

Status: Y N U **Area Walk-By Checklist (AWC)**Location: Bldg. REACTOR Floor El. 87 Room, Area¹ NW Diagonal Elevated Platform**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
Equipment 2T41-B004B has a missing bolt. See picture for details. CR523718 has been initiated for this purpose.

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

¹ If the room in which the SWEL item is located is very large (e.g., Turbine Hall), the area selected should be described. This selected area should be based on judgment, e.g., on the order of about 35 feet from the SWEL item.

Status: Y N U

Area Walk-By Checklist (AWC)

Location: Bldg. REACTOR Floor El. 87 Room, Area¹ NW Diagonal Elevated Platform

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

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

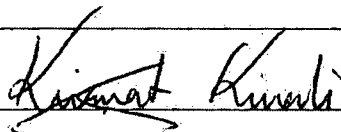
7. Does it appear that the area is free of potentially adverse seismic interactions associated with housekeeping practices, storage of portable equipment, and temporary installations (e.g., scaffolding, lead shielding)? Y N U N/A

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

Comments (Additional pages may be added as necessary)

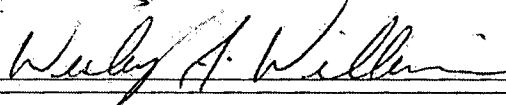
None.

Evaluated by: Kursat Kinali



Date: 9/25/2012

Wesley Williams



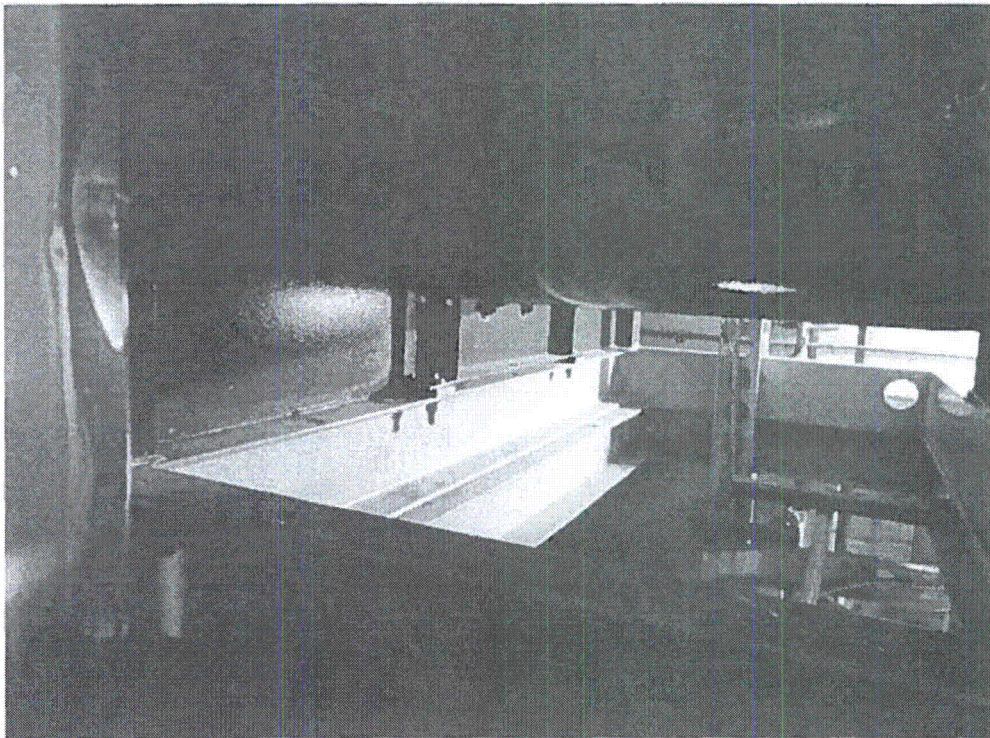
9/25/2012

Status: Y N U

Area Walk-By Checklist (AWC)

Location: Bldg. REACTOR Floor El. 87 Room, Area¹ NW Diagonal Elevated Platform

Photographs



Status: Y N U **Area Walk-By Checklist (AWC)**Location: Bldg. DIESEL Floor El. 130 Room, Area¹ SWITCHGEAR ROOM 2G**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

2. Does anchorage of equipment in the area appear to be free of significant degraded conditions? 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)? Y N U N/A
Two cases were observed where conduit spans appeared to be longer than standard practice (see pictures 1 and 2). However, those spans were judged to meet the intent of section 8.0 of the SQUG GIP which allows spans of 20 feet for conduits of this size. Thus, the conduits are seismically adequate.

Conduits 3" and larger are seismically acceptable when the vertical spacing is less than 20 feet (section 8.2.2, SQUG GIP).
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

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

¹ If the room in which the SWEL item is located is very large (e.g., Turbine Hall), the area selected should be described. This selected area should be based on judgment, e.g., on the order of about 35 feet from the SWEL item.

Status: Y N U

Area Walk-By Checklist (AWC)

Location: Bldg. DIESEL Floor El. 130 Room, Area¹ SWITCHGEAR ROOM 2G

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

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

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

Distribution panels 2R25-S006 and 2R25-S031 have a screw missing in the front panel. CR # 515500 was written to add a screw to panel 2R25-S006 and CR # 515506 was written to add a screw to panel 2R25-S031.

Timer panel 2H21-P305 had 5 missing slip connectors to keep the door of the cabinet closed. DOEJ-HX-35281-C001 "Evaluate Capacity of 4 Screws to Hold Door in Place" addressed this condition and it has been determined to be adequate in a seismic event. CR # 516713 has been written to resolve this issue.

Comments (Additional pages may be added as necessary)

Several cable trays exhibited warping on the bottom portion of the tray where the cables are supported. It was judged to be seismicly adequate since the warping does not impact the overall structural integrity or seismic response of the cable tray. See picture 2.

Evaluated by: Juan Vizcaya

Date: 09/06/2012

Patrick Kelly

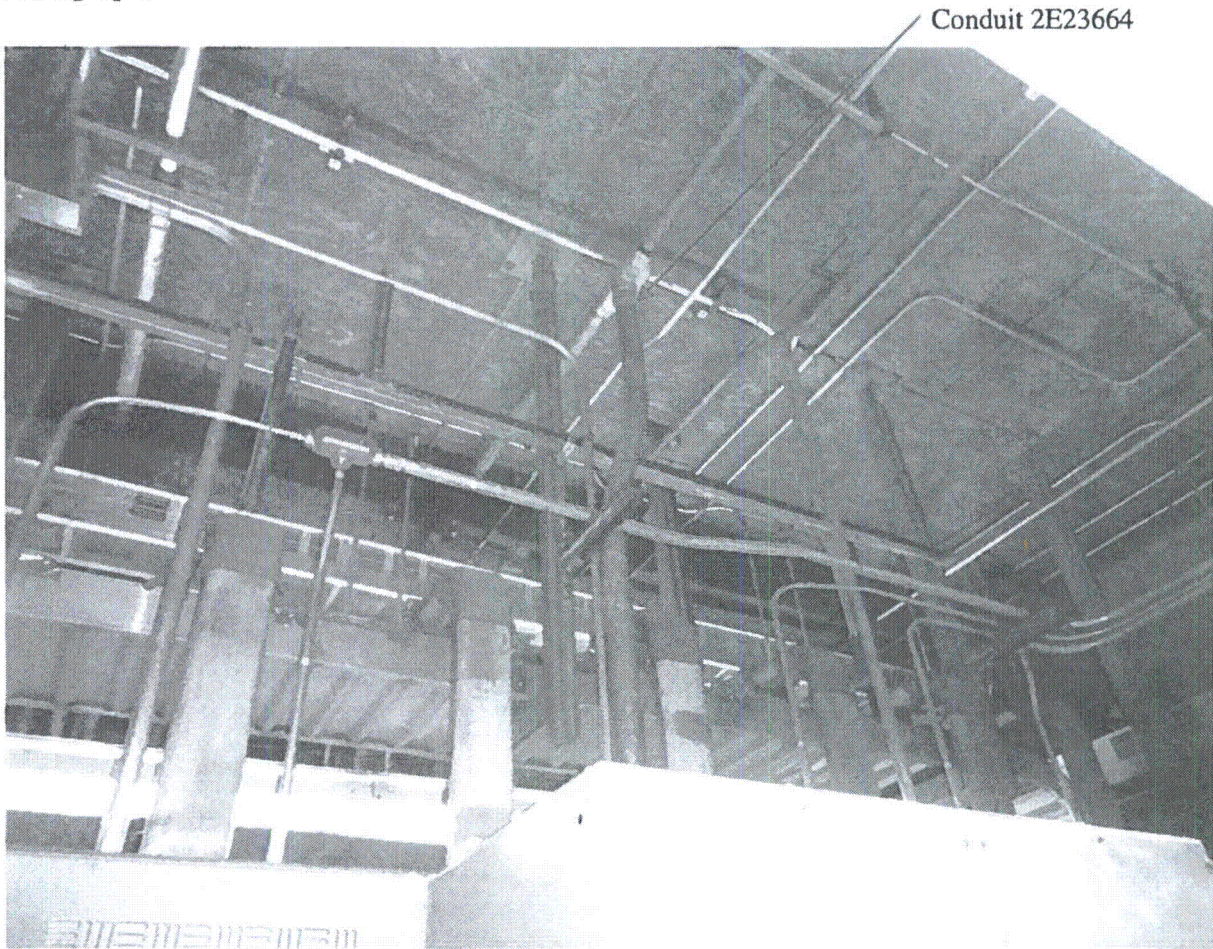
09/06/2012

Status: Y N U

Area Walk-By Checklist (AWC)

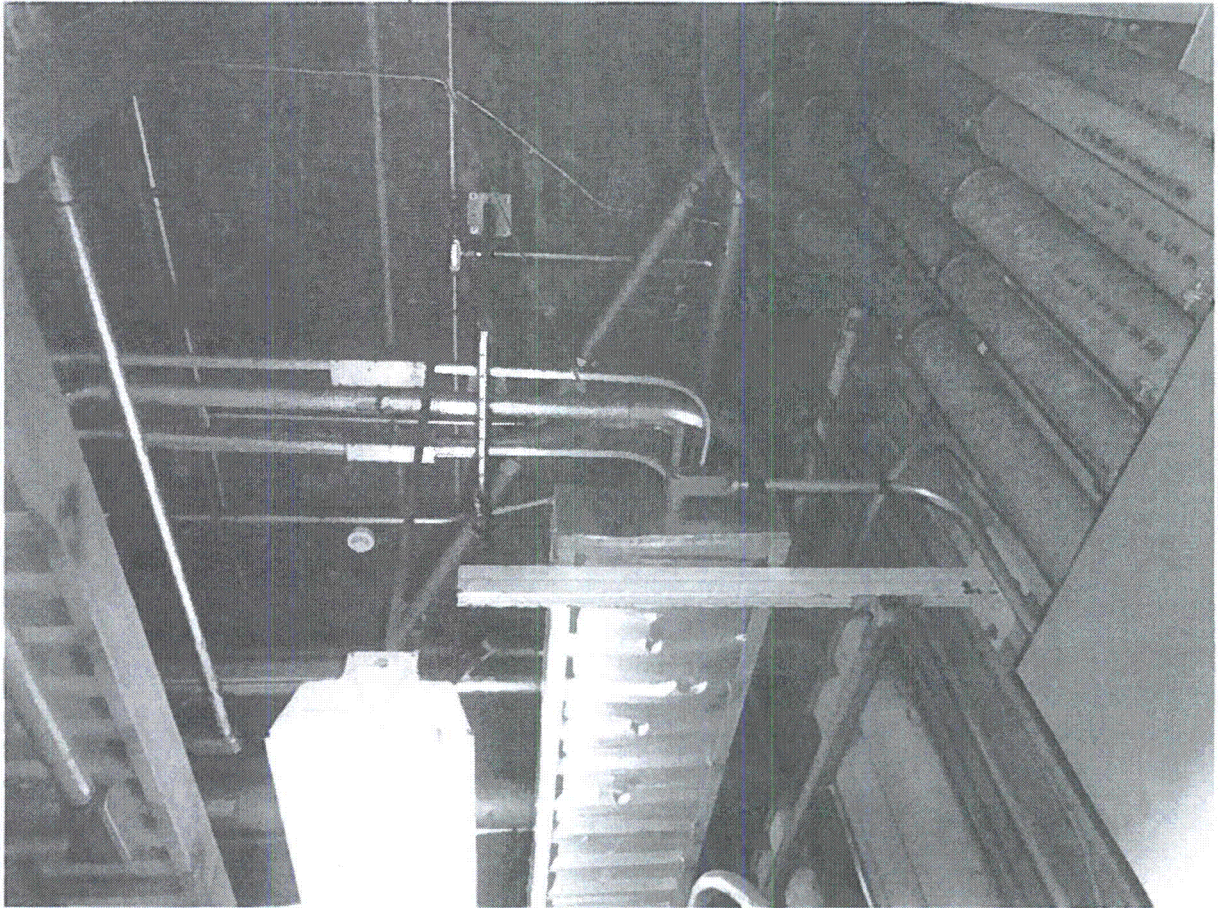
Location: Bldg. DIESEL Floor El. 130 Room, Area¹ SWITCHGEAR ROOM 2G

