



FirstEnergy Nuclear Operating Company

Beaver Valley Power Station  
P.O. Box 4  
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**Eric A. Larson**  
Site Vice President

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January 27, 2014  
L-13-376

10 CFR 50.54(f)

ATTN: Document Control Desk  
U.S. Nuclear Regulatory Commission  
11555 Rockville Pike  
Rockville, MD 20852

**SUBJECT:**

Beaver Valley Power Station, Unit No. 1  
Docket No. 50-334, License No. DPR-66  
Addendum to the Beaver Valley Power Station, Unit No. 1, Near-Term Task Force  
Recommendation 2.3 Seismic Walkdown Report

On March 12, 2012, the Nuclear Regulatory Commission (NRC) issued a letter titled, "Request for Information Pursuant to Title 10 of the *Code of Federal Regulations* 50.54(f) Regarding Recommendations 2.1, 2.3, and 9.3 of the Near-Term Task Force Review of Insights from the Fukushima Dai-ichi Accident," to all power reactor licensees and holders of construction permits in active or deferred status. Enclosure 3 of the 10 CFR 50.54(f) letter contains specific Requested Actions, Requested Information, and Required Responses associated with Recommendation 2.3 for Seismic Walkdowns.

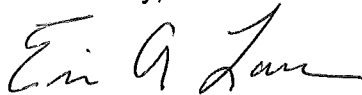
By letter dated November 27, 2012, FirstEnergy Nuclear Operating Company (FENOC) submitted the 180-day response to the 10 CFR 50.54(f) letter. The required seismic walkdown reports were provided for Beaver Valley Power Station, Unit No. 1; Beaver Valley Power Station, Unit No. 2; Davis-Besse Nuclear Power Station; and Perry Nuclear Power Plant.

During the seismic walkdowns, certain plant areas were inaccessible due to conditions expected during normal power operation. FENOC committed to submit a supplemental report documenting the results of the additional seismic walkdowns performed during a specified refueling outage. As committed for Beaver Valley Power Station, Unit No. 1, the additional seismic walkdowns were completed during the fall 2013 refueling outage. FENOC hereby submits the enclosed addendum to the Beaver Valley Power Station, Unit No. 1, Near-Term Task Force Recommendation 2.3 Seismic Walkdown Report.

There are no regulatory commitments contained in this letter. If there are any questions or if additional information is required, please contact Mr. Thomas A. Lentz, Manager – Fleet Licensing, at 330-315-6810.

I declare under penalty of perjury that the foregoing is true and correct. Executed on January 27, 2014.

Sincerely,

A handwritten signature in black ink, appearing to read "Eric A. Larson". The signature is fluid and cursive, with the first name "Eric" being the most prominent.

Eric A. Larson

Enclosure:

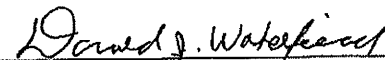
Addendum to Beaver Valley Power Station Unit 1 Near-Term Task Force  
Recommendation 2.3 Seismic Walkdown Report, Revision 1


cc: Director, Office of Nuclear Reactor Regulation (NRR) (w/o Enclosure)  
NRC Region I Administrator (w/o Enclosure)  
NRC Resident Inspector (w/o Enclosure)  
NRR Project Manager (w/o Enclosure)  
Director BRP/DEP (w/o Enclosure)  
Site BRP/DEP Representative (w/o Enclosure)

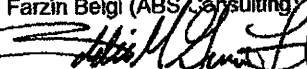
**Addendum to  
Beaver Valley Power Station Unit 1  
Near-Term Task Force  
Recommendation 2.3  
Seismic Walkdown Report, Rev 1  
Dated September 4, 2013**

**November 1, 2013**

*Prepared by:*


  
Donald J. Wakefield (ABS Consulting)


  
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Brian Lucarelli (ABS Consulting)

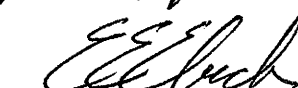
*Reviewed by:*

  
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*Approved by:*

  
Eugene Ebeck (FENOC)

**FirstEnergy Nuclear Operating Company (FENOC)**

**Purpose:**

In response to the NRC Letter 50.54(f) Section 2.3, FirstEnergy Nuclear Operating Company (FENOC) submitted its response to the Nuclear Regulatory Commission (NRC) in November 2012 for its Beaver Valley Power Station (BVPS) Unit 1. Additionally, the Revision 0 report was revised in September 2013 based on the feedback received from NRC audit at BVPS conducted in July 2013. Pages 248 & 291 of the submittal report Table 6-3 identified 13 components that were not accessible during the time initial walkdowns were performed while the plant was in operation. A commitment was added in the report stating that these 13 items will be walked down during the next refueling outage.

The purpose of this addendum to the report is to document the findings of those 13 components that were walked down during the September/October 2013 (1R22) refueling outage.

**Attachments:**

1. Revised page 284, Section 6.1 to identify the 13 inaccessible components that were walked down during the September/October 2013 refueling outage and also to indicate three additional components that were walked down. Also adds reference to additional Table 6-5 mentioned in item 3 below.
2. Revised page 291 and 292 Table 6-3 and Table 6-4 to include the additional 3 components walked down during the September/October 2013 refueling outage.
3. Added page 292A to include an additional Table 6-5 to identify areas walked by inside the Containment Building during the September/October 2013 refueling outage.
4. Seismic Walkdown Checklists for 13 components that were identified as inaccessible in the original submittal report and also for 3 additional components walked down.
5. Area Walk-By Checklists associated with the components stated in item 4 above.

**Findings:**

No potentially adverse findings were identified for these components and in the associated rooms. The findings are documented in the attached Seismic Walkdown Checklists (SWC) and the associated Area Walk-By Checklists (AWC).



6-5 and Table 6-6. The tables document “potential” issues that would be adverse to quality. In general, they are a documentation of varying degrees of experience and use of engineering judgments. The basis for excluding an issue from being a condition report is documented in the walkdown checklist to ensure retrievability.

## 6.0 SUMMARY OF THE WALKDOWN RESULTS

### 6.1 WALK DOWN ITEMS AND WALK-BY AREAS

The SWEL 1 included a total of 113 components, and SWEL 2 included a total of 8 components. From this total of 121 components, 108 components were walked down and 13 components were inaccessible and will require walkdown during the next plant’s refueling outage. Notification No. 600788346 was generated to have these walkdowns performed during the next refueling outage. (These 13 components were walked down during the September/October 2013 refueling outage as indicated in the footnote to Table 6-3 on page 291.) Three additional components (PCV-1IA-117, PT-1RC-402, and MOV-1CH-310) were walked down during the September/October 2013 Refueling Outage as they were located in the same vicinity of the area of scheduled walk downs. Table 6-1 and Table 6-2 identify the walkdown items and walk-by areas, respectively, and Table 6-3 presents a list of items on the SWEL which are inaccessible while the plant is in operation. Three motor operated valves MOV-1QS-101B, MOV-1SI-860B, and MOVE-1SI-862A were part of the SEL components to be walked down. As noted on their respective checklists, the valves themselves were inaccessible, but the operators were accessible. The operators were walked down, but the in line valves were not. The areas walk-by and the walkdown items are cross correlated on the respective SWCs and AWCs. Table 6-4 provides the list of equipment that was walked down, by EPRI equipment class. Table 6-5 identifies the walk-by areas in the Containment Building which are inaccessible while the plant is in operation.

Table 6-1: Beaver Valley 1 NTTF 2.3 Walkdown Items (SWEL 1+2)

Equipment ID No	Equip. Class	Bldg	Floor El	Area Description
1CC-E-1A	21. Tanks and Heat Exchangers	AXLB	735	Primary Aux. Bldg 735'6"
1EE-EG-1	17. Engine Generators	DGBX	735	DG Room Train A
1EE-EG-2	17. Engine Generators	DGBX	735	DG Room Train B
1FC-E-1A	21. Tanks and Heat Exchangers	FULB	735	Fuel Building

Table 6-2: Beaver Valley 1 NTTF 2.3 Walk-By Areas*		
Area	Bldg	Floor El
Prim. Aux. Bldg. 735'6	AXLB	735
QS-AFW Pump Room	SFGB	735
Relay Room	AXLB	713
Service Building Floor 725'	SRVB	725
Valve Pit 688'	SFGB	747
West Cable Vault - SE Corner	SFGB	735

\* Does not include areas in Containment Building. (For areas in Containment Building see Table 6-5 on pg 292A)

Note: Equipment located in either SFG or MSCV are all designated to be in SFGB.

Table 6-3: Beaver Valley 1 NTTF 2.3 Inaccessible Items on SWEL1+2*				
Equip. ID	Description	Bldg	El	Area Description
GN-TK-1B	NITROGEN ACCUMULATOR TANK GN-TK-1B	RCBX	767	REACTOR CONTAINMENT BUILDING
LT-1FW-475	SG1A BIP NARROW RANGE LEVEL TRANSMITTER LT-1FW-475	RCBX	718	OUTSIDE 1A STEAM GEN CUBICLE
MOV-1RC-535	PORV BLOCK VALVE MOV-RC-535	RCBX	767	PRESSURIZER CUBICLE
PCV-1RC-455D	PZR PORV PCV-RC-455D	RCBX	767	PRESSURIZER CUBICLE
PCV-CC-101	CNMT AIR COMPR CHILLED WATER SUP PRESS CONT	RCBX	718	REACTOR CONTAINMENT BUILDING
PT-1RC-403	REACTOR COOLANT WIDE RANGE PRESSURE, PT-RC-403	RCBX	692	701 KEYWAY WALL
RH-P-1A	RHR PUMP RH-P-1A	RCBX	707	RHR PLATFORM
RS-E-1D	RECIRC SPRAY HEAT EXCHANGER RS-E-1D	RCBX	718	RECIRC SPRAY CLRS
RS-P-1A	INSIDE RECIR. PUMP RS-P-1A	RCBX	692	AT CNMT SUMP
SI-24	LOOP 2 COLD LEG SI SUP CHECK VALVE SI-24	RCBX	718	AT 1B LOOP CUB
SOV-1RC-103B	SOV-RC-103B	RCBX	767	ON PZR CUBICLE OUTSIDE WALL
TV-1CC-107A	RCP 1A THERM BARR CCR OUT ISOL,TV-CC-107A	RCBX	718	-A RCP PP CUBICLE-
TI-1CC-131C	CNMT RECIRC AIR COOLERS INLET LOOP #3	RCBX	692	REACTOR CONTAINMENT BUILDING (690)

Table 6-3: Beaver Valley 1 NTTF 2.3 Inaccessible Items on SWEL1+2*				
Equip. ID	Description	Bldg	El	Area Description
PCV-11A-117	PRESS CONTROL VALVE	RCBX	767	RCBX 767 OUTSIDE CRANE WALL
PT-1RC-402	REACTOR COOLANT WIDE RANGE PRESURE	RCBX	718	RCBX 718 OUTSIDE CRANE WALL
MOV-1CH-310	REGEN HX CHG HDR OUT ISOL, NORMAL CHARGIN VALVE	RCBX	692	BASEMENT

\*These components were walked down during the September/October 2013 refueling outage.

