NUCLEAR SERVICES CLOSED COOLING WATER HEAT EXCHANGE						
Interac	ction Effects	rby againment or atructures?	Vaa				
7.	7. Are sont targets free from impact by hearby equipment or structures?						
_		· · ·					
8.	Are overhead equipment, distribution sy masonry block walls not likely to collaps	stems, ceiling tiles and lighting, and e onto the equipment?	Yes				
9.	Do attached lines have adequate flexibi	lity to avoid damage?	Yes				
10.	Based on the above seismic interaction	evaluations, is equipment free of	Yes				
	potentially adverse seismic interaction effects?						
	· · · ·	· · · · · · · · · · · · · · · · · · ·					
Other	Adverse Conditions						
11.	Have you looked for and found no adve adversely affect the safety functions of t	Yeş					
Comm	nents		·				
See So	Q-T1-NS-C-0001B, Revision 001						
		·					
Evalua	Man S The	Mark S. Etre Date	10/24/2012				
_/0.00) - R.						
	statu	Seth W. Baker	10/24/2012				

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.:	NS-C-0001B			: d' de. Figli	ļ.
Equipment Class:	(21) Tanks and Heat Exchangers				
Equipment Description:	NUCLEAR SERVICES CLOSED COOLING WATER HEAT EXCHANGER 1B				
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Photos




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Seismic Walkdown Checklist (SWC)

	Equipment ID No.: N	S-P-0001B	
	Equipment Class: (5) Horizontal Pumps	
	Equipment Description: N	JC SVC CLOSED COOLING WATER 'B' PUMP	
	Project:	TMI SWEL	
Locatio	on (Bldg, Elev, Room/Area):	AB, 305.00 ft, 11 : NS PUMP CUB M6C	
	Manufacturer/Model:		
Instru	ctions for Completing Che	cklist	
This cf SWEL finding	necklist may be used to docu The space below each of t s. Additional space is provid	ment the results of the Seismic Walkdown of an item of equipment on he following questions may be used to record the results of judgments led at the end of this checklist for documenting other comments.	the and
Ancho	orage		
1.	Is anchorage configuration	verification required (i.e., is the item one of the 50%	Yes
2.	Is the anchorage free of be	ent, broken, missing or loose hardware?	Yes
		· · · · · · · · · · · · · · · · · · ·	
3.	Is the anchorage free of co	prrosion that is more than mild surface oxidation?	Yes
4.	Is the anchorage free of vi	sible cracks in the concrete near the anchors?	Yes
F			
5.	This question only applies	ition consistent with plant documentation? (Note: if the item is one of the 50% for which an anchorage	Yes
	configuration verification is	required.)	
6.	Based on the above ancho	prage evaluations, is the anchorage free of	Yes
	potentially adverse seismic	conditions?	

Seiemie Melkdeure Checklich		Status: Y N U
Seismic walkdown Checklist		
Equipment ID No.:	NS-P-0001B	
Equipment Class:	(5) Horizontal Pumps	
Equipment Description:	NUC SVC CLOSED COOLING WATER 'B' PUMP	
· ·		
	·	
Interaction Effects		
7. Are soft targets free fro	om impact by nearby equipment or structures?	Yes
8. Are overhead equipme	ent, distribution systems, ceiling tiles and lighting, and	Yes
masonry block walls no	of likely to collapse onto the equipment?	
9. Do attached lines have	e adequate flexibility to avoid damage?	Yes
	. , , .	
10 Based on the above se	eismic interaction evaluations, is equipment free of	Yes
potentially adverse sei	smic interaction effects?	100
Other Adverse Conditions		
11. Have you looked for an	nd found no adverse seismic conditions that could	Yes
adversely affect the sa	tety functions of the equipment?	

<u>Comments</u>

Two linear indication on concrete pad which are within the acceptance criteria of ACI-349. Not a potential seismic concern.

See SQ-T1-NS-P-0001B, Revision 000

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				Status: Y N U
Seismic Walkdow	wn Checklist	(SWC)		
Equip	ment ID No.:	NS-P-0001B		
Equip	ment Class:	(5) Horizontal Pumps		
Equipment	Description:	NUC SVC CLOSED COOLING WATER 'B' PUMP)	
Evaluated by:	Man	S Erre Mark S. Etre [Date:	10/24/2012
	Sa	Bur Seth W. Baker		10/24/2012

Photos



100_3786

Seismic Walkdown Checklist (SWC)

Equipment ID No.:	NS-V-0052B	
Equipment Class:	(7) Fluid-Operated Valves	
Equipment Description:	CONTAINMENT ISOL AH-E-1B MTR COOLER SUPPLY	
Proje	ect: TMI SWEL	
	IB, 295.00 ft, 3 : IB BASEMENT CUBICLE S OF REACT	OR RIVER
Location (Bldg, Elev, Room/Are	a): LOOPS S WALL 8 ABOVE FLR	
Manufacturer/Mod		
This checklist may be used to d SWEL. The space below each	ocument the results of the Seismic Walkdown of an item of eco of the following questions may be used to record the results o	quipment on the of judgments and
Anchorage	ovided at the end of this checklist for documenting other comi	nents.
1. Is anchorage configura of SWEL items requirin	tion verification required (i.e., is the item one of the 50% g such verification)?	No
2. Is the anchorage free o	f bent, broken, missing or loose hardware?	Yes
3. Is the anchorage free o	f corrosion that is more than mild surface oxidation?	Yes
4. Is the anchorage free c	f visible cracks in the concrete near the anchors?	Yes
5. Is the anchorage config This question only appl configuration verificatio	guration consistent with plant documentation? (Note: lies if the item is one of the 50% for which an anchorage n is required.)	Not Applicable
Based on the above an potentially adverse seis	chorage evaluations, is the anchorage free of smic conditions?	Yes

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Seismic Walkdown Checklist (SWC)	Status: Y N U
	· .
Equipment ID No.: NS-V-0052B	
Equipment Class: (7) Fluid-Operated Valves	
Equipment Description: CONTAINMENT ISOL AH-E-1B MTR COOLER SUPPLY	<u></u>
Interaction Effects	
7. Are soft targets free from impact by nearby equipment or structures?	Yes
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	Yes
9. Do attached lines have adequate flexibility to avoid damage?	Yes
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	Yes
Other Adverse Conditions	
11. Have you looked for and found no adverse seismic conditions that could adversely affect the safety functions of the equipment?	Yes
Comments	
See Drawing CP-1690, Rev 01	
Evaluated by: Mark S. Etre Date: 1	10/24/2012
Sun Bern Seth W. Baker	10/24/2012

. . ..

	Status	s: [Y	Ν	U
Seismic Walkdown Checklist	(SWC)				
Equipment ID No.:	NS-V-0052B				
Equipment Class:	(7) Fluid-Operated Valves				
Equipment Description:	CONTAINMENT ISOL AH-E-1B MTR COOLER SUPPLY				

Photos



100_3312_52B

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Seismic Walkdown Checklist (SWC)	ليسمعا
Equipment ID No.: NS-V-0053B	
Equipment Class: (7) Fluid-Operated Valves	
Equipment Description: CONTAINMENT ISOL AH-E-1B MTR COOLER RETURN	
Project: TMI SWEL	
Location (Bldg, Elev, Room/Area): IB, 295.00 ft, 3 : N/A	
Manufacturer/Model:	······
Instructions for Completing Checklist	
This checklist may be used to document the results of the Seismic Walkdown of an item of eq SWEL. The space below each of the following questions may be used to record the results o findings. Additional space is provided at the end of this checklist for documenting other comm	juipment on the f judgments and nents.
Anchorage	
1. Is anchorage configuration verification required (i.e., is the item one of the 50%	No
or svyed items requiring such vernication?	
2 Is the anchorage free of bent broken missing or loose hardware?	Vec
2. Is the anchorage free of bent, broken, missing of house hardware?	163
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	Yes
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Yes
 Is the anchorage configuration consistent with plant documentation? (Note: This guestion only applies if the item is one of the 50% for which an anchorage 	Not Applicable
configuration verification is required.)	
6. Based on the above anchorage evaluations, is the anchorage free of	Yes
potentially adverse seismic conditions?	

			Status: Y N U
Seism	ic Walkdown Checklist	(SWC)	
	Equipment ID No.:	NS-V-0053B	
	Equipment Class:	(7) Fluid-Operated Valves	
	Equipment Description:	CONTAINMENT ISOL AH-E-1B MTR COOLER RETURN	
Interac	ction Effects	······································	
7.	Are soft targets free fro	m impact by nearby equipment or structures?	Yes
8.	Are overhead equipme	nt, distribution systems, ceiling tiles and lighting, and	Yes
	masonry block walls no	ot likely to collapse onto the equipment?	
9 .	Do attached lines have	adequate flexibility to avoid damage?	Yes
			·
10.	Based on the above se	sismic interaction evaluations, is equipment free of	Yes
	potentially adverse sei	smic interaction effects?	
	•		
<u>Other</u>	Adverse Conditions		
11.	Have you looked for an	nd found no adverse seismic conditions that could fety functions of the equipment?	Yes
	auversely allest the sa		

Comments

Equipment was verified to be in accordance with Seismic Qualification No. SQ-T1-NS-V-0053B, Rev 001

Evaluated by:	Man S End Mark S. Etre	Date:	10/24/2012	
	Sun Bun Seth W. Baker		10/24/2012	

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.:	NS-V-0053B
Equipment Class:	(7) Fluid-Operated Valves
Equipment Description:	CONTAINMENT ISOL AH-E-1B MTR COOLER RETURN

Photos



100_3312_53B

Seismic Walkdown Checklist (SWC)

