

ATTACHMENT 3

WALKDOWN CHECKLISTS

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2RY2Y03A/64/B23

Equipment Class: (16) Inverters

Equipment Description: 2Y03 INVERTER

Project: CCNPP 2 SWEL

Location (Bldg, Elev, Room/Area): AUX, 27.00 ft, CAL-AB-302

Manufacturer/Model: _____

Instructions for Completing Checklist

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

Anchorage

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

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

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

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

 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.) Yes
Anchorage is consistent with drawing 84195 SH0002 Rev. 0.

 6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Yes
Calc C-94-003 verify
-

ATTACHMENT 3
WALKDOWN CHECKLISTS

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2RY2Y03A/64/B23

Equipment Class: (16) Inverters

Equipment Description: 2Y03 INVERTER

Interaction Effects

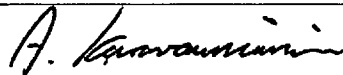
7. Are soft targets free from impact by nearby equipment or structures? Yes
- There is a 3/8" gap to 2K01 and 2Y03
Evaluated using 8 Hz frequency for cabinets
2% Damping Ratio, 1.5 PF
Response Spectrum AB027D2N.dat
A+0.25g
 $D = 0.2 \cdot 386 \cdot 1.5^2 + 0.11" < 3/8" \text{ ok}$
(8x2x3.14)^2*
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Yes
9. Do attached lines have adequate flexibility to avoid damage? Yes
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Yes
-

Other Adverse Conditions

11. Have you looked for and found no adverse seismic conditions that could adversely affect the safety functions of the equipment? No
- Cabinet is inaccessible for internal inspection.*
-

Comments

Evaluated by:



A. Karavoussianis

Date: 11/09/2012



C. Figliolini

11/09/2012

ATTACHMENT 3

WALKDOWN CHECKLISTS

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2RY2Y03A/64/B23

Equipment Class: (16) Inverters

Equipment Description: 2Y03 INVERTER

Photos



2RY2Y03A#64#B23 8-14-12 030



2RY2Y03A#64#B23 8-14-12 031

ATTACHMENT 3
WALKDOWN CHECKLISTS

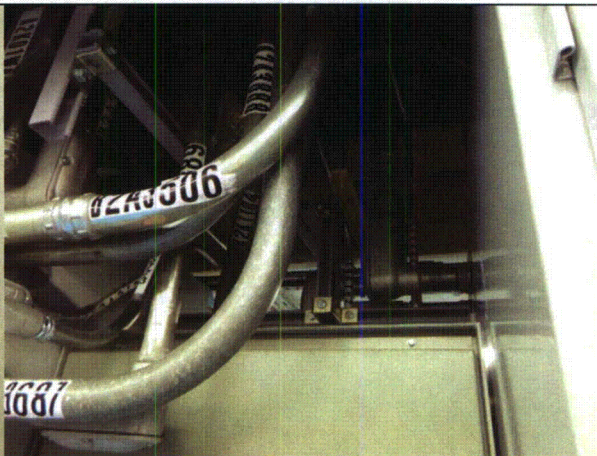
Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2RY2Y03A/64/B23

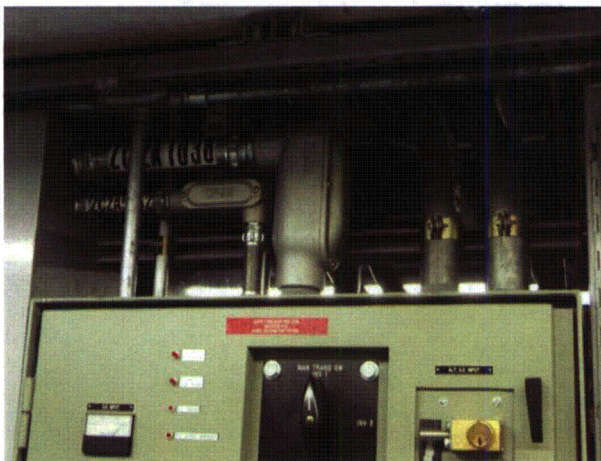
Equipment Class: (16) Inverters

Equipment Description: 2Y03 INVERTER

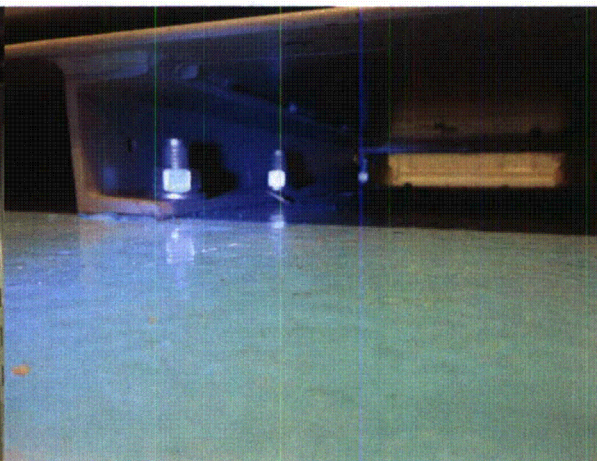


2RY2Y03A#64#B23 8-14-12 033

2RY2Y03A#64#B23 8-14-12 032



2RY2Y03A#64#B23 8-14-12 034



2RY2Y03A#64#B23 8-14-12 035

ATTACHMENT 3
WALKDOWN CHECKLISTS

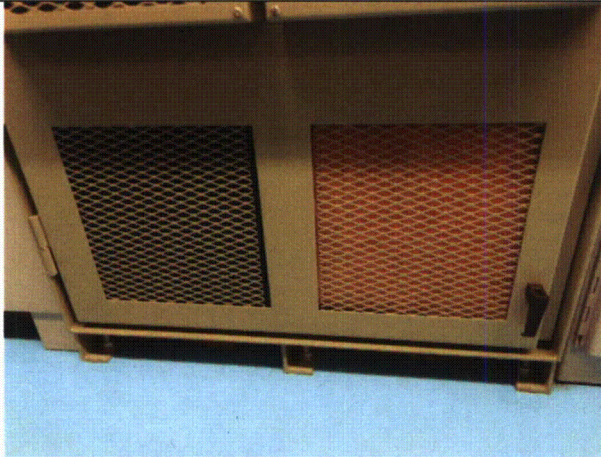
Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2RY2Y03A/64/B23

Equipment Class: (16) Inverters

Equipment Description: 2Y03 INVERTER



2RY2Y03A#64#B23 8-14-12 036

ATTACHMENT 3
WALKDOWN CHECKLISTS

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2RY51G/T21A

Equipment Class: (0) Other

Equipment Description: 480V SERV XFMR U-440-21A GROUND RELAY

Project: CCNPP 2 SWEL

Location (Bldg, Elev, Room/Area): AUX, 27.00 ft, CAL-AB-311

Manufacturer/Model:

Instructions for Completing Checklist

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

Anchorage

1. Is anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Yes
Relay on 2BUS2B01A - anchorage is inaccessible

2. Is the anchorage free of bent, broken, missing or loose hardware? No
Anchorage is inaccessible.

3. Is the anchorage free of corrosion that is more than mild surface oxidation? No
Anchorage is inaccessible.

4. Is the anchorage free of visible cracks in the concrete near the anchors? No
Anchorage is inaccessible.

5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) No
Anchorage is inaccessible.

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? No
Anchorage is inaccessible.

ATTACHMENT 3
WALKDOWN CHECKLISTS

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2RY51G/T21A

Equipment Class: (0) Other

Equipment Description: 480V SERV XFMR U-440-21A GROUND RELAY

Interaction Effects

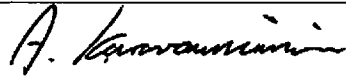
7. Are soft targets free from impact by nearby equipment or structures? Yes
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Yes
9. Do attached lines have adequate flexibility to avoid damage? Yes
10. Based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

Other Adverse Conditions

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

Comments

Evaluated by:



A. Karavoussianis

Date: 11/09/2012



C. Figliolini

11/09/2012

Photos

ATTACHMENT 3
WALKDOWN CHECKLISTS

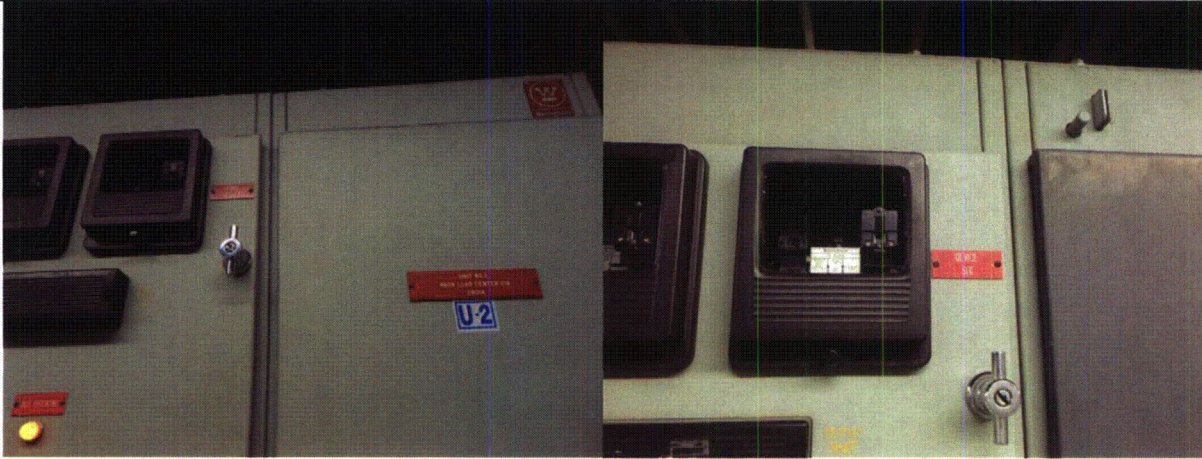
Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2RY51G/T21A

Equipment Class: (0) Other

Equipment Description: 480V SERV XFMR U-440-21A GROUND RELAY



2RY51G#T21A 8-15-12 160

2RY51G#T21A 8-15-12 161

ATTACHMENT 3
WALKDOWN CHECKLISTS

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2RY51G/T21B

Equipment Class: (0) Other

Equipment Description: 480V SERV XFMR U-440-21B GROUND RELAY

Project: CCNPP 2 SWEL

Location (Bldg, Elev, Room/Area): AUX, 27.00 ft, CAL-AB-311

Manufacturer/Model: _____

Instructions for Completing Checklist

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

Anchorage

1. Is anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? No
Relay on 2BUS2B01B - anchorage is inaccessible

2. Is the anchorage free of bent, broken, missing or loose hardware? No
Anchorage is inaccessible.

3. Is the anchorage free of corrosion that is more than mild surface oxidation? No
Anchorage is inaccessible.

4. Is the anchorage free of visible cracks in the concrete near the anchors? No
Anchorage is inaccessible.

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.) Not Applicable

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? No
Anchorage is inaccessible.

ATTACHMENT 3
WALKDOWN CHECKLISTS

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2RY51G/T21B

Equipment Class: (0) Other

Equipment Description: 480V SERV XFMR U-440-21B GROUND RELAY

Interaction Effects

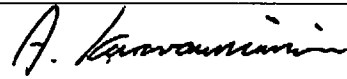
7. Are soft targets free from impact by nearby equipment or structures? Yes
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Yes
9. Do attached lines have adequate flexibility to avoid damage? Yes
10. Based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

Other Adverse Conditions

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

Comments

Evaluated by:



A. Karavoussianis

Date: 11/09/2012



C. Figliolini

11/09/2012

Photos

ATTACHMENT 3
WALKDOWN CHECKLISTS

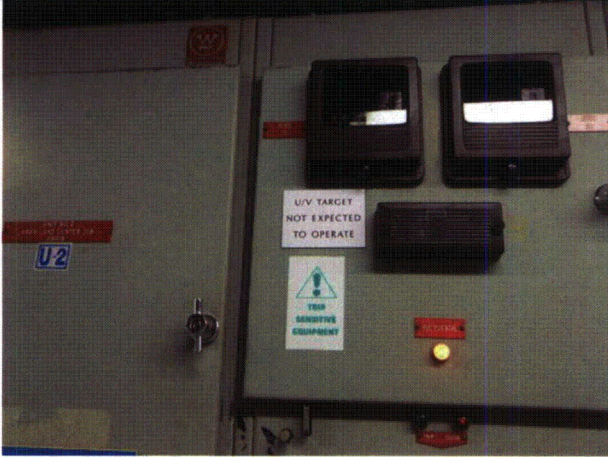
Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2RY51G/T21B

Equipment Class: (0) Other

Equipment Description: 480V SERV XFMR U-440-21B GROUND RELAY



2RY51G#T21B 8-15-12 162

ATTACHMENT 3

WALKDOWN CHECKLISTS

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2RYRPS-K1

Equipment Class: (18) Instruments on Racks

Equipment Description: AUTO RX TRIP K1 RELAY

Project: CCNPP 2 SWEL

Location (Bldg, Elev, Room/Area): AUX, 45.00 ft, CAL-AB-405

Manufacturer/Model: _____

Instructions for Completing Checklist

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

Anchorage

- | | | |
|----|---|-----|
| 1. | Is anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?
<i>Part of the 2C15 alignment of cabinets</i> | Yes |
| 2. | Is the anchorage free of bent, broken, missing or loose hardware? | Yes |
| 3. | Is the anchorage free of corrosion that is more than mild surface oxidation? | Yes |
| 4. | Is the anchorage free of visible cracks in the concrete near the anchors? | Yes |
| 5. | Is the anchorage 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.)
<i>The rear of the cabinet is anchored by a 13/16" F-F CEA through a clip angle, this detail is not shown on the drawing. Need to review A-46 or other anchorage documentation for reconciliation. CR-2012-009775
The SRT was not able to see front anchorage due to cables.</i> | No |
| 6. | Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? | No |
-

ATTACHMENT 3
WALKDOWN CHECKLISTS

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2RYRPS-K1

Equipment Class: (18) Instruments on Racks

Equipment Description: AUTO RX TRIP K1 RELAY

Interaction Effects

7. Are soft targets free from impact by nearby equipment or structures? Yes
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Yes
Observed a drop ceiling and light diffuser ceiling.
10/3/12 - The control room ceiling has been previously evaluated by CCNPP and was determined to not be a credible seismic concern.
Masonry block walls, identified as H and P on drawing A-259, are safety-related and thus seismically rated per IE Bulletin 80-11.
9. Do attached lines have adequate flexibility to avoid damage? Yes
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Yes
-

Other Adverse Conditions

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

Comments

Evaluated by:

A. Karavoussianis

A. Karavoussianis

Date: 11/09/2012

ATTACHMENT 3
WALKDOWN CHECKLISTS

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2RYRPS-K1

Equipment Class: (18) Instruments on Racks

Equipment Description: AUTO RX TRIP K1 RELAY



C. Figliolini

11/09/2012

Photos



2RYRPS-K1 8-14-12 179



2RYRPS-K1 8-14-12 180

ATTACHMENT 3
WALKDOWN CHECKLISTS

Status: Y N U

Seismic Walkdown Checklist (SWC)

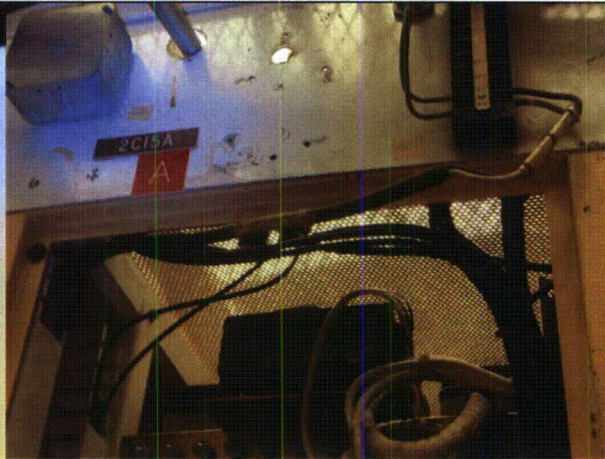
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Equipment Class: (18) Instruments on Racks

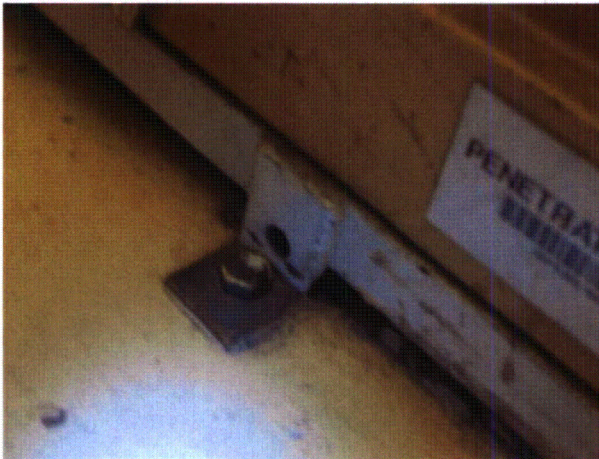
Equipment Description: AUTO RX TRIP K1 RELAY