Table 6-4: Beaver Valley 1 NTTF 2.3 Components Categorized by EPRI Classes		
EPRI Cat No.	Equipment Description	Components Walked Down
0	Other	7
1	Motor Control Centers and Wall-Mounted Contactors	7
2	Low Voltage Switchgear and Breaker Panels	3
3	Medium Voltage, Metal-Clad Switchgear	2
4	Transformers	4
5	Horizontal Pumps	10
6	Vertical Pumps	4
7	Pneumatic-Operated Valves	15
8	Motor-Operated and Solenoid-Operated Valves	17
9	Fans	2
10	Air Handlers	1
11	Chillers	0
12	Air Compressors	0
13	Motor Generators	0
14	Distribution Panels and Automatic Transfer Switches	6
15	Battery Racks	2
16	Battery Chargers and Inverters	6
17	Engine Generators	2
18	Instrument (on) Racks	8
19	Temperature Sensors	2
20	Instrumentation and Control Panels	17
21	Tanks and Heat Exchangers	9
<b>Total</b>		<b>124</b>

Table 6-5: Beaver Valley 1 NTTF 2.3 Walk-By Areas in the Containment Building.		
Area	Bldg	Floor El
Basement	RCBX	692
Pressurizer Cubicle	RCBX	767
PRT Cubicle	RCBX	718
RCBX 767 Outside Crane Wall	RCBX	767
RCBX 718 Outside Crane Wall	RCBX	718
RCBX "A" Cubicle	RCBX	718
RCBX "B" Cubicle	RCBX	718
RHR Platform	RCBX	707

Status: ☒ Y ☐ N ☐ U

**Seismic Walkdown Checklist (SWC)**

Equipment ID No. GN-TK-1B

Equip. Class 21. Tanks and Heat Exchangers

Equipment Description NITROGEN ACCUMULATOR TANK GN-TK-1B

Location: Bldg. RCBX Floor El. 767

Manufacturer, Model, Etc. \_\_\_\_\_

**Instructions for Completing Checklist**

This checklist may be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

**Anchorage**

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

Y	N
	X

*GN-TK-1B consists of a ~4 ft tall, ~18 inch diameter tank mounted to an adjacent wall via a horizontal tube section. This tube section is directly welded to a steel plate which is anchored to the wall via 4-1" diameter anchors.*

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

Y	N	U	N/A
X			

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

Y	N	U	N/A
X			

*Tank and anchorage found in good condition.*

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

Y	N	U	N/A
X			

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

Y	N	U	N/A
			X

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

Y	N	U
X		

Status:    ☒    N    U

**Seismic Walkdown Checklist (SWC)**

Equipment ID No. GN-TK-1B

Equip. Class 21. Tanks and Heat Exchangers

Equipment Description NITROGEN ACCUMULATOR TANK GN-TK-1B

**Interaction Effects**

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

Y	N	U	N/A
X			

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

Y	N	U	N/A
X			

9. Do attached lines have adequate flexibility to avoid damage?  
*Attached piping identified with adequate flexibility.*

Y	N	U	N/A
X			

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

Y	N	U
X		

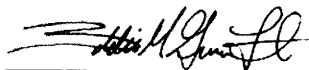
**Other Adverse Conditions**

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

Y	N	U
X		

**Comments** (Additional pages may be added as necessary)

Evaluated by:



Date:

10/10/2013

Eddie M. Guerra



Date:

10/10/2013

Brian A. Lucarelli

Status:   Ⓢ   N   U

**Seismic Walkdown Checklist (SWC)**

Equipment ID No. GN-TK-1B

Equip. Class 21. Tanks and Heat Exchangers

Equipment Description NITROGEN ACCUMULATOR TANK GN-TK-1B

Other supporting or relevant documents and photos (if any):



File Name: 1-67-934.jpg  
Description: Component ID Tag



File Name: 1-68-934.jpg  
Description: General View of Component



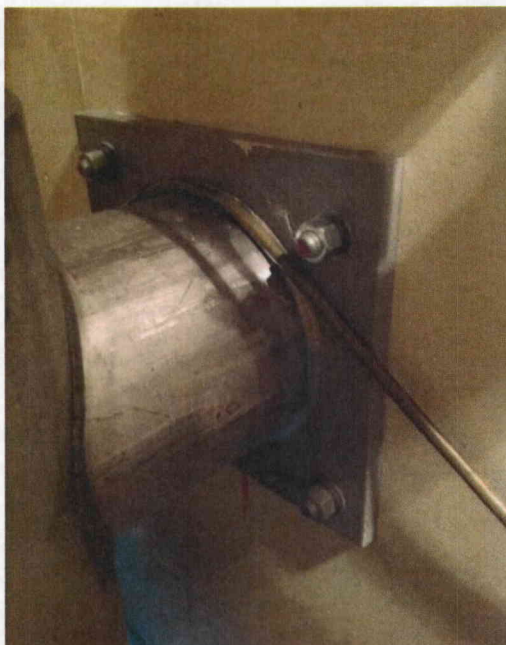
Status:    ☒    ☐    ☐

**Seismic Walkdown Checklist (SWC)**

Equipment ID No.    GN-TK-1B

Equip. Class 21. Tanks and Heat Exchangers

Equipment Description    NITROGEN ACCUMULATOR TANK GN-TK-1B



File Name: 1-69-935.jpg  
Description: View of Component Anchorage



Status: ☒ Y ☐ N ☐ U

**Seismic Walkdown Checklist (SWC)**

Equipment ID No. LT-1FW-475

Equip. Class 18. Instrument (on) Racks

Equipment Description SG1A BIP NARROW RANGE LEVEL TRANSMITTER LT-1FW-475

Location: Bldg. RCBX Floor El. 718

Manufacturer, Model, Etc. \_\_\_\_\_

**Instructions for Completing Checklist**

This checklist may be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

**Anchorage**

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

Y	N
	X

*This is a lightweight (~5 lb), wall-mounted transmitter. The wall mounting consists of a steel plate welded to a steel tube which is attached to the wall via 4 ~3/8" diameter anchor bolts.*

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

Y	N	U	N/A
X			

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

Y	N	U	N/A
X			

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

Y	N	U	N/A
X			

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

Y	N	U	N/A
			X

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

Y	N	U
X		

Status: ☒ Y ☐ N ☐ U

**Seismic Walkdown Checklist (SWC)**

Equipment ID No. LT-1FW-475

Equip. Class 18. Instrument (on) Racks

Equipment Description SG1A BIP NARROW RANGE LEVEL TRANSMITTER LT-1FW-475

**Interaction Effects**

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

Y	N	U	N/A
X			

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

Y	N	U	N/A
X			

9. Do attached lines have adequate flexibility to avoid damage?  
*Attached lines identified with adequate flexibility.*

Y	N	U	N/A
X			

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

Y	N	U
X		

**Other Adverse Conditions**

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

Y	N	U
X		

**Comments** (Additional pages may be added as necessary)

Evaluated by:



Date: 10/10/2013

Eddie M. Guerra



Date: 10/10/2013

Brian A. Lucarelli

Status:   Ⓢ   N   U

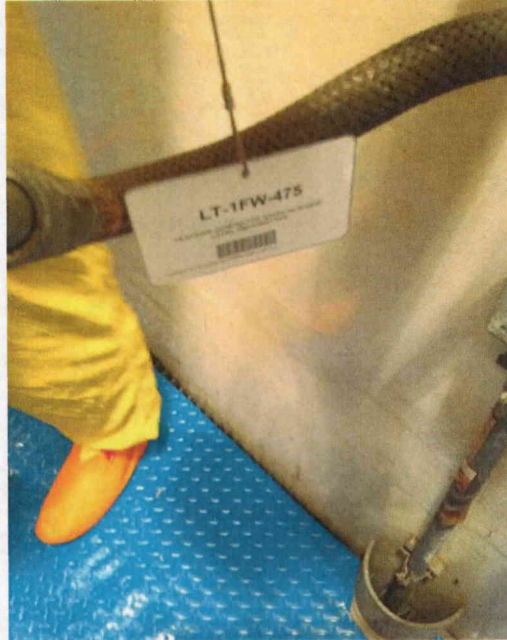
**Seismic Walkdown Checklist (SWC)**

Equipment ID No. LT-1FW-475

Equip. Class 18. Instrument (on) Racks

Equipment Description SG1A BIP NARROW RANGE LEVEL TRANSMITTER LT-1FW-475

Other supporting or relevant documents and photos (if any):



File Name: 1-67-885.jpg  
Description: Component ID Tag



File Name: 1-68-885.jpg  
Description: General View of Component

Status:   Ⓢ       N       U

**Seismic Walkdown Checklist (SWC)**

Equipment ID No.   LT-1FW-475

Equip. Class 18. Instrument (on) Racks

Equipment Description       SG1A BIP NARROW RANGE LEVEL TRANSMITTER LT-1FW-475



File Name: 1-69-885.jpg

Description: View of Component Mounting Configuration

Status:    ☒    N    U

### Seismic Walkdown Checklist (SWC)

Equipment ID No. MOV-1RC-535

Equip. Class 8a. Motor-Operated Valves

Equipment Description PORV BLOCK VALVE MOV-RC-535

Location: Bldg. RCBX

Floor El. 767

Manufacturer, Model, Etc. \_\_\_\_\_

### Instructions for Completing Checklist

This checklist may be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

### Anchorage

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

Y	N
	X

*This MOV is in line with a very well-supported insulated pipe. P&ID RM-0037B indicates pipe diameter is 3". Yoke was observed to be sufficiently strong to prevent shaft binding.*

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

Y	N	U	N/A
			X

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

Y	N	U	N/A
			X

*Valve found in good condition.*

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

Y	N	U	N/A
			X

5. Is the anchorage configuration consistent with plant documentation?

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

Y	N	U	N/A
			X

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

Y	N	U
X		

Status: ☒ Y ☐ N ☐ U

**Seismic Walkdown Checklist (SWC)**

Equipment ID No. MOV-1RC-535

Equip. Class 8a. Motor-Operated Valves

Equipment Description PORV BLOCK VALVE MOV-RC-535

**Interaction Effects**

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

Y	N	U	N/A
X			

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

Y	N	U	N/A
X			

9. Do attached lines have adequate flexibility to avoid damage?

*Attached lines identified with adequate flexibility.*

Y	N	U	N/A
X			

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

Y	N	U
X		

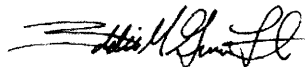
**Other Adverse Conditions**

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

Y	N	U
X		

**Comments** (Additional pages may be added as necessary)

Evaluated by:



Eddie M. Guerra

Date:

10/10/2013



Brian A. Lucarelli

Date:

10/10/2013



Status:    ☒    ☐ N    ☐ U

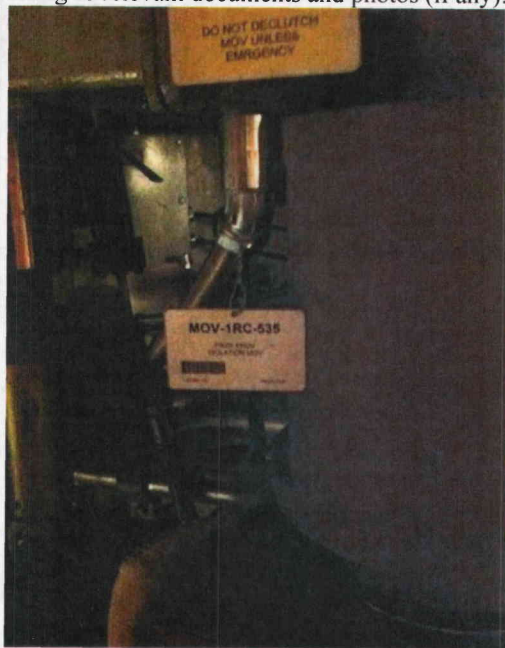
**Seismic Walkdown Checklist (SWC)**

Equipment ID No.    MOV-1RC-535

Equip. Class 8a. Motor-Operated Valves

Equipment Description    PORV BLOCK VALVE MOV-RC-535

Other supporting or relevant documents and photos (if any):



File Name: 1-68-963.jpg  
Description: Component ID Tag



File Name: 1-67-963.jpg  
Description: General View of Component

Status:    ☒ Y    ☐ N    ☐ U

**Seismic Walkdown Checklist (SWC)**

Equipment ID No.    PCV-1RC-455D

Equip. Class 7. Pneumatic-Operated Valves

Equipment Description    PZR PORV PCV-RC-455D

Location: Bldg.    RCBX

Floor El.    767

Manufacturer, Model, Etc. \_\_\_\_\_

**Instructions for Completing Checklist**

This checklist may be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

**Anchorage**

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

*This valve has a 3 ft tall actuator and is in line with a 3" pipe. Vertical and lateral supports are provided near the valve body.*

Y	N
	X

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

Y	N	U	N/A
			X

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

*Valve found in good condition.*

Y	N	U	N/A
			X

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

Y	N	U	N/A
			X

5. Is the anchorage configuration consistent with plant documentation?

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

Y	N	U	N/A
			X

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

Y	N	U
X		



Status:    ☒    N    U

**Seismic Walkdown Checklist (SWC)**

Equipment ID No. PCV-1RC-455D

Equip. Class 7. Pneumatic-Operated Valves

Equipment Description PZR PORV PCV-RC-455D

**Interaction Effects**

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

Y	N	U	N/A
X			

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

Y	N	U	N/A
X			

9. Do attached lines have adequate flexibility to avoid damage?  
*Attached lines identified with adequate flexibility.*

Y	N	U	N/A
X			

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

Y	N	U
X		

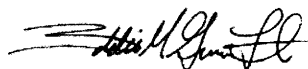
**Other Adverse Conditions**

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

Y	N	U
X		

**Comments** (Additional pages may be added as necessary)

Evaluated by:



Date:

10/10/2013

Eddie M. Guerra



Date:

10/10/2013

Brian A. Lucarelli

Status:    ☒    ☐    ☐

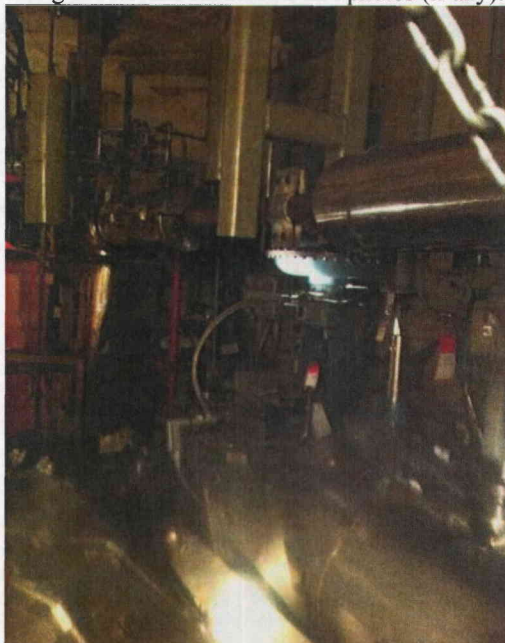
**Seismic Walkdown Checklist (SWC)**

Equipment ID No.    PCV-1RC-455D

Equip. Class 7. Pneumatic-Operated Valves

Equipment Description    PZR PORV PCV-RC-455D

Other supporting or relevant documents and photos (if any):



File Name: 1-67-943.jpg

Description: General View of Component

Status:    ☒    N    U

**Seismic Walkdown Checklist (SWC)**

Equipment ID No. PCV-CC-101

Equip. Class 7. Pneumatic-Operated Valves

Equipment Description CNMT AIR COMPR CHILLED WATER SUP PRESS CONT

Location: Bldg. RCBX Floor El. 718

Manufacturer, Model, Etc. \_\_\_\_\_

**Instructions for Completing Checklist**

This checklist may be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

**Anchorage**

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

Y	N
	X

*This valve is covered in insulation. The pipe supporting PCV-CC-101 is laterally supported to an adjacent frame which is mounted to a grating platform at elevation 718.*

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

Y	N	U	N/A
			X

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

Y	N	U	N/A
			X

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

Y	N	U	N/A
			X

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

Y	N	U	N/A
			X

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

Y	N	U
X		

Status:    ☒    N    U

**Seismic Walkdown Checklist (SWC)**

Equipment ID No. PCV-CC-101

Equip. Class 7. Pneumatic-Operated Valves

Equipment Description CNMT AIR COMPR CHILLED WATER SUP PRESS CONT

**Interaction Effects**

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

Y	N	U	N/A
X			

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

Y	N	U	N/A
X			

9. Do attached lines have adequate flexibility to avoid damage?

Y	N	U	N/A
X			

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

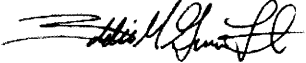
Y	N	U
X		

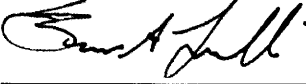
**Other Adverse Conditions**

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

Y	N	U
X		

**Comments** (Additional pages may be added as necessary)

Evaluated by:  Date: 10/25/2013  
Eddie M. Guerra

 Date: 10/25/2013  
Brian A. Lucarelli

Status:   Ⓢ   N   U

**Seismic Walkdown Checklist (SWC)**

Equipment ID No. PCV-CC-101

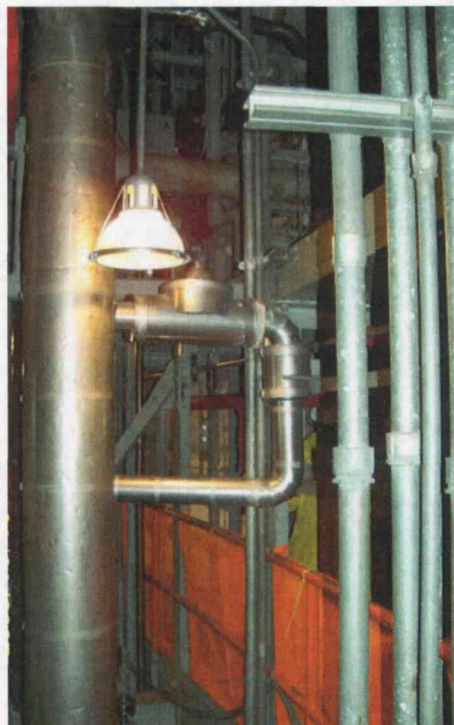
Equip. Class 7. Pneumatic-Operated Valves

Equipment Description CNMT AIR COMPR CHILLED WATER SUP PRESS CONT

Other supporting or relevant documents and photos (if any):



File Name: 100\_0450.jpg  
Description: General View of Component



File Name: 100\_0454.jpg  
Description: General View of Component Area

Status:    ☒    N    U

**Seismic Walkdown Checklist (SWC)**

Equipment ID No.    PT-1RC-403

Equip. Class 18. Instrument (on) Racks

Equipment Description    REACTOR COOLANT WIDE RANGE PRESSURE, PT-RC-403

Location: Bldg.    RCBX    Floor El.    692

Manufacturer, Model, Etc.    \_\_\_\_\_

**Instructions for Completing Checklist**

This checklist may be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

**Anchorage**

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

Y	N
	X

*This is a lightweight (~5 lb), wall-mounted pressure transmitter. The wall mounting consists of a steel plate welded to a steel tube which is attached to the wall via 4 ~3/8" diameter anchor bolts.*

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

Y	N	U	N/A
X			

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

Y	N	U	N/A
X			

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

Y	N	U	N/A
X			

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

Y	N	U	N/A
			X

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

Y	N	U
X		

Status:    ☒    N    U

**Seismic Walkdown Checklist (SWC)**

Equipment ID No. PT-1RC-403

Equip. Class 18. Instrument (on) Racks

Equipment Description REACTOR COOLANT WIDE RANGE PRESSURE, PT-RC-403

**Interaction Effects**

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

*No interaction concerns identified.*

Y	N	U	N/A
X			

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

Y	N	U	N/A
X			

9. Do attached lines have adequate flexibility to avoid damage?

*Attached lines identified with adequate flexibility.*

Y	N	U	N/A
X			

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

Y	N	U
X		

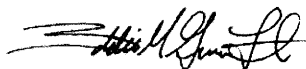
**Other Adverse Conditions**

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

Y	N	U
X		

**Comments** (Additional pages may be added as necessary)

Evaluated by:



Eddie M. Guerra

Date:

10/25/2013



Brian A. Lucarelli

Date:

10/25/2013



Status:   Ⓢ   N   U

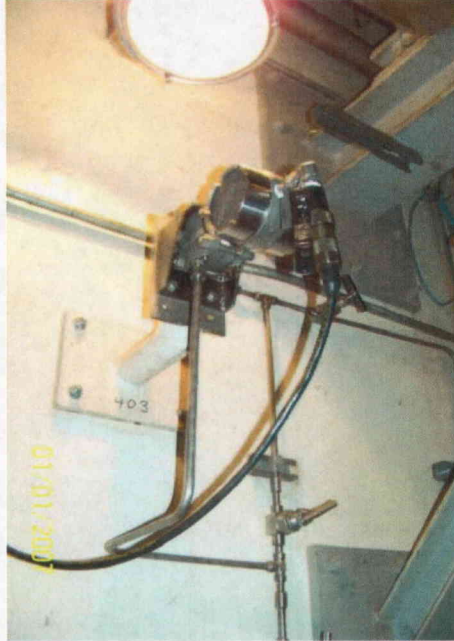
**Seismic Walkdown Checklist (SWC)**

Equipment ID No.   PT-1RC-403

Equip. Class 18. Instrument (on) Racks

Equipment Description       REACTOR COOLANT WIDE RANGE PRESSURE, PT-RC-403

Other supporting or relevant documents and photos (if any):



File Name: 100\_0423.jpg  
Description: General View of Component



File Name: 100\_0425.jpg  
Description: View of Anchorage



Status:   Ⓢ   N   U

**Seismic Walkdown Checklist (SWC)**

Equipment ID No. PT-1RC-403

Equip. Class 18. Instrument (on) Racks

Equipment Description      REACTOR COOLANT WIDE RANGE PRESSURE, PT-RC-403



File Name: 100\_0426.jpg  
Description: General View of Component Area

Status:    ☒    N    U

**Seismic Walkdown Checklist (SWC)**

Equipment ID No. RH-P-1A                      Equip. Class 6. Vertical Pumps

Equipment Description      RHR PUMP RH-P-1A

Location: Bldg.      RCBX              Floor El.      707

Manufacturer, Model, Etc. \_\_\_\_\_

**Instructions for Completing Checklist**

This checklist may be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

**Anchorage**

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

*The motor for this vertical pump extends around 7 ft from the pipe center line. The pipe in line with the pump is directly bolted to adjacent wide flanges located near the pump.*

Y	N
	X

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

Y	N	U	N/A
X			

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

*Anchorage for the pump to the supporting pipe was identified in good condition.*

Y	N	U	N/A
X			

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

Y	N	U	N/A
X			

5. Is the anchorage configuration consistent with plant documentation?

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

Y	N	U	N/A
			X

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

Y	N	U
X		

Status:    ☒    N    U

**Seismic Walkdown Checklist (SWC)**

Equipment ID No. RH-P-1A                      Equip. Class 6. Vertical Pumps

Equipment Description      RHR PUMP RH-P-1A

**Interaction Effects**

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

*No interaction concerns identified in the vicinity of this pump.*

Y	N	U	N/A
X			

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

Y	N	U	N/A
X			

9. Do attached lines have adequate flexibility to avoid damage?

Y	N	U	N/A
X			

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

Y	N	U
X		

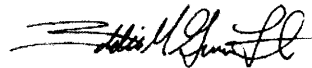
**Other Adverse Conditions**

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

Y	N	U
X		

**Comments** (Additional pages may be added as necessary)

Evaluated by:



Date: 10/10/2013

Eddie M. Guerra



Date: 10/10/2013

Brian A. Lucarelli

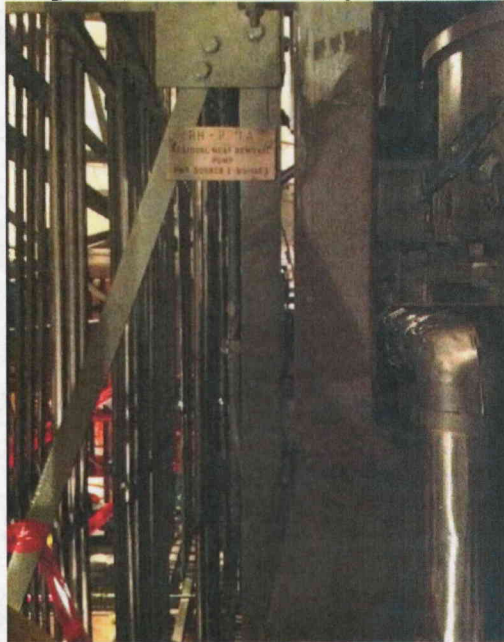
Status:   Ⓢ       N       U

**Seismic Walkdown Checklist (SWC)**

Equipment ID No.   RH-P-1A                      Equip. Class 6. Vertical Pumps

Equipment Description       RHR PUMP RH-P-1A

Other supporting or relevant documents and photos (if any):



File Name: 1-67-881.jpg  
Description: Component ID Plate



File Name: 1-68-881.jpg  
Description: General View of Pump Motor



Status:   Ⓢ       N       U

**Seismic Walkdown Checklist (SWC)**

Equipment ID No.   RH-P-1A

Equip. Class 6. Vertical Pumps

Equipment Description       RHR PUMP RH-P-1A



File Name: 1-69-881.jpg  
Description: General View of Base Connection



File Name: 1-70-881.jpg  
Description: View of Component Anchorage

Status:    ☒    N    U

**Seismic Walkdown Checklist (SWC)**

Equipment ID No. RS-E-ID                      Equip. Class 21. Tanks and Heat Exchangers

Equipment Description      RECIRC SPRAY HEAT EXCHANGER RS-E-ID

Location: Bldg.      RCBX                      Floor El.      718

Manufacturer, Model, Etc. \_\_\_\_\_

**Instructions for Completing Checklist**

This checklist may be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

**Anchorage**

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

Y	N
	X

*This vertical heat exchanger is around 30ft tall and runs through Elevations 692 and 718. It is supported at El. 692 by a rigid steel tube frame. At El. 718, it is supported by four stiffened legs anchored via 2-1" diameter bolts to the floor.*

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

Y	N	U	N/A
X			

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

Y	N	U	N/A
X			

*Mild surface corrosion identified at the bottom plate of the heat exchanger. This is judged not to be a seismic/structural concern.*

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

Y	N	U	N/A
X			

5. Is the anchorage configuration consistent with plant documentation?

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

Y	N	U	N/A
			X

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

Y	N	U
X		

Status:    ☒    N    U

**Seismic Walkdown Checklist (SWC)**

Equipment ID No. RS-E-1D

Equip. Class 21. Tanks and Heat Exchangers

Equipment Description RECIRC SPRAY HEAT EXCHANGER RS-E-1D

**Interaction Effects**

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

*Adjacent scaffolding at El. 692 is well braced and judged not to present an interaction concern.*