Photographs

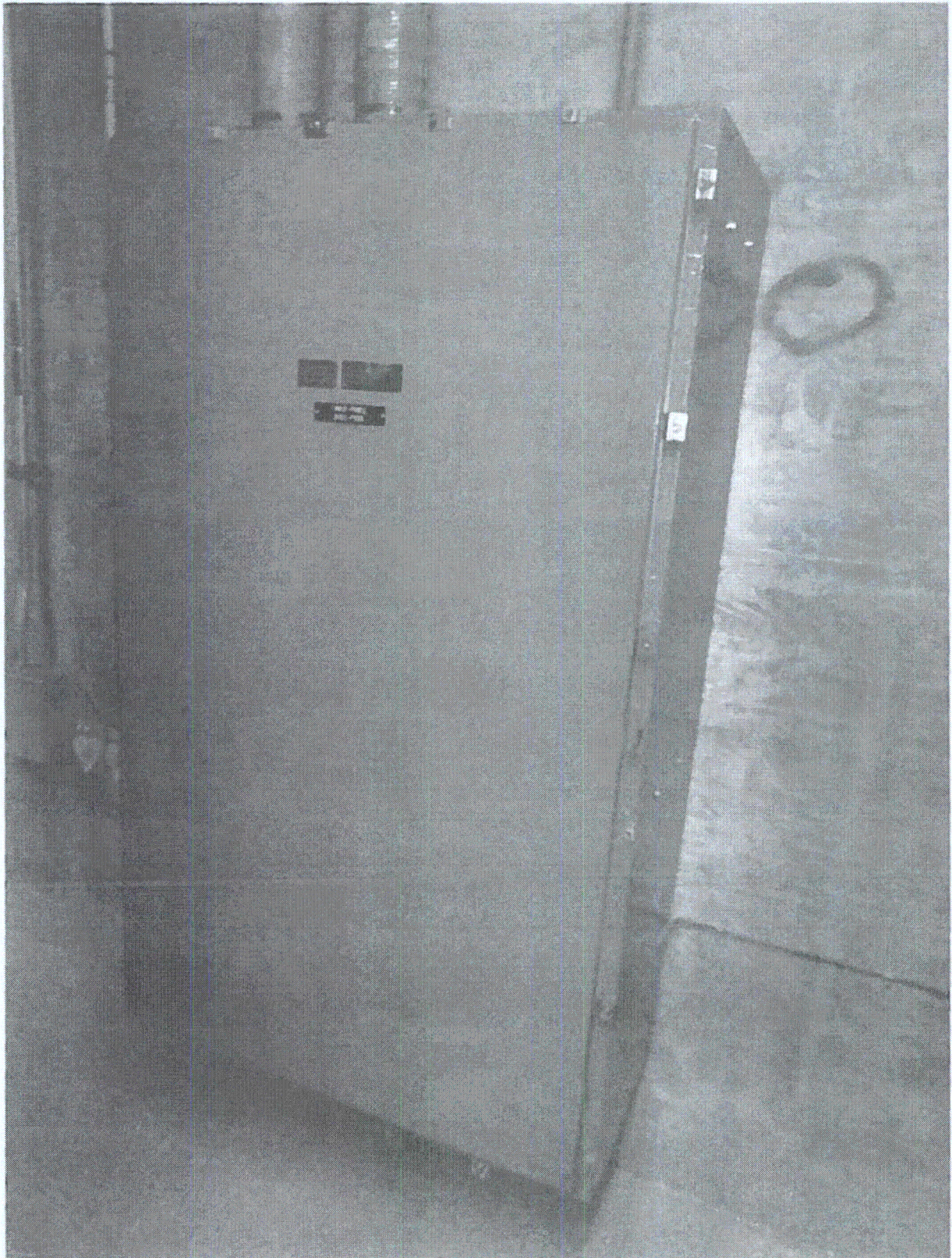


1: Unsupported Conduit 2E23664 (Switchgear Room 2G)

Conduit 2E23472



2: Unsupported Conduit 2E23472 (Switchgear Room 2G)



3: Timer Panel 2H21-P305 Missing Connectors (Switchgear Room 2G)

Area Walk-By Checklist (AWC)Location: Bldg. REACTOR Floor El. 130 Room, Area¹ 2R103**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
- A steel base plate for a column conduit support near airlock 2R106 has two anchors with nuts not fully tightened (see photograph 1). There is approximately a 1/8" gap between the bottom of the nuts and the top of the plate. Deflections will increase slightly due to this, though the support is judged to be seismically adequate as the anchors are embedded in the concrete and will resist the tension forces experienced during an event as intended. CR 519997 has been written to resolve this issue.*
- There is a cantilevered frame supporting a circular duct on the west wall missing an anchor bolt (see photograph 2). The adjacent support has all three anchors though the top and bottom anchors are missing washers. The two anchors present allow for the tension/compression action to occur in the event of movement during a seismic event. The duct weight isn't significant over the span observed to be supported and the support is judged to be seismically adequate. CR 519729 has been written to install the missing anchor and washers.*
- There is a missing anchor on the south support for 2H21-P008 along the west wall (see photograph 3). It is judged to be seismically adequate as the two anchors provide enough strength to resist overturning of the equipment during a seismic event. CR 519996 has been written to reinstall the missing anchor.*
2. Does anchorage of equipment in the area appear to be free of significant degraded conditions? 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)? 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)? Y N U N/A

¹ If the room in which the SWEL item is located is very large (e.g., Turbine Hall), the area selected should be described. This selected area should be based on judgment, e.g., on the order of about 35 feet from the SWEL item.

Status: Y N U **Area Walk-By Checklist (AWC)**Location: Bldg. REACTOR Floor El. 130 Room, Area¹ 2R103

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

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

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

There is a pair of loose pliers underneath 2H21-P008 along the west wall (see photograph 3). This is not a seismic concern. CR 519996 has been written to remove the pliers.

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

There is a missing bolt on the east side of the large enclosure that houses both 2H21-P173 and 2C82-P001 (see photograph 4). There are enough bolts present to provide enough strength to keep the enclosure together during a seismic event. It is judged to be seismically adequate.

Comments (Additional pages may be added as necessary)

None.

Evaluated by: Juan VizcayaDate: 09/18/2012

Patrick Kelly

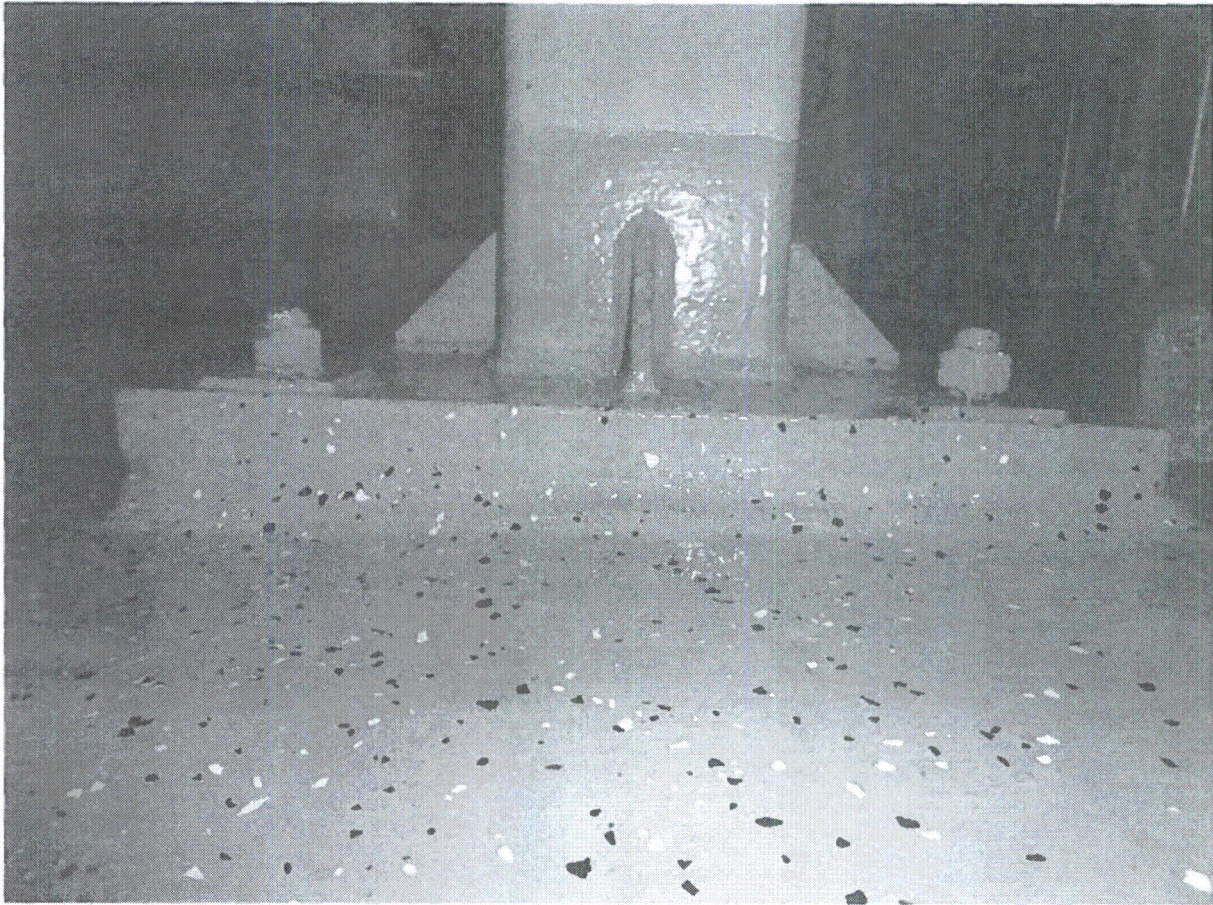
09/18/2012

Status: Y N U

Area Walk-By Checklist (AWC)

Location: Bldg. REACTOR Floor El. 130 Room, Area¹ 2R103

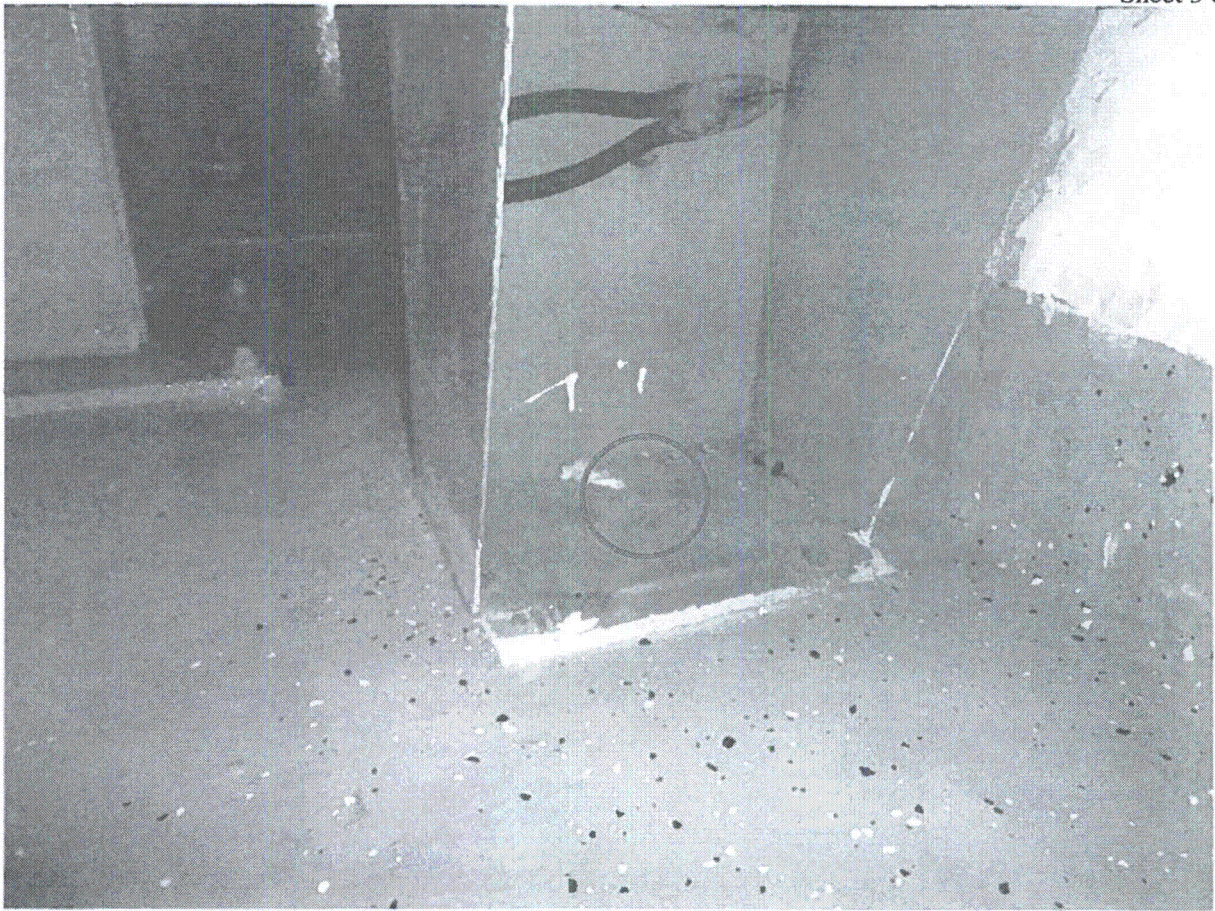
Photographs



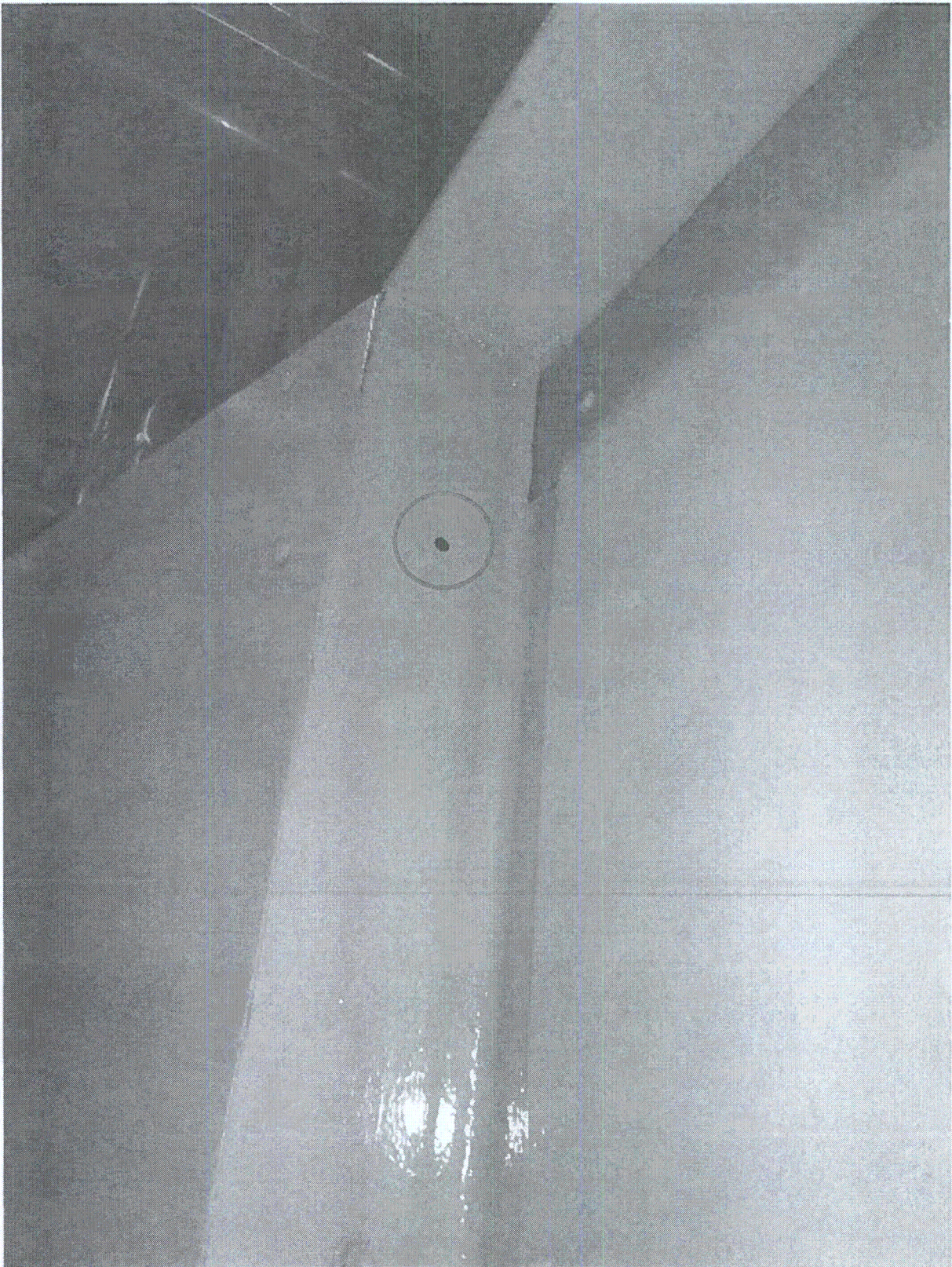
1: Nuts Not Fully Tightened for Conduit Column Support (2R103)