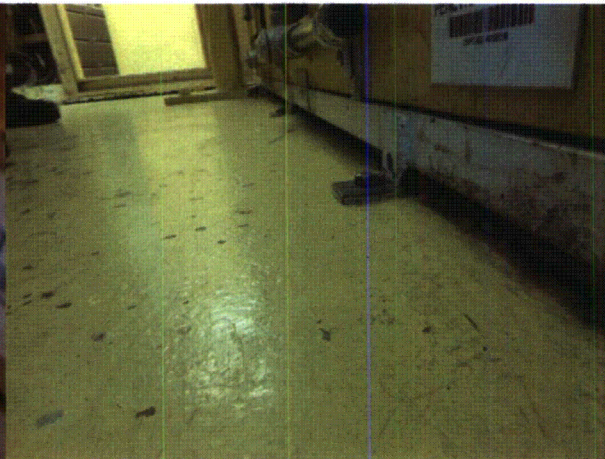
2RYRPS-K1 8-14-12 181



2RYRPS-K1 8-14-12 182



2RYRPS-K1 8-14-12 183



2RYRPS-K1 8-14-12 184

ATTACHMENT 3

WALKDOWN CHECKLISTS

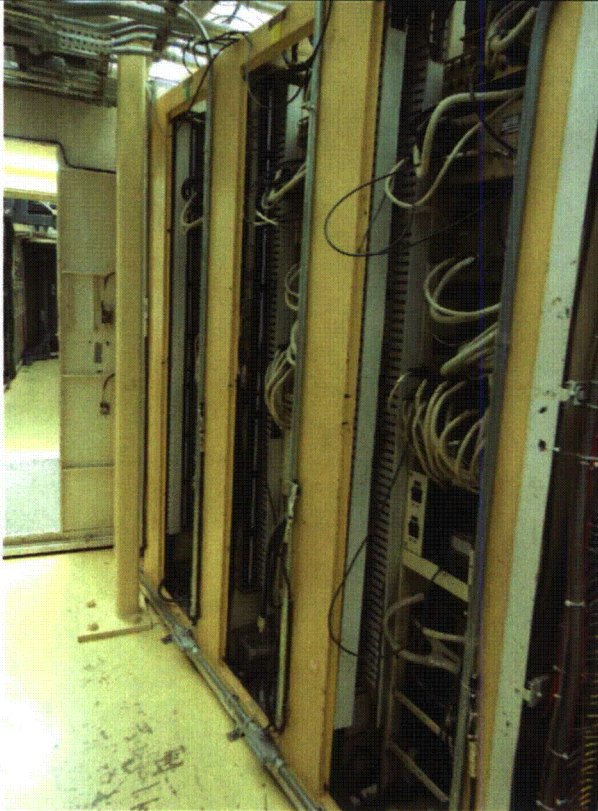
Status: Y N U

Seismic Walkdown Checklist (SWC)

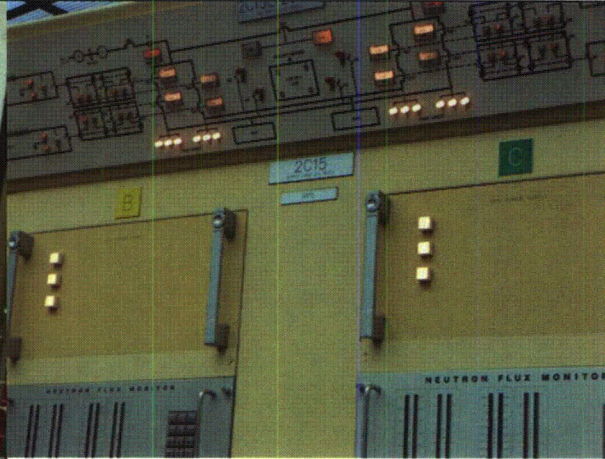
Equipment ID No.: 2RYRPS-K1

Equipment Class: (18) Instruments on Racks

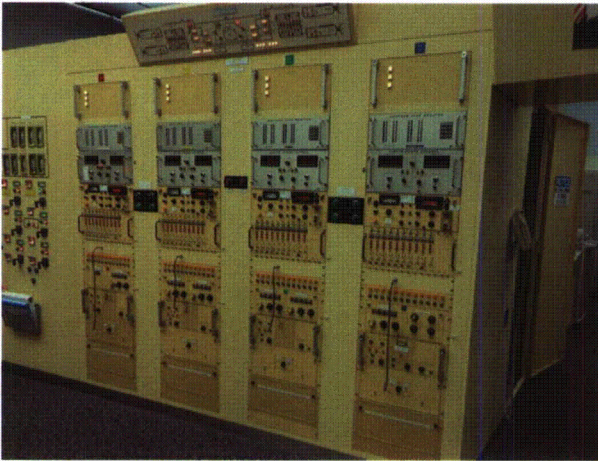
Equipment Description: AUTO RX TRIP K1 RELAY



2RYRPS-K1 8-14-12 185



2RYRPS-K1 8-14-12 186



2RYRPS-K1 8-14-12 187

ATTACHMENT 3
WALKDOWN CHECKLISTS

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2RYRPS-K4

Equipment Class: (18) Instruments on Racks

Equipment Description: AUTO RX TRIP K4 RELAY

Project: CCNPP 2 SWEL

Location (Bldg, Elev, Room/Area): AUX, 45.00 ft, CAL-AB-405

Manufacturer/Model:

Instructions for Completing Checklist

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

Anchorage

- | | |
|--|-----|
| 1. Is anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?
<i>Part of the 2C15 alignment of cabinets</i> | Yes |
| 2. Is the anchorage free of bent, broken, missing or loose hardware? | Yes |
| 3. Is the anchorage free of corrosion that is more than mild surface oxidation? | Yes |
| 4. Is the anchorage free of visible cracks in the concrete near the anchors? | Yes |
| 5. Is the anchorage 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.)
<i>The rear of the cabinet is anchored by a 13/16" F-F CEA through a clip angle, this detail is not shown on the drawing. Need to review A-46 or other anchorage documentation for reconciliation. CR-2012-009775
The SRT was not able to see front anchorage due to cables.</i> | No |
| 6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? | No |
-

ATTACHMENT 3
WALKDOWN CHECKLISTS

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2RYRPS-K4

Equipment Class: (18) Instruments on Racks

Equipment Description: AUTO RX TRIP K4 RELAY

Interaction Effects

7. Are soft targets free from impact by nearby equipment or structures? Yes
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Yes
*Observed a drop ceiling and light diffuser ceiling.
10/3/12 - The control room ceiling has been previously evaluated by CCNPP and was determined to not be a credible seismic concern.*
Masonry block walls, identified as H and P on drawing A-259, are safety-related and thus seismically rated per IE Bulletin 80-11.
9. Do attached lines have adequate flexibility to avoid damage? Yes
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Yes
-

Other Adverse Conditions

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

Comments

Evaluated by:

A. Karavoussianis

A. Karavoussianis

Date: 11/09/2012

ATTACHMENT 3
WALKDOWN CHECKLISTS

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2RYRPS-K4
Equipment Class: (18) Instruments on Racks
Equipment Description: AUTO RX TRIP K4 RELAY



C. Figliolini

11/09/2012

Photos



2RYRPS-K4 8-14-12 179



2RYRPS-K4 8-14-12 180

ATTACHMENT 3
WALKDOWN CHECKLISTS

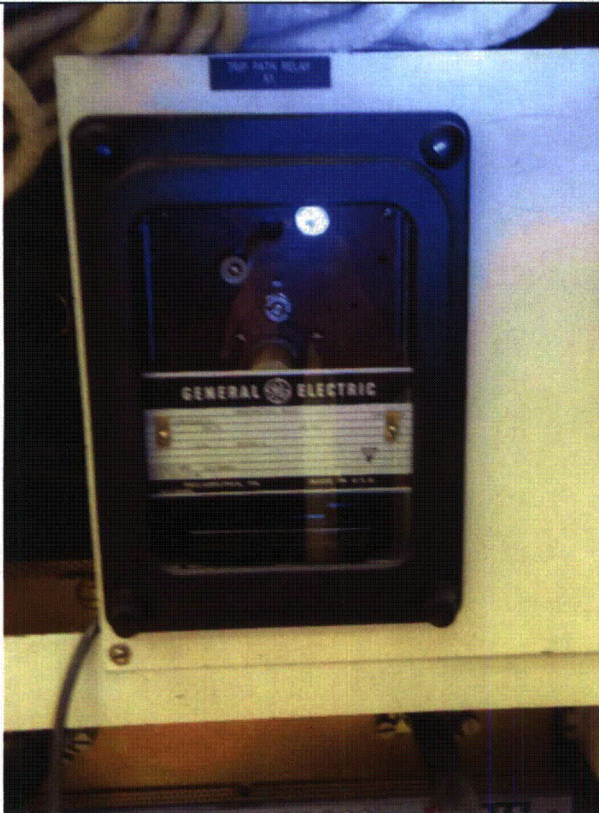
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Seismic Walkdown Checklist (SWC)

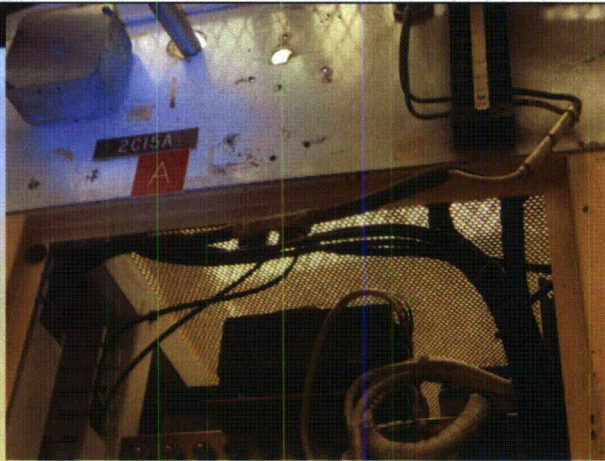
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Equipment Class: (18) Instruments on Racks

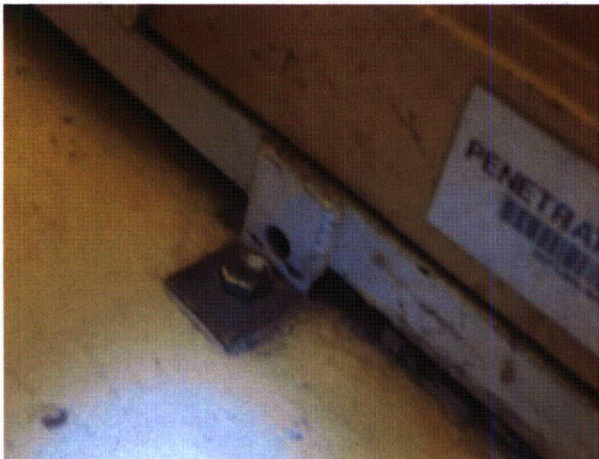
Equipment Description: AUTO RX TRIP K4 RELAY



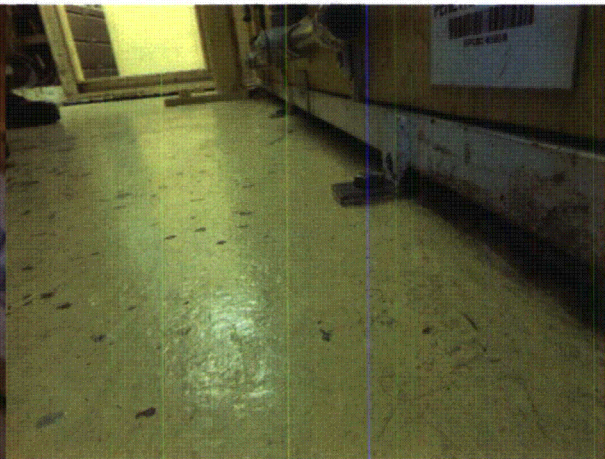
2RYRPS-K4 8-14-12 181



2RYRPS-K4 8-14-12 182



2RYRPS-K4 8-14-12 183



2RYRPS-K4 8-14-12 184

ATTACHMENT 3

WALKDOWN CHECKLISTS

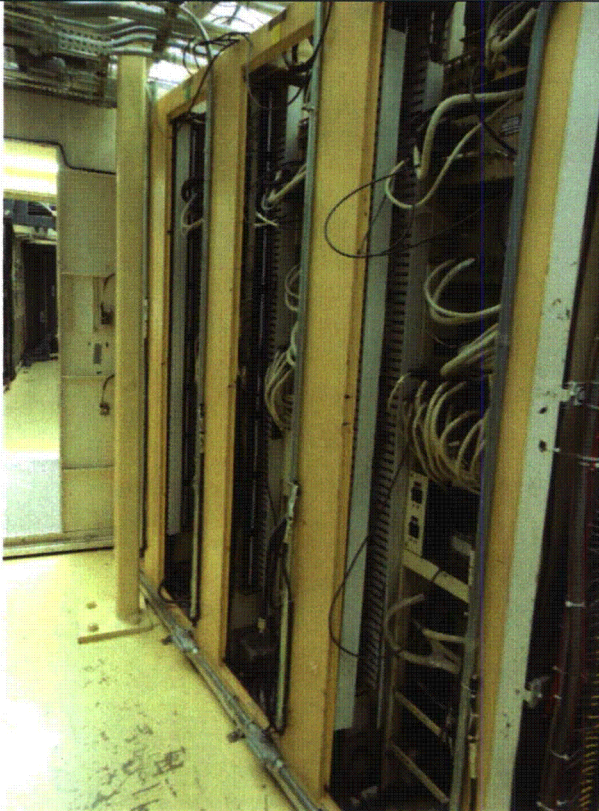
Status: Y N U

Seismic Walkdown Checklist (SWC)

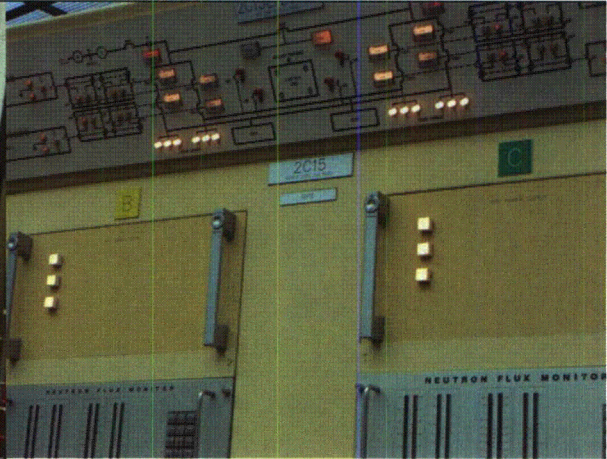
Equipment ID No.: 2RYRPS-K4

Equipment Class: (18) Instruments on Racks

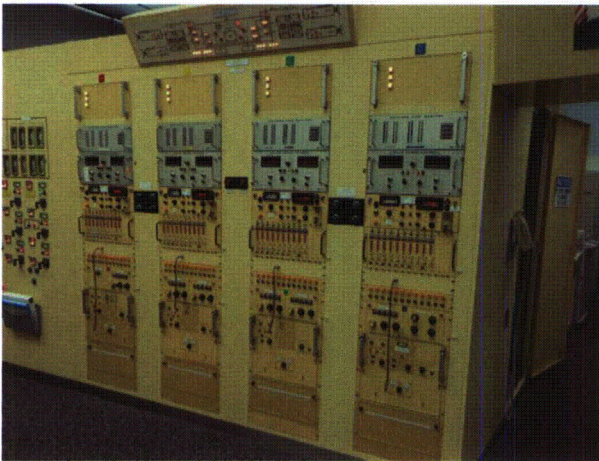
Equipment Description: AUTO RX TRIP K4 RELAY



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2RYRPS-K4 8-14-12 186



2RYRPS-K4 8-14-12 187

ATTACHMENT 3
WALKDOWN CHECKLISTS

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2SV3986

Equipment Class: (8) Motor-Operated and Solenoid-Operated Valves

Equipment Description: AUX FEED PMP TURBINE 21 TRIP

Project: CCNPP 2 SWEL

Location (Bldg, Elev, Room/Area): TURB, 12.00 ft, CAL-AFWPR-605

Manufacturer/Model: _____

Instructions for Completing Checklist

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

Anchorage

1. Is anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? No

2. Is the anchorage free of bent, broken, missing or loose hardware? Not Applicable

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Not Applicable

4. Is the anchorage free of visible cracks in the concrete near the anchors? Not Applicable

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.) Not Applicable

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

ATTACHMENT 3
WALKDOWN CHECKLISTS

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2SV3986

Equipment Class: (8) Motor-Operated and Solenoid-Operated Valves

Equipment Description: AUX FEED PMP TURBINE 21 TRIP

Interaction Effects

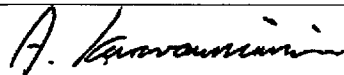
7. Are soft targets free from impact by nearby equipment or structures? Yes
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Yes
Light, if not 2/1, may fall and strike equipment.
10/3/12 - Overhead lights were deemed not a credible seismic concern due to their lightweight and to typical construction practices. Also, they have been previously evaluated by CCNPP and found seismically acceptable.
- Observed SV enclosure is in contact with the insulation pad, judged not a seismic concern.*
9. Do attached lines have adequate flexibility to avoid damage? Yes
Flex conduit judged to have adequate flexibility.
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Yes
-