Y	N	U	N/A
X			

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

Y	N	U	N/A
X			

9. Do attached lines have adequate flexibility to avoid damage?

Y	N	U	N/A
X			

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

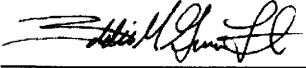
Y	N	U
X		


**Other Adverse Conditions**

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

Y	N	U
X		

**Comments** (Additional pages may be added as necessary)

Evaluated by:  Date: 10/10/2013  
Eddie M. Guerra

 Date: 10/10/2013  
Brian A. Lucarelli

Status:   Ⓢ       N       U

**Seismic Walkdown Checklist (SWC)**

Equipment ID No.   RS-E-1D

Equip. Class 21. Tanks and Heat Exchangers

Equipment Description       RECIRC SPRAY HEAT EXCHANGER RS-E-1D

Other supporting or relevant documents and photos (if any):



File Name: 1-67-891.jpg  
Description: General View of Component from Elevation 692



File Name: 1-70-890.jpg  
Description: View of Support at El. 692  
(Picture is for RS-E-1C which has identical support condition as RS-E-1D)



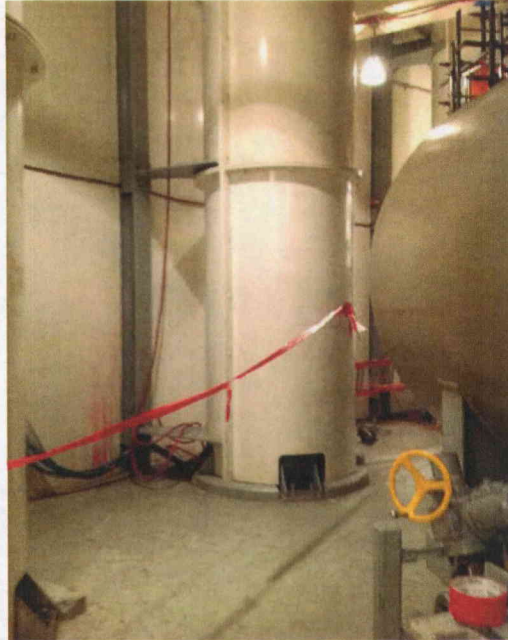
Status:   Ⓢ   N   U

**Seismic Walkdown Checklist (SWC)**

Equipment ID No. RS-E-1D

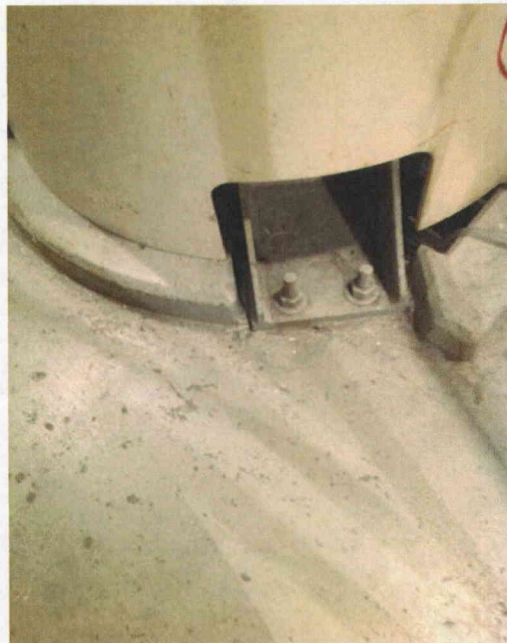
Equip. Class 21. Tanks and Heat Exchangers

Equipment Description RECIRC SPRAY HEAT EXCHANGER RS-E-1D



File Name: 1-73-890.jpg

Description:       General View of Component from Elevation 718  
(Picture is for RS-E-1C which has identical support condition as RS-E-1D)



File Name: 1-72-890.jpg

Description:       View of Anchorage at El. 718  
(Picture is for RS-E-1C which has identical support condition as RS-E-1D)

Status: ☒ Y ☐ N ☐ U

### Seismic Walkdown Checklist (SWC)

Equipment ID No. RS-P-1A Equip. Class 6. Vertical Pumps

Equipment Description INSIDE RECIR. PUMP RS-P-1A

Location: Bldg. RCBX Floor El. 692

Manufacturer, Model, Etc. \_\_\_\_\_

#### Instructions for Completing Checklist

This checklist may be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

#### Anchorage

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

*This vertical pump is bolted to skid with 4 - 1" diameter bolts. The distance from top of the motor to the pipe center line is about 10ft.*

Y	N
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

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

Y	N	U	N/A
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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

Y	N	U	N/A
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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

Y	N	U	N/A
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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

Y	N	U	N/A
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

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

Y	N	U
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Status: ☒ Y ☐ N ☐ U

**Seismic Walkdown Checklist (SWC)**

Equipment ID No. RS-P-1A Equip. Class 6. Vertical Pumps

Equipment Description INSIDE RECIR. PUMP RS-P-1A

**Interaction Effects**

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

*Pump motor is in close proximity to steel frame (~2" gap). This is judged not to be a seismic concern since relative motor displacement at this level of the structure will be minimal under seismic action.*

Y	N	U	N/A
X			

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

Y	N	U	N/A
X			

9. Do attached lines have adequate flexibility to avoid damage?

Y	N	U	N/A
X			

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

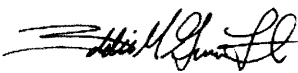
Y	N	U
X		

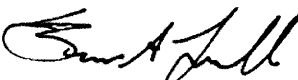
**Other Adverse Conditions**

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

Y	N	U
X		

**Comments** (Additional pages may be added as necessary)

Evaluated by:  Date: 10/10/2013  
Eddie M. Guerra

 Date: 10/10/2013  
Brian A. Lucarelli

## Seismic Walkdown Checklist (SWC)

### Equip. Class 6. Vertical Pumps

Equipment Description	INSIDE RECIR. PUMP RS-P-1A
1. Equipment Name:	Recirculation Pump
2. Manufacturer:	[Manufacturer Information]
3. Model Number:	RS-P-1A
4. Serial Number:	[Serial Number]
5. Date of Installation:	[Installation Date]
6. Location:	[Location]
7. Purpose:	For recirculating water in the system.
8. Capacity:	[Capacity]
9. Power Rating:	[Power Rating]
10. Voltage:	[Voltage]
11. Frequency:	[Frequency]
12. Flow Rate:	[Flow Rate]
13. Head Pressure:	[Head Pressure]
14. Material:	[Material]
15. Weight:	[Weight]
16. Dimensions:	[Dimensions]
17. Connections:	[Connections]
18. Controls:	[Controls]
19. Safety Features:	[Safety Features]
20. Maintenance Schedule:	[Maintenance Schedule]
21. Notes:	[Notes]

**Other supporting or relevant documents and photos (if any):**



File Name: 1-67-864.jpg  
Description: General View of Component



File Name: 1-69-865.jpg  
Description: View of Anchorage  
(Picture is for RS-P-1B which has identical support  
condition as RS-P-1A)

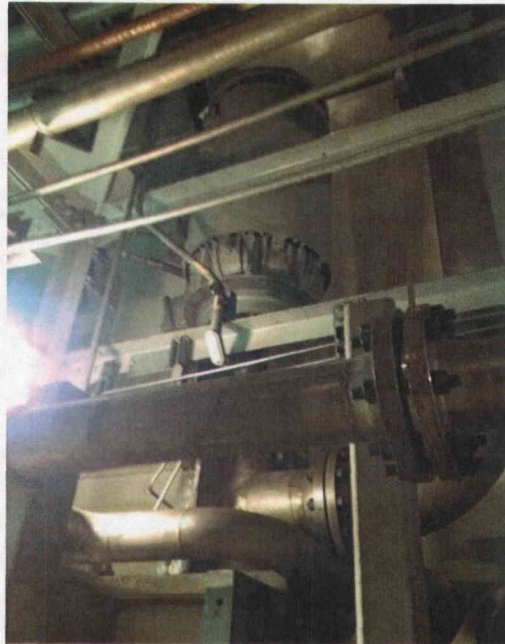


Status:    ☒    N    U

**Seismic Walkdown Checklist (SWC)**

Equipment ID No.    RS-P-1A                      Equip. Class 6. Vertical Pumps

Equipment Description            INSIDE RECIR. PUMP RS-P-1A



File Name: 1-71-865.jpg

Description:            View of Steel Frame in Vicinity of Pump Motor  
(Picture is for RS-P-1B which has same configuration as  
RS-P-1A)

Status: ☒ Y ☐ N ☐ U

**Seismic Walkdown Checklist (SWC)**

Equipment ID No. SI-24

Equip. Class 0d. Other Check or Manual Valve

Equipment Description LOOP 2 COLD LEG SI SUP CHECK VALVE SI-24

Location: Bldg. RCBX Floor El. 718

Manufacturer, Model, Etc. \_\_\_\_\_

**Instructions for Completing Checklist**

This checklist may be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

**Anchorage**

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

*This valve is covered in insulation and is in-line with an ~8" pipe. The segment of the pipe running through elevation 738 is laterally supported about 6ft from the valve's location.*

Y	N
	X

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

Y	N	U	N/A
			X

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

Y	N	U	N/A
			X

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

Y	N	U	N/A
			X

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

Y	N	U	N/A
			X

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

Y	N	U
X		



Status:    ☒    N    U

**Seismic Walkdown Checklist (SWC)**

Equipment ID No. SI-24

Equip. Class 0d. Other Check or Manual Valve

Equipment Description LOOP 2 COLD LEG SI SUP CHECK VALVE SI-24

**Interaction Effects**

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

Y	N	U	N/A
X			

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

Y	N	U	N/A
X			

9. Do attached lines have adequate flexibility to avoid damage?

Y	N	U	N/A
X			

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

Y	N	U
X		

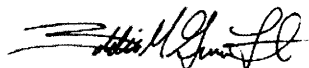
**Other Adverse Conditions**

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

Y	N	U
X		

**Comments** (Additional pages may be added as necessary)

Evaluated by:



Date:

10/25/2013

Eddie M. Guerra



Date:

10/25/2013

Brian A. Lucarelli

Status:   Ⓢ   N   U

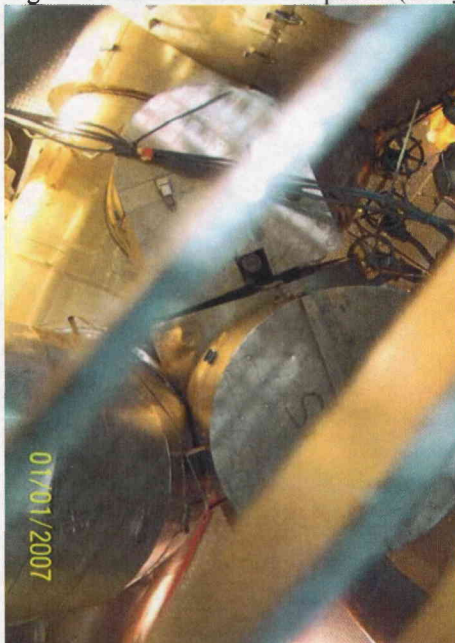
**Seismic Walkdown Checklist (SWC)**

Equipment ID No. SI-24

Equip. Class 0d. Other Check or Manual Valve

Equipment Description LOOP 2 COLD LEG SI SUP CHECK VALVE SI-24

Other supporting or relevant documents and photos (if any):



File Name: 100\_0463.jpg

Description: General View of Component (Below Grating)



File Name: 1SI 24 Uninsulated.jpg

Description: General View of Component  
(Picture from Valve Team Documentation Provided  
by Plant Personnel)

Status:    ☒    N    U

**Seismic Walkdown Checklist (SWC)**

Equipment ID No. SOV-1RC-103B      Equip. Class **8B. Solenoid Valves**

Equipment Description SOV-RC-103B

Location: Bldg. RCBX      Floor El. 767

Manufacturer, Model, Etc. \_\_\_\_\_

**Instructions for Completing Checklist**

This checklist may be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

**Anchorage**

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

Y	N
	X

*This SOV is approximately 1 ft tall and is in line with a well supported 1" diameter pipe. Piping is supported to the wall about 2 ft from the valve in one direction and about 5 ft from the valve in the other direction by double-angle supports.*

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

Y	N	U	N/A
			X

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

*Valve found in good condition.*

Y	N	U	N/A
			X

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

Y	N	U	N/A
			X

5. Is the anchorage configuration consistent with plant documentation?

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

Y	N	U	N/A
			X

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

Y	N	U
X		

Status: ☒ Y ☐ N ☐ U

**Seismic Walkdown Checklist (SWC)**

Equipment ID No. SOV-1RC-103B Equip. Class **8B. Solenoid Valves**

Equipment Description SOV-RC-103B

**Interaction Effects**

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

Y	N	U	N/A
X			

*Gap between solenoid operator and wall is approximately 2 inches. The lateral restraint provided by the pipe supports is judged to be sufficient to prevent impact between operator and wall.*