Equi	pment ID No.:	NS-V-0054B	
Equ	ipment Class:	(7) Fluid-Operated Valves	
Equipmer	nt Description:	SPENT FUEL POOL PUMP ROOM COOLING COIL FLC	W CONTROL VLV
	Projec	t: TMI SWEL	
Location (Bldg, I	Elev, Room/Area): FB, 305.00 ft, 33 : IN OVERHEAD BY AIR COOLERS	6
Ma	anufacturer/Mode	l:	
Instructions for	r Completing Ch	necklist	
This checklist m SWEL. The spa findings. Additio	ay be used to do ace below each o onal space is pro	cument the results of the Seismic Walkdown of an item o f the following questions may be used to record the result vided at the end of this checklist for documenting other co	f equipment on the ts of judgments and omments.
Anchorage		· · · ·	
1. Is ancho of SWE	orage configuration L items requiring	on verification required (i.e., is the item one of the 50% such verification)?	No
2. Is the a	nchorage free of	bent, broken, missing or loose hardware?	Not Applicable
3. Is the a	nchorage free of	corrosion that is more than mild surface oxidation?	Not Applicable
4. Is the a	nchorage free of	visible cracks in the concrete near the anchors?	Not Applicable
5. Is the a	nchorage configu	ration consistent with plant documentation? (Note:	Not Applicable
This que configui	estion only applie ration verification	es if the item is one of the 50% for which an anchorage is required.)	
6. Based o potentia	on the above and ally adverse seisr	horage evaluations, is the anchorage free of nic conditions?	Yes

Seismic Walkdown Checklis	: (SWC)	Status: Y N U
Equipment ID No.:	NS-V-0054B	
Equipment Class:	(7) Fluid-Operated Valves	
Equipment Description:	SPENT FUEL POOL PUMP ROOM COOLING COIL FL	OW CONTROL VLV
Interaction Effects		
7. Are soft targets free free	om impact by nearby equipment or structures?	Yes
8. Are overhead equipme masonry block walls n	ent, distribution systems, ceiling tiles and lighting, and ot likely to collapse onto the equipment?	Yes
9. Do attached lines have	e adequate flexibility to avoid damage?	Yes
10. Based on the above september 10. potentially adverse set	eismic interaction evaluations, is equipment free of smic interaction effects?	Yes
Other Adverse Conditions 11. Have you looked for a adversely affect the sa	nd found no adverse seismic conditions that could ifety functions of the equipment?	Yes
<u>Comments</u> Equipment was verified to be i	n accordance with Seismic Qualification No. SQ-T1-NS-V-	0054B, Rev 000

In-line equipment.

					Status: Y N U
Seismic Walkdo	wn Checklist	(SWC)			
Equip	ment ID No.:	NS-V-0054E	3		
Equi	oment Class:	(7) Fluid-Op	erated Valves		
Equipment	Description:	SPENT FUE	EL POOL PUMP ROOM CO	OLING COIL FL	OW CONTROL VLV
Evaluated by:	Man	S Elve	Mark S. Etre	Date:	10/24/2012
	Sa	nBe	Seth W. Baker		10/24/2012

Photos



100_3244

Seismic Walkdown Checklist (SWC)

Equipment ID No.: R	C-RV-0002	
Equipment Class: (7) Fluid-Operated Valves	
Equipment Description: Pl	LOT OPERATED RELIEF VALVE (PORV)	
Project:	TMI SWEL	
Location (Bldg, Elev, Room/Area):	RB, 346.00 ft, 42 : TOP OF PRESSURIZER	
Manufacturer/Model:		
Instructions for Completing Che	cklist	
This checklist may be used to docu SWEL. The space below each of the findings. Additional space is provided	ument the results of the Seismic Walkdown of an item o the following questions may be used to record the resul ded at the end of this checklist for documenting other co	of equipment on the Its of judgments and comments.
Anchorage		
 Is anchorage configuration of SWEL items requiring s 	i verification required (i.e., is the item one of the 50% uch verification)?	No
2. Is the anchorage free of be	ent, broken, missing or loose hardware?	Not Applicable
3. Is the anchorage free of co	prrosion that is more than mild surface oxidation?	Not Applicable
4. Is the anchorage free of vi	sible cracks in the concrete near the anchors?	Not Applicable
5. Is the anchorage configura This question only applies	ation consistent with plant documentation? (Note: if the item is one of the 50% for which an anchorage	Not Applicable
configuration vernication is	s required.)	
Based on the above anchor potentially adverse seismic	prage evaluations, is the anchorage free of conditions?	Yes

Seismic Walkdown Checklist (SWC)	Status: Y N U
Equipment ID No.: RC-RV-0002	
Equipment Class: _(7) Fluid-Operated Valves	
Equipment Description: PILOT OPERATED RELIEF VALVE (PORV	/)
Interaction Effects	
7. Are soft targets free from impact by nearby equipment or structures	? Yes
8. Are overhead equipment, distribution systems, ceiling tiles and light	ing, and Yes
masonry block walls not likely to collapse onto the equipment?	
9. Do attached lines have adequate flexibility to avoid damage?	Yes
10 Based on the above seismic interaction evaluations is equipment fr	ee of Yes
potentially adverse seismic interaction effects?	
Other Adverse Conditions	
11. Have you looked for and found no adverse seismic conditions that c	could Yes
adversely affect the safety functions of the equipment?	
Comments	· · · · · · · · · · · · · · · · · · ·
See SQ-T1-RC-RV-0002 Rev 00	

In-Line Valve

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					Corre	12Q0108.70-R-00 spondence No.: R	01 Rev. 1 S-12-175
		(2)1(2)				Status: Y	NU
Seismic Walkdov	ment ID No.:	(SWC) RC-RV-0002					
Equip	oment Class:	(7) Fluid-Ope	erated Valves	VE (PORV)			
Evaluated by:	Man/	S Eline	Mark S. Etre		Date:	10/24/2012	10
	Juan	Ages	Juan A. López			10/9/12	
							100 - 100 Annual -
100 4082							

Seismic Walkdown Checklist (SWC)

Equipment ID No.: RO	C-V-0002	
Equipment Class: (8)	Motor-Operated and Solenoid-Operated Valves	
Equipment Description: PC	DRV BLOCK VALVE	
Project:	TMI SWEL	
Location (Bldg, Elev, Room/Area):	RB, 346.00 ft, 42 : TOP OF PZR	
Manufacturer/Model:		
Instructions for Completing Chee	cklist	
This checklist may be used to docu SWEL. The space below each of the findings. Additional space is provide	ment the results of the Seismic Walkdown of an item o he following questions may be used to record the result led at the end of this checklist for documenting other co	f equipment on the ts of judgments and omments.
Anchorage		
 Is anchorage configuration of SWEL items requiring sum 	verification required (i.e., is the item one of the 50% uch verification)?	No
2. Is the anchorage free of be	nt, broken, missing or loose hardware?	Not Applicable
3. Is the anchorage free of co	rrosion that is more than mild surface oxidation?	Not Applicable
4. Is the anchorage free of vis	sible cracks in the concrete near the anchors?	Not Applicable
 Is the anchorage configura This question only applies configuration verification is 	tion consistent with plant documentation? (Note: if the item is one of the 50% for which an anchorage required.)	Not Applicable
 Based on the above ancho potentially adverse seismic 	prage evaluations, is the anchorage free of conditions?	Yes

Seismic Walkdown Checklist	(SWC)	Status: Y N U
Equipment ID No.:	RC-V-0002	
Equipment Class:	(8) Motor-Operated and Solenoid-Operated Valves	
Equipment Description:	PORV BLOCK VALVE	· .
Interaction Effects		
7. Are soft targets free fro	om impact by nearby equipment or structures?	Yes

- 8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and Yes masonry block walls not likely to collapse onto the equipment?
- 9. Do attached lines have adequate flexibility to avoid damage?
- 10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?
 Yes

Other Adverse Conditions

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

<u>Comments</u>

See SQ-T1-RC-V-0002 Rev 000

In-Line Valve

Yes

Seismic Walkdov	vn Checklist (SWC)			Status: Y N U
Equipr	ment ID No.: RC-V-UU	Operated and Solenoid-Or	perated Valves	
Equipment	Description: PORV BL	OCK VALVE		
Evaluated by:	Man S Ehre	Mark S. Etre	Date	10/24/2012
Evaluated by:	Juan Ages	Mark O. Elle		
		Juan A. López		10/9/12
<u>Photos</u>				
	- 11			
100_4080				

Seismic Walkdown Checklist (SWC)

Equipment ID No.: _R	R-P-0001B	
Equipment Class: _(6) Vertical Pumps	
Equipment Description: R	B EMERG COOL RIVER WTR 'B' PUMP	
Project:	TMI SWEL	
Location (Bldg, Elev, Room/Area):	IPH, 308.00 ft, 29 : PUMP ROOM 'B' S	
Manufacturer/Model:		
Instructions for Completing Che	cklist	
This checklist may be used to docu SWEL. The space below each of findings. Additional space is provide	ument the results of the Seismic Walkdown of an item of equipment or the following questions may be used to record the results of judgment ded at the end of this checklist for documenting other comments.	n the s and
<u>Anchorage</u>		
 Is anchorage configuration of SWEL items requiring s 	verification required (i.e., is the item one of the 50% uch verification)?	Yes
2. Is the anchorage free of be	ent, broken, missing or loose hardware?	Yes
• • • • • •		
3. Is the anchorage free of co	prrosion that is more than mild surface oxidation?	Yes
4. Is the anchorage free of vi	sible cracks in the concrete near the anchors?	Yes
5. Is the anchorage configura This question only applies	ation consistent with plant documentation? (Note: if the item is one of the 50% for which an anchorage	Yes
Configuration verification is	s required.)	
 Based on the above anchor potentially adverse seisminities 	orage evaluations, is the anchorage free of conditions?	Yes

		Status: Y N U
Seismic Walkdown Checklist	t (SWC)	
Equipment ID No.:	RR-P-0001B	
Equipment Class:	(6) Vertical Pumps	
Equipment Description:	RB EMERG COOL RIVER WTR 'B' PUMP	
	· · · ·	
		. •
Interaction Effects		
7. Are soft targets free fro	om impact by nearby equipment or structures?	Yes
8. Are overhead equipme	ent, distribution systems, ceiling tiles and lighting, and	Yes
masonry block walls no	ot likely to collapse onto the equipment?	
9. Do attached lines have	e adequate flexibility to avoid damage?	Yes
10. Based on the above se	eismic interaction evaluations, is equipment free of	Yes
potentially adverse sei	smic interaction effects?	
Other Adverse Conditions	nd found no advorse sciemic conditions that could	Voc
adversely affect the sa	afety functions of the equipment?	105
Comments		<u> </u>

See Calculation FBT-625-001 Rev. 000 for similarity.