Other Adverse Conditions

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

Comments

Evaluated by:



A. Karavoussianis

Date: 11/09/2012



C. Figliolini

11/09/2012

ATTACHMENT 3
WALKDOWN CHECKLISTS

Status: Y N U

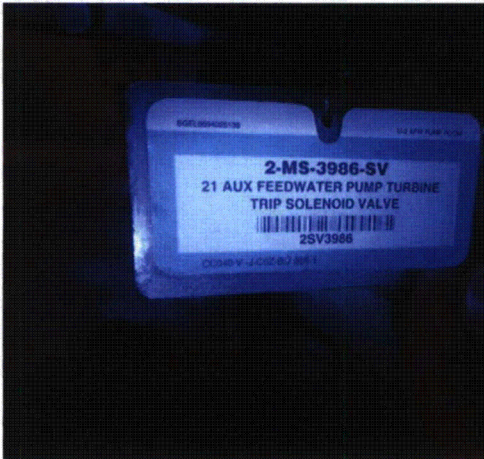
Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2SV3986

Equipment Class: (8) Motor-Operated and Solenoid-Operated Valves

Equipment Description: AUX FEED PMP TURBINE 21 TRIP

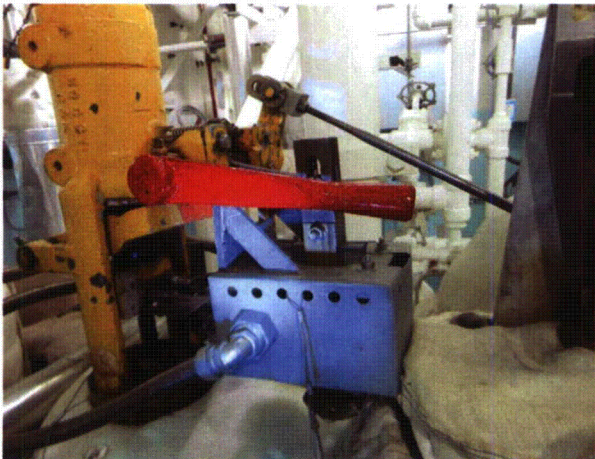
Photos



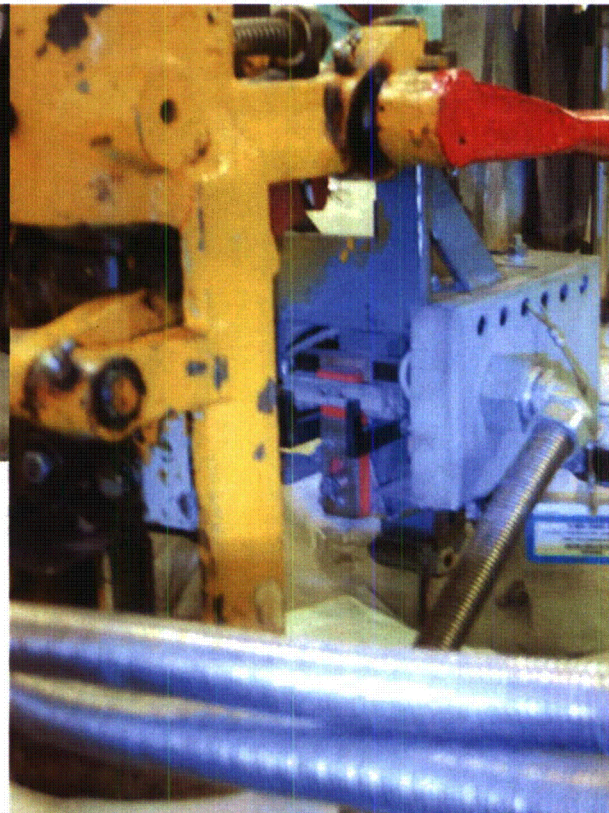
2SV3986 8-10-12 053



2SV3986 8-10-12 054



2SV3986 8-10-12 055



ATTACHMENT 3
WALKDOWN CHECKLISTS

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2SV3986

Equipment Class: (8) Motor-Operated and Solenoid-Operated Valves

Equipment Description: AUX FEED PMP TURBINE 21 TRIP

2SV3986 8-10-12 056



2SV3986 8-10-12 057

ATTACHMENT 3
WALKDOWN CHECKLISTS

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2SV5149

Equipment Class: (8) Motor-Operated and Solenoid-Operated Valves

Equipment Description: SALT WTR EMERG OUT

Project: CCNPP 2 SWEL

Location (Bldg, Elev, Room/Area): Intake, -7.00 ft, CAL-ISPR-INT2

Manufacturer/Model: _____

Instructions for Completing Checklist

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

Anchorage

- | | |
|--|----------------|
| 1. Is anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?
<i>Solenoid on 2CV5149.</i> | No |
| 2. Is the anchorage free of bent, broken, missing or loose hardware? | Not Applicable |
| 3. Is the anchorage free of corrosion that is more than mild surface oxidation? | Not Applicable |
| 4. Is the anchorage free of visible cracks in the concrete near the anchors? | Not Applicable |
| 5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) | Not Applicable |
| 6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? | Yes |

ATTACHMENT 3
WALKDOWN CHECKLISTS

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2SV5149

Equipment Class: (8) Motor-Operated and Solenoid-Operated Valves

Equipment Description: SALT WTR EMERG OUT

Interaction Effects

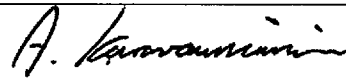
- | | |
|---|-----|
| 7. Are soft targets free from impact by nearby equipment or structures? | Yes |
| | |
| 8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? | Yes |
| | |
| 9. Do attached lines have adequate flexibility to avoid damage? | Yes |
| | |
| 10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? | Yes |
-

Other Adverse Conditions

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

Comments

Evaluated by:



A. Karavoussianis

Date: 11/09/2012



C. Figliolini

11/09/2012

Photos

ATTACHMENT 3
WALKDOWN CHECKLISTS

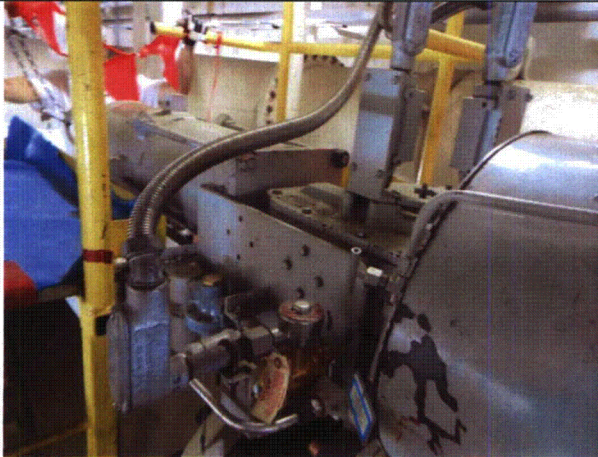
Status: Y N U

Seismic Walkdown Checklist (SWC)

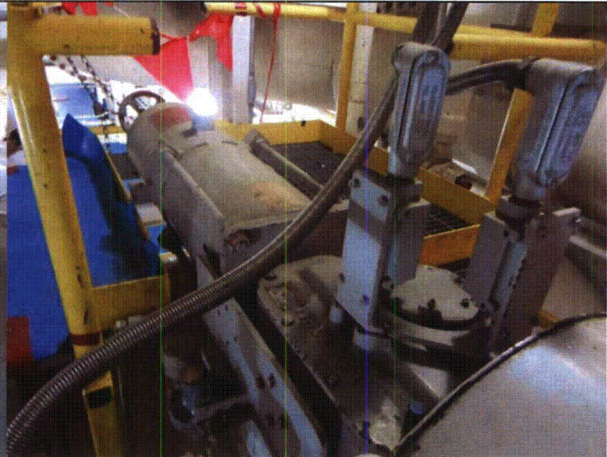
Equipment ID No.: 2SV5149

Equipment Class: (8) Motor-Operated and Solenoid-Operated Valves

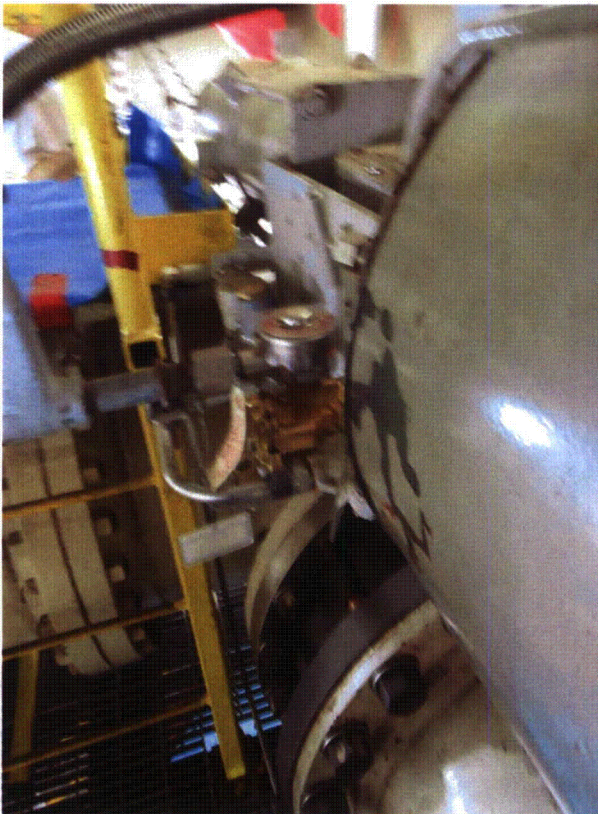
Equipment Description: SALT WTR EMERG OUT



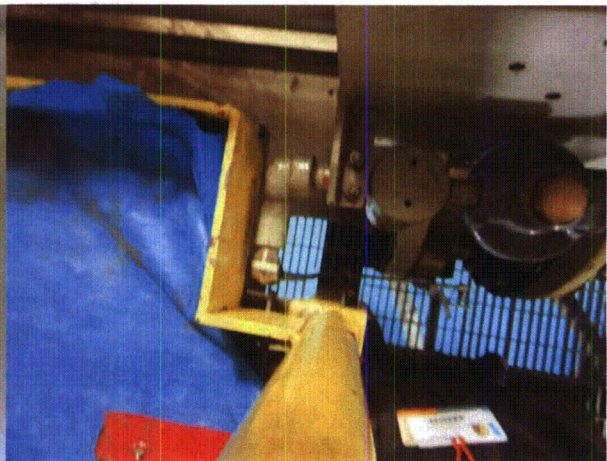
2SV5149 8-16-12 162



2SV5149 8-16-12 163



2SV5149 8-16-12 164



2SV5149 8-16-12 165

ATTACHMENT 3
WALKDOWN CHECKLISTS

Status: Y N U

Seismic Walkdown Checklist (SWC)

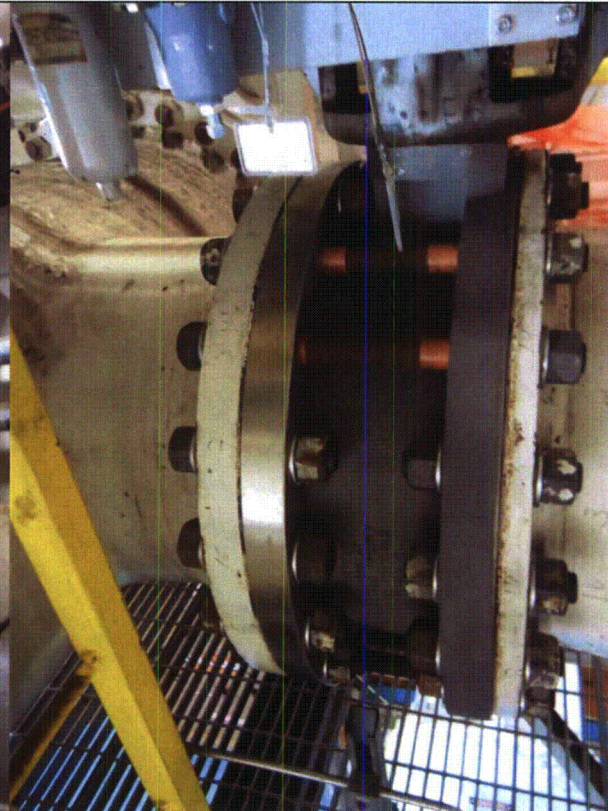
Equipment ID No.: 2SV5149

Equipment Class: (8) Motor-Operated and Solenoid-Operated Valves

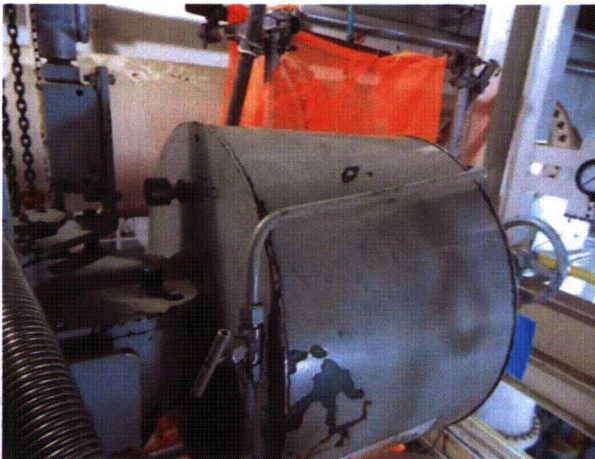
Equipment Description: SALT WTR EMERG OUT



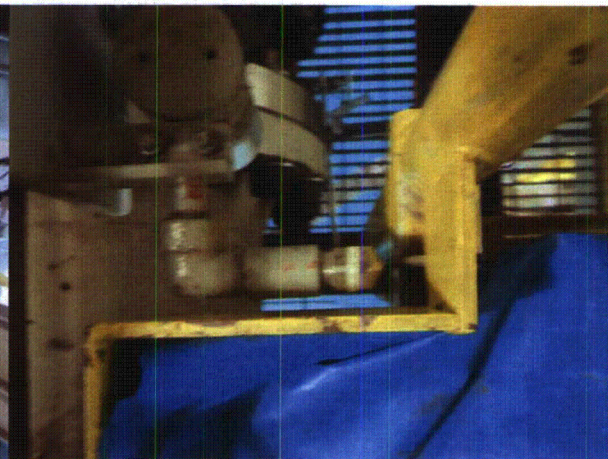
2SV5149 8-16-12 166



2SV5149 8-16-12 167



2SV5149 8-16-12 168



2SV5149 8-16-12 169

ATTACHMENT 3

WALKDOWN CHECKLISTS

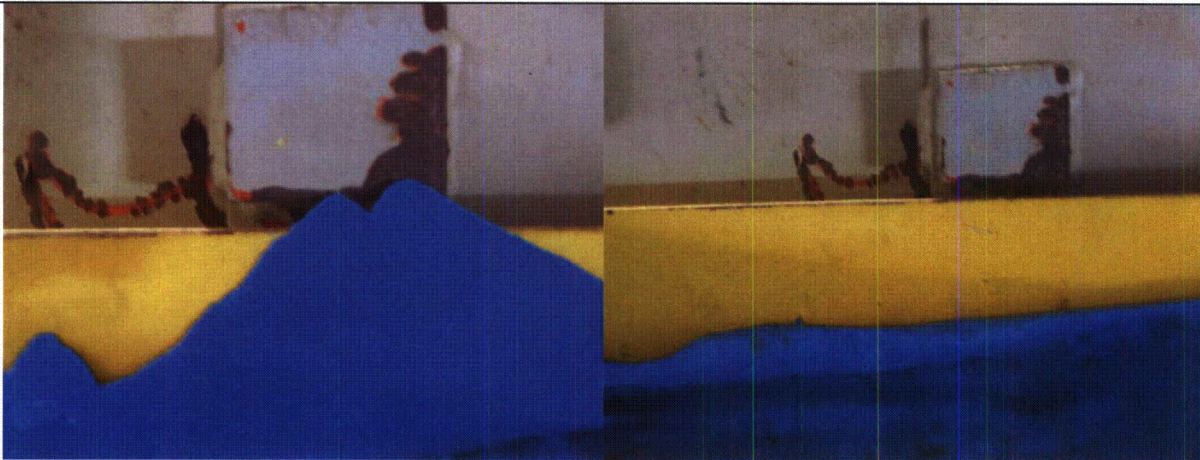
Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2SV5149