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

Y	N	U	N/A
X			

9. Do attached lines have adequate flexibility to avoid damage?

Y	N	U	N/A
X			

*Attached lines identified with adequate flexibility.*

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

Y	N	U
X		

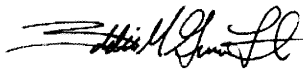
**Other Adverse Conditions**

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

Y	N	U
X		

**Comments** (Additional pages may be added as necessary)

Evaluated by:



Eddie M. Guerra

Date:

10/10/2013



Brian A. Lucarelli

Date:

10/10/2013



Status:   Ⓢ       N       U

**Seismic Walkdown Checklist (SWC)**

Equipment ID No.   SOV-1RC-103B

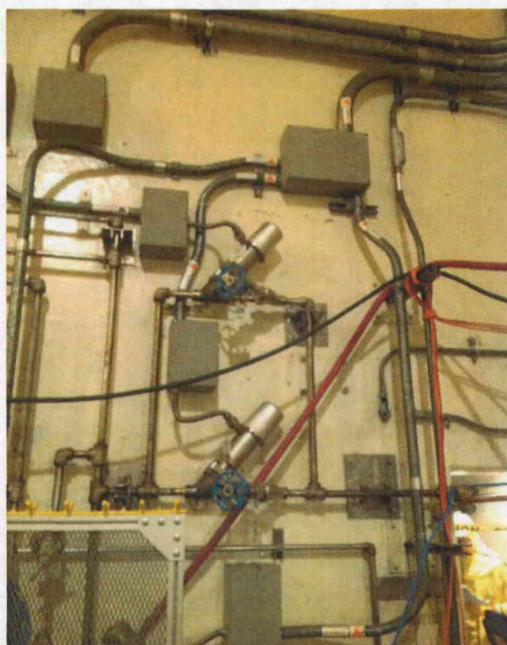
Equip. Class 8B. Solenoid Valves

Equipment Description       SOV-RC-103B

Other supporting or relevant documents and photos (if any):



File Name: 1-68-966.jpg  
Description: View of Component and ID Tag



File Name: 1-67-966.jpg  
Description: General View of Component Area

Status:    ☒    N    U

**Seismic Walkdown Checklist (SWC)**

Equipment ID No. TV-ICC-107A

Equip. Class 7. Pneumatic-Operated Valves

Equipment Description RCP 1A THERM BARR CCR OUT ISOL,TV-CC-107A

Location: Bldg. RCBX Floor El. 718

Manufacturer, Model, Etc. \_\_\_\_\_

**Instructions for Completing Checklist**

This checklist may be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

**Anchorage**

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

*This AOV is about 4ft tall and is in line with a well supported ~2" diameter pipe. It is also laterally supported from adjacent wall.*

Y	N
	X

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

Y	N	U	N/A
			X

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

*Valve found in good condition.*

Y	N	U	N/A
			X

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

Y	N	U	N/A
			X

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

Y	N	U	N/A
			X

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

Y	N	U
X		



Status: ☒ Y ☐ N ☐ U

**Seismic Walkdown Checklist (SWC)**

Equipment ID No. TV-ICC-107A

Equip. Class 7. Pneumatic-Operated Valves

Equipment Description RCP 1A THERM BARR CCR OUT ISOL,TV-CC-107A

**Interaction Effects**

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

Y	N	U	N/A
X			

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

Y	N	U	N/A
X			

9. Do attached lines have adequate flexibility to avoid damage?  
*Attached lines identified with adequate flexibility.*

Y	N	U	N/A
X			

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

Y	N	U
X		

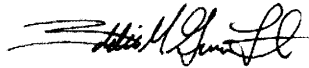
**Other Adverse Conditions**

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

Y	N	U
X		

**Comments** (Additional pages may be added as necessary)

Evaluated by:



Date:

10/10/2013

Eddie M. Guerra



Date:

10/10/2013

Brian A. Lucarelli

Status:   Ⓢ   N   U

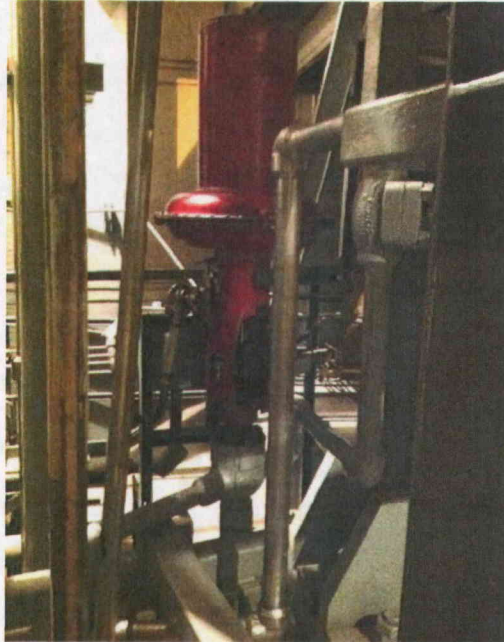
**Seismic Walkdown Checklist (SWC)**

Equipment ID No. TV-1CC-107A

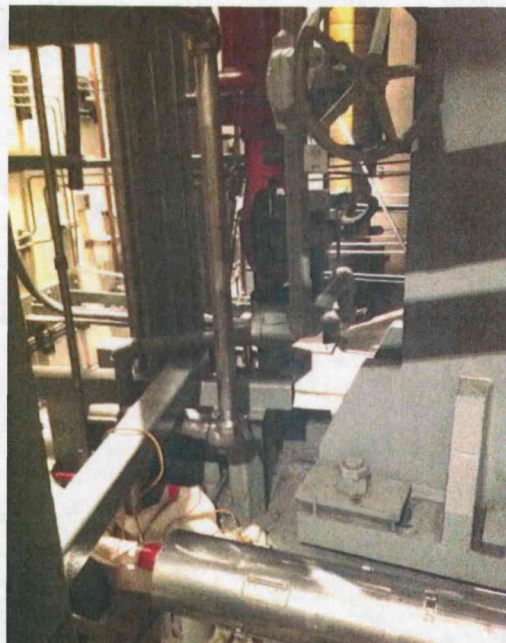
Equip. Class 7. Pneumatic-Operated Valves

Equipment Description RCP 1A THERM BARR CCR OUT ISOL,TV-CC-107A

Other supporting or relevant documents and photos (if any):



File Name: 1-67-902.jpg  
Description: General View of Component



File Name: 1-68-902.jpg  
Description: View of Additional Lateral Support at Valve Base

Status:    ☒    N    U

**Seismic Walkdown Checklist (SWC)**

Equipment ID No. TI-ICC-131C      Equip. Class 19. Temperature sensors

Equipment Description CNMT RECIRC AIR COOLERS INLET LOOP #3

Location: Bldg. RCBX      Floor El. 692

Manufacturer, Model, Etc. \_\_\_\_\_

**Instructions for Completing Checklist**

This checklist may be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

**Anchorage**

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

*Small instrument mounted on insulated pipe ~ 8" diameter. Pipe is observed to be well supported.*

Y	N
	X

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

Y	N	U	N/A
			X

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

Y	N	U	N/A
			X

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

Y	N	U	N/A
			X

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

Y	N	U	N/A
			X

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

Y	N	U
X		

Status:    ☒    N    U

**Seismic Walkdown Checklist (SWC)**

Equipment ID No. TI-ICC-131C

Equip. Class 19. Temperature sensors

Equipment Description CNMT RECIRC AIR COOLERS INLET LOOP #3

**Interaction Effects**

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

*No potential interaction concerns were identified in the area.*

Y	N	U	N/A
X			

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

Y	N	U	N/A
X			

9. Do attached lines have adequate flexibility to avoid damage?

Y	N	U	N/A
X			

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

Y	N	U
X		

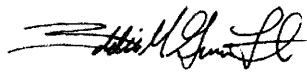
**Other Adverse Conditions**

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

Y	N	U
X		

**Comments** (Additional pages may be added as necessary)

Evaluated by:



Date:

10/10/2013

Eddie M. Guerra



Date:

10/10/2013

Brian A. Lucarelli

Status:    ☒    ☐ N    ☐ U

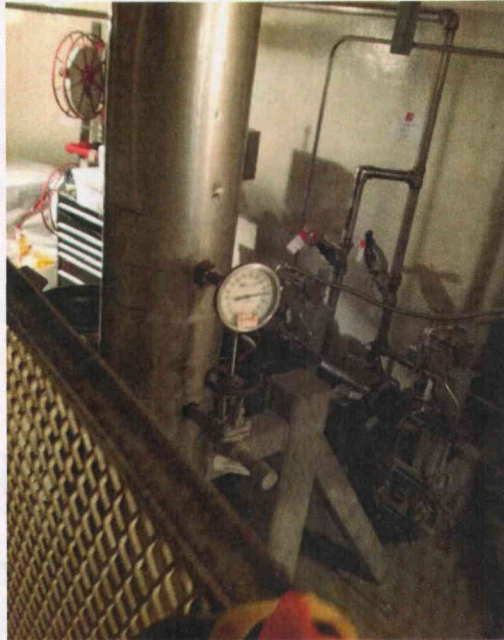
**Seismic Walkdown Checklist (SWC)**

Equipment ID No.    TI-ICC-131C

Equip. Class 19. Temperature sensors

Equipment Description    CNMT RECIRC AIR COOLERS INLET LOOP #3

Other supporting or relevant documents and photos (if any):



File Name: 1-68-859.jpg  
Description: General View of Component

Status:    ☒    N    U

**Seismic Walkdown Checklist (SWC)**

Equipment ID No. PCV-11A-117

Equip. Class 7. Pneumatic-Operated Valves

Equipment Description PRESS CONTROL VALVE PCV-1A-117

Location: Bldg. RCBX Floor El. 767

Manufacturer, Model, Etc. \_\_\_\_\_

**Instructions for Completing Checklist**

This checklist may be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

**Anchorage**

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

*This is a small valve in line with a 1" diameter pipe. Pipe is well supported to the adjacent wall.*

Y	N
	X

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

Y	N	U	N/A
			X

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

*Valve found in good condition.*

Y	N	U	N/A
			X

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

Y	N	U	N/A
			X

5. Is the anchorage configuration consistent with plant documentation?

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

Y	N	U	N/A
			X

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

Y	N	U
X		



Status:    ☒    N    U

**Seismic Walkdown Checklist (SWC)**

Equipment ID No. PCV-11A-117

Equip. Class 7. Pneumatic-Operated Valves

Equipment Description PRESS CONTROL VALVE PCV-1A-117

**Interaction Effects**

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

*Adjacent scaffolding associated with the outage is temporary but well braced and judged not to present an interaction concern.*

Y	N	U	N/A
X			

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

Y	N	U	N/A
X			

9. Do attached lines have adequate flexibility to avoid damage?

Y	N	U	N/A
X			

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

Y	N	U
X		

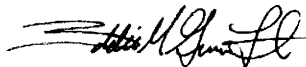
**Other Adverse Conditions**

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

Y	N	U
X		

**Comments** (Additional pages may be added as necessary)

Evaluated by:



Date:

10/10/2013

Eddie M. Guerra



Date:

10/10/2013

Brian A. Lucarelli

Status:   Ⓢ       N       U

**Seismic Walkdown Checklist (SWC)**

Equipment ID No.   PCV-11A-117

Equip. Class 7. Pneumatic-Operated Valves

Equipment Description       PRESS CONTROL VALVE PCV-1A-117

Other supporting or relevant documents and photos (if any):



File Name: 1-68-941.jpg  
Description: General View of Component

Status: ☒ N ☐ U

### Seismic Walkdown Checklist (SWC)

Equipment ID No. PT-1RC-402

Equip. Class 18. Instrument (on) Racks

Equipment Description REACTOR COOLANT WIDE RANGE PRESSURE, PT-RC-402

Location: Bldg. RCBX Floor El. 718

Manufacturer, Model, Etc. \_\_\_\_\_

#### Instructions for Completing Checklist

This checklist may be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

#### Anchorage

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

Y	N
	X

*This is a lightweight instrument mounted on a steel rack. The rack is top braced to the wall by a steel angle and is bolted to the steel platform below via 4-1/2" diameter bolts.*

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

Y	N	U	N/A
X			

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

Y	N	U	N/A
X			

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

Y	N	U	N/A
X			

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

Y	N	U	N/A
			X

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

Y	N	U
X		

Status:    ☒ Y    ☐ N    ☐ U

**Seismic Walkdown Checklist (SWC)**

Equipment ID No. PT-1RC-402

Equip. Class 18. Instrument (on) Racks

Equipment Description REACTOR COOLANT WIDE RANGE PRESSURE, PT-RC-402

**Interaction Effects**

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

*Small plastic container related to outage activities identified adjacent to instrument rack. Potential interaction is judged to be non-damaging, so this is not a seismic/structural concern.*