2: Missing Anchor for Cantilever Support Off West Wall (2R103)



3: Missing Anchor for 2H21-P008 and Pliers Not Stored Properly (2R103)



4: Missing Bolt to Enclosure for 2H21-P173 and 2C82-P001 (2R103)

Area Walk-By Checklist (AWC)

 Location: Bldg. REACTOR Floor El. 97 Room, Area¹ NE Diagonal Unit 2

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

There is one anchor bolt missing from a two-bolt support for the tubing near valve 2E11-F252A. Figure 1 shows a weld along the edge of the base-plate closest to the location of the missing anchor bolt. This weld will carry the load that would be carried by the missing anchor. Therefore, the support is seismically acceptable.

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

¹ If the room in which the SWEL item is located is very large (e.g., Turbine Hall), the area selected should be described. This selected area should be based on judgment, e.g., on the order of about 35 feet from the SWEL item.

sStatus: Y N U

Area Walk-By Checklist (AWC)

Location: Bldg. REACTOR Floor El. 97 Room, Area¹ NE Diagonal Unit 2

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

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

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

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

Comments (Additional pages may be added as necessary)

None

Evaluated by: John McFarland

Date: 09/12/2012

Jeff Horton

09/12/2012

Area Walk-By Checklist (AWC)

Location: Bldg. REACTOR Floor El. 97 Room, Area¹ NE Diagonal Unit 2

Photographs

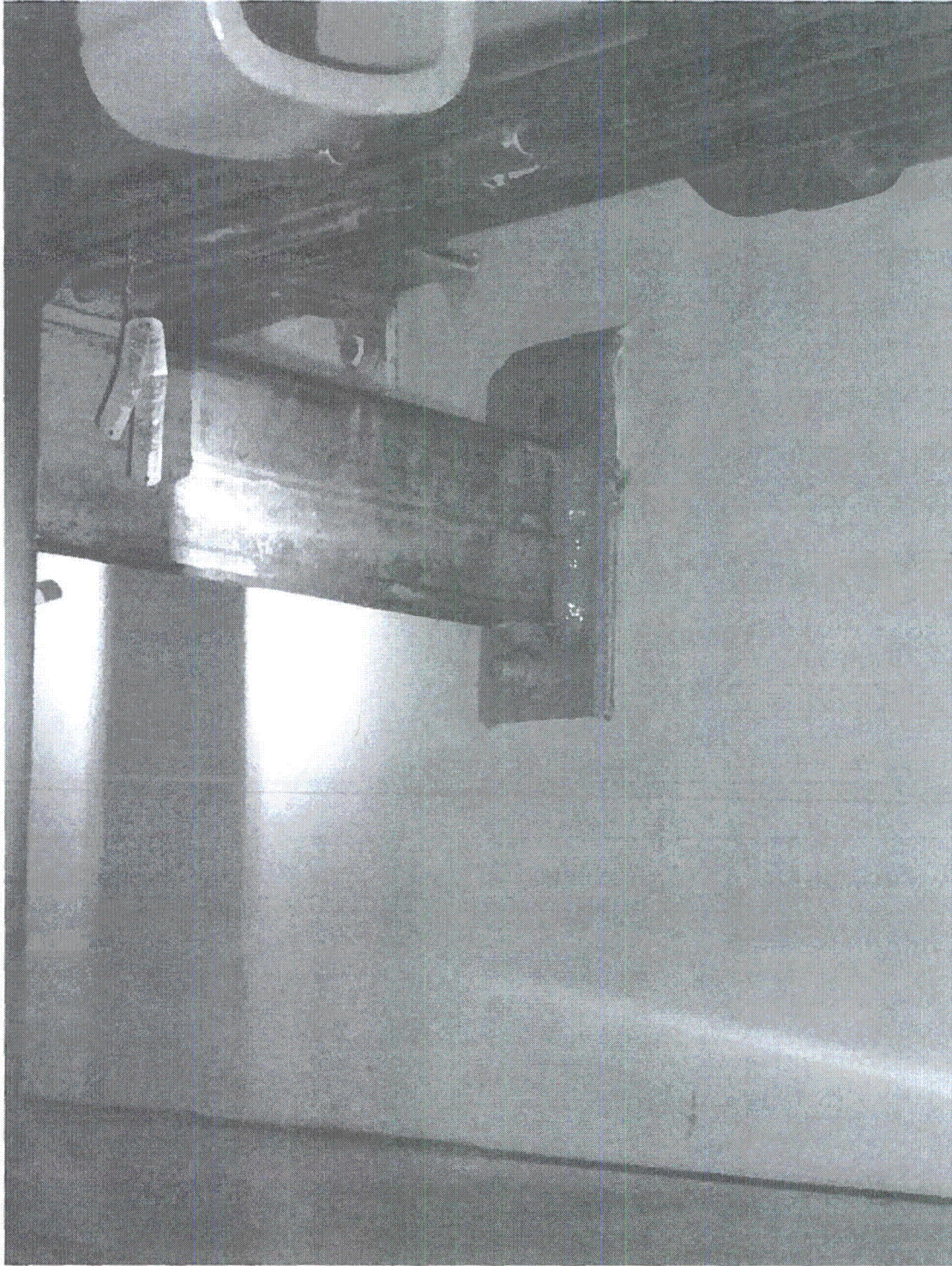


Figure 1 – Tubing Support Missing Bolt (NE Diagonal Unit 2)

Status: Y N U **Area Walk-By Checklist (AWC)**

Location: Bldg. REACTOR Floor El. 106 Room, Area¹ NE Diagonal Unit 2

Instructions for Completing Checklist

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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

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

¹ If the room in which the SWEL item is located is very large (e.g., Turbine Hall), the area selected should be described. This selected area should be based on judgment, e.g., on the order of about 35 feet from the SWEL item.

Status: Y N U

Area Walk-By Checklist (AWC)

Location: Bldg. REACTOR Floor El. 106 Room, Area¹ NE Diagonal Unit 2

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

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

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

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

Comments (Additional pages may be added as necessary)

None

Evaluated by: John McFarland

Date: 09/12/2012

Jeff Horton

09/12/2012

Status: Y N U

Area Walk-By Checklist (AWC)

Location: Bldg. REACTOR Floor El. 106 Room, Area¹ NE Diagonal Unit 2

Photographs

N/A

Status: Y N U **Area Walk-By Checklist (AWC)**Location: Bldg. REACTOR Floor El. 97 Room, Area¹ SE Diagonal Unit 2**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
2. Does anchorage of equipment in the area appear to be free of significant degraded conditions? 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)? 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)? Y N U N/A

¹ If the room in which the SWEL item is located is very large (e.g., Turbine Hall), the area selected should be described. This selected area should be based on judgment, e.g., on the order of about 35 feet from the SWEL item.

Status: Y N U **Area Walk-By Checklist (AWC)**Location: Bldg. REACTOR Floor El. 97 Room, Area¹ SE Diagonal Unit 2

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

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

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

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

Comments (Additional pages may be added as necessary)

There are two loose items behind the 2E11-B001B Heat Exchanger: a small plastic nozzle and a piece of foam insulation that has become dislodged from around a valve. Both items are small and light, and are not near any sensitive equipment. Therefore, the items are judged to not be a potentially adverse seismic condition.

Evaluated by: John McFarlandDate: 09/12/2012Jeff Horton09/12/2012

Status: Y N U

Area Walk-By Checklist (AWC)

Location: Bldg. REACTOR Floor El. 97 Room, Area¹ SE Diagonal Unit 2

Photographs

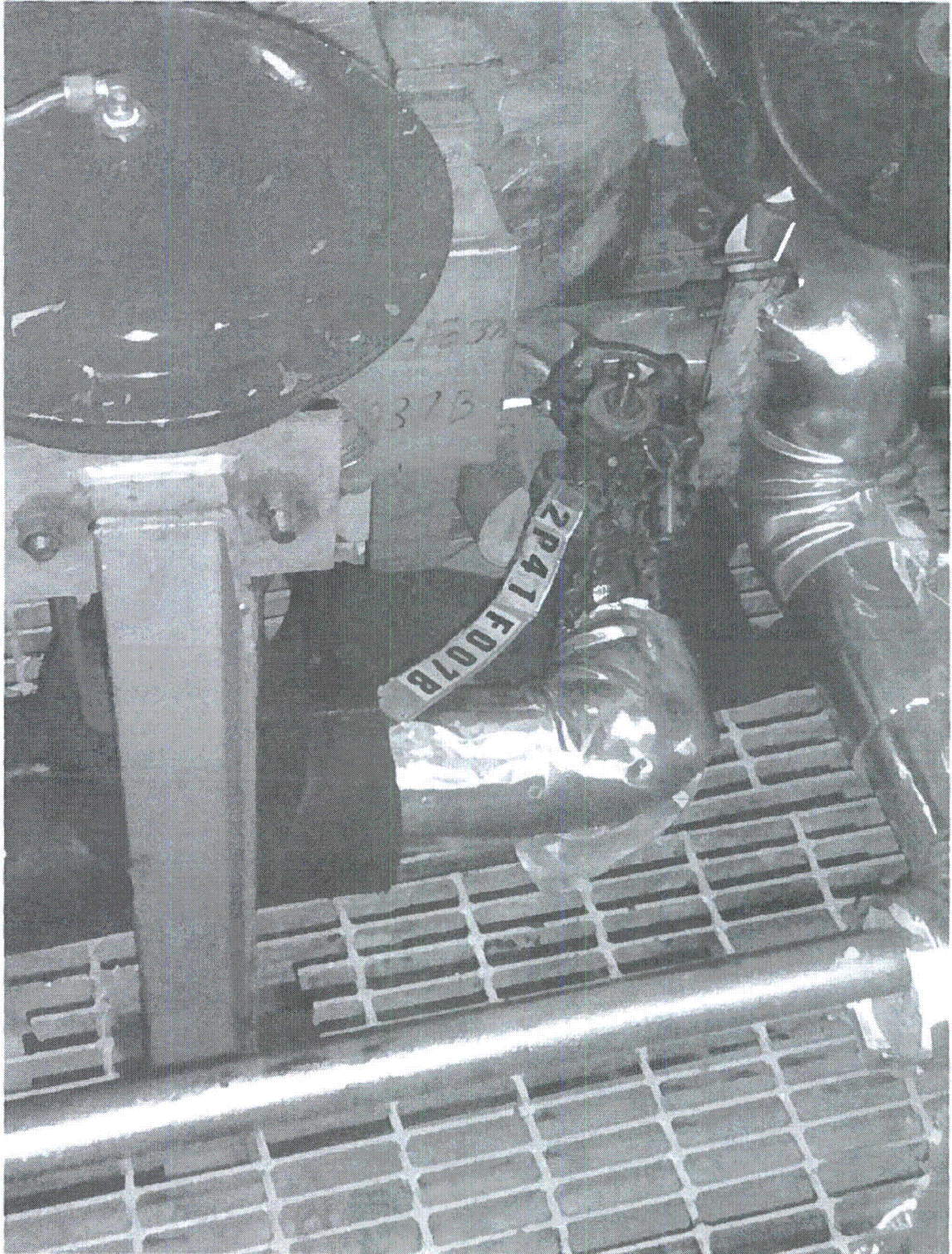


Figure 1 – Loose Pipe Insulation (SE Diagonal Unit 2)