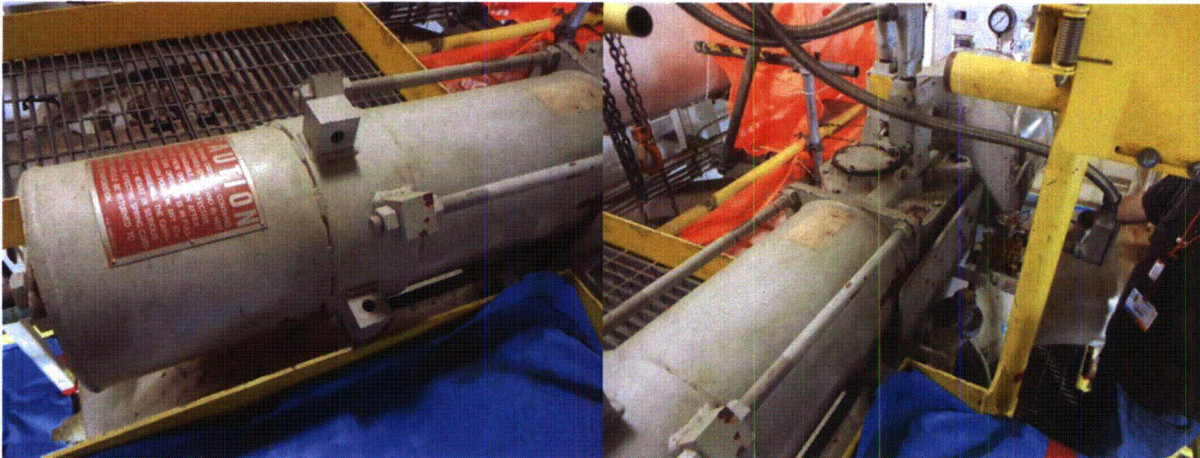
Equipment Class: (8) Motor-Operated and Solenoid-Operated Valves

Equipment Description: SALT WTR EMERG OUT



2SV5149 8-16-12 170

2SV5149 8-16-12 172



2SV5149 8-16-12 173

2SV5149 8-16-12 174

ATTACHMENT 3
WALKDOWN CHECKLISTS

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2SV5313A

Equipment Class: (8) Motor-Operated and Solenoid-Operated Valves

Equipment Description: CNTMT PRESS XMITTERS CHAN A

Project: CCNPP 2 SWEL

Location (Bldg, Elev, Room/Area): AUX, 45.00 ft, CAL-AB-409

Manufacturer/Model: _____

Instructions for Completing Checklist

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

Anchorage

1. Is anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? No

2. Is the anchorage free of bent, broken, missing or loose hardware? Not Applicable

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Not Applicable

4. Is the anchorage free of visible cracks in the concrete near the anchors? Not Applicable

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.) Not Applicable

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

ATTACHMENT 3
WALKDOWN CHECKLISTS

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2SV5313A

Equipment Class: (8) Motor-Operated and Solenoid-Operated Valves

Equipment Description: CNTMT PRESS XMITTERS CHAN A

Interaction Effects

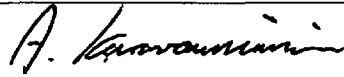
7. Are soft targets free from impact by nearby equipment or structures? Yes
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Yes
Observed a drain piping system with Victaulic coupling directly above SV. Drain piping is normally empty and therefore judged not to be a credible hazard.
9. Do attached lines have adequate flexibility to avoid damage? No
Pipe line heading into containment is resting on an angle iron stanchion approximately 1' from the outside wall, but not supported. CR-2012-009626.
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Yes
-

Other Adverse Conditions

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

Comments

Evaluated by:



A. Karavoussianis

Date: 11/09/2012



C. Figliolini

11/09/2012

Photos

ATTACHMENT 3

WALKDOWN CHECKLISTS

Status: Y N U

Seismic Walkdown Checklist (SWC)

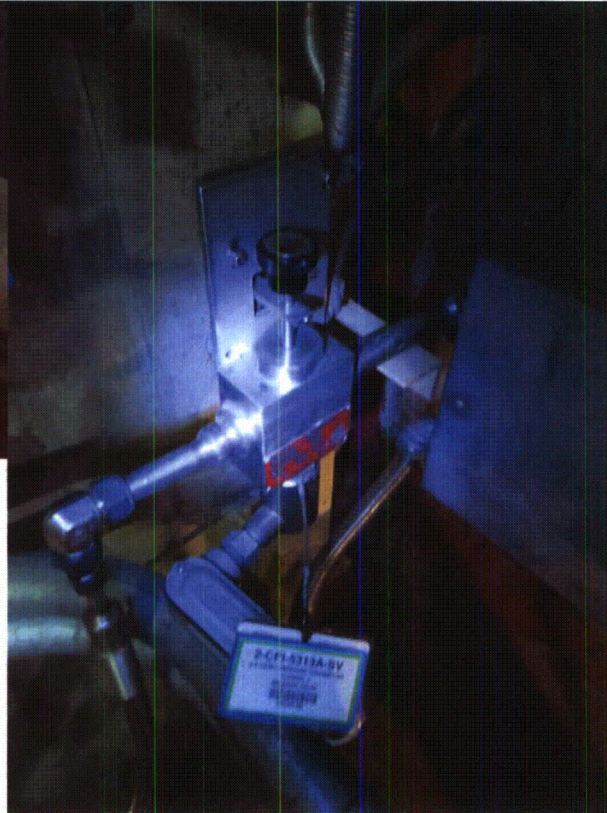
Equipment ID No.: 2SV5313A

Equipment Class: (8) Motor-Operated and Solenoid-Operated Valves

Equipment Description: CNTMT PRESS XMITTERS CHAN A



2SV5313A 8-7-12 048



2SV5313A 8-7-12 050

ATTACHMENT 3
WALKDOWN CHECKLISTS

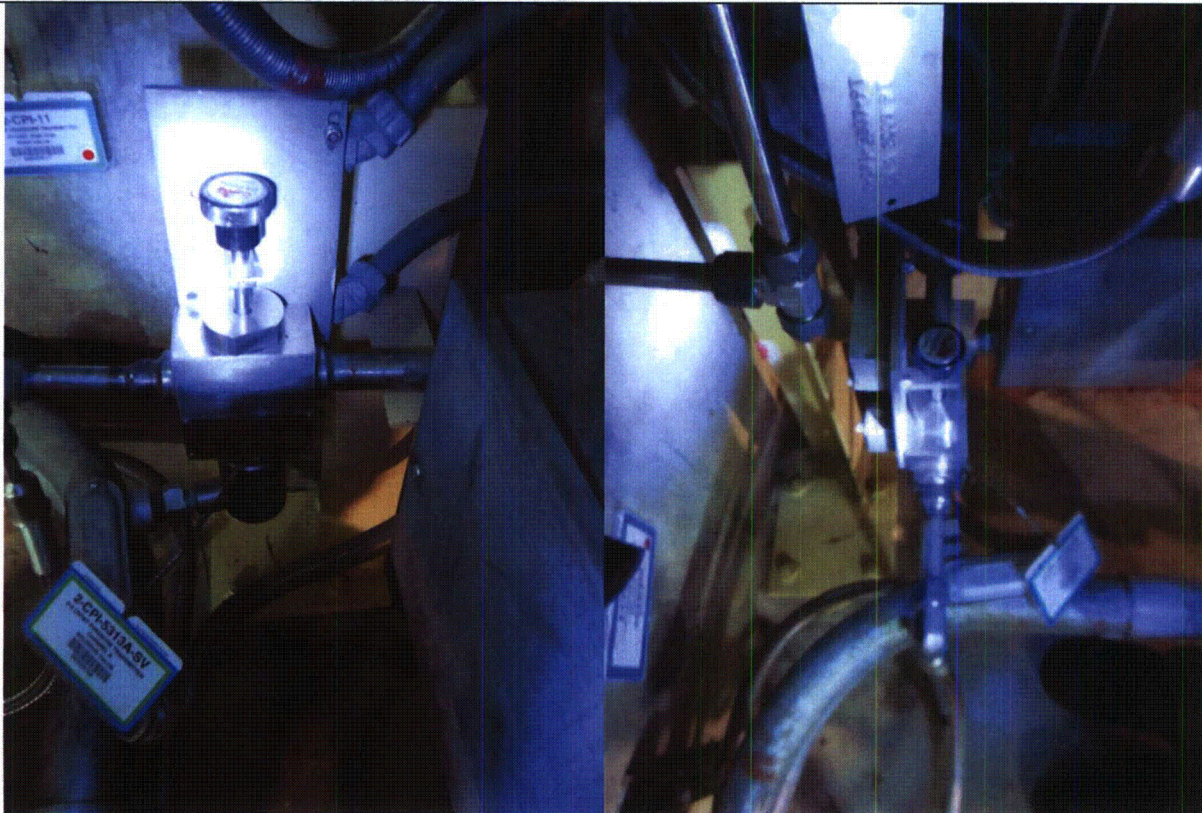
Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2SV5313A

Equipment Class: (8) Motor-Operated and Solenoid-Operated Valves

Equipment Description: CNTMT PRESS XMITTERS CHAN A



2SV5313A 8-7-12 051

2SV5313A 8-7-12 052

ATTACHMENT 3
WALKDOWN CHECKLISTS

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2SV5313A

Equipment Class: (8) Motor-Operated and Solenoid-Operated Valves

Equipment Description: CNTMT PRESS XMITTERS CHAN A



2SV5313A 8-7-12 053

ATTACHMENT 3
WALKDOWN CHECKLISTS

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2TCV5426-1

Equipment Class: (0) Other

Equipment Description: 21 SWGR HVAC CKT1 THERMAL EXPANSION VALVE

Project: CCNPP 2 SWEL

Location (Bldg, Elev, Room/Area): AUX, 70.00 ft, CAL-AB-526

Manufacturer/Model: _____

Instructions for Completing Checklist

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

Anchorage

1. Is anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? No

2. Is the anchorage free of bent, broken, missing or loose hardware? Not Applicable

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Not Applicable

4. Is the anchorage free of visible cracks in the concrete near the anchors? Not Applicable

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.) Not Applicable

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

ATTACHMENT 3
WALKDOWN CHECKLISTS

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2TCV5426-1

Equipment Class: (0) Other

Equipment Description: 21 SWGR HVAC CKT1 THERMAL EXPANSION VALVE

Interaction Effects

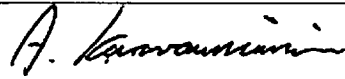
7. Are soft targets free from impact by nearby equipment or structures? Yes
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?
There is a seismic scaffold nearby, not a seismic concern. Yes
9. Do attached lines have adequate flexibility to avoid damage? Yes
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Yes
-

Other Adverse Conditions

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

Comments

Evaluated by:



A. Karavoussianis

Date: 11/09/2012



C. Figliolini

11/09/2012

Photos

ATTACHMENT 3
WALKDOWN CHECKLISTS

Status: Y N U

Seismic Walkdown Checklist (SWC)

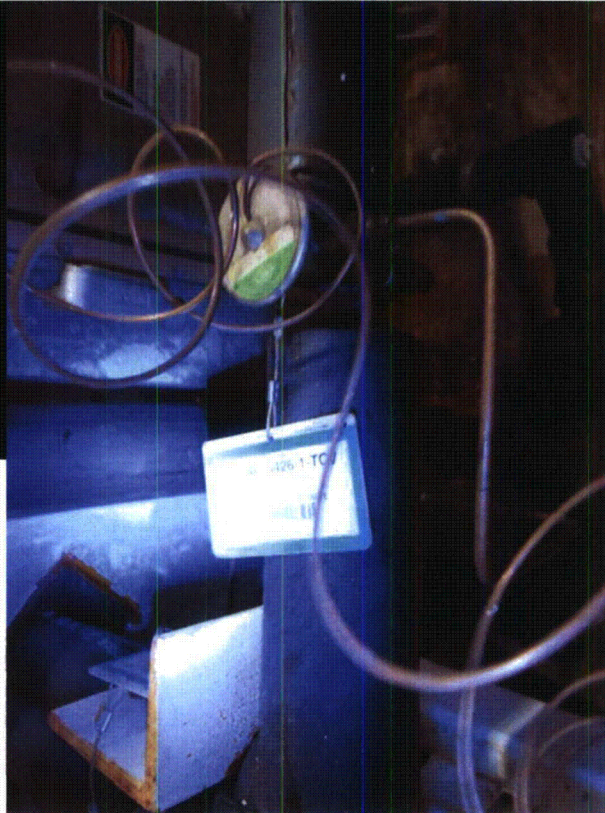
Equipment ID No.: 2TCV5426-1

Equipment Class: (0) Other

Equipment Description: 21 SWGR HVAC CKT1 THERMAL EXPANSION VALVE



2TCV5426-1 8-9-12 178



2TCV5426-1 8-9-12 180

ATTACHMENT 3
WALKDOWN CHECKLISTS

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2TCV5426-1

Equipment Class: (0) Other

Equipment Description: 21 SWGR HVAC CKT1 THERMAL EXPANSION VALVE



2TCV5426-1 8-9-12 181

ATTACHMENT 3
WALKDOWN CHECKLISTS

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2TK4780

Equipment Class: (21) Tanks and Heat Exchangers

Equipment Description: 2A DG LUBE OIL DAY TANK

Project: CCNPP 2 SWEL

Location (Bldg, Elev, Room/Area): AUX, 45.00 ft, CAL-AB-422

Manufacturer/Model: _____

Instructions for Completing Checklist

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

Anchorage

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

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

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

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

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.) Yes
Anchorage is consistent with drawings 61988 and 12310-0056.

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

ATTACHMENT 3
WALKDOWN CHECKLISTS

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2TK4780

Equipment Class: (21) Tanks and Heat Exchangers

Equipment Description: 2A DG LUBE OIL DAY TANK

Interaction Effects

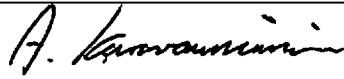
7. Are soft targets free from impact by nearby equipment or structures? Yes
Masonry block wall, identified as A24 on drawing A-259, is safety-related and thus seismically rated per IE Bulletin 80-11.
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Yes
9. Do attached lines have adequate flexibility to avoid damage? Yes
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Yes
-

Other Adverse Conditions

11. Have you looked for and found no adverse seismic conditions that could adversely affect the safety functions of the equipment? Yes
There is piping between support steel and grating. However, negligible differential motion expected therefore judged not a seismic concern.
-

Comments

Evaluated by:



A. Karavoussianis

Date: 11/09/2012



C. Figliolini

11/09/2012

Photos

ATTACHMENT 3
WALKDOWN CHECKLISTS

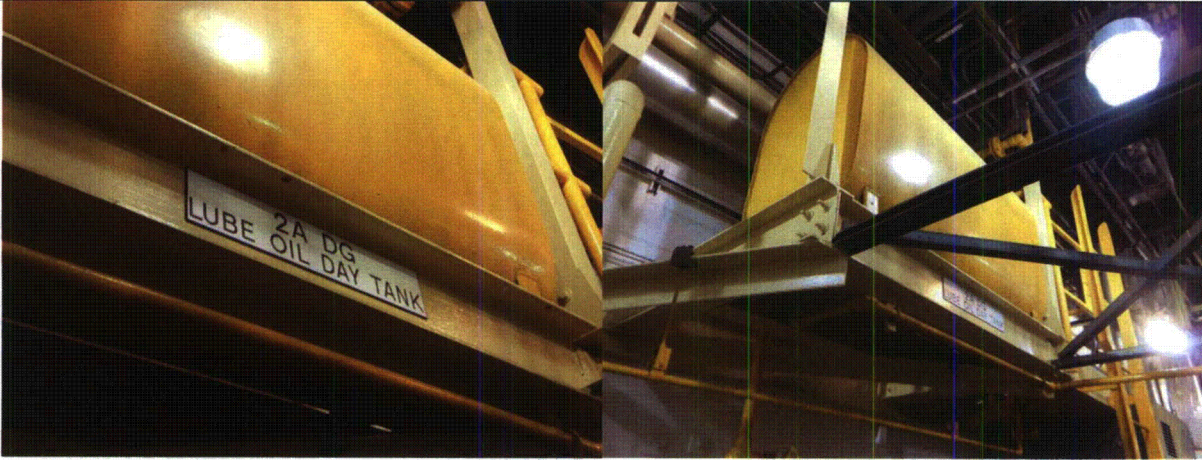
Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2TK4780