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The pumps upper restrains are not required for seismic qualification. The restraints were intended for thrust purposes and where removed.

Equipment was verified to be in accordance with Seismic Qualification No. SQ-T1-RR-P-0001B, Rev 001 with the upper restraints removed.

				Status: Y N U
Seismic Walkdow	wn Checklist	(SWC)		
Equip	ment ID No.:	RR-P-0001B		
Equip	ment Class:	(6) Vertical Pumps		
Equipment	Description:	RB EMERG COOL RIVER WTR 'B' PUMP		
Evaluated by:	Man	S Elve Mark S. Etre	Date:	10/24/2012
	Sa	Ber Seth W. Baker		10/24/2012

Photos



100_3686



Seismic Walkdown Checklist (SWC)

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Equipment ID No.:	RR-S-0001B	
Equipment Class:	(0) Other	
Equipment Description:	RB EMERG CLNG RIVER WTR 'B' STRAINER	
Proje	ect: TMI SWEL	
Location (Bldg, Elev, Room/Are	a): IPH, 308.00 ft, 29 : SOUTH BAY ISPH	
Manufacturer/Mod	lel:	
Instructions for Completing C	hecklist	
This checklist may be used to d SWEL. The space below each findings. Additional space is pr	ocument the results of the Seismic Walkdown of an item of equipment on of the following questions may be used to record the results of judgments ovided at the end of this checklist for documenting other comments.	the and
Anchorage		
 Is anchorage configura of SWEL items requirin 	tion verification required (i.e., is the item one of the 50% g such verification)?	Yes
2. Is the anchorage free of	f bent, broken, missing or loose hardware?	Yes
3. Is the anchorage free o	f corrosion that is more than mild surface oxidation?	Yes
4. Is the anchorage free c	of visible cracks in the concrete near the anchors?	Yes
5. Is the anchorage config This question only appl configuration verificatio	juration consistent with plant documentation? (Note: lies if the item is one of the 50% for which an anchorage n is required.)	Yes
 Based on the above an potentially adverse seis 	chorage evaluations, is the anchorage free of smic conditions?	Yes

		Status: Y N U
Seismic Walkdown Checklist	(SWC)	
Equipment ID No.:	RR-S-0001B	
Equipment Class:	(0) Other	
Equipment Description:	RB EMERG CLNG RIVER WTR 'B' STRAINER	
Interaction Effects		
7. Are soft targets free fro	m impact by nearby equipment or structures?	Yes
8. Are overhead equipment	nt, distribution systems, ceiling tiles and lighting, and	Yes
masonry block walls no	t likely to collapse onto the equipment?	
9 Do attached lines have	adequate flexibility to avoid damage?	Vos
5. Do attached lines have		163
10. Based on the above se potentially adverse seis	ismic interaction evaluations, is equipment free of mic interaction effects?	Yes
Other Adverse Conditions		
11. Have you looked for an	d found no adverse seismic conditions that could	Yes
adversely affect the sat	fety functions of the equipment?	

Comments

Equipment was verified to be in accordance with Seismic Qualification No. SQ-T1-RR-S-0001B, Rev 000

Evaluated by:	Man S Ered Mark S. Etre	Date:10/24/2012	10/24/2012	
	SonBen Seth W. Baker		10/24/2012	

Status:	Y	N	U
	100000000000000000000000000000000000000	100000000000000000000000000000000000000	

Seismic Walkdown Checklist (SWC)

Equipment ID No.:	RR-S-0001B
Equipment Class:	(0) Other
Equipment Description:	RB EMERG CLNG RIVER WTR 'B' STRAINER





Seismic Walkdown	Checklist (SWC)
------------------	-----------------

Equipment ID No.: RR-S-1B	
Equipment Class: (20) Instrumentation and Control Panels and Cabinet	S
Equipment Description: RR-S-1B CONTROL PANEL	
Project: TMI SWEL	
Location (Bldg, Elev, Room/Area): IPH, 305.00 ft, 29 : RIVER WATER PUMP ROOM	VI 'B' SOUTH CUBICLE
Manufacturer/Model:	
Instructions for Completing Checklist	
This checklist may be used to document the results of the Seismic Walkdown of an ite SWEL. The space below each of the following questions may be used to record the re findings. Additional space is provided at the end of this checklist for documenting othe	em of equipment on the esults of judgments and er comments.
Anchorage	
 Is anchorage configuration verification required (i.e., is the item one of the 50^o of SWEL items requiring such verification)? 	% No
2. Is the anchorage free of bent, broken, missing or loose hardware?	Yes
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	Yes
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Yes
 Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorag configuration verification is required.) 	Not Applicable je
 Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? 	Yes

		Status: Y N U
Seismic Walkdown Cheo	cklist (SWC)	
Equipment ID	No.: RR-S-1B	
Equipment C	lass: (20) Instrumentation and Control Panels and Cabinets	
Equipment Descrip	tion: RR-S-1B CONTROL PANEL	
Interaction Effects		
7. Are soft targets from	ee from impact by nearby equipment or structures?	Yes
	· ·	
8. Are overhead equ	ipment, distribution systems, ceiling tiles and lighting, and	Yes
masonry block wa	alls not likely to collapse onto the equipment?	
9 Do attached lines	have adequate flexibility to avoid damage?	Yes
3. Do attached intes	Trave adequate nexionity to avoid damage :	
i.		
10. Based on the abo potentially advers	ove seismic interaction evaluations, is equipment free of se seismic interaction effects?	Yes
Other Adverse Conditio	ns	
11. Have you looked		Yes
adversely affect t	he safety functions of the equipment?	

<u>Comments</u>

Equipment was verified to be in accordance with Seismic Qualification No. SQ-T1-RR-S-001B-PNL, Rev 000

.

This has External anchorage

Seismic Walkdow	/n Checklist	(SWC)		Status: Y N U
Equipn	nent ID No.:	RR-S-1B		
Equipment Class: (20) Instrumentation and Control Panels and Cabine			Cabinets	
Equipment I	Description:	RR-S-1B CONTROL PANEL		
	no I	185		
Evaluated by:	Man	Mark S. Etre	Date:	10/24/2012
	Sa	Bur Seth W. Baker		10/24/2012

Photos



100_3701

Seismic Walkdown Checklist (SWC)	Status: Y N U
Equipment ID No.: RR-V-0003A	
Equipment Class: (8) Motor-Operated and Solenoi	id-Operated Valves
Equipment Description: CONTAINMENT ISOL RBEC C	OIL 'A' INLET VLV.
Project: TMI SWEL	
Location (Bldg, Elev, Room/Area): IB, 295.00 ft, 2 : W OF STA	IRWELL
Manufacturer/Model:	
Instructions for Completing Checklist This checklist may be used to document the results of the Seism SWEL. The space below each of the following questions may be findings. Additional space is provided at the end of this checklist	ic Walkdown of an item of equipment on the e used to record the results of judgments and t for documenting other comments.
 Anchorage 1. Is anchorage configuration verification required (i.e., is the of SWEL items requiring such verification)? 	ne item one of the 50% No
2. Is the anchorage free of bent, broken, missing or loose h	nardware? Not Applicable
3. Is the anchorage free of corrosion that is more than mild	surface oxidation? Not Applicable
4. Is the anchorage free of visible cracks in the concrete ne	ear the anchors? Not Applicable
 Is the anchorage configuration consistent with plant doce This question only applies if the item is one of the 50% for configuration verification is required.) 	umentation? (Note: Not Applicable or which an anchorage
6. Based on the above anchorage evaluations, is the anchorage potentially adverse seismic conditions?	orage free of Yes

			12Q0108.70-R-001 Rev. 1 Correspondence No.: RS-12-175
Seiem	ia Malkdown Chaeklist		Status: Y N U
Seism	ic walkdown Checklist	(3WC)	
	Equipment ID No.:	RR-V-0003A	
	Equipment Class:	(8) Motor-Operated and Solenoid-Operated Valve	S
	Equipment Description:	CONTAINMENT ISOL RBEC COIL 'A' INLET VLV	<i>!</i> .
Interac	ction Effects		
7.	Are soft targets free fro	m impact by nearby equipment or structures?	Yes
8.	Are overhead equipme	nt, distribution systems, ceiling tiles and lighting, an	d Yes
	masonry block walls no	t likely to collapse onto the equipment?	
9.	Do attached lines have	adequate flexibility to avoid damage?	Yes
10.	Based on the above se	ismic interaction evaluations, is equipment free of	Yes
	potentially adverse seis	mic interaction effects?	
		·	
Other	Adverse Conditions		
11.	Have you looked for an adversely affect the sa	d found no adverse seismic conditions that could ety functions of the equipment?	Yes
Comm	nents		· · · · · · · · · · · · · · · · · · ·
Ancho	rage check is not applica	ble because equipment is in-line.	
See S	Q-T1-RR-V-0003A, Revi	sion 000	

						Status:	Y	Ν	U
Seismic Walkdow	n Checklist	(SWC)							
Equipm	ent ID No.:	RR-V-0003A	A						
Equipment Class:		(8) Motor-Op	perated and Solenoid-C	perated Valves					
Equipment D	Description:	CONTAINM	ENT ISOL RBEC COIL	'A' INLET VLV.					
Evaluated by:	Man	S Elve	Mark S. Etre	Da	ate:	10/24/2012			
	Sa	n Bu	Seth W. Baker			10/24/2012			

Photos



Status: Y N U Seismic Walkdown Checklist (SWC) Equipment ID No.: RR-V-0005 Equipment Class: (8) Motor-Operated and Solenoid-Operated Valves Equipment Description: RR-V-6 RB COOL COIL DISCH BYPASS Project: TMI SWEL Location (Bldg, Elev, Room/Area): IB, 295.00 ft, 3 : W OF STAIRWELL Manufacturer/Model: Instructions for Completing Checklist This checklist may be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments. Anchorage 1. Is anchorage configuration verification required (i.e., is the item one of the 50% No of SWEL items requiring such verification)? 2. Is the anchorage free of bent, broken, missing or loose hardware? Not Applicable 3. Is the anchorage free of corrosion that is more than mild surface oxidation? Not Applicable 4. Is the anchorage free of visible cracks in the concrete near the anchors? Not Applicable 5. Is the anchorage configuration consistent with plant documentation? (Note: Not Applicable This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) 6. Based on the above anchorage evaluations, is the anchorage free of Yes potentially adverse seismic conditions?