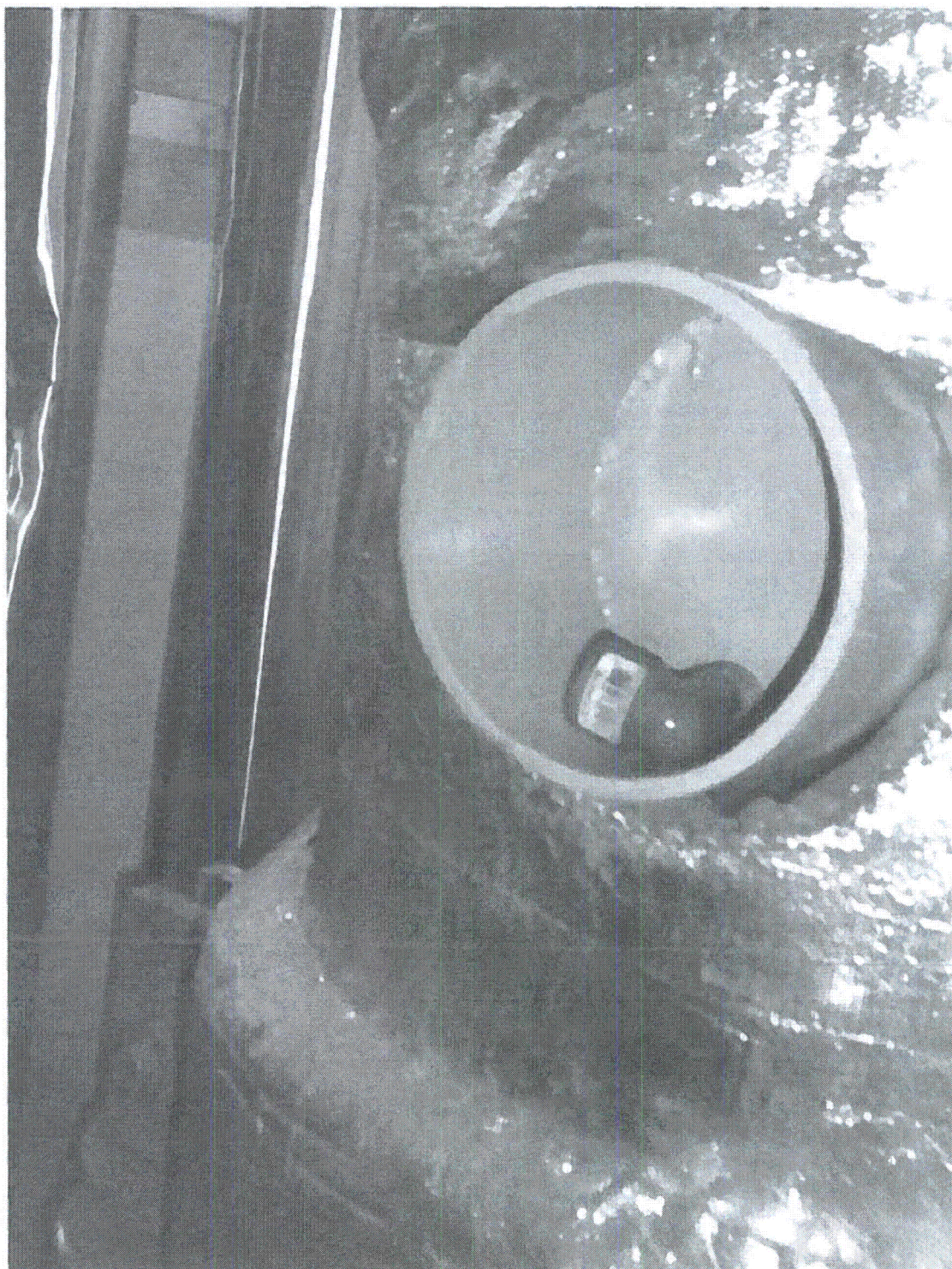


Figure 2 – Loose Plastic Nozzle (SE Diagonal Unit 2)

Status: Y N U **Area Walk-By Checklist (AWC)**Location: Bldg. YARD Floor El. 130 Room, Area¹ Unit 2 Nitrogen Storage Tank Room**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
Oxygen Analyzer on the wall (2T48-R075) has 2 of the 4 bolts missing. Oxygen Analyzer on the wall (2T48-R076) has 1 of the 4 bolts missing. These items are rather light weight and SWEs judged these supports to be seismically adequate, however, CR525168 was initiated to replace these missing bolts.
2. Does anchorage of equipment in the area appear to be free of significant degraded conditions? Y N U N/A
Some surface corrosion on the nearby pipe supports was observed. These were judged to be seismically adequate by SWEs due to very light loads. However, CR525163 was initiated for this purpose to cover the corrosion issue in the area.
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
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

¹ If the room in which the SWEL item is located is very large (e.g., Turbine Hall), the area selected should be described. This selected area should be based on judgment, e.g., on the order of about 35 feet from the SWEL item.

Status: Y N U

Area Walk-By Checklist (AWC)

Location: Bldg. YARD Floor El. 130 Room, Area¹ Unit 2 Nitrogen Storage Tank Room

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

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

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

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

Comments (Additional pages may be added as necessary)

Nitrogen tank vaporizer anchored to floor nearby was judged okay by SWEs. Its anchors have mild surface corrosion but this is judged not to be a seismic concern.

Evaluated by: Kursat Kinali

Kursat Kinali

Date: 9/26/2012

Wesley Williams

Wesley Williams

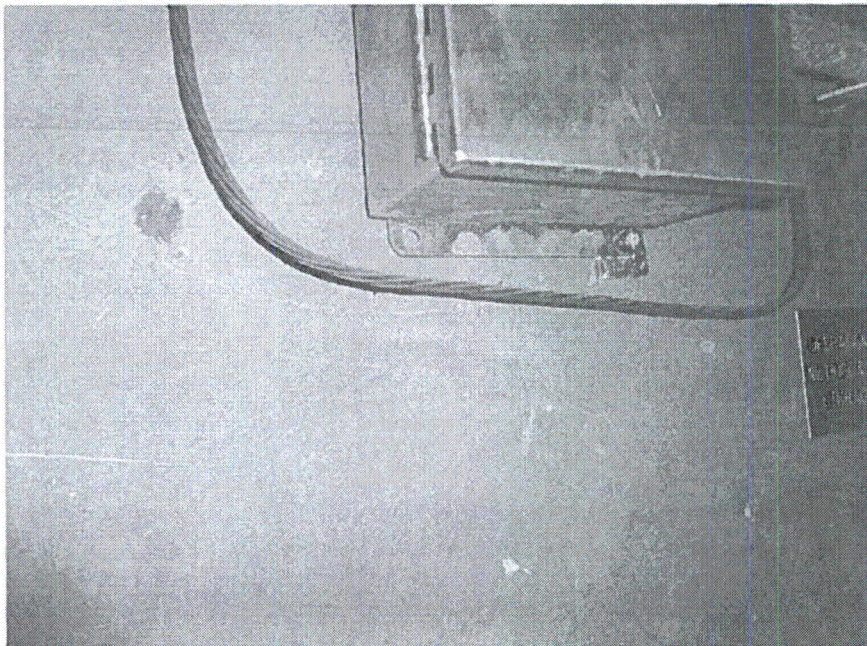
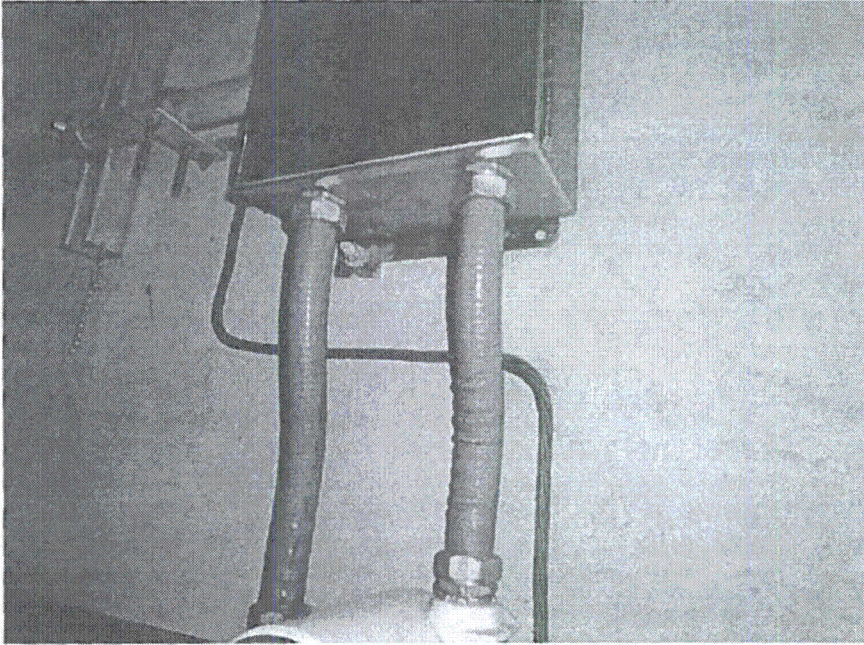
9/26/2012

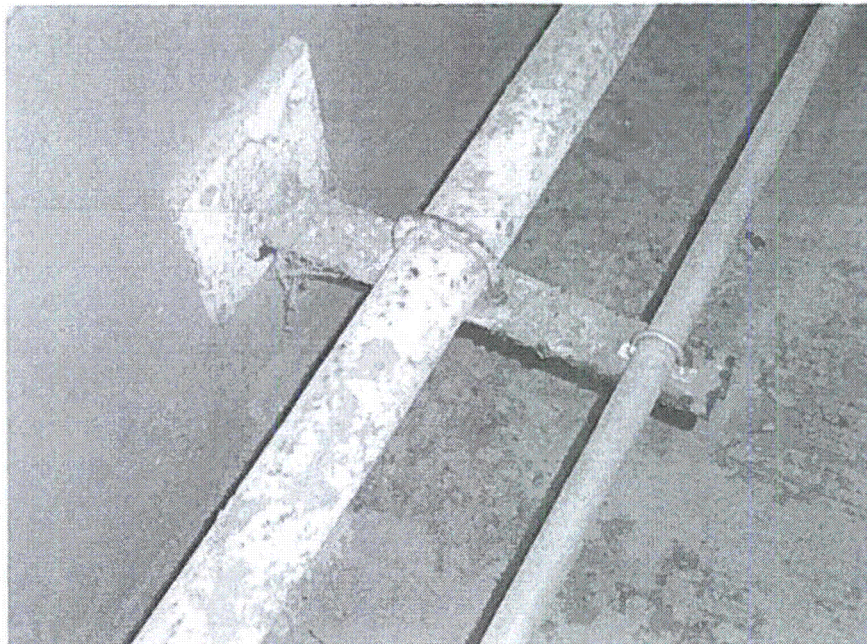
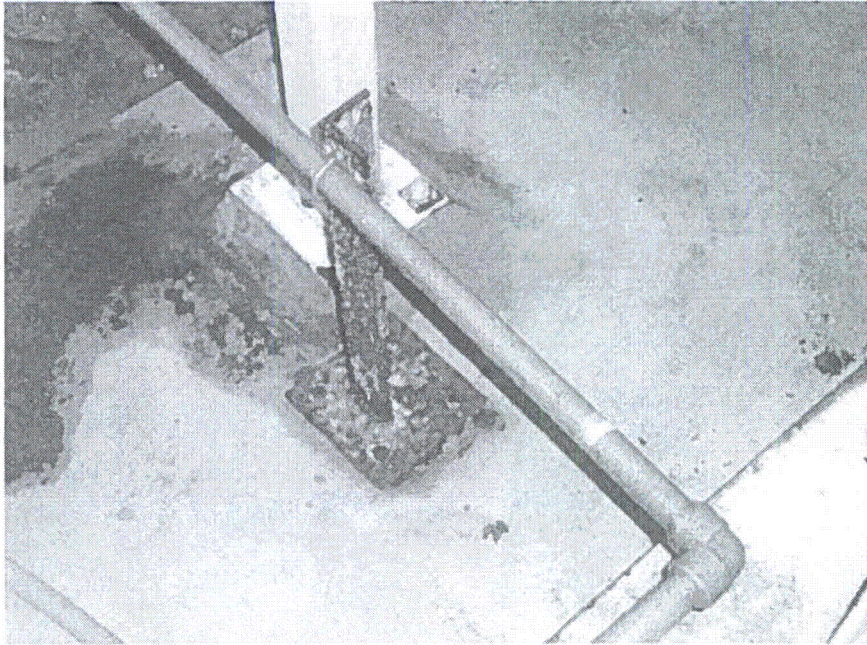
Status: Y N U

Area Walk-By Checklist (AWC)

Location: Bldg. YARD Floor El. 130 Room, Area¹ Unit 2 Nitrogen Storage Tank Room

Photographs





Status: Y N U **Area Walk-By Checklist (AWC)**Location: Bldg. DIESEL Floor El. 130 Room, Area¹ Day Tank Room**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

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

¹ If the room in which the SWEL item is located is very large (e.g., Turbine Hall), the area selected should be described. This selected area should be based on judgment, e.g., on the order of about 35 feet from the SWEL item.

Status: Y N U

Area Walk-By Checklist (AWC)

Location: Bldg. DIESEL Floor El. 130 Room, Area¹ Day Tank Room

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

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

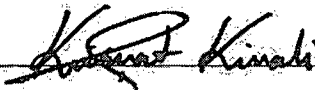
7. Does it appear that the area is free of potentially adverse seismic interactions associated with housekeeping practices, storage of portable equipment, and temporary installations (e.g., scaffolding, lead shielding)? Y N U N/A

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

Comments (Additional pages may be added as necessary)

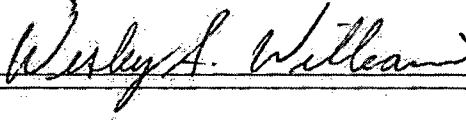
None.

Evaluated by: Kursat Kinali



Date: 9/12/2012

Wesley Williams



9/12/2012

Status: Y N U

Area Walk-By Checklist (AWC)

Location: Bldg. DIESEL Floor El. 130 Room, Area¹ Day Tank Room

Photographs

None.

Status: Y N U **Area Walk-By Checklist (AWC)**Location: Bldg. RB Floor El. 203 Room, Area¹ 2R414 (RH-R18 to south wall)**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

2. Does anchorage of equipment in the area appear to be free of significant degraded conditions? 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)? 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)? Y N U N/A
The lights in the vicinity have hooks which are not fully closed. However, they have lock plugs which will prevent the fall of these lights. Therefore, they are judged as seismically adequate. However, a CR has been initiated to provide ties to restrain the lights better (CR513069).

¹ If the room in which the SWEL item is located is very large (e.g., Turbine Hall), the area selected should be described. This selected area should be based on judgment, e.g., on the order of about 35 feet from the SWEL item.

Status: Y N U **Area Walk-By Checklist (AWC)**Location: Bldg. RB Floor El. 203 Room, Area: 2R414 (RH-R18 to south wall)

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

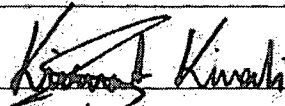
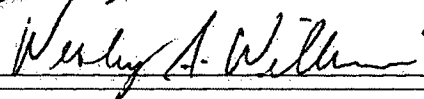
6. Does it appear that the area is free of potentially adverse seismic interactions that could cause a fire in the area? Y N U N/A

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

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

Comments (Additional pages may be added as necessary)

None.

Evaluated by: Kursat KinaliDate: 9/6/2012Wesley Williams9/6/2012

Status: Y N U

Area Walk-By Checklist (AWC)

Location: Bldg. RB Floor El. 203 Room, Area¹ 2R414 (RH-R18 to south wall)

Photographs



Status: Y N U **Area Walk-By Checklist (AWC)**Location: Bldg. Reactor Floor El. 130' Room, Area¹ CRD Hydraulic Unit Area**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
2. Does anchorage of equipment in the area appear to be free of significant degraded conditions? 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)? 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)? Y N U N/A

¹ If the room in which the SWEL item is located is very large (e.g., Turbine Hall), the area selected should be described. This selected area should be based on judgment, e.g., on the order of about 35 feet from the SWEL item.