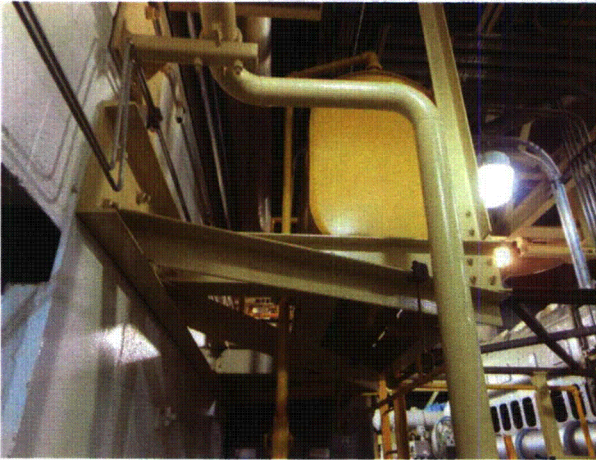
Equipment Class: (21) Tanks and Heat Exchangers

Equipment Description: 2A DG LUBE OIL DAY TANK



2TK4780 8-13-12 183

2TK4780 8-13-12 184



2TK4780 8-13-12 185



2TK4780 8-13-12 186

ATTACHMENT 3
WALKDOWN CHECKLISTS

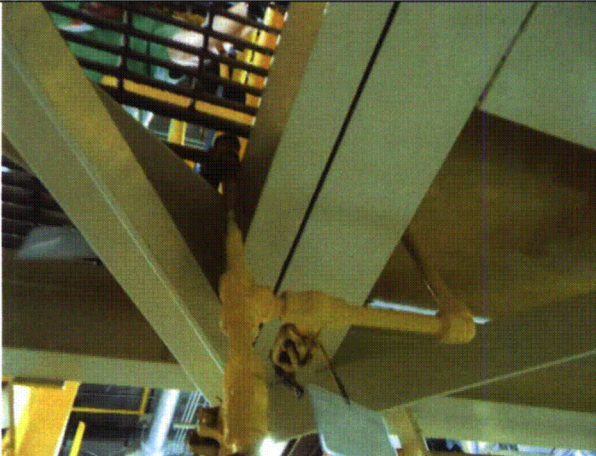
Status: Y N U

Seismic Walkdown Checklist (SWC)

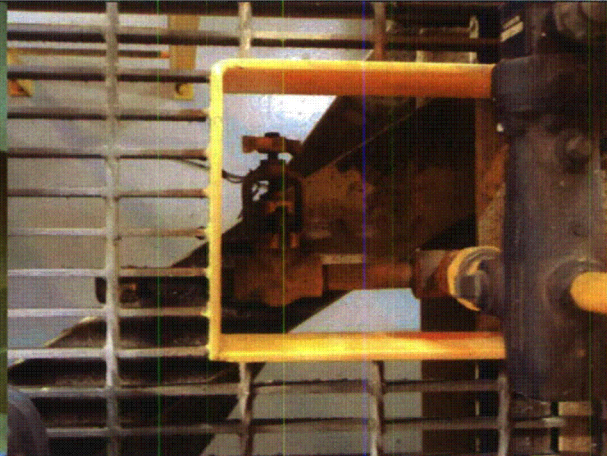
Equipment ID No.: 2TK4780

Equipment Class: (21) Tanks and Heat Exchangers

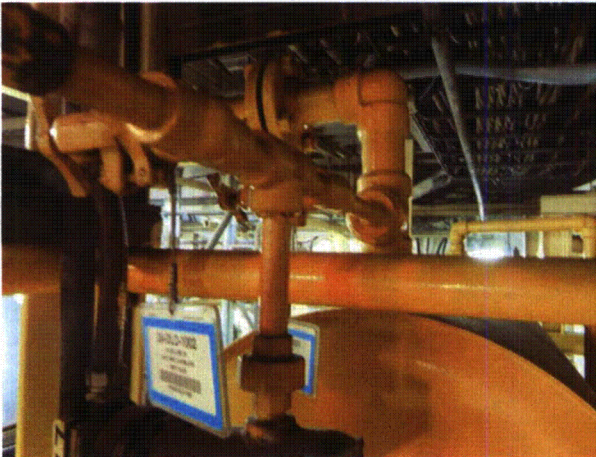
Equipment Description: 2A DG LUBE OIL DAY TANK



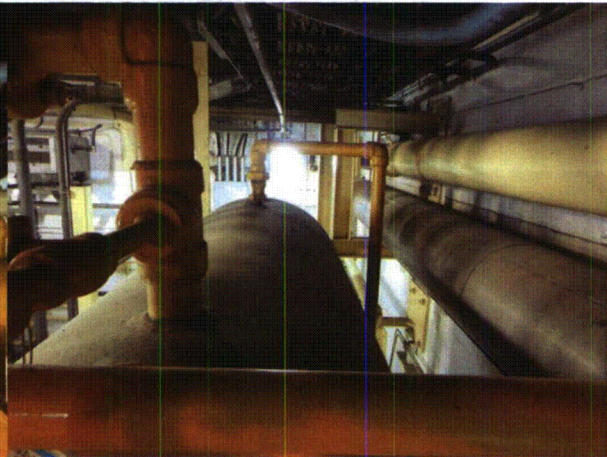
2TK4780 8-13-12 187



2TK4780 8-13-12 188



2TK4780 8-13-12 189



2TK4780 8-13-12 190

ATTACHMENT 3
WALKDOWN CHECKLISTS

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2TK4802

Equipment Class: (21) Tanks and Heat Exchangers

Equipment Description: 2A DG JACKET WATER EXPANSION TANK

Project: CCNPP 2 SWEL

Location (Bldg, Elev, Room/Area): AUX, 45.00 ft, CAL-AB-422

Manufacturer/Model: _____

Instructions for Completing Checklist

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

Anchorage

1. Is anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? No

2. Is the anchorage free of bent, broken, missing or loose hardware? No
*Two bottom headed studs are not engaged, top 4 headed studs are engaged.
Need to evaluate. CR-2012-009759*

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

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

5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) Not Applicable

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? No

ATTACHMENT 3
WALKDOWN CHECKLISTS

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2TK4802

Equipment Class: (21) Tanks and Heat Exchangers

Equipment Description: 2A DG JACKET WATER EXPANSION TANK

Interaction Effects

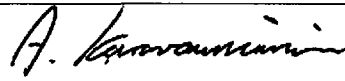
7. Are soft targets free from impact by nearby equipment or structures? Yes
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Yes
9. Do attached lines have adequate flexibility to avoid damage? Yes
10. Based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

Other Adverse Conditions

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

Comments

Evaluated by:



A. Karavoussianis

Date: 11/09/2012



C. Figliolini

11/09/2012

Photos

ATTACHMENT 3
WALKDOWN CHECKLISTS

Status: Y N U

Seismic Walkdown Checklist (SWC)

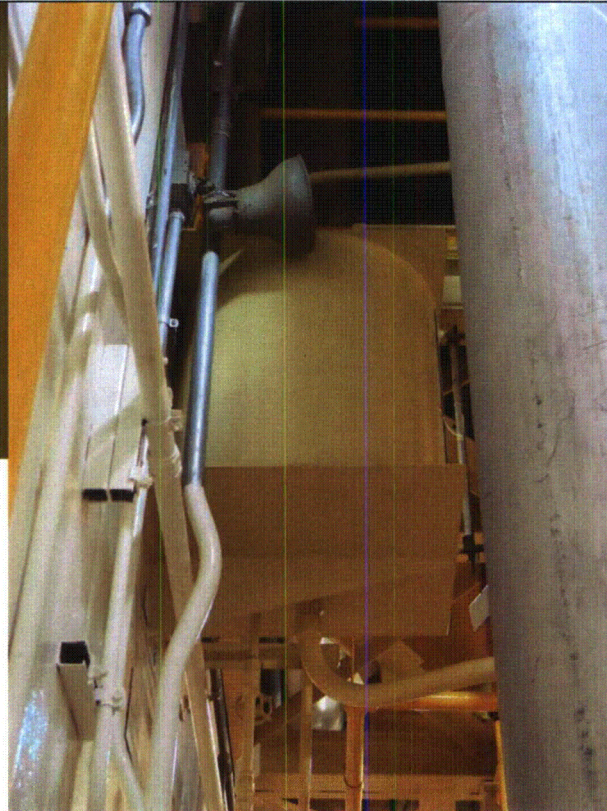
Equipment ID No.: 2TK4802

Equipment Class: (21) Tanks and Heat Exchangers

Equipment Description: 2A DG JACKET WATER EXPANSION TANK



2TK4802 8-13-12 191



2TK4802 8-13-12 192

ATTACHMENT 3
WALKDOWN CHECKLISTS

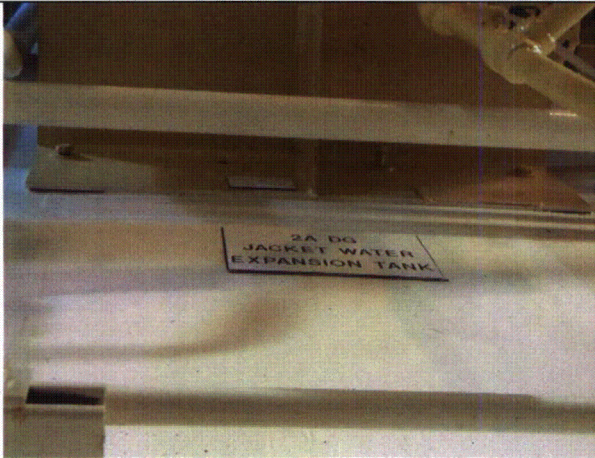
Status: Y N U

Seismic Walkdown Checklist (SWC)

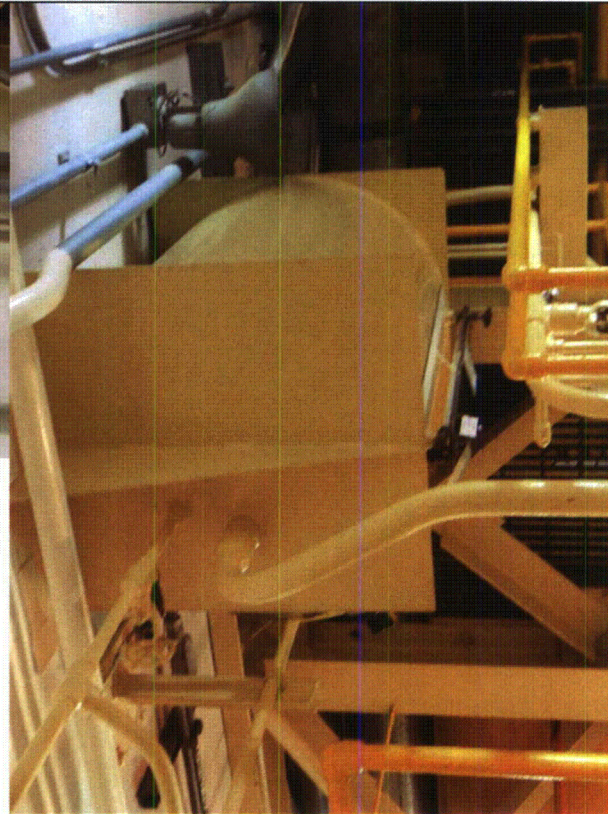
Equipment ID No.: 2TK4802

Equipment Class: (21) Tanks and Heat Exchangers

Equipment Description: 2A DG JACKET WATER EXPANSION TANK



2TK4802 8-13-12 194



2TK4802 8-13-12 196

ATTACHMENT 3
WALKDOWN CHECKLISTS

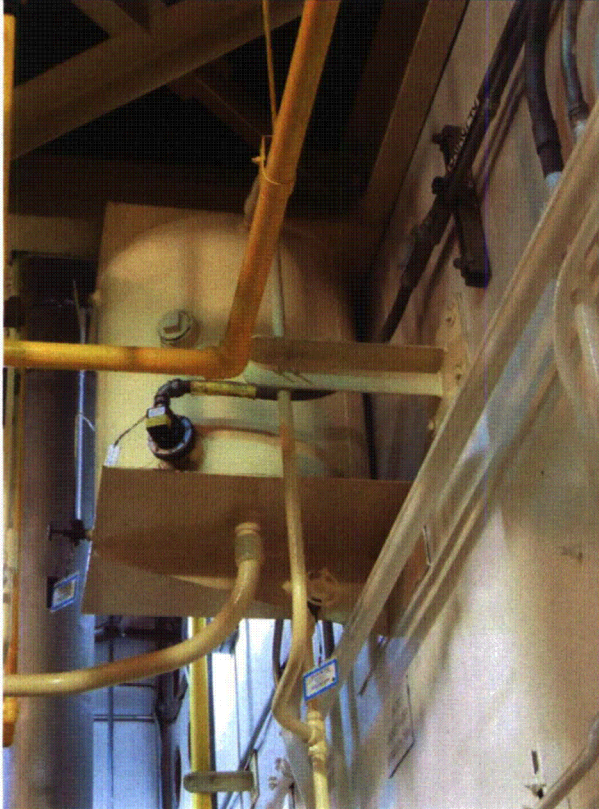
Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2TK4802

Equipment Class: (21) Tanks and Heat Exchangers

Equipment Description: 2A DG JACKET WATER EXPANSION TANK



2TK4802 8-13-12 197

ATTACHMENT 3

WALKDOWN CHECKLISTS

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2TKBAST21

Equipment Class: (21) Tanks and Heat Exchangers

Equipment Description: 21 BORIC ACID STORAGE TANK

Project: CCNPP 2 SWEL

Location (Bldg, Elev, Room/Area): AUX, 5.00 ft, CAL-AB-215

Manufacturer/Model: _____

Instructions for Completing Checklist

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

Anchorage

1. Is anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? No

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

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

4. Is the anchorage free of visible cracks in the concrete near the anchors? Yes
Observed slight hairline crack in the concrete pad, but the crack does not reach bolt, therefore judged not to be a concern.

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.) Not Applicable

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

ATTACHMENT 3
WALKDOWN CHECKLISTS

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2TKBAST21

Equipment Class: (21) Tanks and Heat Exchangers

Equipment Description: 21 BORIC ACID STORAGE TANK

Interaction Effects

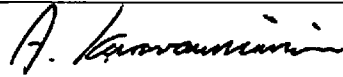
7. Are soft targets free from impact by nearby equipment or structures? Yes
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Yes
9. Do attached lines have adequate flexibility to avoid damage? Yes
10. Based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

Other Adverse Conditions

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

Comments

Evaluated by:



A. Karavoussianis

Date: 11/09/2012



C. Figliolini

11/09/2012

Photos

ATTACHMENT 3

WALKDOWN CHECKLISTS

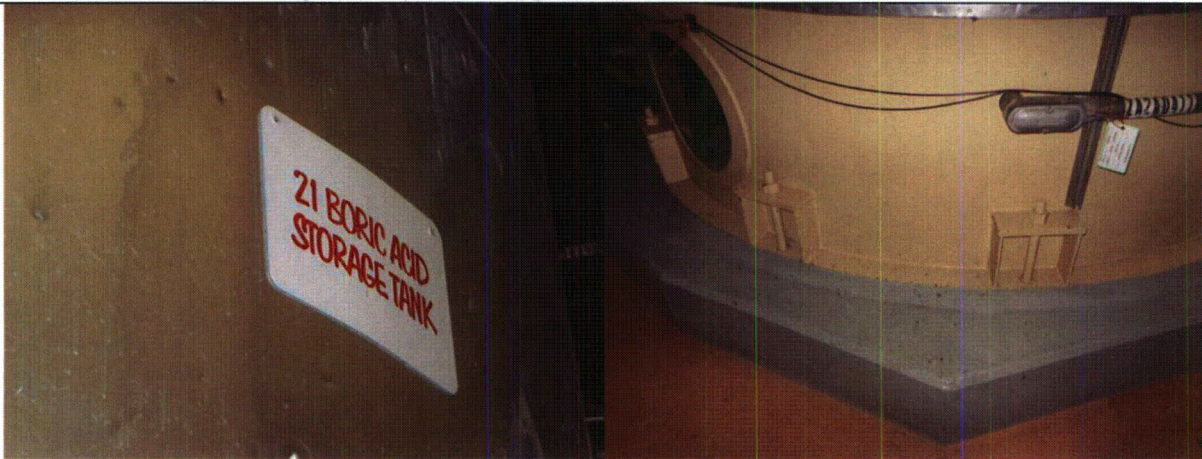
Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2TKBAST21