Seismic Walkdown Checklist (SWC)	Status: Y N U
Equipment ID No.: RR-V-0005	
Equipment Class: (8) Motor-Operated and Solenoid-Operated Valves	
Equipment Description: RR-V-6 RB COOL COIL DISCH BYPASS	
Interaction Effects	
7. Are soft targets free from impact by nearby equipment or structures?	Yes
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	Yes
9. Do attached lines have adequate flexibility to avoid damage?	Yes
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	Yes
Other Adverse Conditions	101
11. Have you looked for and found no adverse seismic conditions that could adversely affect the safety functions of the equipment?	Yes

Comments

Equipment was verified to be in accordance with Seismic Qualification No. SQ-T1-RR-V-0005, Rev 001

In-Line component

Seismic Walkdo	wn Checklist	(SWC)		Status: Y N U
Equip	oment ID No.:	RR-V-0005		
Equipment Class:		(8) Motor-Operated and Solenoid-Operated	l Valves	
Equipmen	t Description:	RR-V-6 RB COOL COIL DISCH BYPASS		
Evaluated by:	Man	S Elver Mark S. Etre	Date:	10/24/2012
	So	Ber Seth W. Baker		10/24/2012

Photos



Seismic	Walkdown Checklist (SWC)	Status: Y N U
Colonno			
	Equipment ID No.:	RR-V-0006	
E	quipment Description:	RB EMERG. COOL COIL BACK PRESSURE REGULATO)R
	Projec		
Location	(Bldg, Elev, Room/Area	a): IB, 295.00 ft, 3 : W OF STAIRWELL	
	Manufacturer/Mode	əl:	
Instruct This che SWEL. findings.	ions for Completing C ecklist may be used to do The space below each o Additional space is pro	hecklist ocument the results of the Seismic Walkdown of an item of of the following questions may be used to record the results ovided at the end of this checklist for documenting other cor	equipment on the s of judgments and mments.
Anchora 1.	age Is anchorage configurati of SWEL items requiring	on verification required (i.e., is the item one of the 50% such verification)?	No
2.	Is the anchorage free of	bent, broken, missing or loose hardware?	Not Applicable
3.	Is the anchorage free of	corrosion that is more than mild surface oxidation?	Not Applicable
4.	Is the anchorage free of	visible cracks in the concrete near the anchors?	Not Applicable
5.	Is the anchorage config This question only appli configuration verificatior	uration consistent with plant documentation? (Note: es if the item is one of the 50% for which an anchorage n is required.)	Not Applicable
6.	Based on the above and potentially adverse seis	chorage evaluations, is the anchorage free of mic conditions?	Yes

	Status: Y N U					
Seismic Walkdown Checklist (SWC)						
	Equipment ID No.:	RR-V-0006	11			
	Equipment Class:	(7) Fluid-Operated Valves	N.			
	Equipment Description:	RB EMERG. COOL COIL BACK PRESSURE REGULATOR	2			
Interac	ction Effects					
7.	Are soft targets free fro	Yes				
8.	Are overhead equipme	nt, distribution systems, ceiling tiles and lighting, and	Yes			
	masonry block walls no	t likely to collapse onto the equipment?				
9.	Do attached lines have	adequate flexibility to avoid damage?	Yes			
10.	Based on the above se	ismic interaction evaluations, is equipment free of	Yes			
	potentially adverse seis	mic interaction effects?				
Other Adverse Conditions						
11.	Have you looked for an	d found no adverse seismic conditions that could	Yes			
	auversely affect the sal	ety functions of the equipment?				

Comments

Equipment was verified to be in accordance with Seismic Qualification No. SQ-T1-RR-V-0006, Rev 003

In-Line Component

IR 1400293 - RR-V-6 VALVE HANDWHEEL AP	PEARS TO BE SLIGHTLY BENT is tracking this.
----------------------------------------	---------------------------------------------

				Status: Y N U
Seismic Walkdov	wn Checklist	(SWC)		
Equipment ID No.:		RR-V-0006		
Equipment Class:		(7) Fluid-Operated Valves		
Equipment	Description:	RB EMERG. COOL COIL BACK PRES	SURE REGULA	TOR
Evaluated by:	Man	S Elized Mark S. Etre	Date:	10/24/2012
	Sa	Bur Seth W. Baker		10/24/2012

Photos


Seismic Walkdown Checklist (SWC)	NU
Equipment ID No : SE2-DBT	
Equipment Class: (18) Instruments on Backs	
Equipment Description: SE D 2 ELOW TRANSMITTER	
Location (Bidg, Elev, Room/Alea). FB, 201.00 It, 30	
Instructions for Completing Checklist	
This checklist may be used to document the results of the Seismic Walkdown of an item of equipment on th SWEL. The space below each of the following questions may be used to record the results of judgments ar findings. Additional space is provided at the end of this checklist for documenting other comments.	e nd
Anchorage	
 Is anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? 	Yes
2. Is the anchorage free of bent, broken, missing or loose hardware?	Yes
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	Yes
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Yes
 Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) 	Yes
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	Yes

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Saismic Walkdown Chacklist (SMCI		Status: Y N U
Equipment ID No :			
Equipment ID No	(19) Instrumente en Backs		· · · · · · · · · · · · · · · · · · ·
Equipment Class:			
	SF-P-2 FLOW TRANSMITTER		
7. Are soft targets free from	n impact by nearby equipment or structures?		Yes
 Are overhead equipmen masonry block walls not 	t, distribution systems, ceiling tiles and lighting, a likely to collapse onto the equipment?	and	Yes
9. Do attached lines have a	adequate flexibility to avoid damage?		Yes
10. Based on the above seis potentially adverse seisr	smic interaction evaluations, is equipment free of mic interaction effects?	.	Yes
Other Adverse Conditions			u
11. Have you looked for and adversely affect the safe	d found no adverse seismic conditions that could ety functions of the equipment?		Yes
Comments No SQUG Walk down Report ex same as those documented and	rists for this component. However, this installation evaluated under SQ-T1-SF9DPT2 Rev 000	n ancho	rage and bracket is the
Evaluated by:	S End Mark S. Etre	Date:	10/24/2012
Set	Seth W. Baker		10/24/2012
			_

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Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.:	SF2-DPT	
Equipment Class:	(18) Instruments on Racks	
Equipment Description:	SF-P-2 FLOW TRANSMITTER	

Photos



Seismic Walkdown Checklist (SWC)

,

Equipment ID No.:	SF9-DPT-1	
Equipment Class:	(18) Instruments on Racks	
Equipment Description:	B SF POOL COOLING WATER FLOW XMTR	
Proj Location (Bldg, Elev, Room/Are	ect: TMI SWEL FB, 281.00 ft, 34 : AB 281 NEUT TANK ROOM SW CORNER OF ea): ON S WALL 5 ABOVE FLOOR	ROOM
Manufacturer/Mo	del:	
Instructions for Completing	Checklist	
This checklist may be used to o SWEL. The space below each findings. Additional space is p	document the results of the Seismic Walkdown of an item of equipment of the following questions may be used to record the results of judgmer rovided at the end of this checklist for documenting other comments.	on the nts and
Anchorage 1. Is anchorage configura of SWEL items requirir	ation verification required (i.e., is the item one of the 50% ng such verification)?	Yes
2. Is the anchorage free o	of bent, broken, missing or loose hardware?	Yes
3. Is the anchorage free of	of corrosion that is more than mild surface oxidation?	Yes
4. Is the anchorage free of	of visible cracks in the concrete near the anchors?	Yes
5. Is the anchorage confi This question only app configuration verificatio	guration consistent with plant documentation? (Note: plies if the item is one of the 50% for which an anchorage on is required.)	Yes
 Based on the above an optentially adverse sei 	nchorage evaluations, is the anchorage free of	Yes

Seismic Walkdown Checklist (SWC)	Status: Y N U
Equipment ID No.: SF9-DPT-1	
Equipment Class: (18) Instruments on Racks	
Equipment Description: B SF POOL COOLING WATER FLOW XMTR	- 10,0000
Interaction Effects	
7. Are soft targets free from impact by nearby equipment or structures?	Yes
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	Yes
9. Do attached lines have adequate flexibility to avoid damage?	Yes
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	Yes
Other Adverse Conditions	
11. Have you looked for and found no adverse seismic conditions that could adversely affect the safety functions of the equipment?	Yes

<u>Comments</u>

Equipment was verified to be in accordance with Seismic Qualification No. SQ-T1-SF9DPT1, Rev 000

Evaluated by:	Man S Etwo	Mark S. Etre	Date:	10/24/2012
	SonBu	Seth W. Baker		10/24/2012

		Status: Y N U
Seismic Walkdown Checklist	(SWC)	
Equipment ID No.:	SF9-DPT-1	
Equipment Class:	(18) Instruments on Racks	
Equipment Description:	B SF POOL COOLING WATER FLOW XMTR	