Status: Y N U

Area Walk-By Checklist (AWC)

Location: Bldg. Reactor Floor El. 130' Room, Area¹ CRD Hydraulic Unit Area

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

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

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

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

Comments (Additional pages may be added as necessary)

SWE's noticed a frayed wire which appears to be a Fire detection wire. The location of this wire is above the Hear here booth in the south-west corner of the 130' elevation of the Reactor Building (See CR-51875). This is not a seismic issue.

518757 JUN 19/29/12

Evaluated by: John McFarland

Date: 09/17/2012

Jeff Horton

09/17/2012

Status: Y N U

Area Walk-By Checklist (AWC)

Location: Bldg. Reactor Floor El. 130' Room, Area¹ CRD Hydraulic Unit Area

Photographs:

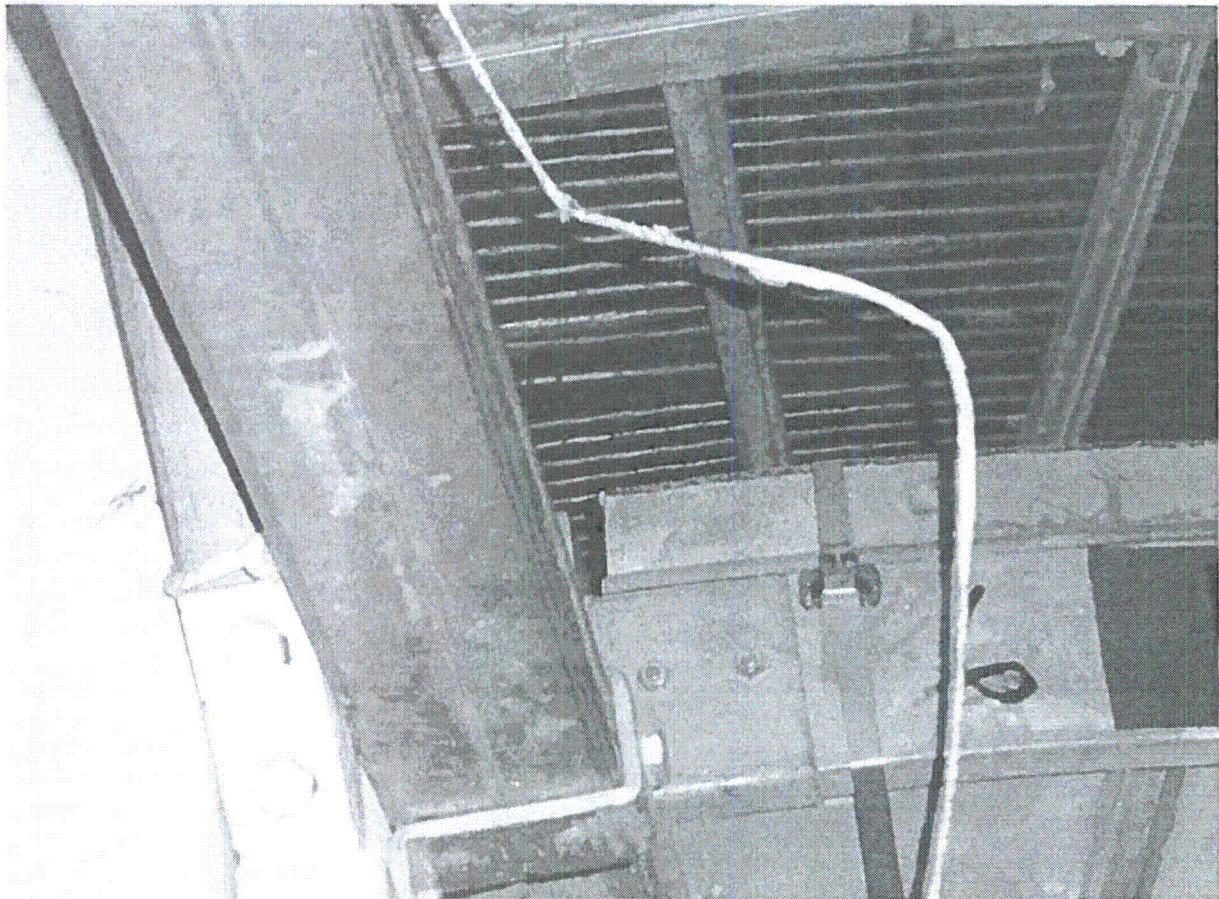


Figure 1 Frayed Wire

Area Walk-By Checklist (AWC)Location: Bldg. Control Floor El. 164 Room, Area¹ Unit 2 Control Room**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
Visible anchors of adjacent cabinets were found to be properly installed and in accordance with the typical configuration.

2. Does anchorage of equipment in the area appear to be free of significant degraded conditions? 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)? Y N U N/A
Ladder was used and permission was obtained to view area above the the hung ceiling. The ceiling was rod hung and tied into rigid structures. HVAC and electrical components in the overhead were properly restrained. See 2-H11-P602 SWC for more details.

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
Unlatched lighting covers were observed at three locations at the rear of the panels. This is not a seismic concern as discussed in the 2-H11-P602 SWC.

¹ If the room in which the SWEL item is located is very large (e.g., Turbine Hall), the area selected should be described. This selected area should be based on judgment, e.g., on the order of about 35 feet from the SWEL item.

Status: Y N U

Area Walk-By Checklist (AWC)

Location: Bldg. Control Floor El. 164 Room, Area¹ Unit 2 Control Room

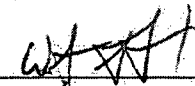

5. Does it appear that the area is free of potentially adverse seismic interactions that could cause flooding or spray in the area? Y N U N/A

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

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
The Xerox plotter in the area was stored at an appropriate distance (>2ft) from the panels and cabinet. The wheels were also locked.

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

Comments (Additional pages may be added as necessary)

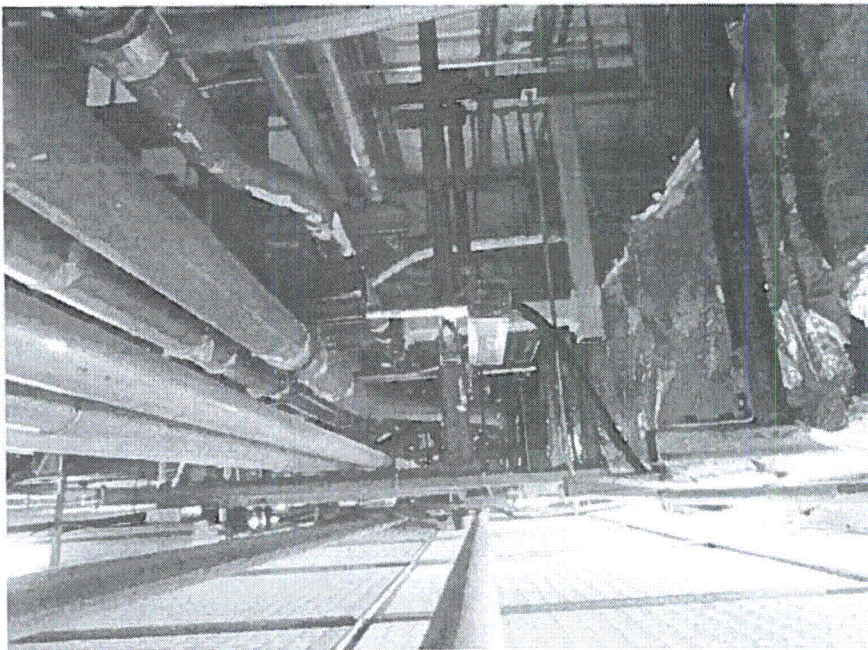
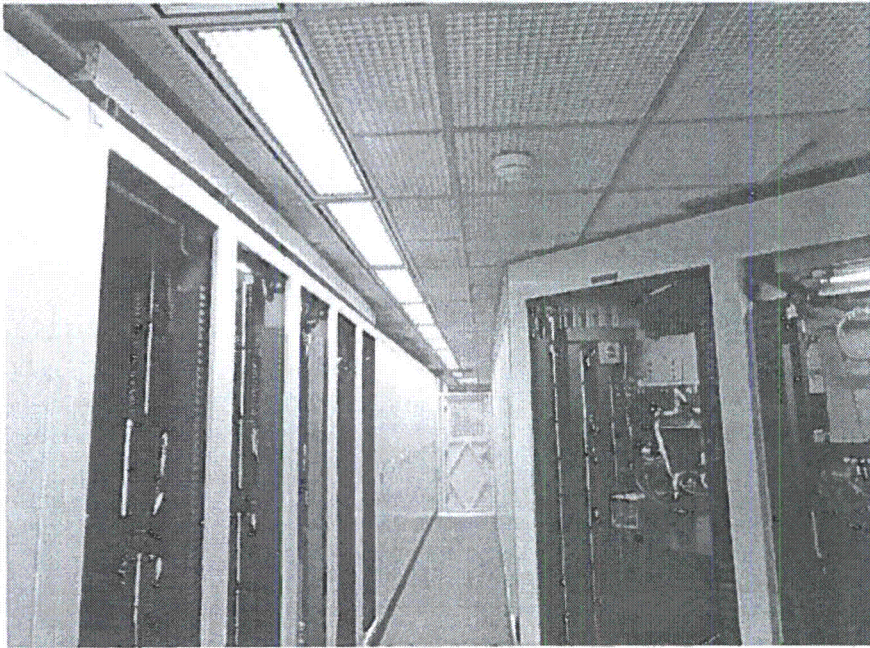
Evaluated by: Winston Stewart  Date: 9/18/2012
Kursat Kinali  9/18/2012

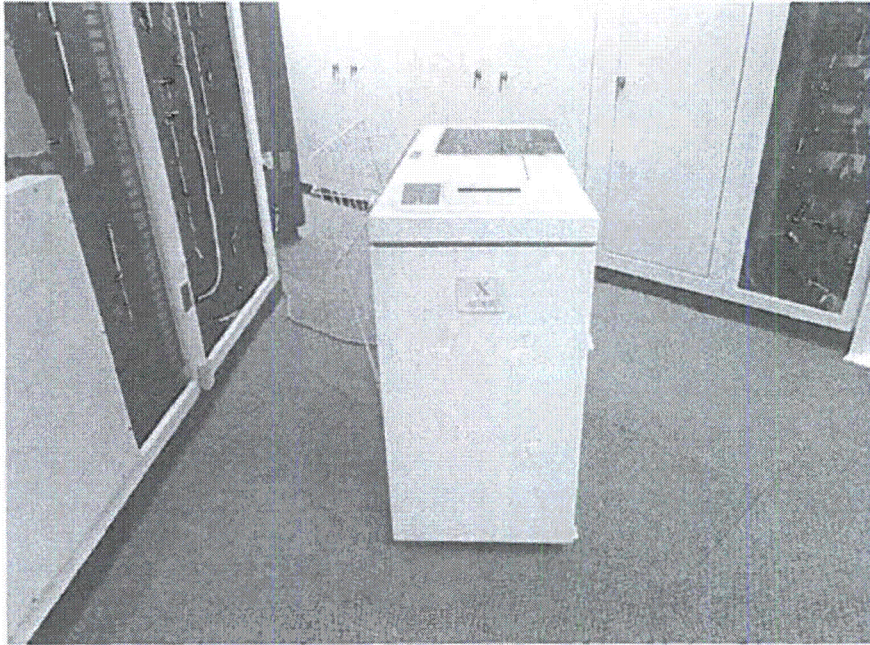
Status: Y N U

Area Walk-By Checklist (AWC)

Location: Bldg. Control Floor El. 164 Room, Area¹ Unit 2 Control Room

Photographs





Area Walk-By Checklist (AWC)Location: Bldg. REACTOR Floor El. 203 Room, Area¹ RH-R18**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

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

There is evidence of a water leak behind several of the base plates on the wall at R14. There is some mild corrosion of the bolts and base plates due to the leak, but the rust stains on the walls indicate that the corrosion is mild. Since oxidation is only on the surface, the anchors are not degraded. Therefore, the anchors are judged not be a seismic 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

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

The suspended light above safety-related AOV 2G41-F054 on the 203' elevation of the Unit 2 Reactor Building is hung with an open hook and is not safety-wired to the supporting steel. During a seismic event, it is possible that the light will become dislodged from the hook. The light is powered with a twist lock connection, which will restrain the light in the event of a fall. Therefore, it is judged to not be a potentially adverse seismic condition.

¹ If the room in which the SWEL item is located is very large (e.g., Turbine Hall), the area selected should be described. This selected area should be based on judgment, e.g., on the order of about 35 feet from the SWEL item.

Status: Y N U **Area Walk-By Checklist (AWC)**Location: Bldg. REACTOR Floor El. 203 Room, Area¹ RH-R18

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

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

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

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

Comments (Additional pages may be added as necessary)

None.