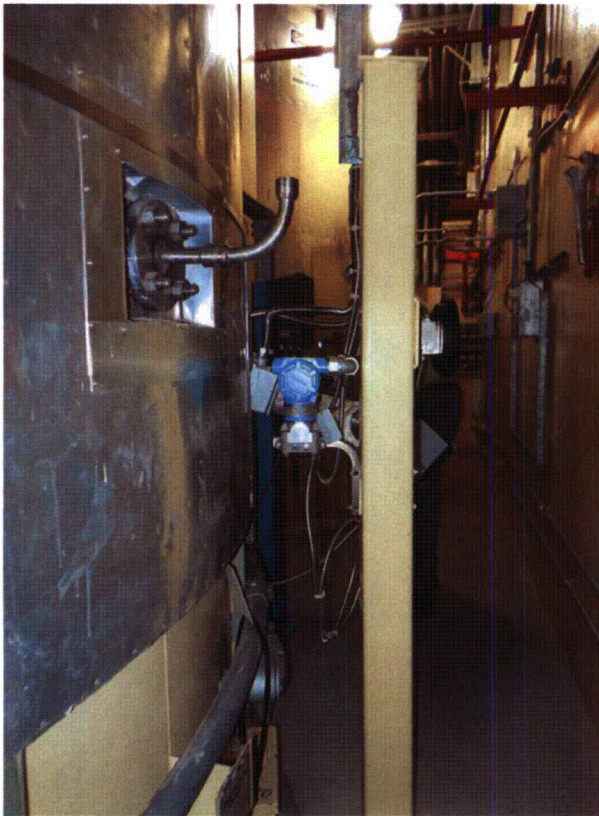
Equipment Class: (21) Tanks and Heat Exchangers

Equipment Description: 21 BORIC ACID STORAGE TANK

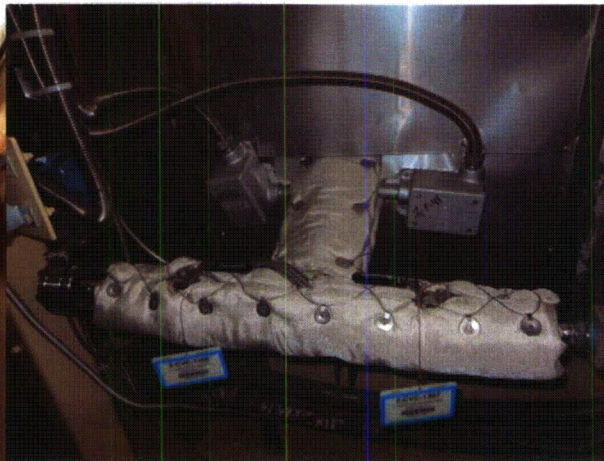


2TKBAST21 8-6-12 081

2TKBAST21 8-6-12 083



2TKBAST21 8-6-12 084



2TKBAST21 8-6-12 085

ATTACHMENT 3
WALKDOWN CHECKLISTS

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2TKBAST21

Equipment Class: (21) Tanks and Heat Exchangers

Equipment Description: 21 BORIC ACID STORAGE TANK



2TKBAST21 8-6-12 086



2TKBAST21 8-6-12 088

ATTACHMENT 3
WALKDOWN CHECKLISTS

Status: Y N U

Seismic Walkdown Checklist (SWC)

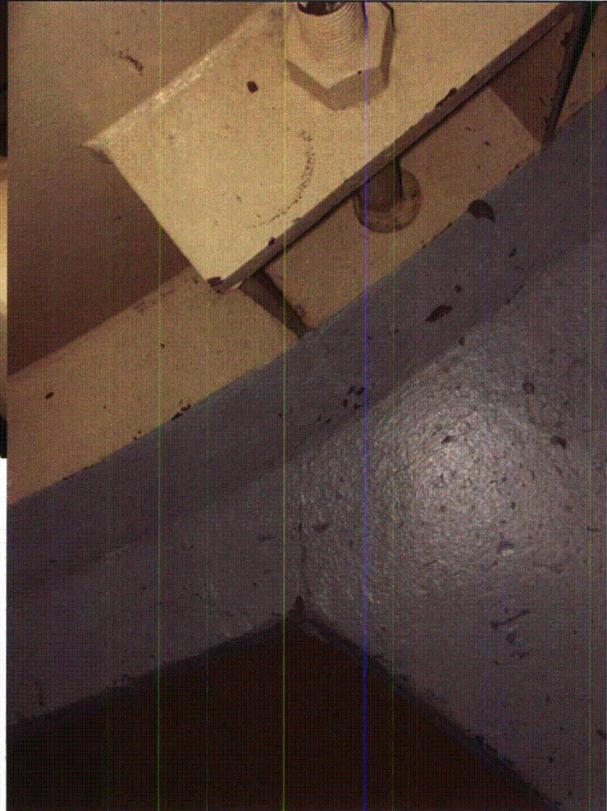
Equipment ID No.: 2TKBAST21

Equipment Class: (21) Tanks and Heat Exchangers

Equipment Description: 21 BORIC ACID STORAGE TANK



2TKBAST21 8-6-12 089



2TKBAST21 8-6-12 090

ATTACHMENT 3

WALKDOWN CHECKLISTS

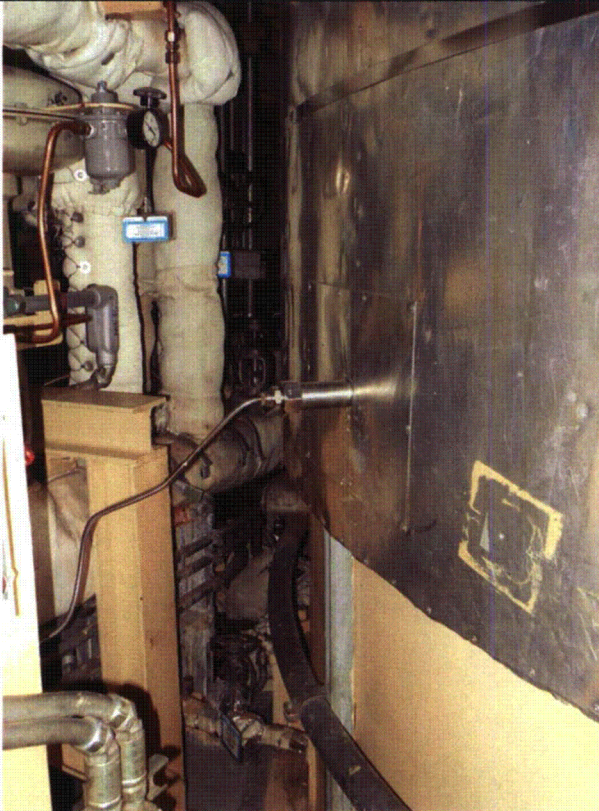
Status: Y N U

Seismic Walkdown Checklist (SWC)

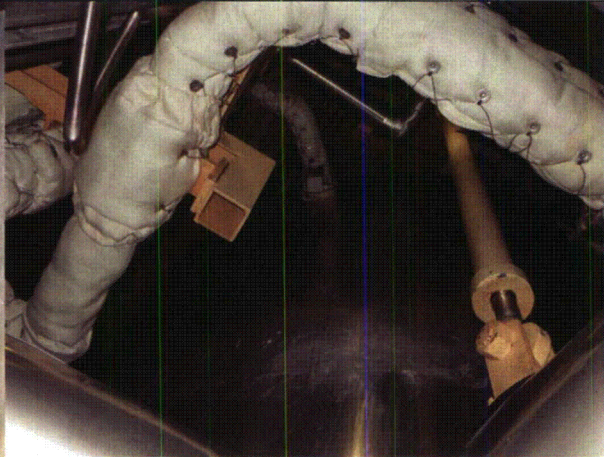
Equipment ID No.: 2TKBAST21

Equipment Class: (21) Tanks and Heat Exchangers

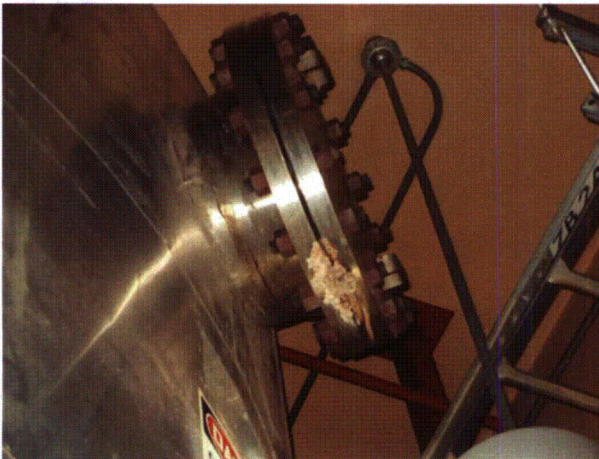
Equipment Description: 21 BORIC ACID STORAGE TANK



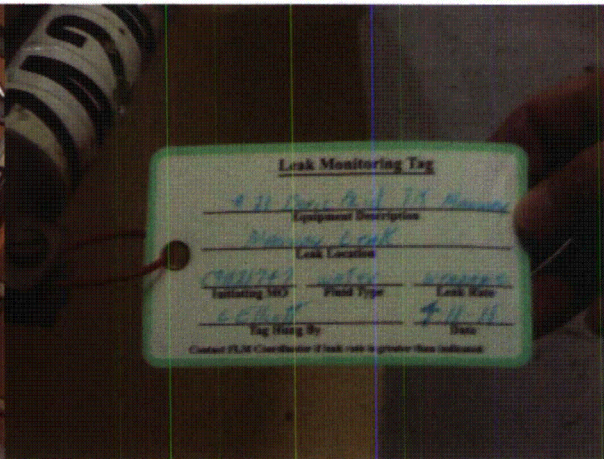
2TKBAST21 8-6-12 091



2TKBAST21 8-6-12 092



2TKBAST21 8-6-12 093



2TKBAST21 8-6-12 095

ATTACHMENT 3
WALKDOWN CHECKLISTS

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2TKCCHT21

Equipment Class: (21) Tanks and Heat Exchangers

Equipment Description: COMPONENT COOLER HEAD TANK

Project: CCNPP 2 SWEL

Location (Bldg, Elev, Room/Area): AUX, 70.00 ft, CAL-AB-527

Manufacturer/Model: _____

Instructions for Completing Checklist

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

Anchorage

- | | |
|--|-----|
| 1. Is anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? | Yes |
| 2. Is the anchorage free of bent, broken, missing or loose hardware? | Yes |
| 3. Is the anchorage free of corrosion that is more than mild surface oxidation? | Yes |
| 4. Is the anchorage free of visible cracks in the concrete near the anchors? | Yes |
| 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.)
<i>Anchorage is consistent with drawings FSK-C-0384.</i> | Yes |
| 6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? | Yes |

ATTACHMENT 3
WALKDOWN CHECKLISTS

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2TKCCHT21

Equipment Class: (21) Tanks and Heat Exchangers

Equipment Description: COMPONENT COOLER HEAD TANK

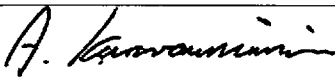
Interaction Effects

7. Are soft targets free from impact by nearby equipment or structures? Yes
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Yes
*Masonry block walls, identified as PP and A2 on drawing A-260, are safety-related and thus seismically rated per IE Bulletin 80-11.
Observed a tool cart on rollers. Looks like there was work being performed in the area. Although this is not good housekeeping practice, the cart does not have sufficient mass to be a seismic concern for the tank, therefore judge not a creditable seismic concern.*
9. Do attached lines have adequate flexibility to avoid damage? Yes
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Yes
-

Other Adverse Conditions

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

Comments

Evaluated by:  A. Karavoussianis Date: 11/09/2012

 C. Figliolini 11/09/2012

ATTACHMENT 3
WALKDOWN CHECKLISTS

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2TKCCHT21

Equipment Class: (21) Tanks and Heat Exchangers

Equipment Description: COMPONENT COOLER HEAD TANK

Photos



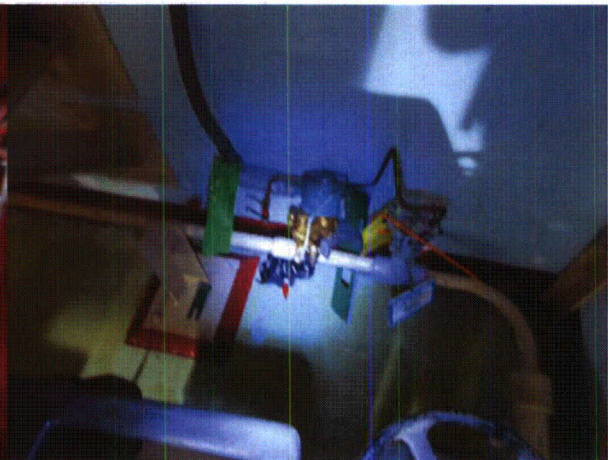
2TKCCHT21 8-9-12 142



2TKCCHT21 8-9-12 143



2TKCCHT21 8-9-12 144



2TKCCHT21 8-9-12 145

ATTACHMENT 3
WALKDOWN CHECKLISTS

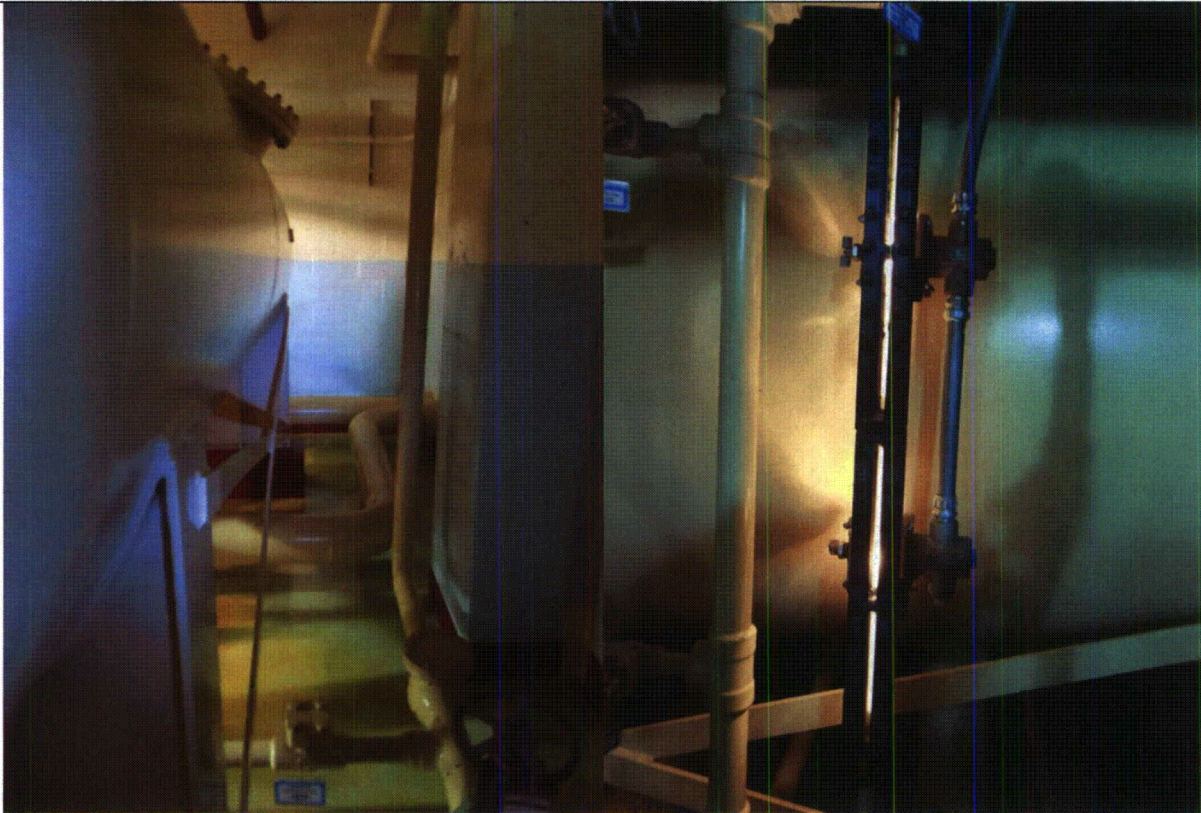
Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2TKCCHT21

Equipment Class: (21) Tanks and Heat Exchangers

Equipment Description: COMPONENT COOLER HEAD TANK



2TKCCHT21 8-9-12 146

2TKCCHT21 8-9-12 147

ATTACHMENT 3
WALKDOWN CHECKLISTS

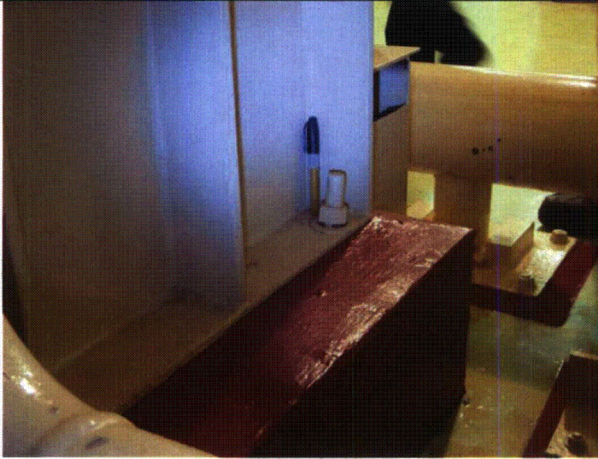
Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2TKCCHT21

Equipment Class: (21) Tanks and Heat Exchangers

Equipment Description: COMPONENT COOLER HEAD TANK



2TKCCHT21 8-9-12 148



2TKCCHT21 8-9-12 149

ATTACHMENT 3
WALKDOWN CHECKLISTS

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2TKRWT21

Equipment Class: (21) Tanks and Heat Exchangers

Equipment Description: REFUELING WATER TANK 21

Project: CCNPP 2 SWEL

Location (Bldg, Elev, Room/Area): AUX, 45.00 ft, CAL-AB-440

Manufacturer/Model: _____

Instructions for Completing Checklist

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

Anchorage

- | | |
|--|-----|
| 1. Is anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? | Yes |
| | |
| 2. Is the anchorage free of bent, broken, missing or loose hardware? | Yes |
| | |
| 3. Is the anchorage free of corrosion that is more than mild surface oxidation?