Y	N	U	N/A
X			

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

Y	N	U	N/A
X			

9. Do attached lines have adequate flexibility to avoid damage?

*Attached lines identified with adequate flexibility.*

Y	N	U	N/A
X			

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

Y	N	U
X		

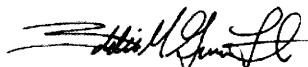
**Other Adverse Conditions**

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

Y	N	U
X		

**Comments** (Additional pages may be added as necessary)

Evaluated by:



Eddie M. Guerra

Date:

10/10/2013



Brian A. Lucarelli

Date:

10/10/2013

Status:   Ⓢ   N   U

**Seismic Walkdown Checklist (SWC)**

Equipment ID No. PT-1RC-402

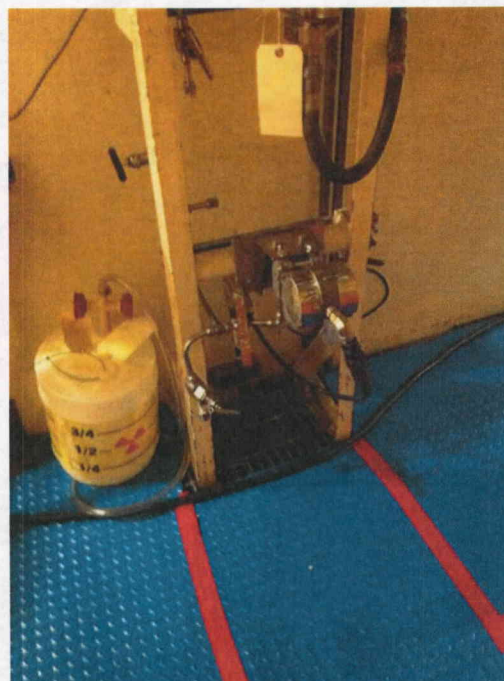
Equip. Class 18. Instrument (on) Racks

Equipment Description      REACTOR COOLANT WIDE RANGE PRESSURE, PT-RC-402

Other supporting or relevant documents and photos (if any):



Description: Component ID



Description: General View of Component



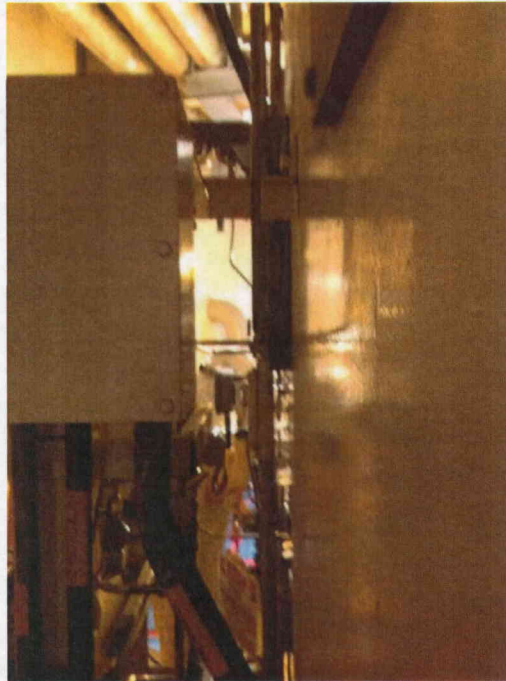
Status:   Ⓢ       N       U

**Seismic Walkdown Checklist (SWC)**

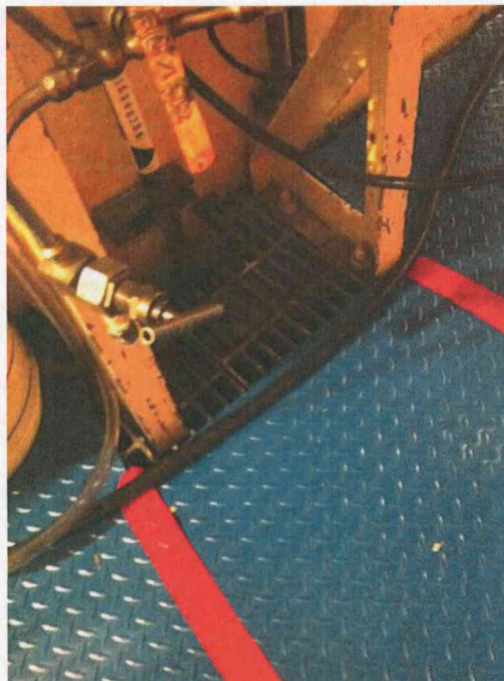
Equipment ID No.   PT-1RC-402

Equip. Class 18. Instrument (on) Racks

Equipment Description       REACTOR COOLANT WIDE RANGE PRESSURE, PT-RC-402



Description: View of Rack Top Brace



Description: View of Rack Base Bolts



Status:   Ⓢ       N       U

**Seismic Walkdown Checklist (SWC)**

Equipment ID No.   PT-1RC-402

Equip. Class 18. Instrument (on) Racks

Equipment Description

REACTOR COOLANT WIDE RANGE PRESSURE, PT-RC-402



Description: View of Component Mounting Configuration

Status: ☒ Y ☐ N ☐ U

### Seismic Walkdown Checklist (SWC)

Equipment ID No. MOV-1CH-310

Equip. Class 8a. Motor-Operated Valves

Equipment Description REGEN HX CHG HDR OUT ISOL, NORMAL CHARGING VALVE MOV-CH-310

Location: Bldg. RCBX Floor El. 692

Manufacturer, Model, Etc. \_\_\_\_\_

#### Instructions for Completing Checklist

This checklist may be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

#### Anchorage

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

Y	N
	X

*The distance from the top of the actuator to the pipe center line is ~3 ft. This MOV has a Limitorque actuator and is laterally supported to an adjacent wall by a steel brace member.*

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

Y	N	U	N/A
			X

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

Y	N	U	N/A
			X

*Valve found in good condition.*

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

Y	N	U	N/A
			X

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

Y	N	U	N/A
			X

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

Y	N	U
X		

Status: ☒ Y ☐ N ☐ U

**Seismic Walkdown Checklist (SWC)**

Equipment ID No. MOV-1CH-310

Equip. Class 8a. Motor-Operated Valves

Equipment Description REGEN HX CHG HDR OUT ISOL, NORMAL CHARGING VALVE MOV-CH-310

**Interaction Effects**

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

Y	N	U	N/A
X			

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

Y	N	U	N/A
X			

9. Do attached lines have adequate flexibility to avoid damage?  
*Attached lines identified with adequate flexibility.*

Y	N	U	N/A
X			

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

Y	N	U
X		

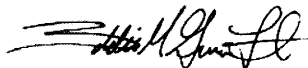
**Other Adverse Conditions**

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

Y	N	U
X		

**Comments** (Additional pages may be added as necessary)

Evaluated by:



Date:

10/10/2013

Eddie M. Guerra



Date:

10/10/2013

Brian A. Lucarelli

Status:    ☒    ☐    ☐

**Seismic Walkdown Checklist (SWC)**

Equipment ID No.    MOV-1CH-310

Equip. Class 8a. Motor-Operated Valves

Equipment Description    REGEN HX CHG HDR OUT ISOL, NORMAL CHARGING VALVE MOV-CH-310

Other supporting or relevant documents and photos (if any):



Description: General View of Component

Status:    ☒    N    U

**Area Walk-By Checklist (AWC)**

Room                      BASEMENT

Floor El.                692                      Bldg.                      RCBX

**Instructions for Completing Checklist**

This checklist may be used to document the results of the Area Walk-By near one or more SWEL items. 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.

1. Does anchorage of equipment in the area appear to be free of potentially adverse seismic conditions (if visible without necessarily opening cabinets)?

Y	N	U	N/A
X			

2. Does anchorage of equipment in the area appear to be free of significant degraded conditions?

Y	N	U	N/A
X			

*Mild surface corrosion identified at base plate of heat exchangers RS-E-1A, RS-E-1B, and RS-E-1C and judged to not be a seismic/structural concern.*

3. Based on a visual inspection from the floor, do the cable/conduit raceways and HVAC ducting appear to be free of potentially adverse seismic conditions (e.g., condition of supports is adequate and fill conditions of cable trays appear to be inside acceptable limits)?

Y	N	U	N/A
X			

4. Does it appear that the area is free of potentially adverse seismic spatial interactions with other equipment in the area (e.g., ceiling tiles and lighting)?

Y	N	U	N/A
X			

Related equipment on SWEL for this area:

RS-P-1A  
TI-1CC-131C  
PT-1RC-403  
RS-E-1D  
MOV-1CH-310



Status:    ☒    N    U

**Area Walk-By Checklist (AWC)**

Room                    BASEMENT  
Floor El.              692              Bldg.              RCBX

**Interaction Effects**

5. Does it appear that the area is free of potentially adverse seismic interactions that could cause flooding or spray in the area?

*No concerns identified regarding flood sources.*

Y	N	U	N/A
X			

6. Does it appear that the area is free of potentially adverse seismic interactions that could cause a fire in the area?

*No concerns identified regarding fire sources.*

Y	N	U	N/A
X			

7. Does it appear that the area is free of potentially adverse seismic interactions associated with housekeeping practices, storage of portable equipment, and temporary installations (e.g., scaffolding, lead shielding)?

*Scaffolding in the area identified to be well braced.*

*Unrestrained drums observed to be temporarily stored in vicinity of IVS-E-1C for outage activities. Any potential interaction is judged to be non-damaging on adjacent piping, therefore this is not a significant interaction.*

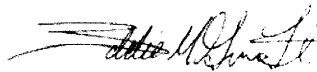
Y	N	U	N/A
X			

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

Y	N	U
X		

**Comments** (Additional pages may be added as necessary)

Evaluated by:



Eddie M. Guerra

Date: 10/10/2013



Brian A. Lucarelli

Date: 10/10/2013

Status:   Ⓢ   N   U

**Area Walk-By Checklist (AWC)**

Room           BASEMENT

Floor El.       692           Bldg.       RCBX

Other supporting or relevant documents and photos (if any):



File Name: 1-71-853.jpg  
Description: General View of Area



File Name: 1-69-853.jpg  
Description: Barrels Judged not a Significant Interaction

Status:    ☒    N    U

**Area Walk-By Checklist (AWC)**

Room                      PRESSURIZER CUBICLE

Floor El.                767                      Bldg.                      RCBX

**Instructions for Completing Checklist**

This checklist may be used to document the results of the Area Walk-By near one or more SWEL items. 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.

1. Does anchorage of equipment in the area appear to be free of potentially adverse seismic conditions (if visible without necessarily opening cabinets)?

Y	N	U	N/A
X			

2. Does anchorage of equipment in the area appear to be free of significant degraded conditions?

Y	N	U	N/A
X			

3. Based on a visual inspection from the floor, do the cable/conduit raceways and HVAC ducting appear to be free of potentially adverse seismic conditions (e.g., condition of supports is adequate and fill conditions of cable trays appear to be inside acceptable limits)?

Y	N	U	N/A
X			

4. Does it appear that the area is free of potentially adverse seismic spatial interactions with other equipment in the area (e.g., ceiling tiles and lighting)?

Y	N	U	N/A
X			

Related equipment on SWEL for this area:

MOV-IRC-535  
PCV-IRC-455D  
SOV-IRC-103B

Status: ☒ Y ☐ N ☐ U

**Area Walk-By Checklist (AWC)**

Room PRESSURIZER CUBICLE

Floor El. 767 Bldg. RCBX

**Interaction Effects**

5. Does it appear that the area is free of potentially adverse seismic interactions that could cause flooding or spray in the area?

*No concerns identified regarding flood sources.*

Y	N	U	N/A
X			

6. Does it appear that the area is free of potentially adverse seismic interactions that could cause a fire in the area?

*No concerns identified regarding fire sources.*

Y	N	U	N/A
X			

7. Does it appear that the area is free of potentially adverse seismic interactions associated with housekeeping practices, storage of portable equipment, and temporary installations (e.g., scaffolding, lead shielding)?