Evaluated by: John McFarland

Date: 09/12/2012

Jeff Horton

09/12/2012

Status: Y N U

Area Walk-By Checklist (AWC)

Location: Bldg. REACTOR Floor El. 203 Room, Area¹ RH-R18

Photographs

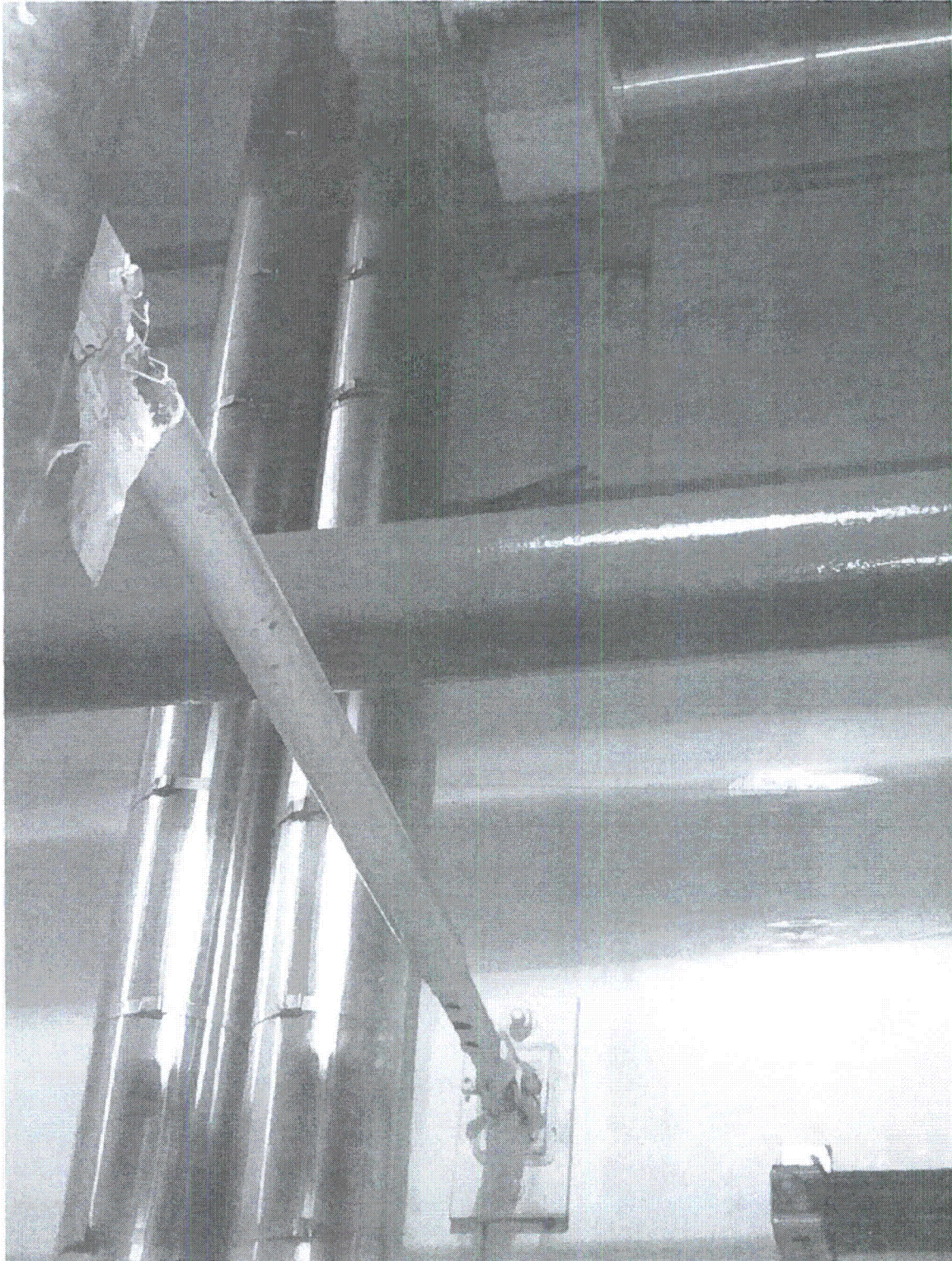


Figure 1 – Surface Corrosion behind Base Plates (RH-R18 Unit 2)



Figure 2 – Suspended Light over Valve (RH-R18 Unit 2)

Status: Y N U **Area Walk-By Checklist (AWC)**Location: Bldg. Reactor Floor El. 87' Room, Area¹ Torus Room**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
2. Does anchorage of equipment in the area appear to be free of significant degraded conditions? Y N U N/A
There is a four bolt base plate vertical support for a small bore air supply pipe running to 2E51-F003 that is missing one anchor bolt on the 87' elevation in Bay 10 of the Torus Room. This support is approximately 2 feet off the floor and it supports the end of the rigid pipe. The remaining portion of this system is flex hose to 2E51-F003 (See Figure 2). There is a similar support a short distance away that is intact. The pipe is well supported on the wall by its attachment to 2P52-A001. The support does not carry a large load and at this elevation would not see a significant seismic acceleration. Therefore, the SWE's have determined that the base-plate configuration is seismically acceptable. This bolt does not need to be installed.
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

¹ If the room in which the SWEL item is located is very large (e.g., Turbine Hall), the area selected should be described. This selected area should be based on judgment, e.g., on the order of about 35 feet from the SWEL item.

Status: Y N U **Area Walk-By Checklist (AWC)**Location: Bldg. Reactor Floor El. 87' Room, Area¹ Torus Room

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

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

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

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


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

Comments (Additional pages may be added as necessary)*None*

Status: Y N U

Area Walk-By Checklist (AWC)

Location: Bldg. Reactor Floor El. 87' Room, Area¹ Torus Room

Evaluated by: John McFarland  Date: 09/17/2012

Jeff Horton  09/17/2012

Status: Y N U

Area Walk-By Checklist (AWC)

Location: Bldg. Reactor Floor El. 87' Room, Area¹ Torus Room

Photographs:

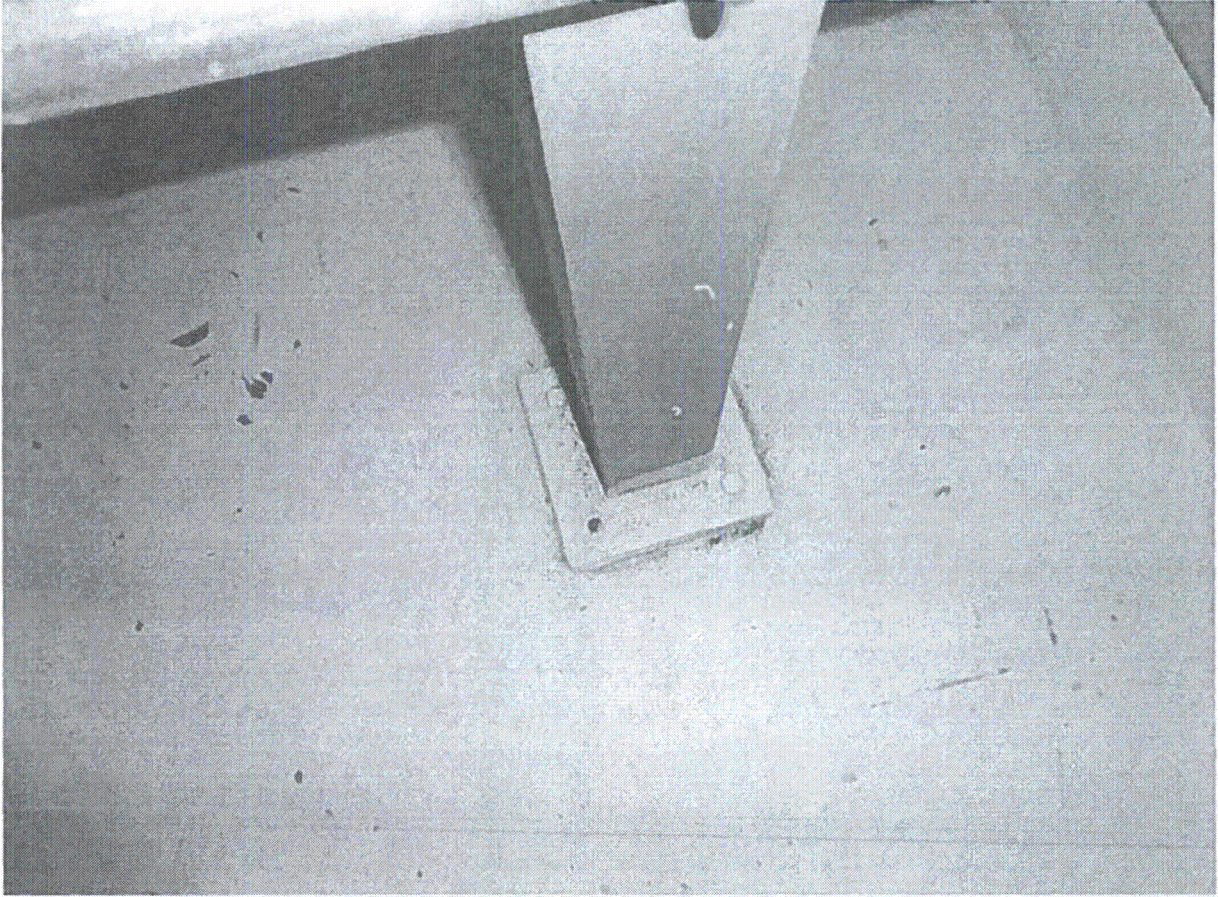


Figure 1 Conduit support in Torus Room Bay 10 with Missing Anchor

Note: Picture was taken looking down at the floor.

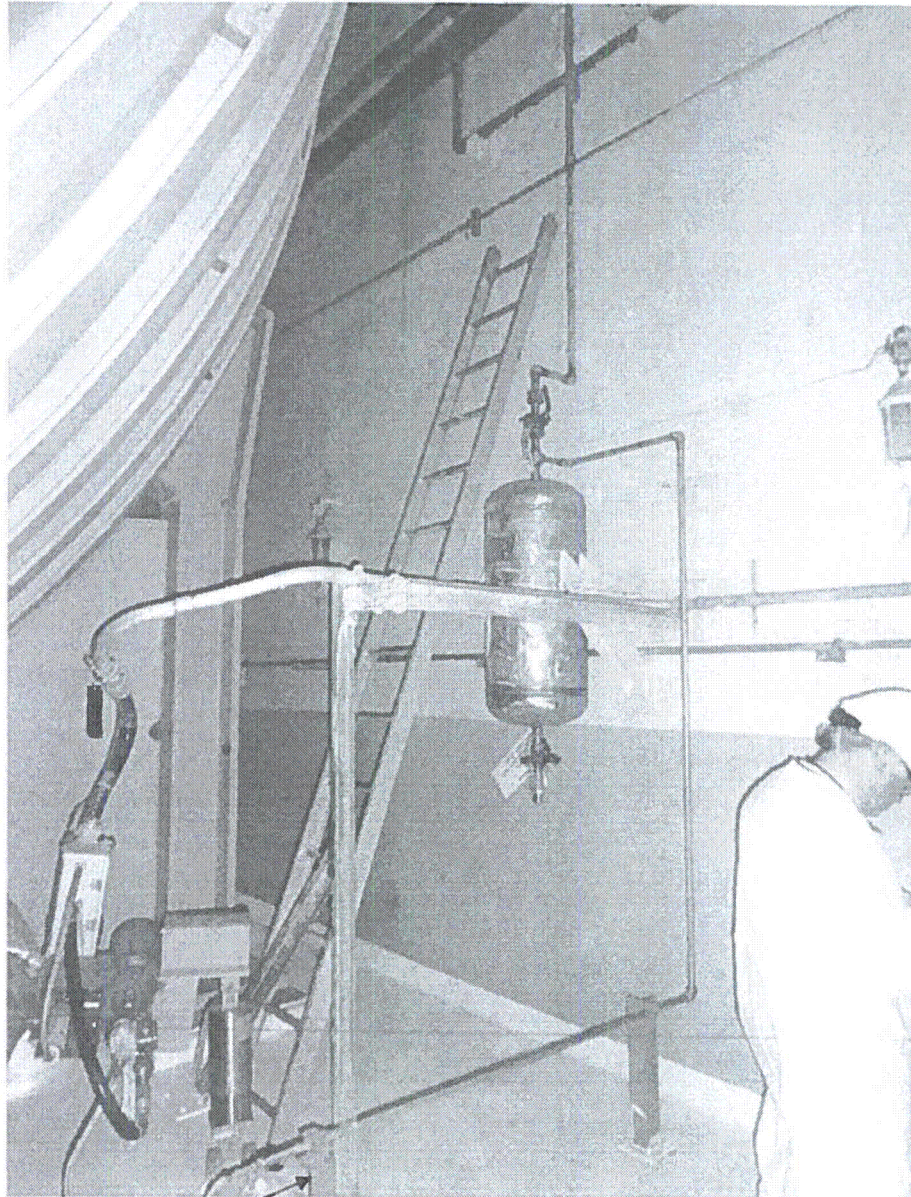


Figure 2 Showing Air Line to 2E51-F003 and supports

Support with missing anchor bolt
shown in Figure 1

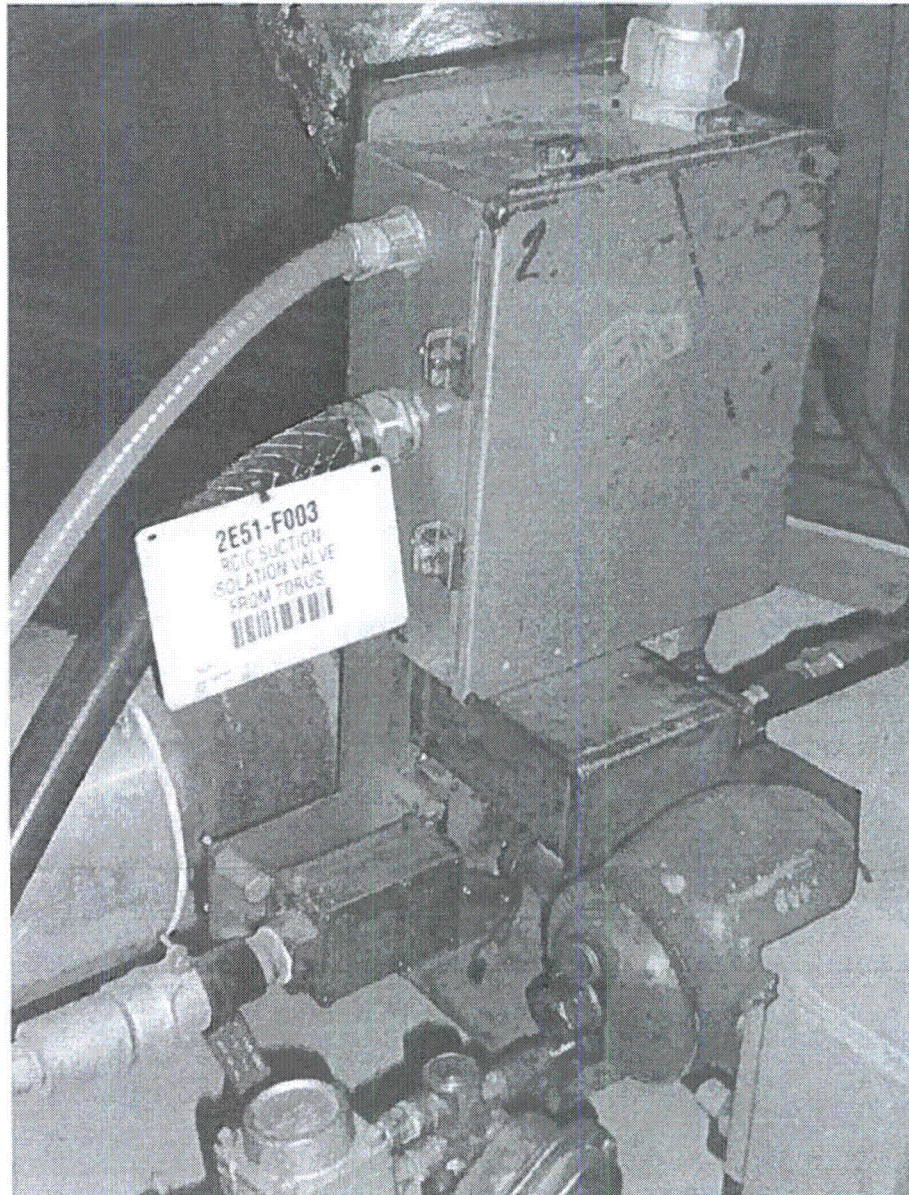


Figure 3 2E51-F003 Component that Conduit is connected

Area Walk-By Checklist (AWC)Location: Bldg. INTAKE Floor El. 111 Room, Area¹ Pump Room**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
2. Does anchorage of equipment in the area appear to be free of significant degraded conditions? Y N U N/A
Mild common corrosion is present in areas near the pumps and baseplates of the pumps. Some supporting frame members overhead (channels) also have mild surface corrosion. These are judged not to be a seismic concern since the corrosion is only mild surface corrosion at this time. However, a CR has been initiated (CR516327) to document this wide spread issue and to take steps to ensure that corrosion will not lead to seismically adverse conditions in the future.
Mild surface corrosion was found in suction pit. It was judged not to be a seismic concern. However, a CR has been initiated (CR519024) to document this issue and to monitor and track to ensure any potential future corrosion does not create an adverse seismic condition.
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
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

¹ If the room in which the SWEL item is located is very large (e.g., Turbine Hall), the area selected should be described. This selected area should be based on judgment, e.g., on the order of about 35 feet from the SWEL item.