<i>Approximately 6 bolts are showing signs of corrosion to the bolt shaft. CR-2012-008380</i> | No |
| | |
| 4. Is the anchorage free of visible cracks in the concrete near the anchors?

<i>There are 6 to 7 visible cracks and a couple of crack look like they go down along the foundation. CR-2012-009629</i> | No |
| | |
| 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.)

<i>Anchorage is consistent with drawing 12329B-0001.</i> | Yes |
| | |
| 6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? | No |

ATTACHMENT 3
WALKDOWN CHECKLISTS

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2TKRWT21

Equipment Class: (21) Tanks and Heat Exchangers

Equipment Description: REFUELING WATER TANK 21

Interaction Effects

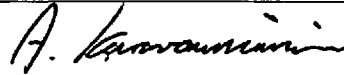
7. Are soft targets free from impact by nearby equipment or structures? Yes
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Yes
Threaded fire piping with Victaulic couplings, rod hung and supported by clamps off roof steel. The overhead threaded fire piping is judged to be adequately supported and not a seismic concern.
9. Do attached lines have adequate flexibility to avoid damage? Yes
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Yes
-

Other Adverse Conditions

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

Comments

Evaluated by:



A. Karavoussianis

Date: 11/09/2012



C. Figliolini

11/09/2012

Photos

ATTACHMENT 3
WALKDOWN CHECKLISTS

Status: Y N U

Seismic Walkdown Checklist (SWC)

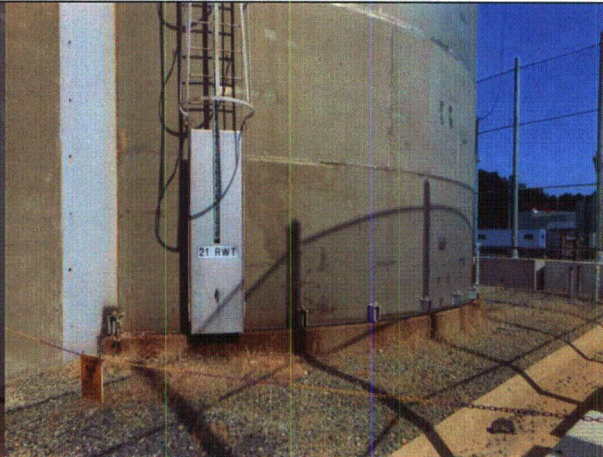
Equipment ID No.: 2TKRWT21

Equipment Class: (21) Tanks and Heat Exchangers

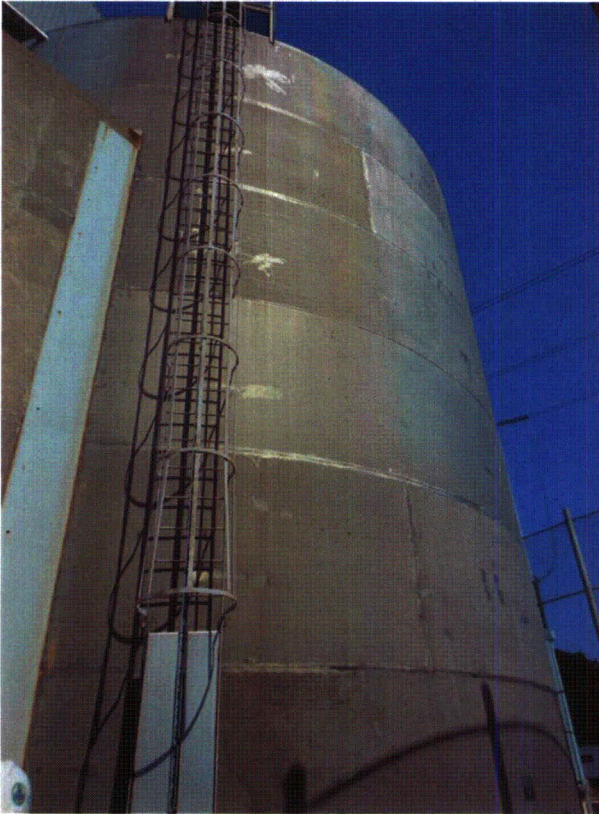
Equipment Description: REFUELING WATER TANK 21



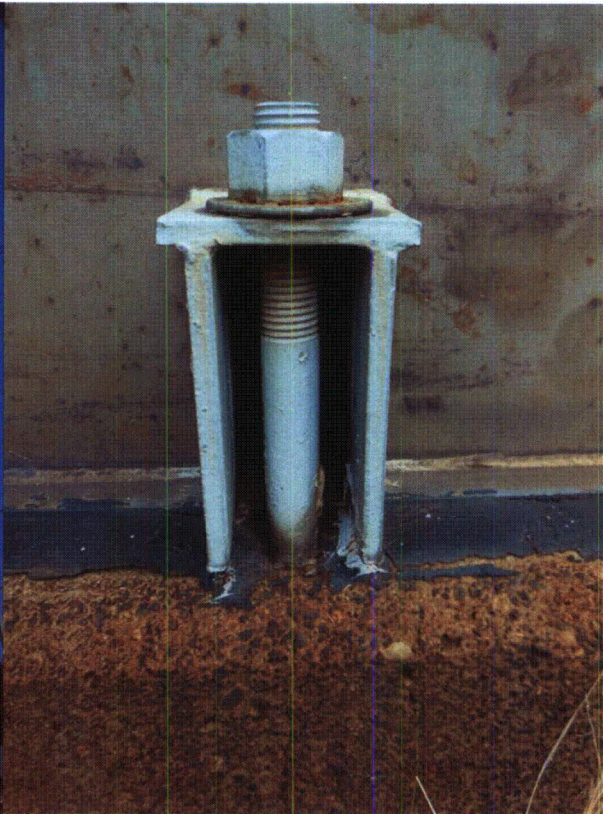
2TKRWT21 8-16-12 214



2TKRWT21 8-16-12 215



2TKRWT21 8-16-12 216



2TKRWT21 8-16-12 217

ATTACHMENT 3

WALKDOWN CHECKLISTS

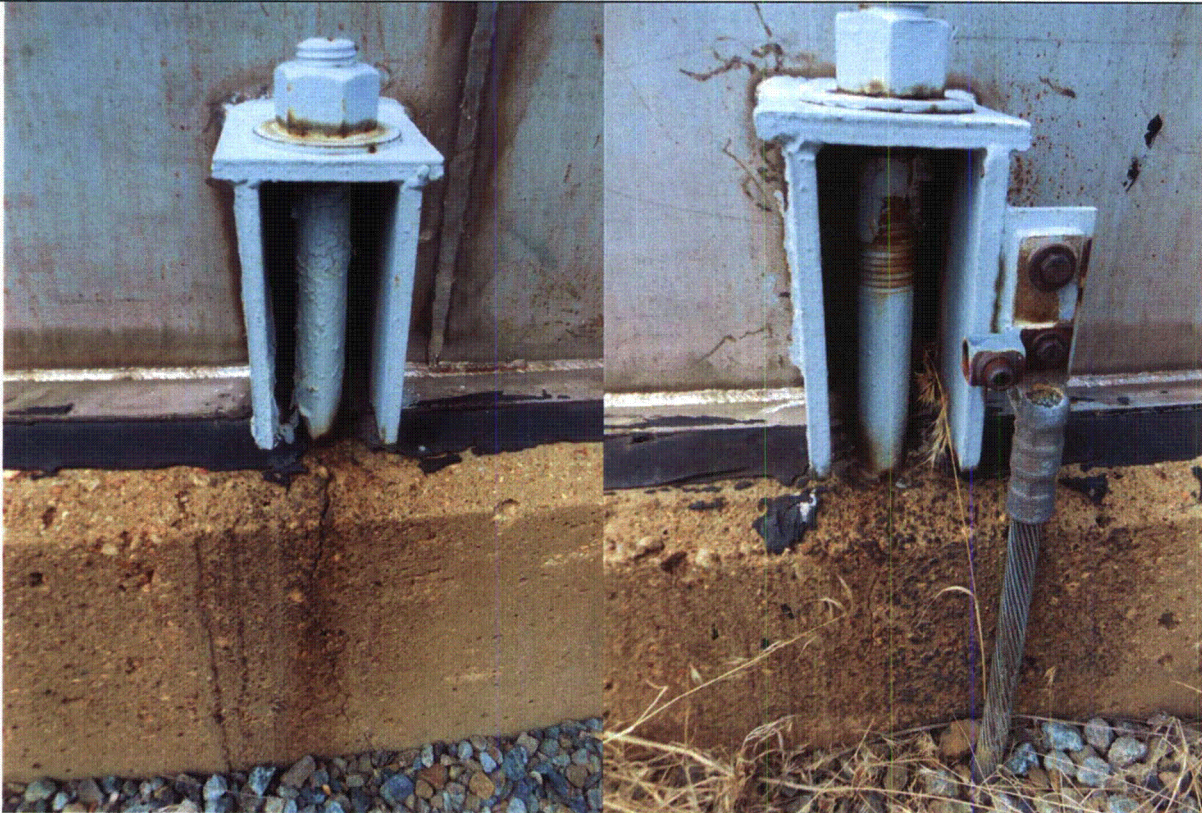
Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2TKRWT21

Equipment Class: (21) Tanks and Heat Exchangers

Equipment Description: REFUELING WATER TANK 21



2TKRWT21 8-16-12 218

2TKRWT21 8-16-12 219

ATTACHMENT 3
WALKDOWN CHECKLISTS

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2TKRWT21

Equipment Class: (21) Tanks and Heat Exchangers

Equipment Description: REFUELING WATER TANK 21



2TKRWT21 8-16-12 220

2TKRWT21 8-16-12 221

ATTACHMENT 3

WALKDOWN CHECKLISTS

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2TKRWT21

Equipment Class: (21) Tanks and Heat Exchangers

Equipment Description: REFUELING WATER TANK 21



2TKRWT21 8-16-12 222

2TKRWT21 8-16-12 223

ATTACHMENT 3
WALKDOWN CHECKLISTS

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2TKRWT21

Equipment Class: (21) Tanks and Heat Exchangers

Equipment Description: REFUELING WATER TANK 21



2TKRWT21 8-16-12 224

ATTACHMENT 3
WALKDOWN CHECKLISTS

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2TKSRWHD21

Equipment Class: (21) Tanks and Heat Exchangers

Equipment Description: SERVICE WATER HEAD TANK 21

Project: CCNPP 2 SWEL

Location (Bldg, Elev, Room/Area): AUX, 70.00 ft, CAL-AB-526

Manufacturer/Model: _____

Instructions for Completing Checklist

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

Anchorage

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

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

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

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

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.) Yes
Anchorage is consistent with drawing FSK-C-0384.

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

ATTACHMENT 3
WALKDOWN CHECKLISTS

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2TKSRWHD21

Equipment Class: (21) Tanks and Heat Exchangers

Equipment Description: SERVICE WATER HEAD TANK 21

Interaction Effects

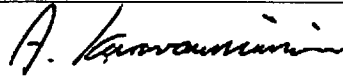
7. Are soft targets free from impact by nearby equipment or structures? Yes
Tank sight glass has 4" gap to adjacent tank component, judged not a seismic concern.
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Yes
9. Do attached lines have adequate flexibility to avoid damage? Yes
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Yes
-

Other Adverse Conditions

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

Comments

Evaluated by:



A. Karavoussianis

Date: 11/09/2012



C. Figliolini

11/09/2012

Photos

ATTACHMENT 3
WALKDOWN CHECKLISTS

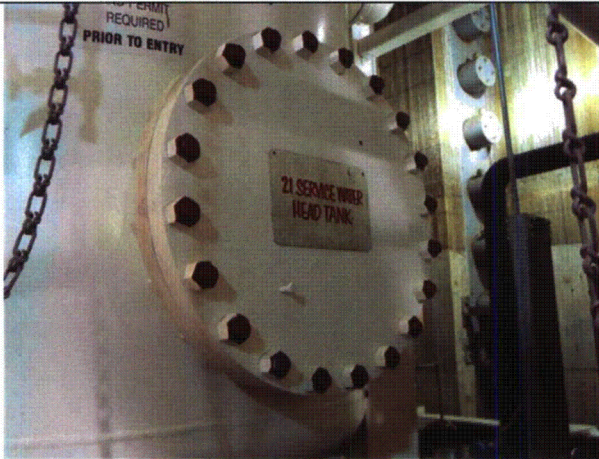
Status: Y N U

Seismic Walkdown Checklist (SWC)

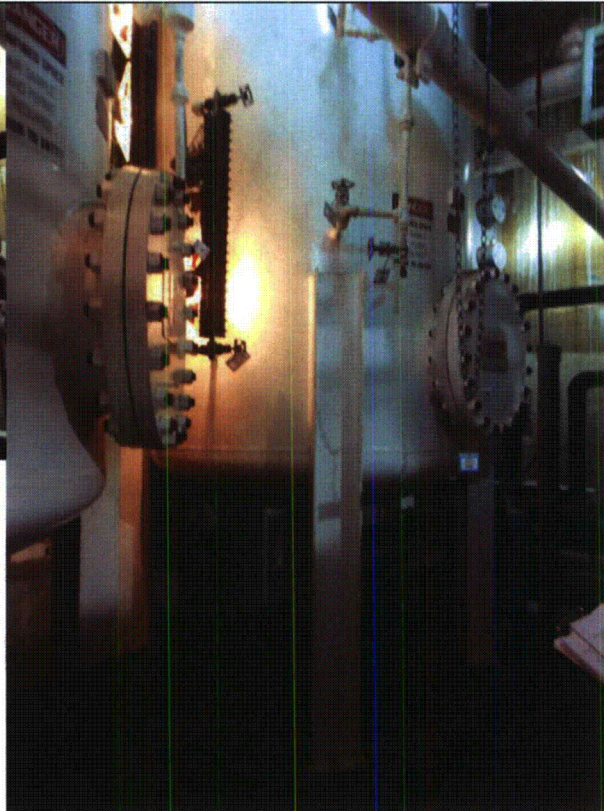
Equipment ID No.: 2TKSRWHD21

Equipment Class: (21) Tanks and Heat Exchangers

Equipment Description: SERVICE WATER HEAD TANK 21



2TKSRWHD21 8-9-12 153



2TKSRWHD21 8-9-12 154

ATTACHMENT 3
WALKDOWN CHECKLISTS

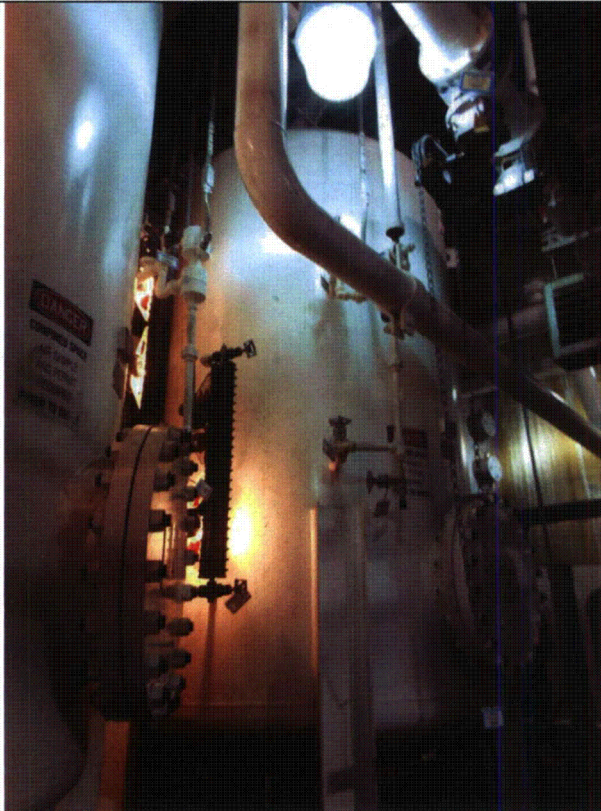
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Seismic Walkdown Checklist (SWC)