Photos



S	status: YNU
Seismic Walkdown Checklist (SWC)	
Equipment ID No.: SF9-DPT-2	
Equipment Class: (18) Instruments on Racks	
Equipment Description: A SF POOL COOLING WATER FLOW XMTR	
Project: TMI SWEL	
Location (Bldg, Elev, Room/Area): FB, 281.00 ft, 34	
Manufacturer/Model:	
Instructions for Completing Checklist This checklist may be used to document the results of the Seismic Walkdown of an item of equ SWEL. The space below each of the following questions may be used to record the results of findings. Additional space is provided at the end of this checklist for documenting other comme	ipment on the judgments and ents
Anchorage	
 Is anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? 	Yes
2. Is the anchorage free of bent, broken, missing or loose hardware?	Yes
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	Yes
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Yes
 Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) 	Yes
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	Yes

,

	Status: Y N U
Seismic Walkdown Checklist (SWC)	
Equipment ID No.: SF9-DPT-2	·
Equipment Class: (18) Instruments on Racks	
Equipment Description: A SF POOL COOLING WATER FLOW XMTR	
Interaction Effects	
7. Are soft targets free from impact by nearby equipment or structures?	Yes
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and	Yes
masonry block walls not likely to collapse onto the equipment?	
9. Do attached lines have adequate flexibility to avoid damage?	Yes
10. Based on the above seismic interaction evaluations, is equipment free of	Yes
potentially adverse seismic interaction effects?	
Other Adverse Conditions	· · · · · · · · · · · · · · · · · · ·
11. Have you looked for and found no adverse seismic conditions that could	Yes
adversely affect the safety functions of the equipment?	
<u>Comments</u>	
Equipment was verified to be in accordance with Seismic Qualification No. SQ-T1-SF9DP	PT2, Rev 000
Manf & Etic Mark & Etic	10/24/2012
Evaluated by Date: Date:	10/24/2012
Sun Seth W. Baker	10/24/2012

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.:	SF9-DPT-2
Equipment Class:	(18) Instruments on Racks
Equipment Description:	A SF POOL COOLING WATER FLOW XMTR

Photos



Seismic Walkdown Checklist (SWC)

Equipment ID No.: SI	F-C-1B	
Equipment Class: (2	1) Tanks and Heat Exchangers	
Equipment Description: B	SPENT FUEL COOLER	
Project:	TMI SWEL	
Location (Bldg, Elev, Room/Area):	FB, 305.00 ft, 33 : 305' FUEL BLDG IN SF COOLER ROOM	
Manufacturer/Model:		
Instructions for Completing Che	cklist	
This checklist may be used to docu SWEL. The space below each of findings. Additional space is provide	ument the results of the Seismic Walkdown of an item of equipment o the following questions may be used to record the results of judgment ded at the end of this checklist for documenting other comments.	n the s and
Anchorage		
 Is anchorage configuration of SWEL items requiring s 	verification required (i.e., is the item one of the 50% uch verification)?	Yes
2. Is the anchorage free of be	ent, broken, missing or loose hardware?	Yes
3. Is the anchorage free of co	prrosion that is more than mild surface oxidation?	Yes
4. Is the anchorage free of vi	sible cracks in the concrete near the anchors?	Yes
5. Is the anchorage configura This question only applies configuration verification is	ation consistent with plant documentation? (Note: if the item is one of the 50% for which an anchorage s required.)	Yes
 Based on the above anchor potentially adverse seisminity 	prage evaluations, is the anchorage free of c conditions?	Yes

 inne iolaria conoraling clatteri erit i
12Q0108.70-R-001 Rev. 1
Correspondence No.: RS-12-175

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Seismic Walkdown Checklist	t (SWC)	Status: Y N U
Equipment ID No.:	SF-C-1B	
Equipment Class:	(21) Tanks and Heat Exchangers	
Equipment Description:	B SPENT FUEL COOLER	
Interaction Effects 7. Are soft targets free fro	om impact by nearby equipment or structures?	Yes
8. Are overhead equipme masonry block walls no	ent, distribution systems, ceiling tiles and lighting, and ot likely to collapse onto the equipment?	Yes
9. Do attached lines have	e adequate flexibility to avoid damage?	Yes
10. Based on the above se potentially adverse sei	eismic interaction evaluations, is equipment free of smic interaction effects?	Yes
Other Adverse Conditions		
11. Have you looked for an adversely affect the sa	nd found no adverse seismic conditions that could afety functions of the equipment?	Yes

<u>Comments</u>

Equipment was verified to be in accordance with Seismic Qualification No. SQ-T1-SF-C-0001B, Rev 000

Linear indication (cracks) on floor near column base. Judged not to be a potential seismic concern.

12Q0108.70-R-001 Rev. 1 Correspondence No.: RS-12-175

Seismic Walkdo	wn Checklist	(SWC)		Status: Y N U
Colonno manao		(0.1.0)		
Equip	ment ID No.:	SF-C-1B		
Equi	pment Class:	(21) Tanks and Heat Exchangers		
Equipment	t Description:	B SPENT FUEL COOLER		
Evaluated by:	Man	S The Mark S. Etre	Date:	10/24/2012
	So	Ber Seth W. Baker		10/24/2012

Photos



Seismic Walkdown Checklist (SWC)

Equipment ID No.: SI	F-P-1B	
Equipment Class: (5) Horizontal Pumps	
Equipment Description: "B	" SPENT FUEL COOLING PUMP	
Project:	TMI SWEL	
Location (Bldg, Elev, Room/Area):	FB, 305.00 ft, 33 : 305' FUEL BLDG IN SF COOLER ROOM	
Manufacturer/Model:		
Instructions for Completing Che	cklist	
This checklist may be used to docu SWEL. The space below each of t findings. Additional space is provid	ment the results of the Seismic Walkdown of an item of equipn he following questions may be used to record the results of jud ded at the end of this checklist for documenting other comments	nent on the gments and s.
Anchorage 1. Is anchorage configuration of SWEL items requiring st	verification required (i.e., is the item one of the 50% uch verification)?	Yes
2. Is the anchorage free of be	ent, broken, missing or loose hardware?	Yes
3. Is the anchorage free of co	prrosion that is more than mild surface oxidation?	Yes
4. Is the anchorage free of vi	sible cracks in the concrete near the anchors?	Yes
 Is the anchorage configura This question only applies configuration verification is 	ation consistent with plant documentation? (Note: if the item is one of the 50% for which an anchorage required.)	Yes
 Based on the above anchor potentially adverse seismic 	prage evaluations, is the anchorage free of c conditions?	Yes

Seismi	ic Walkdown Checklist	(SWC)	Status: Y N U
	Equipment ID No.:	SF-P-1B	
	Equipment Class:	(5) Horizontal Pumps	
	Equipment Description:	"B" SPENT FUEL COOLING PUMP	
<u>Interac</u>	ction Effects		;
7.	Are soft targets free fro	m impact by nearby equipment or structures?	Yes
8.	Are overhead equipme masonry block walls no	nt, distribution systems, ceiling tiles and lighting, and t likely to collapse onto the equipment?	Yes
9.	Do attached lines have	adequate flexibility to avoid damage?	Yes
10.	Based on the above se potentially adverse seis	ismic interaction evaluations, is equipment free of mic interaction effects?	Yes
Other .	Adverse Conditions		
	Have you looked for ar adversely affect the sa	d found no adverse seismic conditions that could fety functions of the equipment?	Yes

Comments

Equipment was verified to be in accordance with Seismic Qualification No. SQ-T1-SF-P-0001B, Rev 001

Evaluated by:	Man S Ever Mark S. Etre	Date:	10/24/2012	
	Sun Bur Seth W. Baker		10/24/2012	

Seismic Walkdown Checklist	(SWC)	Status: Y N U
Equipment ID No.:	SF-P-1B	
Equipment Class:	(5) Horizontal Pumps	
Equipment Description:	"B" SPENT FUEL COOLING PUMP	

Photos



Status:	Y	N	U

Seismic Walkdown Checklist (SWC)	
Equipment ID No.: SF-V-14	
Equipment Class: (7) Fluid-Operated Valves	
Equipment Description: SF-P1B DISCH ISOL VLV TO B SF POOL	
Project: TMI SWEL	
Location (Bldg, Elev, Room/Area): FB, 305.00 ft, 33 : SF COOLING PUMP ROOM ABOVE	THE B COOLER
Manufacturer/Model:	
Instructions for Completing Checklist	automont on the
SWEL. The space below each of the following questions may be used to record the results findings. Additional space is provided at the end of this checklist for documenting other com	of judgments and ments.
Anchorage	
 Is anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? 	No
2. Is the anchorage free of bent, broken, missing or loose hardware?	Not Applicable
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	Not Applicable
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Not Applicable
 Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) 	Not Applicable
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	Yes

			Status: Y N U
Seismi	c Walkdown Checklist	(SWC)	
	Equipment ID No.:	SF-V-14	
	Equipment Class:	(7) Fluid-Operated Valves	
I	Equipment Description:	SF-P1B DISCH ISOL VLV TO B SF POOL	
Interac	tion Effects		
7.	Are soft targets free fro	m impact by nearby equipment or structures?	Yes
· 8	Are overhead equipme	at distribution systems, ceiling tiles and lighting, and	Ves
0.	masonry block walls no	t likely to collapse onto the equipment?	103
9.	Do attached lines have	adequate flexibility to avoid damage?	Yes
			X
10.	Based on the above se	ismic interaction evaluations, is equipment free of mic interaction effects?	Yes
	,		
Other	Advarse Conditions		
<u>Other /</u> 11.	Have you looked for an	d found no adverse seismic conditions that could	Yes
	adversely affect the sa	ety functions of the equipment?	

<u>Comments</u>

Equipment was verified to be in accordance with Seismic Qualification No. SQ-T1-SF-V-0014, Rev 000

In-line equipment.