Status: Y N U

Area Walk-By Checklist (AWC)

Location: Bldg: INTAKE Floor El. 111 Room, Area: Pump Room

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

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

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

A broken name plate was found in the area, 2E11-F205C. A CR has been initiated to fix this issue (CR519050). It is not a seismic concern.

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

Comments (Additional pages may be added as necessary)

None.

Evaluated by: WESLEY WILLIAMS

Wesley A. Williams

Date: 9/12/2012

KURSAT KINALI

Kursat Kinali

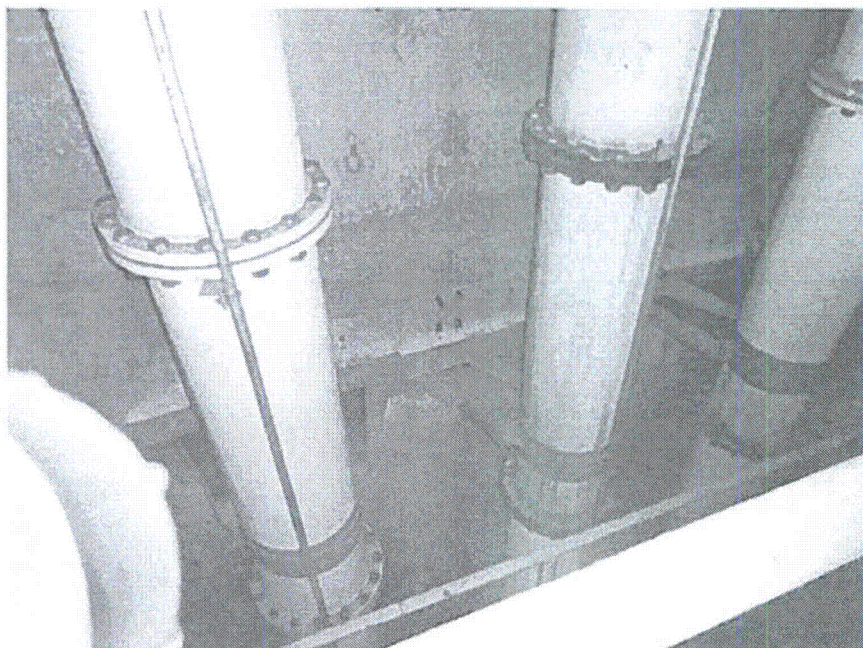
9/12/2012

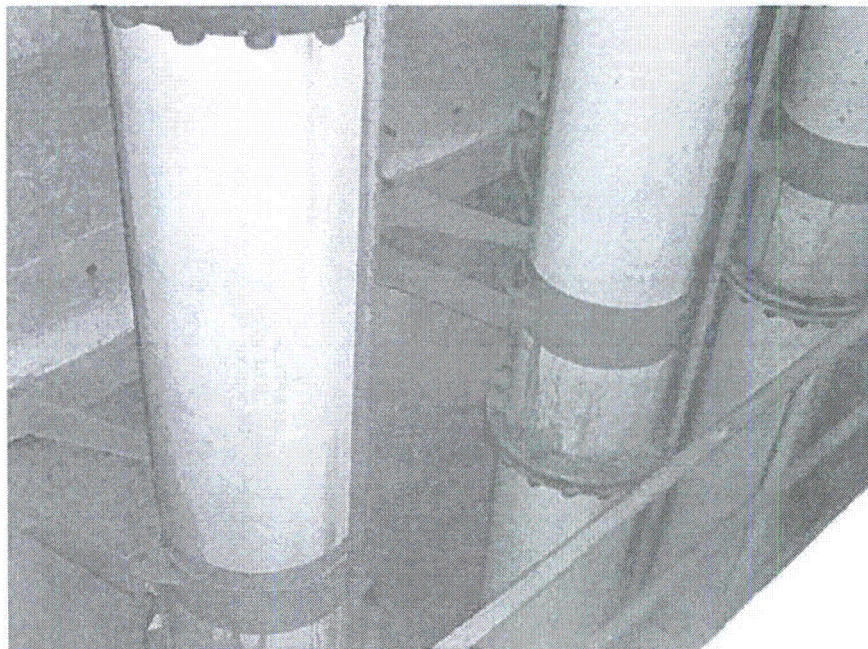
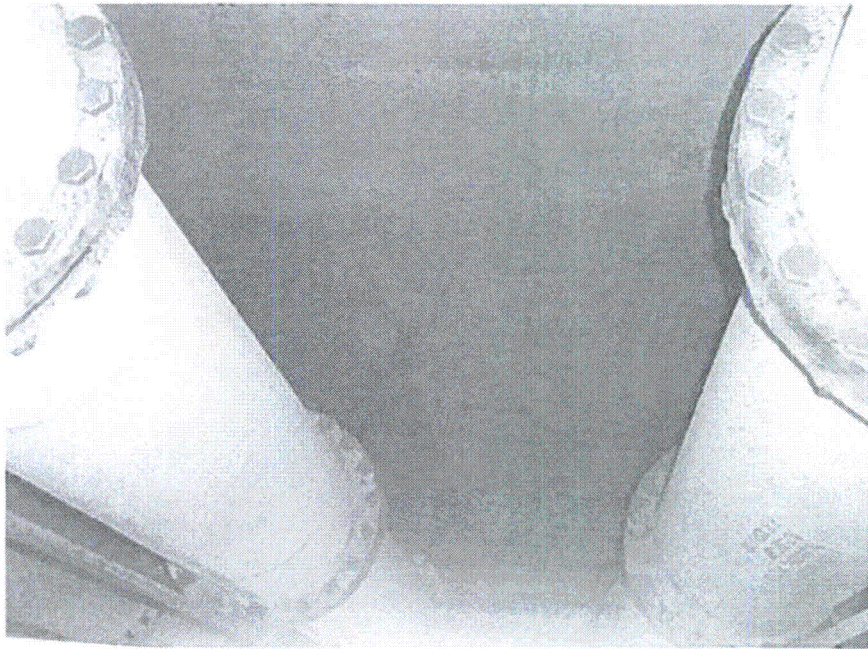
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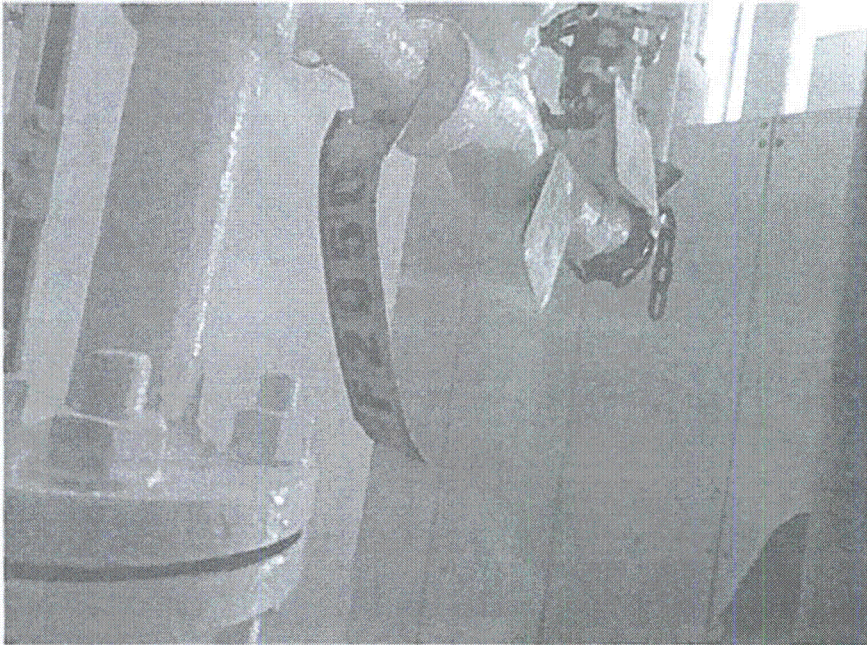
Area Walk-By Checklist (AWC)

Location: Bldg. INTAKE Floor El. 111 Room, Area¹ Pump Room

Photographs







ATTACHMENT 5

UNIT 2 - IPEEE VULNERABILITIES INFORMATION

NO. SNCH082-RPT-02

**This attachment contains Appendix H from the report entitled,
“Edwin I. Hatch, Unit 1 and Unit 2, Individual Plant Examination of
External Events – Seismic”**

SUMMARY OF IPEEE EQUIPMENT OUTLIERS PLANT HATCH UNIT 2

Attachment 1 contains a summary of all Safe Shutdown Equipment List components which require a modification to achieve a HCLPF capacity of at least 0.3 g pga.. This appendix contains the following information, sorted by equipment identification number.

<u>Column Heading</u>	<u>Description</u>
Equipment Identification Number	Equipment identification number
Equipment Class	Equipment class (see table 1 of this appendix)
Equipment Description	Brief description of equipment
Equipment Location	Building and elevation where equipment is located
Outlier Description	Brief description of outliers
Outlier Resolution	Brief description of outlier resolution
Modification Status	If an outlier is being resolved by a plant modification, this column gives the Design Change Request (DCR) number or states that a Maintenance Work Order (MWO) will be used. The status of the modification is shown as "pending" or "complete."

IPEEE EQUIPMENT CLASS DESIGNATIONS

Equipment Class (Column 2)	Description
01	Motor control centers
02	Low-voltage switchgear
03	Medium-voltage switchgear
04	Transformers
05	Horizontal Pumps
06	Vertical pumps
07	Fluid-operated valves
08A	Motor-operated valves
08B	Solenoid-operated valves
09	Fans
10	Air handlers
11	Chillers
12	Air compressors
13	Motor generators
14	Distribution panels
15	Batteries on racks
16	Battery chargers and inverters
17	Engine generators
18	Instruments on racks
19	Temperature sensors
20	Instrumentation and control panels and cabinets
21	Tanks and heat exchangers

*This page is retyped from the original IPEEE Equipment Class designations

Equipment ID Number	Equipment Class	Equipment Description	Equipment Location	Outlier Description	Outlier Resolution	Modification Status
2E11-C002B	06	RHR pump 2B	Reactor Building el 87 ft	Potential interaction with adjacent beam.	Trim beam flange to provide adequate clearance.	Completed 07/24/1996 DCR 94-017
2H11-P601 2H11-P606 2H11-P614 2H11-P652	20	Control room panel	Control Building el 164 ft	Potential interaction from HVAC diffuser in ceiling.	Restrain diffuser.	Completed 07/24/1996 DCR 94-017
2H11-P602 2H11-P650	20	Control room panel	Control Building el 164 ft	1. Potential interaction from HVAC diffuser in ceiling. 2. Potential interaction from nearby furniture.	1. Restrain diffuser. 2. Remove or restrain furniture.	1. Completed 07/24/1996 DCR 94-017 2. Pending MWO
2H11-P603	20	Control room panel	Control Building el 164 ft	Potential interaction from nearby furniture.	Remove or restrain furniture.	Pending MWO
2H11-P609	20	Control room panel	Control Building el 164 ft	1. Potential interaction from HVAC diffuser in ceiling. 2. Loose cable in panel could potentially impact relays.	1. Restrain diffuser. 2. Restrain cable.	1. Completed 07/24/1996 DCR 94-017 2. Pending MWO
2H11-P611	20	Control room panel	Control Building el 164 ft	Broken door latch could cause door to rattle.	Repair or replace door latch.	Pending MWO
2H11-P612 2H11-P613	20	Control room panel	Control Building el 164 ft	Instruments on slides not restrained.	Repair or replace retaining clips.	Pending MWO
2H11-P622	20	Control room panel	Control Building el 164 ft	1. Potential interaction from HVAC diffuser in ceiling. 2. Gap under panel could potentially cause relay chatter.	1. Restrain diffuser. 2. Install shims or grout under panel.	1. Completed 07/24/1996 DCR 94-017 2. Pending MWO