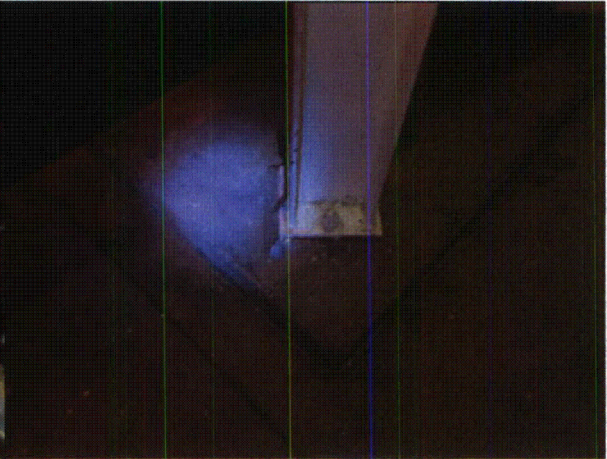
Equipment ID No.: 2TKSRWHD21

Equipment Class: (21) Tanks and Heat Exchangers

Equipment Description: SERVICE WATER HEAD TANK 21



2TKSRWHD21 8-9-12 155



2TKSRWHD21 8-9-12 156

ATTACHMENT 3

WALKDOWN CHECKLISTS

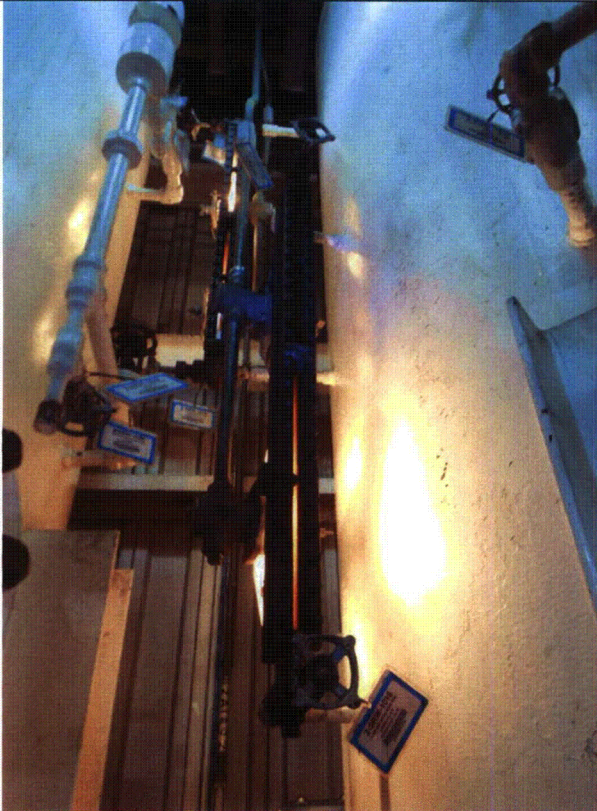
Status: Y N U

Seismic Walkdown Checklist (SWC)

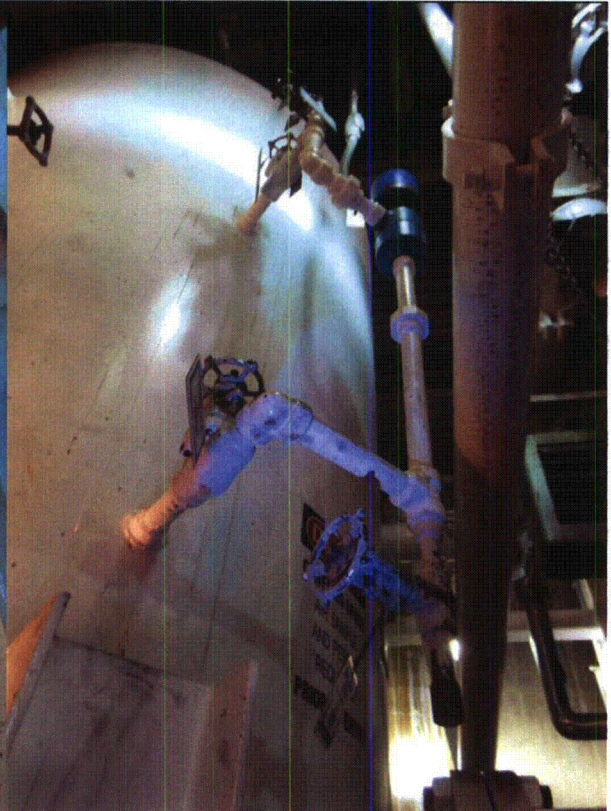
Equipment ID No.: 2TKSRWHD21

Equipment Class: (21) Tanks and Heat Exchangers

Equipment Description: SERVICE WATER HEAD TANK 21



2TKSRWHD21 8-9-12 157



2TKSRWHD21 8-9-12 158



2TKSRWHD21 8-9-12 159



2TKSRWHD21 8-9-12 161

ATTACHMENT 3
WALKDOWN CHECKLISTS

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2TKSRWHD21

Equipment Class: (21) Tanks and Heat Exchangers

Equipment Description: SERVICE WATER HEAD TANK 21



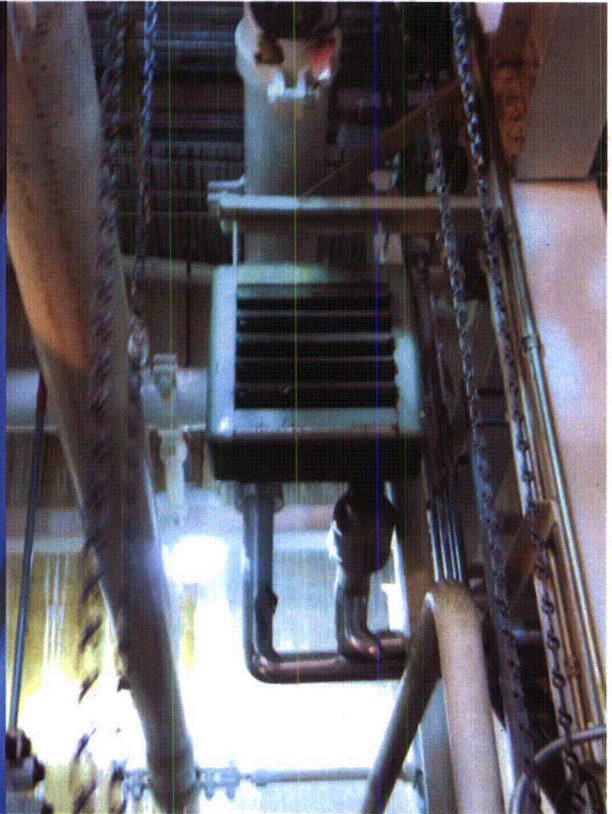
2TKSRWHD21 8-9-12 162



2TKSRWHD21 8-9-12 163



2TKSRWHD21 8-9-12 164



2TKSRWHD21 8-9-12 165

ATTACHMENT 3

WALKDOWN CHECKLISTS

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2XU-440-24A

Equipment Class: (4) Transformers

Equipment Description: 480V XFMR U-440-24A

Project: CCNPP 2 SWEL

Location (Bldg, Elev, Room/Area): AUX, 45.00 ft, CAL-AB-407

Manufacturer/Model: _____

Instructions for Completing Checklist

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

Anchorage

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

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

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

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

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.) Yes
Walkdown anchorage as-built is consistent with calculation CA02066 pg. 27-3 that shows a minimum 3/16 " fillet weld of 3.24" length on 3 corners.

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Yes
Calc. CA02066 pg. 27-4 length of 3/16 " fillet weld required is 3.24" on 3 of 4 corners which is smaller than the as-built weld observed.

ATTACHMENT 3
WALKDOWN CHECKLISTS

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2XU-440-24A

Equipment Class: (4) Transformers

Equipment Description: 480V XFMR U-440-24A

Interaction Effects

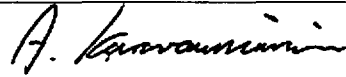
7. Are soft targets free from impact by nearby equipment or structures? Yes
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Yes
9. Do attached lines have adequate flexibility to avoid damage? Yes
10. Based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

Other Adverse Conditions

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

Comments

Evaluated by:



A. Karavoussianis

Date: 11/09/2012



C. Figliolini

11/09/2012

Photos

ATTACHMENT 3
WALKDOWN CHECKLISTS

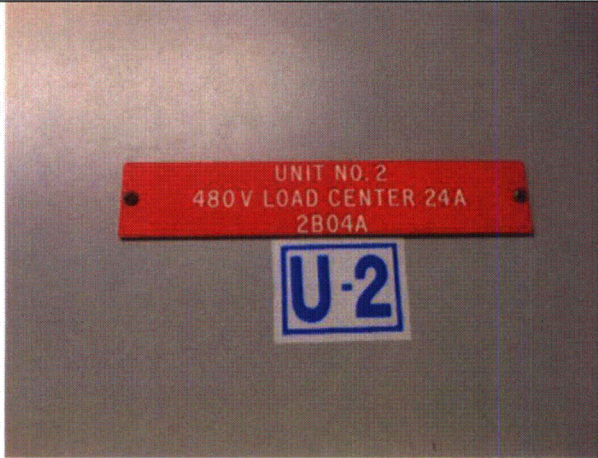
Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2XU-440-24A

Equipment Class: (4) Transformers

Equipment Description: 480V XFMR U-440-24A



2XU-440-24A 8-15-12 165



2XU-440-24A 8-15-12 166

ATTACHMENT 3
WALKDOWN CHECKLISTS

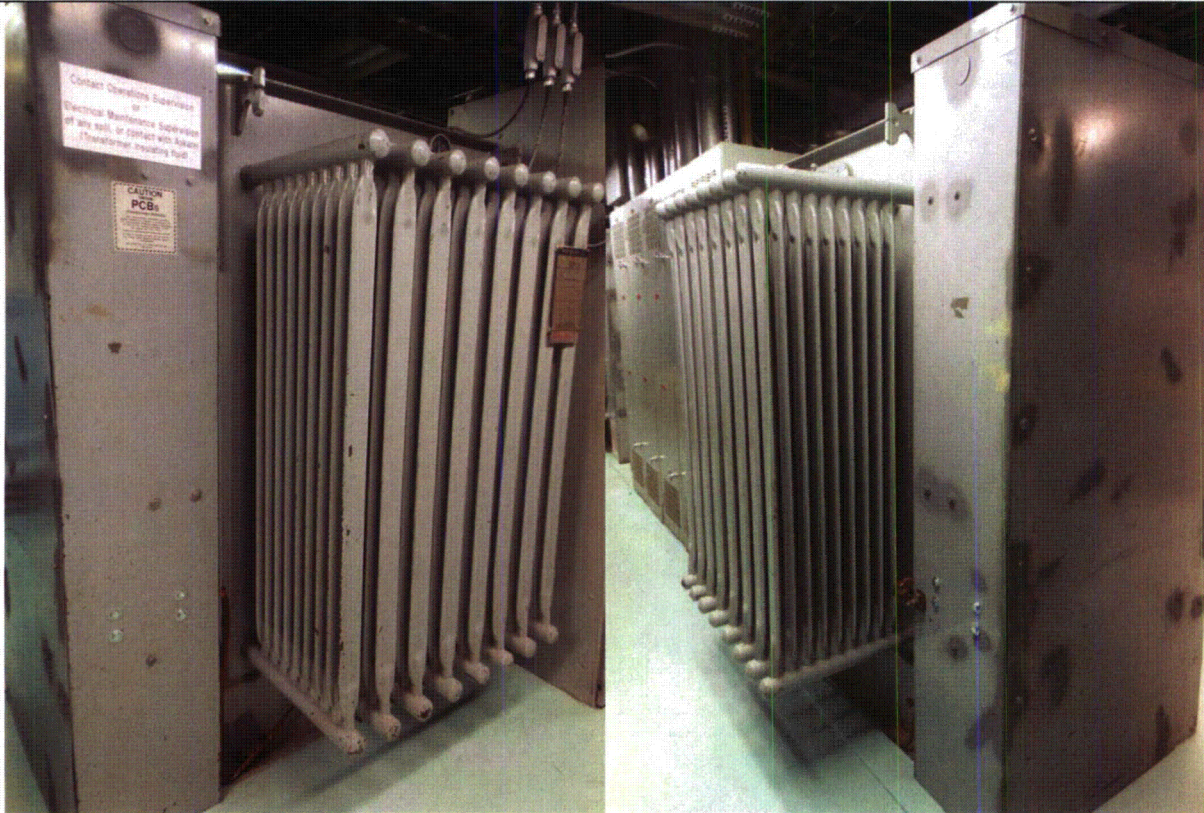
Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2XU-440-24A

Equipment Class: (4) Transformers

Equipment Description: 480V XFMR U-440-24A



2XU-440-24A 8-15-12 167

2XU-440-24A 8-15-12 168

ATTACHMENT 3
WALKDOWN CHECKLISTS

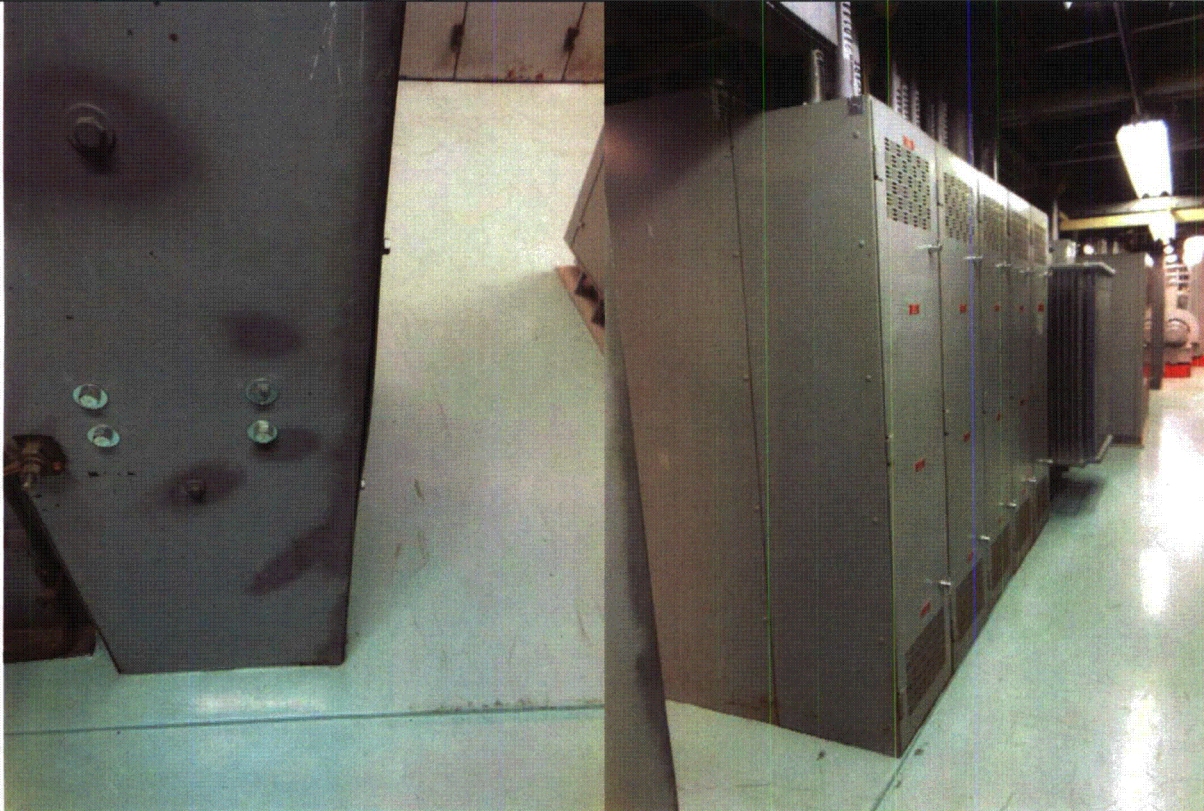
Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 2XU-440-24A

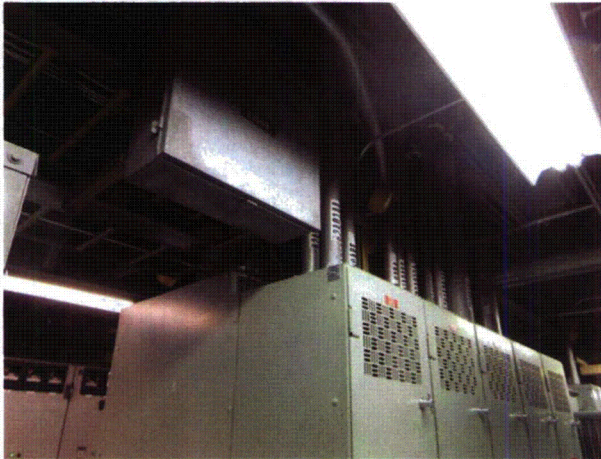
Equipment Class: (4) Transformers

Equipment Description: 480V XFMR U-440-24A



2XU-440-24A 8-15-12 169

2XU-440-24A 8-15-12 170



2XU-440-24A 8-15-12 171