Seismic Walkdo	own Checklist	(SWC)		Status: Y N U
Equip	oment ID No.:	SF-V-14		
Equi	ipment Class:	(7) Fluid-Operated Valves		
Equipmen	t Description:	SF-P1B DISCH ISOL VLV TO B SF POOL		
Evaluated by:	Man	S The Mark S. Etre	Date:	10/24/2012
	So	Ben Seth W. Baker		10/24/2012

Photos



Seismic Walkdown Checklist (SWC)	itatus: YNU
Equipment ID No.: SF-V-15	
Equipment Class: (7) Fluid-Operated Valves	
Equipment Description: SF-P1B DISCH ISOL VLV TO A SF POOL	
Project: TMI SWEL	
Location (Bldg, Elev, Room/Area): FB, 305.00 ft, 33 : SF COOLING PUMP ROOM ABOVE T	HE B COOLER
Manufacturer/Model:	
Instructions for Completing Checklist This checklist may be used to document the results of the Seismic Walkdown of an item of equ SWEL. The space below each of the following questions may be used to record the results of j findings. Additional space is provided at the end of this checklist for documenting other comme	ipment on the judgments and ents.
 Anchorage 1. Is anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? 	No
2. Is the anchorage free of bent, broken, missing or loose hardware?	Not Applicable
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	Not Applicable
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Not Applicable
 Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) 	Not Applicable
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	Yes

.

Seismic Walkdown Checklis	st (SWC)	Status: Y N U
Equipment ID No.	SF-V-15	
Equipment Class	(7) Fluid-Operated Valves	
Equipment Description	SF-P1B DISCH ISOL VLV TO A SF POOL	
Interaction Effects		
7. Are soft targets free f	rom impact by nearby equipment or structures?	Yes
	·	
8. Are overhead equipm masonry block walls r	ent, distribution systems, ceiling tiles and lighting, and not likely to collapse onto the equipment?	Yes
9. Do attached lines hav	ve adequate flexibility to avoid damage?	Yes
10. Based on the above a potentially adverse se	seismic interaction evaluations, is equipment free of eismic interaction effects?	Yes
Other Adverse Conditions		
11. Have you looked for a adversely affect the s	and found no adverse seismic conditions that could afety functions of the equipment?	Yes

<u>Comments</u>

_

In-line equipment.

See SQ-T1-SF-V-0015, Revision 000

Seismic Walkdo	wn Checklist	(SWC)		Status: Y N U
Equip	ment ID No.:	SF-V-15		
Equi	pment Class:	(7) Fluid-Operated Valves		
Equipment	t Description:	SF-P1B DISCH ISOL VLV TO A SF POOL		
Evaluated by:	Man	S Elver Mark S. Etre	Date:	10/24/2012
	So	Ber Seth W. Baker		10/24/2012

Photos



Seismic Walkdown Checklist (SWC)

Equipment ID No.: SF-V-16
Equipment Class: (7) Fluid-Operated Valves
Equipment Description: SF-P1B DISCH ISOL VALVE TO FTC
Project: TMI SWEL
Location (Bldg, Elev, Room/Area): FB, 305.00 ft, 33 : SF COOLING PUMP ROOM ABOVE THE B COOLER
Manufacturer/Model:
Instructions for Completing Checklist
This checklist may be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.
Anchorage
 Is anchorage configuration verification required (i.e., is the item one of the 50% No of SWEL items requiring such verification)?
2. Is the anchorage free of bent, broken, missing or loose hardware? Not Applicable
3. Is the anchorage free of corrosion that is more than mild surface oxidation? Not Applicable
4. Is the anchorage free of visible cracks in the concrete near the anchors? Not Applicable
 Is the anchorage configuration consistent with plant documentation? (Note: Not Applicable This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)
6. Based on the above anchorage evaluations, is the anchorage free of Yes potentially adverse seismic conditions?

			12Q0108.70-R-001 Rev. 1 Correspondence No.: RS-12-175
		· · · · · ·	Status: Y N U
Seism	ic Walkdown Checklist	(SWC)	
	Equipment ID No.:	SF-V-16	
	Equipment Class:	(7) Fluid-Operated Valves	
	Equipment Description:	SF-P1B DISCH ISOL VALVE TO FTC	
Intera	ction Effects	•	
7.	Are soft targets free fro	m impact by nearby equipment or structures?	Yes
		· · ·	
8.	Are overhead equipme	nt, distribution systems, ceiling tiles and lighting, ar	nd Yes
	masonry block walls no	t likely to collapse onto the equipment?	
9.	Do attached lines have	adequate flexibility to avoid damage?	Yes
10.	Based on the above se	ismic interaction evaluations, is equipment free of	Yes
	potentially adverse set	smic interaction effects?	
			·
<u> </u>		· · · ·	
Other	Adverse Conditions	d found no advorce seismic conditions that could	Vac
ET.	adversely affect the sa	fety functions of the equipment?	Tes

Comments

Equipment was verified to be in accordance with Seismic Qualification No. SQ-T1-SF-V-0016, Rev 000

In-line equipment.

				Status: Y N U
Seismic Walkdov	wn Checklist	(SWC)		
Equip	ment ID No.:	SF-V-16		
Equip	oment Class:	(7) Fluid-Operated Valves		
Equipment	Description:	SF-P1B DISCH ISOL VALVE TO FTC		
Evaluated by:	Man	S The Mark S. Etre	Date:	10/24/2012
	Sa	Bur Seth W. Baker		10/24/2012

Photos



Seismic Walkdown Checklist (SWC)

Equipment ID No.:	SF-V-37	
Equipment Class:	(0) Other	
Equipment Description:	SF-P2 SUCT VLV FROM FUEL POOL A & B	
Proje	ect: TMI SWEL FB, 281.00 ft, 30 : FUEL BLDG 281 N OF ELEVATOR (ea): NORTH OF SF-P-2	ON WEST WALL
Manufacturer/Mod	del:	
Instructions for Completing (Checklist	1. 1 . 1 . 1 .
This checklist may be used to c SWEL. The space below each findings. Additional space is pr	document the results of the Seismic Walkdown of an item of e of the following questions may be used to record the results of rovided at the end of this checklist for documenting other com	quipment on the of judgments and ments.
<u>Anchorage</u>		
 Is anchorage configura of SWEL items requirin 	ation verification required (i.e., is the item one of the 50% ng such verification)?	No
2. Is the anchorage free c	of bent, broken, missing or loose hardware?	Not Applicable
3. Is the anchorage free o	of corrosion that is more than mild surface oxidation?	Not Applicable
4. Is the anchorage free of	of visible cracks in the concrete near the anchors?	Not Applicable
5. Is the anchorage config This question only app configuration verificatio	guration consistent with plant documentation? (Note: lies if the item is one of the 50% for which an anchorage on is required.)	Not Applicable
Based on the above ar potentially adverse seis	nchorage evaluations, is the anchorage free of smic conditions?	Yes

Seismi	ic Walkdown Checklist	SWC)	· · ·	Status: Y	N
	Equipment ID No.:	SF-V-37			
	Equipment Class:	(0) Other			
	Equipment Description:	SF-P2 SUCT VLV FROM FUEL PO	OL A & B		
Interac	ction Effects	<u> </u>			
7.	Are soft targets free fro	n impact by nearby equipment or stru	uctures?		Ye
8.	Are overhead equipme	t, distribution systems, ceiling tiles a	nd lighting, and		Ye
	masonry block walls no	likely to collapse onto the equipmen	t?		
9.	Do attached lines have	adequate flexibility to avoid damage?	>		Ye
				·	
10.	Based on the above se potentially adverse seis	smic interaction evaluations, is equip nic interaction effects?	ment free of		Y€
				•	
Other	Adverse Conditions	·			
11.	Have you looked for ar adversely affect the sa	I found no adverse seismic condition ety functions of the equipment?	is that could		Υe
Comm Drawir	nents ng Number 2466-26-M R	v. 0			
Evalua	Man	S Ever Mark S. Etre	Date:	10/24/2012	
	So	TBen Sath W Bakar		40/04/0040	

1

		Status: Y N U
Seismic Walkdown Checklist	(SWC)	
Equipment ID No.:	SF-V-37	
Equipment Class:	(0) Other	
Equipment Description:	SF-P2 SUCT VLV FROM FUEL POOL A & B	

Photos



Seismic Walkdown Checklist (SWC)

,

Equipment ID No.: SF-V-38	
Equipment Class: (0) Other	
Equipment Description: A SF POOL DRAIN ISOL VALVE	
Project: TMI SWEL	
Location (Bldg, Elev, Room/Area): FB, 348.00 ft, 32 : SF POOL 3RD FLOOR NOP	RTH END WEST OF POOL
Manufacturer/Model:	
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 o	item of equipment on the e results of judgments and ther comments.
Anchorage	
 Is anchorage configuration verification required (i.e., is the item one of the 5 of SWEL items requiring such verification)? 	50% No
2. Is the anchorage free of bent, broken, missing or loose hardware?	Not Applicable
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	Not Applicable
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Not Applicable
 Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchor configuration verification is required.) 	Not Applicable age
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	Yes

				Status: Y N U
S	eismi	c Walkdown Checklist	(SWC)	
		Equipment ID No.:	SF-V-38	
		Equipment Class:	(0) Other	·
		Equipment Description:	A SF POOL DRAIN ISOL VALVE	
<u> </u>	nterac	tion Effects		
	7.	Are soft targets free fro	m impact by nearby equipment or structures?	Yes
	8.	Are overhead equipme	nt, distribution systems, ceiling tiles and lighting, and	Yes
		masonry block walls no	t likely to collapse onto the equipment?	
	9	Do attached lines have	adequate flexibility to avoid damage?	Yes
	0.			
	10	Deced on the choice of	is missing any structure is a quinment free of	Vaa
	10.	potentially adverse seis	smic interaction effects?	Tes
2)ther /	Adverse Conditions		
	11.	Have you looked for an	d found no adverse seismic conditions that could	Yes
		adversely affect the sa	ety functions of the equipment?	