*Several tools and maintenance equipment associated with the outage were identified in the area. These did not present a credible or significant interaction concern since they were not close enough to the components in the area.*

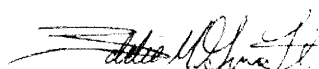
Y	N	U	N/A
X			

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

Y	N	U
X		

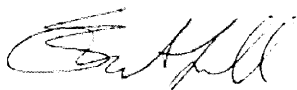
**Comments** (Additional pages may be added as necessary)

Evaluated by:



Eddie M. Guerra

Date: 10/10/2013



Brian A. Lucarelli

Date: 10/10/2013



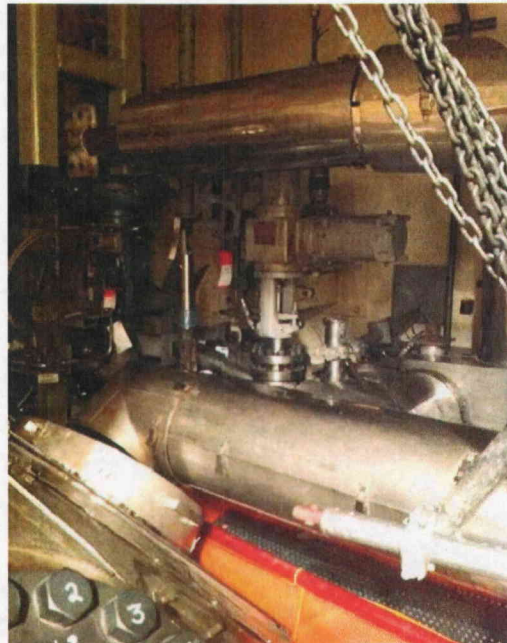
Status:   Ⓢ   N   U

**Area Walk-By Checklist (AWC)**

Room           PRESSURIZER CUBICLE

Floor El.       767           Bldg.       RCBX

Other supporting or relevant documents and photos (if any):



File Name: 1-67-964.jpg  
Description: General View Inside Cubicle



File Name: 1-68-954.jpg  
Description: Temporary Equipment and Platform Not Interaction Concerns



Status:    ☒    N    U

**Area Walk-By Checklist (AWC)**

Room                    PRT CUBICLE

Floor El.            718                    Bldg.            RCBX

**Instructions for Completing Checklist**

This checklist may be used to document the results of the Area Walk-By near one or more SWEL items. 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.

1. Does anchorage of equipment in the area appear to be free of potentially adverse seismic conditions (if visible without necessarily opening cabinets)?

Y	N	U	N/A
X			

2. Does anchorage of equipment in the area appear to be free of significant degraded conditions?

Y	N	U	N/A
X			

3. Based on a visual inspection from the floor, do the cable/conduit raceways and HVAC ducting appear to be free of potentially adverse seismic conditions (e.g., condition of supports is adequate and fill conditions of cable trays appear to be inside acceptable limits)?

Y	N	U	N/A
X			

4. Does it appear that the area is free of potentially adverse seismic spatial interactions with other equipment in the area (e.g., ceiling tiles and lighting)?

Y	N	U	N/A
X			

Related equipment on SWEL for this area:  
RS-E-1D

Status:    ☒    N    U

**Area Walk-By Checklist (AWC)**

Room                      PRT CUBICLE  
Floor El.                718                      Bldg.                      RCBX

**Interaction Effects**

5. Does it appear that the area is free of potentially adverse seismic interactions that could cause flooding or spray in the area?

*No concerns identified regarding flood sources.*

Y	N	U	N/A
X			

6. Does it appear that the area is free of potentially adverse seismic interactions that could cause a fire in the area?

*No concerns identified regarding fire sources.*

Y	N	U	N/A
X			

7. Does it appear that the area is free of potentially adverse seismic interactions associated with housekeeping practices, storage of portable equipment, and temporary installations (e.g., scaffolding, lead shielding)?

*Scaffolding in area identified to be well braced. Temporary equipment associated with the outage is staged in a laydown area away from components and does not pose an interaction concern.*

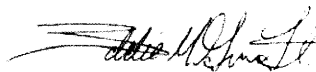
Y	N	U	N/A
X			

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

Y	N	U
X		

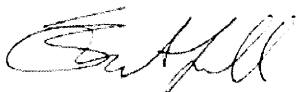
**Comments** (Additional pages may be added as necessary)

Evaluated by:



Eddie M. Guerra

Date:                      10/10/2013



Brian A. Lucarelli

Date:                      10/10/2013

Status:    ☒    ☐ N    ☐ U

**Area Walk-By Checklist (AWC)**

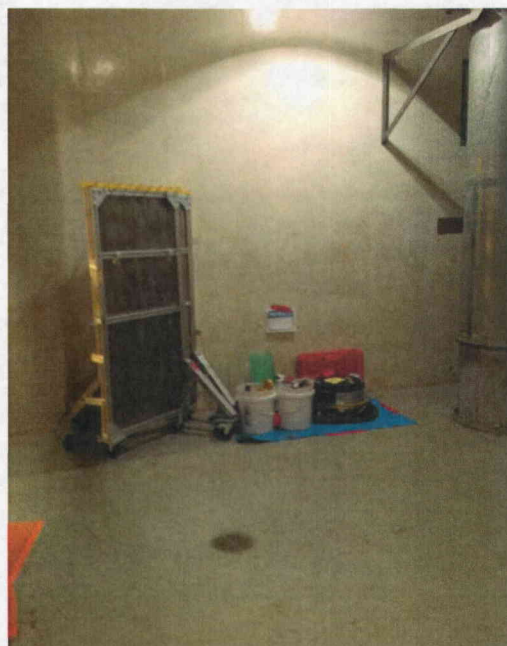
Room                    PRT CUBICLE

Floor El.            718                    Bldg.            RCBX

Other supporting or relevant documents and photos (if any):



File Name: 1-67-976.jpg  
Description: View of Scaffolding in Area



File Name: 1-68-976.jpg  
Description: Laydown Area Away from Components

Status:    ☒    N    U

**Area Walk-By Checklist (AWC)**

Room                    RCBX 767 - OUTSIDE CRANE WALL

Floor El.            767                    Bldg.            RCBX

**Instructions for Completing Checklist**

This checklist may be used to document the results of the Area Walk-By near one or more SWEL items. 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.

1. Does anchorage of equipment in the area appear to be free of potentially adverse seismic conditions (if visible without necessarily opening cabinets)?

Y	N	U	N/A
X			

2. Does anchorage of equipment in the area appear to be free of significant degraded conditions?

Y	N	U	N/A
X			

3. Based on a visual inspection from the floor, do the cable/conduit raceways and HVAC ducting appear to be free of potentially adverse seismic conditions (e.g., condition of supports is adequate and fill conditions of cable trays appear to be inside acceptable limits)?

Y	N	U	N/A
X			

4. Does it appear that the area is free of potentially adverse seismic spatial interactions with other equipment in the area (e.g., ceiling tiles and lighting)?

Y	N	U	N/A
X			

Related equipment on SWEL for this area:

GN-TK-1B

PCV-IIA-117

Status: ☒ Y ☐ N ☐ U

**Area Walk-By Checklist (AWC)**

Room RCBX 767 - OUTSIDE CRANE WALL

Floor El. 767 Bldg. RCBX

**Interaction Effects**

5. Does it appear that the area is free of potentially adverse seismic interactions that could cause flooding or spray in the area?

*No concerns identified regarding flood sources.*

Y	N	U	N/A
X			

6. Does it appear that the area is free of potentially adverse seismic interactions that could cause a fire in the area?

*No concerns identified regarding fire sources.*

Y	N	U	N/A
X			

7. Does it appear that the area is free of potentially adverse seismic interactions associated with housekeeping practices, storage of portable equipment, and temporary installations (e.g., scaffolding, lead shielding)?

*Scaffolding in area identified to be well braced. Various temporary equipment staged in area for outage activities. No significant potential interactions identified, as temporary equipment is generally stored along outside wall while components are located along inside wall.*

Y	N	U	N/A
X			

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

Y	N	U
X		

**Comments** (Additional pages may be added as necessary)

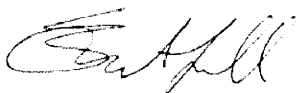
Evaluated by:



Eddie M. Guerra

Date:

10/10/2013



Brian A. Lucarelli

Date:

10/10/2013



Status:    ☒    N    U

**Area Walk-By Checklist (AWC)**

Room                    RCBX 767 - OUTSIDE CRANE WALL

Floor El.            767                    Bldg.                    RCBX

Other supporting or relevant documents and photos (if any):



File Name: 1-67-978.jpg

Description: General View of Area



File Name: 1-68-978.jpg

Description: View of Temporary Equipment Staged for Outage

Status:    ☒    N    U

**Area Walk-By Checklist (AWC)**

Room                    RCBX 718 - OUTSIDE CRANE WALL

Floor El.            718                    Bldg.            RCBX

**Instructions for Completing Checklist**

This checklist may be used to document the results of the Area Walk-By near one or more SWEL items. 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.

1. Does anchorage of equipment in the area appear to be free of potentially adverse seismic conditions (if visible without necessarily opening cabinets)?

Y	N	U	N/A
X			

2. Does anchorage of equipment in the area appear to be free of significant degraded conditions?

Y	N	U	N/A
X			

3. Based on a visual inspection from the floor, do the cable/conduit raceways and HVAC ducting appear to be free of potentially adverse seismic conditions (e.g., condition of supports is adequate and fill conditions of cable trays appear to be inside acceptable limits)?

Y	N	U	N/A
X			

4. Does it appear that the area is free of potentially adverse seismic spatial interactions with other equipment in the area (e.g., ceiling tiles and lighting)?

Y	N	U	N/A
X			

Related equipment on SWEL for this area:

PCV-CC-101

LT-1FW-475

PT-1RC-402

Status:    ☒    ☐    ☐    ☐

**Area Walk-By Checklist (AWC)**

Room                      RCBX 718 - OUTSIDE CRANE WALL

Floor El.                718                      Bldg.                      RCBX

**Interaction Effects**

5. Does it appear that the area is free of potentially adverse seismic interactions that could cause flooding or spray in the area?

*No concerns identified regarding flood sources.*

Y	N	U	N/A
X			

6. Does it appear that the area is free of potentially adverse seismic interactions that could cause a fire in the area?

*No concerns identified regarding fire sources.*

Y	N	U	N/A
X			

7. Does it appear that the area is free of potentially adverse seismic interactions associated with housekeeping practices, storage of portable equipment, and temporary installations (e.g., scaffolding, lead shielding)?

*Temporary scaffolding and equipment for outage activities were identified in the area. No significant potential interactions identified, as temporary equipment is generally stored along outside wall while components are located along inside wall.*

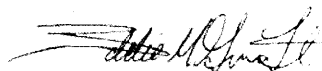
Y	N	U	N/A
X			

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

Y	N	U
X		

**Comments** (Additional pages may be added as necessary)

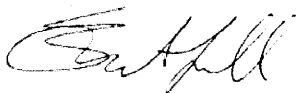
Evaluated by:



Eddie M. Guerra

Date:

10/10/2013



Brian A. Lucarelli

Date:

10/10/2013

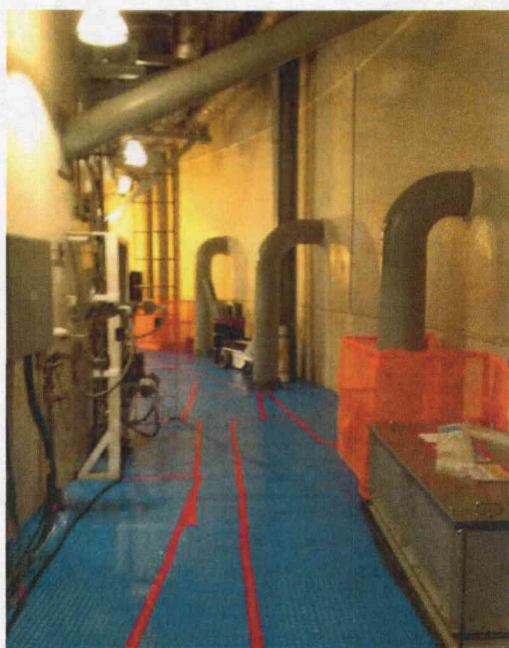
Status:    ☒    ☐ N    ☐ U

**Area Walk-By Checklist (AWC)**

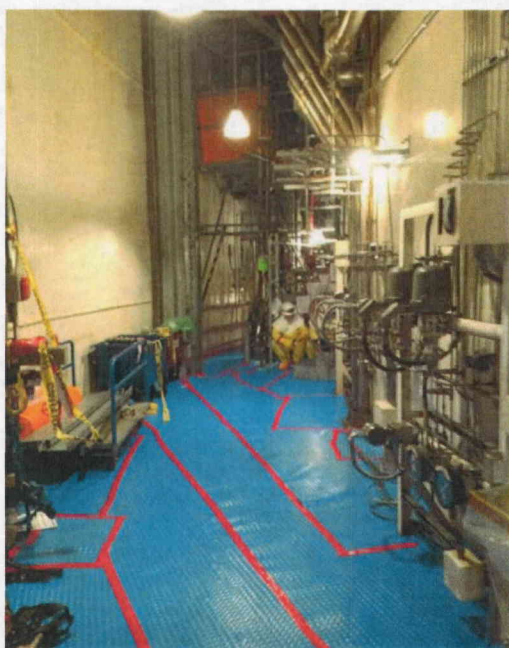
Room                    RCBX 718 - OUTSIDE CRANE WALL

Floor El.            718                    Bldg.                    RCBX

Other supporting or relevant documents and photos (if any):



File Name: 1-67-975.jpg  
Description: General View of Area



File Name: 1-68-975.jpg  
Description: General View of Area



Status:    ☒    N    U

**Area Walk-By Checklist (AWC)**

Room                      RCBX 718 - "A" CUBICLE

Floor El.                718                      Bldg.                      RCBX

**Instructions for Completing Checklist**

This checklist may be used to document the results of the Area Walk-By near one or more SWEL items. 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.