<u>Comments</u>

Only the operator from the fuel deck is visible. The body is below the floor and would have required a significant amount of Scaffolding to access. Drawing 2466-26-M Rev. 0

Seismic Walkdown Checklist (SWC) Equipment ID No: Equipment Class: (0) Other Equipment Description: A SF POOL DRAIN ISOL VALVE Evaluated by: Mark S. Etre Data Mark S. Etre Comparison Seth W. Baker Photos 109_3280	Status: Y N U
Seismic Walkdown Checklist (SWC) Equipment ID No: SF-V-38 Equipment Class: (0) Other Equipment Description: A SF POOL DRAIN ISOL VALVE Evaluated by: Mark S. Etre Data Seth W. Baker Photos Photos 100_3280	Status: Y N U
Equipment ID No: SF-V-38 Equipment Class: (0) Other Equipment Description: A SF POOL DRAIN ISOL VALVE Evaluated by: Mark S. Etre Dat Mark S. Etre Dat Mark S. Etre Dat Seth W. Baker	
Equipment ID No.: SF-V-38 Equipment Class: (0) Other Equipment Description: A SF POOL DRAIN ISOL VALVE Weluated by: Mark S. Etre Date Mark S. Etre Date Mark S. Etre Date Motos Photos 00_3280	
Equipment Class: (0) Other Equipment Description: A SF POOL DRAIN ISOL VALVE valuated by: Mark S. Etre Dar Mark S. Etre Dar Mark S. Etre Dar Seth W. Baker hotos 00_3280	
valuated by: Mark S. Etre Dar Mark S. Etre Dar 00_3280	
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00_3280	
00_3280	

Seismic Walkdown Checklist (SWC)

Equipment ID No.: SF-V-4
Equipment Class: (7) Fluid-Operated Valves
Equipment Description: SF-P1B SUCT ISOL VLV FROM B SF POOL
Project: TMI SWEL FB, 305.00 ft, 33 : SPENT FUEL COOLING PUMP ROOM ON WEST Location (Bldg, Elev, Room/Area): WALL AT THE B PUMP
Manufacturer/Model:
Instructions for Completing Checklist
This checklist may be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.
Anchorage
 Is anchorage configuration verification required (i.e., is the item one of the 50% No of SWEL items requiring such verification)?
2. Is the anchorage free of bent, broken, missing or loose hardware? Not Applicable
3. Is the anchorage free of corrosion that is more than mild surface oxidation? Not Applicable
4. Is the anchorage free of visible cracks in the concrete near the anchors? Not Applicable
 Is the anchorage configuration consistent with plant documentation? (Note: Not Applicable This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)
 Based on the above anchorage evaluations, is the anchorage free of Yes potentially adverse seismic conditions?

Seiemie W/	lkdown Chooklint		Status:	N	U
Seismic wa	aikdown Checklist	(5WC)			
	Equipment ID No.:	SF-V-4			
	Equipment Class:	(7) Fluid-Operated Valves			
Equip	ment Description:	SF-P1B SUCT ISOL VLV FROM B SF POOL			
Interaction	Effects				
7. Are	soft targets free fro	m impact by nearby equipment or structures?		Y	es
8 Are	overhead equipme	at distribution systems, ceiling tiles and lighting, and		Y	es
mas	sonry block walls no	t likely to collapse onto the equipment?		-	••
		· · ·			
9. Do	attached lines have	adequate flexibility to avoid damage?		Y	es
10. Bas	ed on the above se	ismic interaction evaluations, is equipment free of		Y	es
pote	entially adverse seis	mic interaction effects?			
	·				
Other Adve	erse Conditions				
11. Hav	ve you looked for ar	d found no adverse seismic conditions that could		Y	es
adv	ersely affect the sa	ety functions of the equipment?			
Comments					

Equipment was verified to be in accordance with Seismic Qualification No. SQ-T1-SF-V-0004, Rev 000

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In-line equipment.

Localized linear indication (cracks) on floor below valve. Judged not to be a potential seismic concern.

n Checklist	(SWC)		Status: Y N U
ent ID No.:	SF-V-4		
nent Class:	(7) Fluid-Operated Valves		
Description:	SF-P1B SUCT ISOL VLV FROM B SF POOL		
Man/	Mark S. Etre	Date:	10/24/2012
	n Checklist nent ID No.: nent Class: Description: Man	n Checklist (SWC) nent ID No.: SF-V-4 nent Class: (7) Fluid-Operated Valves Description: SF-P1B SUCT ISOL VLV FROM B SF POOL Mark S. Etre Mark S. Etre Mark S. Etre	n Checklist (SWC) hent ID No.: SF-V-4 hent Class: (7) Fluid-Operated Valves Description: SF-P1B SUCT ISOL VLV FROM B SF POOL Mark S. Etre Date: Mark S. Etre Date:

Photos



Seismic Walkdown Checklist (SWC)

Equipment ID No.: SF-V-48						
Equipment Class: (0) Other						
Equipment Description: A SF POOL SIPHON BREAKER ISOL VALVE						
Project: TMI SWEL						
Location (Bldg, Elev, Room/Area): FB, 348.00 ft, 32 : SF POOL 3RD FLOOR NORTH END	WEST OF POOL					
Manufacturer/Model:						
Instructions for Completing Checklist						
This checklist may be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.						
Anchorage						
 Is anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? 	No					
2. Is the anchorage free of bent, broken, missing or loose hardware?	Not Applicable					
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	Not Applicable					
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Not Applicable					
 Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) 	Not Applicable					
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	Yes					

Seiem	Status: Y N U			
Seism	ic walkdown Checklist	(SWC)		
	Equipment ID No.:	SF-V-48		
	Equipment Class:	(0) Other		
	Equipment Description:	A SF POOL SIPHON BREAKER ISOL VALVE		
Intera	ction Effects	· · · · · · · · · · · · · · · · · · ·		
7.	Are soft targets free fro	m impact by nearby equipment or structures?	Yes	
8.	Are overhead equipme	nt. distribution systems. ceiling tiles and lighting, and	Yes	
	masonry block walls no	Ikely to collapse onto the equipment?		
9.	Do attached lines have	adequate flexibility to avoid damage?	Yes	
10.	Based on the above seismic interaction evaluations, is equipment free of			
	potentially adverse seis	smic interaction effects?		
Other Adverse Conditions				
11.	Have you looked for an	nd found no adverse seismic conditions that could	Yes	
	adversely affect the sa	rety functions of the equipment?		

<u>Comments</u>

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In-line equipment.

See drawing 2471-26-M Rev. 0

Seismic Walkdo	wn Checklist	(SWC)		Status: Y N U
Celsinic Walkuo		(6110)		
Equipment ID No.:		SF-V-48		
Equipment Class:		(0) Other		
Equipment	Description:	A SF POOL SIPHON BREAKER ISOL VALVE		
Evaluated by:	Man	S The Mark S. Etre	Date:	10/24/2012
	So	Ber Seth W. Baker		10/24/2012

Photos



100_3289
Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: SF-V-5	
Equipment Class: (7) Fluid-Operated Valves	
Equipment Description: SF-P1B SUCT ISOL VLV FROM A SF POOL	
Project: TMI SWEL	
FB, 305.00 ft, 33 : SPENT FUEL COOLING PUMP ROOM ON WEST Location (Bldg, Elev, Room/Area):	_
Manufacturer/Model:	
Instructions for Completing Checklist	
This checklist may be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.	
Anchorage	
 Is anchorage configuration verification required (i.e., is the item one of the 50% No of SWEL items requiring such verification)? 	,
2. Is the anchorage free of bent, broken, missing or loose hardware? Not Applicable	;
3. Is the anchorage free of corrosion that is more than mild surface oxidation? Not Applicable	÷
4. Is the anchorage free of visible cracks in the concrete near the anchors? Not Applicable	÷
 Is the anchorage configuration consistent with plant documentation? (Note: Not Applicable This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) 	÷
 Based on the above anchorage evaluations, is the anchorage free of Yes potentially adverse seismic conditions? 	3

 mile iolaria conoraling station sint i
12Q0108.70-R-001 Rev. 1
Correspondence No.: RS-12-175

	Status: Y N U
Seismic Walkdown Checklist (SWC)	
Equipment ID No.: SF-V-5	
Equipment Class: (7) Fluid-Operated Valves	
Equipment Description: SF-P1B SUCT ISOL VLV FROM A SF POOL	
Interaction Effects	
7. Are soft targets free from impact by nearby equipment or structures?	Yes
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and	Yes
masonry block walls not likely to collapse onto the equipment?	
9. Do attached lines have adequate flexibility to avoid damage?	Yes
10. Based on the above seismic interaction evaluations, is equipment free of	Yes
potentially adverse seismic interaction effects?	
· · ·	
Other Adverse Conditions	
11. Have you looked for and found no adverse seismic conditions that could adversely affect the safety functions of the equipment?	Yes
Comments	
Equipment was verified to be in accordance with Seismic Qualification No. SQ-T1-SF-V-0005	i, Rev 000
	·
in-line equipment.	

Rigid attached air lines are already addressed under SQUG SEWS.

Seismic Walkdov	wn Checklist	(SWC)		Status: Y N U
Equip	ment ID No.:	SF-V-5		
Equip	oment Class:	(7) Fluid-Operated Valves		
Equipment	Description:	SF-P1B SUCT ISOL VLV FROM A SF POOL		
Evaluated by:	Man	S Elize Mark S. Etre	Date:	10/24/2012
	Sa	Bur Seth W. Baker		10/24/2012

Photos



100_3193

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.:	SF-V-6	
Equipment Class:	(7) Fluid-Operated Valves	
Equipment Description:	SF-P1B SUCT ISOL VLV FROM FTC	
Proj Location (Bldg, Elev, Room/Ar	iect: TMI SWEL FB, 305.00 ft, 33 : SPENT FUEL COOLING PUMP RC ea): WALL AT THE B PUMP	DOM ON WEST
Manufacturer/Mo	del:	
Instructions for Completing	Checklist	
This checklist may be used to SWEL. The space below each findings. Additional space is p	document the results of the Seismic Walkdown of an item of n of the following questions may be used to record the results provided at the end of this checklist for documenting other co	equipment on the s of judgments and mments.
<u>Anchorage</u>		
 Is anchorage configura of SWEL items requiring 	ation verification required (i.e., is the item one of the 50% ng such verification)?	No
2. Is the anchorage free	of bent, broken, missing or loose hardware?	Not Applicable
3. Is the anchorage free	of corrosion that is more than mild surface oxidation?	Not Applicable
4. Is the anchorage free	of visible cracks in the concrete near the anchors?	Not Applicable
5. Is the anchorage confi This question only app configuration verificati	iguration consistent with plant documentation? (Note: plies if the item is one of the 50% for which an anchorage on is required.)	Not Applicable
Based on the above a potentially adverse se	inchorage evaluations, is the anchorage free of ismic conditions?	Yes

Seismic Walkdown Checklis	t (SWC)	Status: Y N U
Equipment ID No.:	SF-V-6	
Equipment Class:	(7) Fluid-Operated Valves	
Equipment Description:	SF-P1B SUCT ISOL VLV FROM FTC	
Interaction Effects		
7. Are soft targets free fro	om impact by nearby equipment or structures?	Yes
8. Are overhead equipme masonry block walls n	ent, distribution systems, ceiling tiles and lighting, and ot likely to collapse onto the equipment?	Yes
9. Do attached lines have	e adequate flexibility to avoid damage?	Yes
10. Based on the above s potentially adverse se	eismic interaction evaluations, is equipment free of ismic interaction effects?	Yes
Other Adverse Conditions		
11. Have you looked for a adversely affect the sa	nd found no adverse seismic conditions that could afety functions of the equipment?	Yes
		,

<u>Comments</u>

This is the same as SF-V-5. See SQ-T1-SF-V-0005, Rev 000

In-line equipment.

Only 1/4" gap between the conduit and the shell of the valve. Low mass of conduit is unlikely to damage the valve and is judged to be acceptable.

Soismic Walkdow	wn Chacklist	(SWC)		Status: Y N U
Seisinic Walkuo	WII CHECKIISI	(300)		
Equip	ment ID No.:	SF-V-6		
Equip	oment Class:	(7) Fluid-Operated Valves		
Equipment	Description:	SF-P1B SUCT ISOL VLV FROM FTC		
Evaluated by:	Man	S Ever Mark S. Etre	Date:	10/24/2012
	Sa	Ber Seth W. Baker		10/24/2012

Photos



Saismic Walkdown Chacklist (SWC)	Status: Y N U
Equipment Diss: (14) Distribution Panels	
Equipment Description: 120V/ REC. AC INSTR. DOW/ER TRR	
Location (Bidg, Elev, Room/Area): CB, 322.00 π , 24	· · · · · · · · · · · · · · · · · · ·
This checklist may be used to document the results of the Seismic Walkdown of an item of ea SWEL. The space below each of the following questions may be used to record the results of findings. Additional space is provided at the end of this checklist for documenting other comr	quipment on the of judgments and nents.
Anchorage	
 Is anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? 	Yes
2. Is the anchorage free of bent, broken, missing or loose hardware?	Yes
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	Yes
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Yes
 Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) 	Yes
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	Yes
•	

			Status: Y N U
Seismi	c Walkdown Checklist	(SWC)	
	Equipment ID No.:	TRB	
	Equipment Class:	(14) Distribution Panels	
I	Equipment Description:	120V REG AC INSTR. POWER TRB	
Interac	tion Effects		
7.	Are soft targets free fro	m impact by nearby equipment or structures?	Yes
8.	Are overhead equipment	nt, distribution systems, ceiling tiles and lighting, and	Yes
	masonry block walls no	t likely to collapse onto the equipment?	
9.	Do attached lines have	adequate flexibility to avoid damage?	Yes
10.	Based on the above se	ismic interaction evaluations, is equipment free of	Yes
	potentially adverse seis	mic interaction effects?	
	· · · · · · · · · · · · · · · · · · ·		
Other a	Adverse Conditions		
11.	Have you looked for an	d found no adverse seismic conditions that could	Yes
	Internal Inspections for	or other adverse Seismic conditions has not been	
	performed.		
<u>Comm</u>	ents	eccenteres with Sciencis Quelification No. SO T1 TPP. Po	N 000
⊏quipn	nent was vermed to be in	accordance with Seismic Qualification No. SQ-11-1RB, Re	

New Anchorage is installed consistent with with modification No. T1-MM-412552-002 and drawings 521-253

Evaluated by:	Man S Ever Mark S. Etre	Date:	10/24/2012
	Sun Bun Seth W. Baker		10/24/2012

	Status:	Y	N	U
Seismic Walkdown Checklist	(SWC)		-	
Equipment ID No.:	TRB			
Equipment Class:	(14) Distribution Panels			
Equipment Description:	120V REG AC INSTR. POWER TRB			

Photos





100_3490

100_3489



100_3492

Seismic Walkdown Checklist (SWC)	Status: Y N U
Equipment ID No.: VBD	
Equipment Class: (14) Distribution Panels	
Equipment Description: 120V VITAL INST DIST PANEL 1D	<u> </u>
Project: TMI SWEL	
Location (Bldg, Elev, Room/Area): CB, 322.00 ft, 24	
Manufacturer/Model:	
Instructions for Completing Checklist	
This checklist may be used to document the results of the Seismic Walkdown of an item of eq SWEL. The space below each of the following questions may be used to record the results of findings. Additional space is provided at the end of this checklist for documenting other comm	uipment on the fjudgments and nents.
Anchorage	
 Is anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? 	Yes
2. Is the anchorage free of bent, broken, missing or loose hardware?	Yes
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	Yes
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Yes
 Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) 	Yes
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	Yes

Seismi	ic Walkdown Checklist (SWC)	Status: Y N U
	Equipment ID No.: VBD	
	Equipment Class: (14) Distribution Panels	
	Equipment Description: 120V VITAL INST DIST PANEL 1D	
Interac	ction Effects	
7.	Are soft targets free from impact by nearby equipment or structures?	Yes
8.	Are overhead equipment, distribution systems, ceiling tiles and lighting, an masonry block walls not likely to collapse onto the equipment?	d Yes
9.	Do attached lines have adequate flexibility to avoid damage?	Yes
10.	Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	Yes
<u>Other</u>	Adverse Conditions	
11.	Have you looked for and found no adverse seismic conditions that could adversely affect the safety functions of the equipment? Internal Inspections for other adverse Seismic conditions has not been performed.	Unknown
Comm Equipr	nents nent was verified to be in accordance with Seismic Qualification No. SQ-T1- nchorage is installed, consistent with modification No. T1-MM-412552-002	VBD, Rev 000
253		

Rigid conduits on top of cabinet exhibit enough relative flexibility to preclude any adverse seismic interaction.

Evaluated by:	Man S End	Mark S. Etre	Date:	10/24/2012
	SonBu	Seth W. Baker		10/24/2012

		Status: Y N U
Seismic Walkdown Checklist	(SWC)	
Equipment ID No.:	VBD	
Equipment Class:	(14) Distribution Panels	
Equipment Description:	120V VITAL INST DIST PANEL 1D	

Photos





100_3484





100_3487

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: XC	LA				
Equipment Class: (20) Instrumentation and Control Panels and Cabinets				
Equipment Description: XC	LA RELAY PANEL				
Project:	TMI SWEL CB, 338.50 ft, 23 : RELAY ROOM,SOUTH OF CRD CONTROL CABINETS				
Monufacturor/Model:					
Instructions for Completing Chec	klist	<u> </u>			
This checklist may be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.					
Anchorage					
 Is anchorage configuration of SWEL items requiring su 	verification required (i.e., is the item one of the 50% ch verification)?	Yes			
2. Is the anchorage free of be	nt, broken, missing or loose hardware?	Yes			
3. Is the anchorage free of cor	rosion that is more than mild surface oxidation?	Yes			
4. Is the anchorage free of vis	ible cracks in the concrete near the anchors?	Yes			
5. Is the anchorage configurat This question only applies i configuration verification is	ion consistent with plant documentation? (Note: f the item is one of the 50% for which an anchorage required.)	Yes			
 Based on the above anchor potentially adverse seismic 	age evaluations, is the anchorage free of conditions?	Yes			

			Status: Y N U
Seismic Walkdown Ch	ecklist	(SWC)	
Equipment I	D No.:	XCLA	
Equipment	Class:	(20) Instrumentation and Control Panels and Cabinets	
Equipment Desc	ription:	XCLA RELAY PANEL	
Interaction Effects			
7. Are soft targets	free fro	m impact by nearby equipment or structures?	Yes
8. Are overhead e	quipme	nt, distribution systems, ceiling tiles and lighting, and	Yes
masonry block	walls no	t likely to collapse onto the equipment?	
0 Do attached lin	aa haya	adaguata flovikility to ovoid damago?	Vos
9. Do attached in	es nave	adequate liexibility to avoid damage?	165
10. Based on the a	bove se	ismic interaction evaluations, is equipment free of smic interaction effects?	Yes
potentially dave			
Other Adverse Condit	ions	······································	
11. Have you looke	ed for ar	nd found no adverse seismic conditions that could	Yes
adversely affect	t the sa	fety functions of the equipment?	

Comments

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Equipment was verified to be in accordance with Seismic Qualification No. SQ-T1-XCLA, Rev 000

Evaluated by:	Man S Elie Mark S. Etre	Date:	10/24/2012	
	SonBen Seth W. Baker		10/24/2012	

		Status:	Y	Ν	U
Seismic Walkdown Checklist	(SWC)				
Equipment ID No.:	XCLA				
Equipment Class:	(20) Instrumentation and Control Panels and Cabinets				
Equipment Description:	XCLA RELAY PANEL				
Equipment ID No.: Equipment Class: Equipment Description:	XCLA (20) Instrumentation and Control Panels and Cabinets XCLA RELAY PANEL				