	Y	N	U	N/A
1. Does anchorage of equipment in the area appear to be free of potentially adverse seismic conditions (if visible without necessarily opening cabinets)?	X			

	Y	N	U	N/A
2. Does anchorage of equipment in the area appear to be free of significant degraded conditions?	X			

	Y	N	U	N/A
3. Based on a visual inspection from the floor, do the cable/conduit raceways and HVAC ducting appear to be free of potentially adverse seismic conditions (e.g., condition of supports is adequate and fill conditions of cable trays appear to be inside acceptable limits)?	X			

	Y	N	U	N/A
4. Does it appear that the area is free of potentially adverse seismic spatial interactions with other equipment in the area (e.g., ceiling tiles and lighting)?	X			

Related equipment on SWEL for this area:  
TV-ICC-107A



Status:    ☒    N    U

**Area Walk-By Checklist (AWC)**

Room                      RCBX 718 - "A" CUBICLE

Floor El.                718                      Bldg.                      RCBX

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**Interaction Effects**

5. Does it appear that the area is free of potentially adverse seismic interactions that could cause flooding or spray in the area?

*No concerns identified regarding flood sources.*

Y	N	U	N/A
X			

6. Does it appear that the area is free of potentially adverse seismic interactions that could cause a fire in the area?

*No concerns identified regarding fire sources.*

Y	N	U	N/A
X			

7. Does it appear that the area is free of potentially adverse seismic interactions associated with housekeeping practices, storage of portable equipment, and temporary installations (e.g., scaffolding, lead shielding)?

*Scaffolding in area identified to be well braced.*

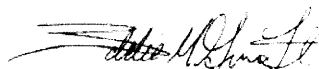
Y	N	U	N/A
X			

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

Y	N	U
X		

**Comments** (Additional pages may be added as necessary)

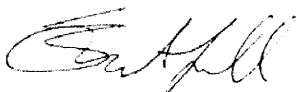
Evaluated by:



Eddie M. Guerra

Date:

10/10/2013



Brian A. Lucarelli

Date:

10/10/2013

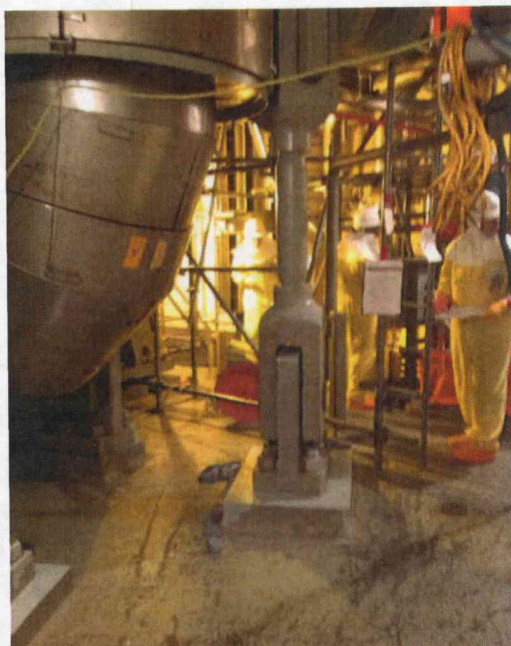
Status:   Ⓢ   N   U

**Area Walk-By Checklist (AWC)**

Room           RCBX 718 - "A" CUBICLE

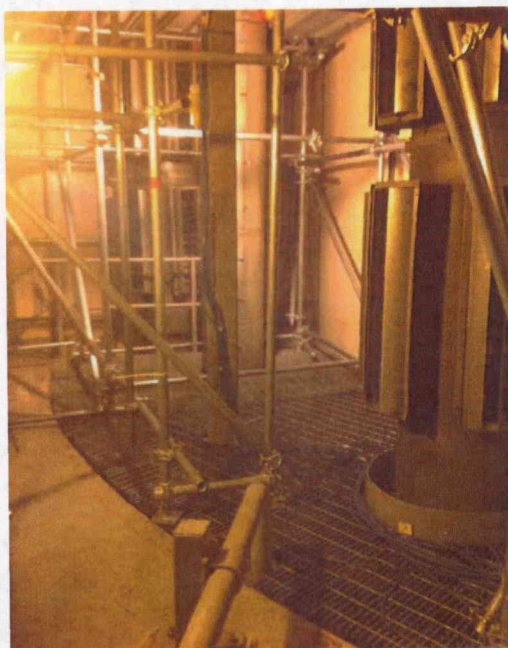
Floor El.       718           Bldg.       RCBX

Other supporting or relevant documents and photos (if any):



File Name: 1-67-977.jpg

Description: General View Inside Cubicle



File Name: 1-68-977.jpg

Description: View of Scaffolding in Area

Status:   Ⓢ       N       U

**Area Walk-By Checklist (AWC)**

Room                   RCBX 718 - "B" CUBICLE

Floor El.           718           Bldg.           RCBX

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**Instructions for Completing Checklist**

This checklist may be used to document the results of the Area Walk-By near one or more SWEL items. 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.

---

1. Does anchorage of equipment in the area appear to be free of potentially adverse seismic conditions (if visible without necessarily opening cabinets)?

Y	N	U	N/A
X			

2. Does anchorage of equipment in the area appear to be free of significant degraded conditions?

Y	N	U	N/A
X			

3. Based on a visual inspection from the floor, do the cable/conduit raceways and HVAC ducting appear to be free of potentially adverse seismic conditions (e.g., condition of supports is adequate and fill conditions of cable trays appear to be inside acceptable limits)?

Y	N	U	N/A
X			

4. Does it appear that the area is free of potentially adverse seismic spatial interactions with other equipment in the area (e.g., ceiling tiles and lighting)?

Y	N	U	N/A
X			

Related equipment on SWEL for this area:  
SI-24

Status:    ☒    N    U

**Area Walk-By Checklist (AWC)**

Room                    RCBX 718 - "B" CUBICLE

Floor El.            718                    Bldg.            RCBX

**Interaction Effects**

5. Does it appear that the area is free of potentially adverse seismic interactions that could cause flooding or spray in the area?

*No concerns identified regarding flood sources.*

Y	N	U	N/A
X			

6. Does it appear that the area is free of potentially adverse seismic interactions that could cause a fire in the area?

*No concerns identified regarding fire sources.*

Y	N	U	N/A
X			

7. Does it appear that the area is free of potentially adverse seismic interactions associated with housekeeping practices, storage of portable equipment, and temporary installations (e.g., scaffolding, lead shielding)?

*Scaffolding in area identified to be well braced. Insulation stored in area identified to be properly restrained.*

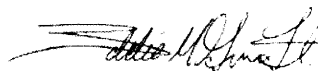
Y	N	U	N/A
X			

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

Y	N	U
X		

**Comments** (Additional pages may be added as necessary)

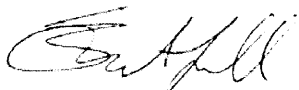
Evaluated by:



Eddie M. Guerra

Date:

10/25/2013



Brian A. Lucarelli

Date:

10/25/2013

Status:   Ⓢ       N       U

**Area Walk-By Checklist (AWC)**

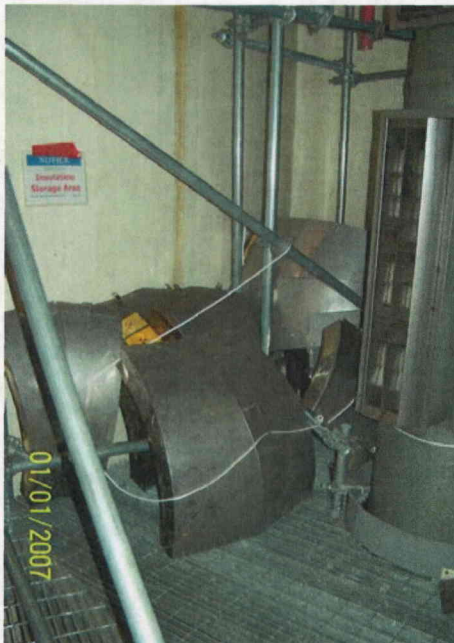
Room               RCBX 718 - "B" CUBICLE

Floor El.       718               Bldg.       RCBX

Other supporting or relevant documents and photos (if any):



File Name: 100\_0435.jpg  
Description: General View Inside Cubicle



File Name: 100\_0437.jpg  
Description: View of Insulation Storage Area



Status:    ☒    N    U

**Area Walk-By Checklist (AWC)**

Room                    RHR PLATFORM

Floor El.            707                    Bldg.                    RCBX

**Instructions for Completing Checklist**

This checklist may be used to document the results of the Area Walk-By near one or more SWEL items. 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.

	Y	N	U	N/A
1. Does anchorage of equipment in the area appear to be free of potentially adverse seismic conditions (if visible without necessarily opening cabinets)?	X			

	Y	N	U	N/A
2. Does anchorage of equipment in the area appear to be free of significant degraded conditions?	X			

	Y	N	U	N/A
3. Based on a visual inspection from the floor, do the cable/conduit raceways and HVAC ducting appear to be free of potentially adverse seismic conditions (e.g., condition of supports is adequate and fill conditions of cable trays appear to be inside acceptable limits)?	X			

	Y	N	U	N/A
4. Does it appear that the area is free of potentially adverse seismic spatial interactions with other equipment in the area (e.g., ceiling tiles and lighting)?	X			

Related equipment on SWEL for this area:  
RH-P-1A

Status:    ☒    N    U

**Area Walk-By Checklist (AWC)**

Room                    RHR PLATFORM

Floor El.            707                    Bldg.            RCBX

**Interaction Effects**

5. Does it appear that the area is free of potentially adverse seismic interactions that could cause flooding or spray in the area?

*No concerns identified regarding flood sources.*

Y	N	U	N/A
X			

6. Does it appear that the area is free of potentially adverse seismic interactions that could cause a fire in the area?

*No concerns identified regarding fire sources.*

Y	N	U	N/A
X			

7. Does it appear that the area is free of potentially adverse seismic interactions associated with housekeeping practices, storage of portable equipment, and temporary installations (e.g., scaffolding, lead shielding)?

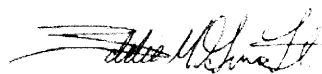
Y	N	U	N/A
X			

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

Y	N	U
X		

**Comments** (Additional pages may be added as necessary)

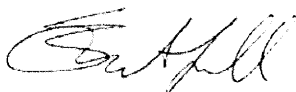
Evaluated by:



Eddie M. Guerra

Date:

10/10/2013



Brian A. Lucarelli

Date:

10/10/2013

Status:   Ⓢ   N   U

**Area Walk-By Checklist (AWC)**

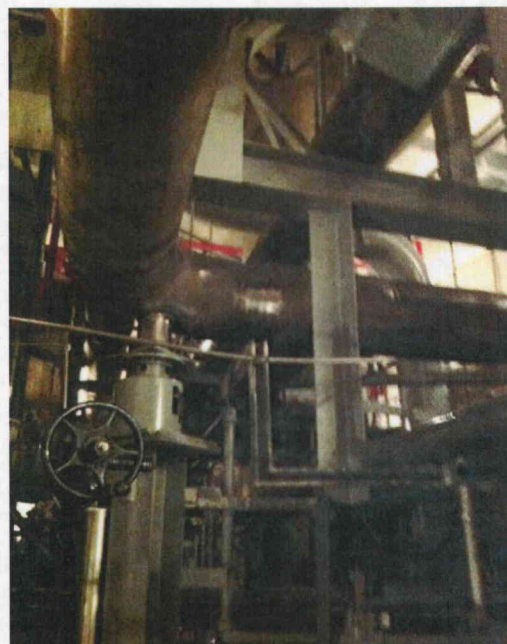
Room           RHR PLATFORM

Floor El.       707           Bldg.       RCBX

Other supporting or relevant documents and photos (if any):



File Name: 1-69-879.jpg  
Description: General View of Heat Exchanger on Platform



File Name: 1-67-880.jpg  
Description: View of Rigidly Supported Piping