Equipment ID Number	Equipment Class	Equipment Description	Equipment Location	Outlier Description	Outlier Resolution	Modification Status
2H11-P656	20	Control room panel	Control Building el 164 ft	Potential interaction from adjacent panel 2H11-P663 which is supported on isolators.	Modify panel 2H11-P663 anchorage.	Completed 07/24/1996 DCR 94-017
2H11-P664	20	Control room panel	Control Building el 164 ft	<ol style="list-style-type: none"> 1. Potential interaction from materials stored near panel. 2. Relay has cracked case and missing retainer clips. 3. Anchorage and load path do not meet GIP screening criteria. 	<ol style="list-style-type: none"> 1. Remove or restrain materials. 2. Repair or replace relay. 3. Modify anchorage. 	<ol style="list-style-type: none"> 1. Pending MWO 2. Pending MWO 3. Completed 07/24/1996 DCR 94-017
2H11-P670 2H11-P671 2H11-P672 2H11-P673 2H11-P674 2H11-P675 2H11-P676 2H11-P677 2H11-P678 2H11-P679	20	Control room panel	Control Building el 164 ft	Anchorage and load path for these panels does not meet GIP screening criteria. Panels 2H11-P674, P675, and P679 are on the SSEL; panels P670, P671, P672, P673, P676, P677, and P678 are not on the SSEL but could potentially impact other SSEL panels.	Modify anchorage for panels 2H11-P670 through 2H11-P679.	Completed 07/24/1996 DCR 94-017
2H11-P691 2H11-P700	20	Control room panel	Control Building el 164 ft	SRT could not confirm that equipment pad has reinforcing and adequate load path to the floor slab.	Modify anchorage or add brace at top of panel.	Completed 07/24/1996 DCR 94-017
2H21-P200	20	Diesel generator relay panel	Diesel Generator Building el 130 ft	<ol style="list-style-type: none"> 1. Potential impact with adjacent panel and MCC not bolted together. 2. Potential interaction from overhead light fixture. 	<ol style="list-style-type: none"> 1. Connect panels and MCC together to prevent impact. 2. Tie up light fixture to prevent falling. 	<ol style="list-style-type: none"> 1. Completed 05/16/1994 DCR 91-145 2. Completed 10/11/1991 DCR 90-10

Equipment ID Number	Equipment Class	Equipment Description	Equipment Location	Outlier Description	Outlier Resolution	Modification Status
2H21-P202	20	Diesel generator relay panel	Diesel Generator Building el 130 ft	Potential impact with adjacent panel and MCC not bolted together.	Connect panels and MCC together to prevent impact.	Completed 05/16/1994 DCR 91-144
2H21-P230	20	Diesel generator relay panel	Diesel Generator Building el 130 ft	1. Relays mounted on flexible plate inside panel could potentially cause relay chatter. 2. Potential interaction from overhead light fixture.	1. Modify or replace mounting plate. 2. Tie up light fixture to prevent falling.	1. Completed 07/24/1996 DCR 94-017. 2. Completed 10/11/1991 DCR 90-10
2H21-P231	20	Diesel generator relay panel	Diesel Generator Building el 130 ft	Relays mounted on flexible plate inside panel could potentially cause relay chatter.	Modify or replace mounting plate.	Completed 07/24/1996 DCR 94-017
2H21-P232	20	Diesel generator relay panel	Diesel Generator Building el 130 ft	1. Potential impact with adjacent panel not bolted together. 2. Relays mounted on flexible plate inside panel could potentially cause relay chatter.	1. Connect panels together to prevent impact. 2. Modify or replace mounting plate.	1. Completed 05/16/1994 DCR 91-144 2. Completed 07/24/1996 DCR 94-017
2P41-N303A 2P41-N303B	18	PSW discharge pressure transmitter	Intake structure valve pit el 88 ft	Excessive corrosion on base plate and anchor bolts.	Modify base plate and anchorage.	Completed 07/24/1996 DCR 94-017
2R22-S005 0	3	4160V station service switchgear	Diesel Generator Building el 130 ft	1. Inadequate load path. 2. Potential interaction from overhead light fixture.	1. Install additional anchorage. 2. Tie up light fixture to prevent falling.	1. Completed 07/24/1996 DCR 94-017 2. Completed 10/11/1991 DCR 90-10
2R22-S007 0	3	4160V station service switchgear	Diesel Generator Building el 130 ft	Inadequate load path.	Install additional anchorage.	Completed 07/24/1996 DCR 94-017
2R24-S009	01	Motor control center	Intake structure el 111 ft	Anchorage does not meet GIP screening criteria.	Modify anchorage.	Completed 07/24/1996 DCR 94-017

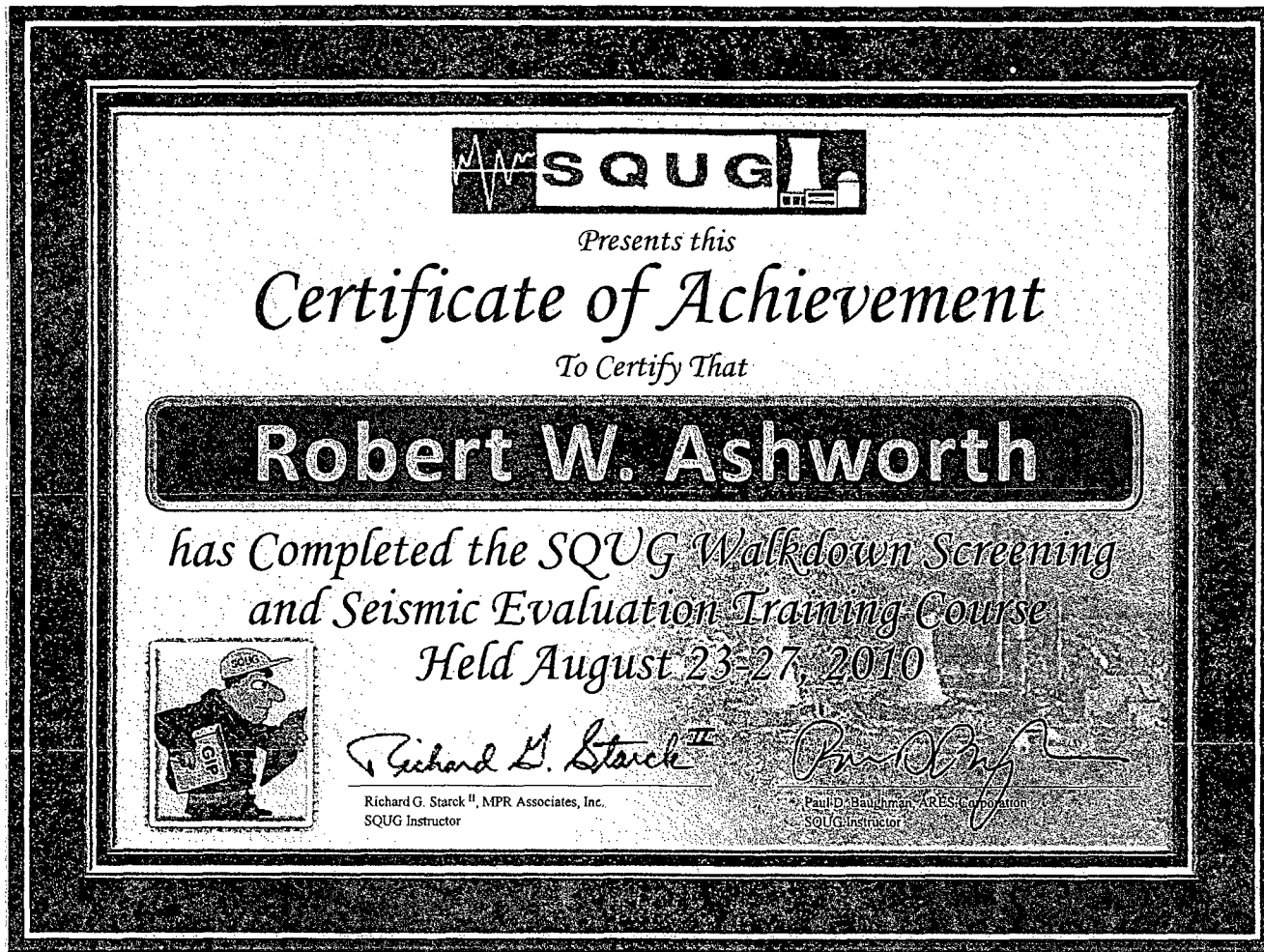
Equipment ID Number	Equipment Class	Equipment Description	Equipment Location	Outlier Description	Outlier Resolution	Modification Status
2R24-S012A 2R24-S012B	01	Motor control center	Reactor Building el 164 ft	<ol style="list-style-type: none"> 1. Potential impact between 2R24-S012A and B which are not bolted together. 2. Center sections of 2R24-S012B are not bolted together. 	<ol style="list-style-type: none"> 1. Connect 2R24-S012A to 2R24-S012B 2. Connect center sections of 2R24-S012B to prevent impact 	<ol style="list-style-type: none"> 1. Completed 7/24/1996 DCR 94-017 2. Pending MWO
2R25-S025 2R24-S027	01	Motor control center	Diesel Generator Building el 130 ft	Anchorage does not meet GIP screening criteria.	Modify anchorage	Completed 05/16/1994 DCR 91-144 & 91-145
2T41-B005B	10	HPCI pump room cooler	Reactor Building el 87 ft	Overhead duct supports could potentially collapse.	Modify duct supports.	Completed 07/24/1996 DCR 94-017
2T48-A001	21	Nitrogen storage tank	Yard el 130 ft	Wood roof structure could potentially fall on tank and attached piping.	Modify roof structure to prevent collapse.	Completed 06/17/1996 MDC 94-5028
2X41-RH	Relay	Potter & Brumfield PR11DY relays located in panels 2X43-P003A and 2X43-P003B	Diesel Generator Building el 130 ft	Essential relays not verified for chatter.	Replace relays.	Completed 07/24/1996 DCR 94-017

*This page is retyped from the original IPEEE Equipment Class designations

ATTACHMENT 6

UNIT 2 – SEISMIC WALKDOWN ENGINEER CERTIFICATIONS

NO. SNCH082-RPT-02





Certificate of Completion

Robert W. Ashworth

**Training on Near Term Task Force
Recommendation 2.3 - Plant Seismic Walkdowns**

July 3, 2012

Date

A handwritten signature in black ink, appearing to read "Caroline S. Schlaseman", is written over a horizontal line.

Caroline S. Schlaseman, P.E.
Instructor



Certificate of Achievement

This is to Certify that

Melanie H. Brown

has Completed the SQUG Walkdown Screening
and Seismic Evaluation Training Course



January 16, 2002


Date of Course

Owen M. Scott

SQUG Representative
Owen M. Scott

Donald P. Moore

Training Course Administrator
Donald P. Moore

 **ENERCON**

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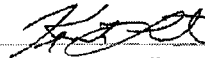
is hereby granted to

Jeff Horton

for successful completion of

**TRAINING ON NEAR TERM TASK FORCE
RECOMMENDATION 2.3
*PLANT SEISMIC WALKDOWNS***

Awarded: 7/26/2012 in Mt. Arlington, NJ



Kenneth Whitmore

Certified Seismic Walkdown Engineer
Alexandria, VA – 6/20/2012



Excellence—Every project. Every day.

Certificate of Completion

is hereby granted to

Patrick Kelly

for successful completion of

**TRAINING ON NEAR TERM TASK FORCE
RECOMMENDATION 2.3
*PLANT SEISMIC WALKDOWNS***

Awarded: 7/11/2012 in Kennesaw, GA

A handwritten signature in black ink, appearing to read 'Kevin Bessell', written over a horizontal line.

Kevin Bessell
Certified Seismic Walkdown Engineer
Palo Alto, CA – 6/13/2012

A handwritten signature in black ink, appearing to read 'Kenneth Whitmore', written over a horizontal line.

Kenneth Whitmore
Certified Seismic Walkdown Engineer
Alexandria, VA – 6/20/2012



Certificate of Completion

Kursat Kinali

**Training on Near Term Task Force
Recommendation 2.3
- Plant Seismic Walkdowns**

July 27, 2012

Date

Robert K. Kassawara
EPRI Manager,
Structural Reliability & Integrity



Excellence—Every project. Every day.

Certificate of Completion

is hereby granted to

Johnathon McFarland

for successful completion of

TRAINING ON NEAR TERM TASK FORCE

RECOMMENDATION 2.3

PLANT SEISMIC WALKDOWNS

Awarded: 7/11/2012 in Kennesaw, GA

A handwritten signature in black ink, appearing to read 'Kevin Bessell', written over a horizontal line.

Kevin Bessell
Certified Seismic Walkdown Engineer
Palo Alto, CA – 6/13/2012

A handwritten signature in black ink, appearing to read 'Kenneth Whitmore', written over a horizontal line.

Kenneth Whitmore
Certified Seismic Walkdown Engineer
Alexandria, VA – 6/20/2012



Certificate of Achievement

This is to Certify that

Raymond M. Steele

*has Completed the SQUG Walkdown Screening
and Seismic Evaluation Training Course*

Held June 11-15, 2007



Richard G. Starck II, MPR Associates, Inc.
SQUG Instructor

Paul D. Baughman, ARES Corporation
SQUG Instructor



Presents this

Certificate of Achievement

To Certify That

Winston Stewart

*has Completed the SQUG Walkdown Screening
and Seismic Evaluation Training Course
Held August 23-27, 2010*



Richard G. Starck II

Richard G. Starck II, MPR Associates, Inc.
SQUG Instructor

Paul D. Baughman

Paul D. Baughman, ARES Corporation
SQUG Instructor

EPRI | ELECTRIC POWER
RESEARCH INSTITUTE

Certificate of Completion

Winston Stewart

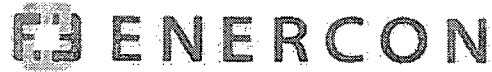
**Training on Near Term Task Force
Recommendation 2.3
- Plant Seismic Walkdowns**

June 21, 2012

Date

R.P. Kassawara

Robert K. Kassawara
EPRI Manager,
Structural Reliability & Integrity



Excellence—Every project. Every day.

Certificate of Completion

is hereby granted to

Juan Vizcaya

for successful completion of

**TRAINING ON NEAR TERM TASK FORCE
RECOMMENDATION 2.3
*PLANT SEISMIC WALKDOWNS***

Awarded: 7/26/2012 in Mt. Arlington, NJ

A handwritten signature in black ink, appearing to read 'Kenneth Whitmore', written over a horizontal line.

Kenneth Whitmore
Certified Seismic Walkdown Engineer
Alexandria, VA – 6/20/2012



Certificate of Completion

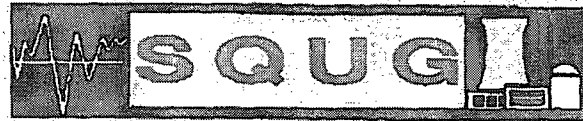
Kenneth Whitmore

**Training on Near Term Task Force
Recommendation 2.3
- Plant Seismic Walkdowns**

June 21, 2012

Date

Robert K. Kassawara
EPRI Manager,
Structural Reliability & Integrity



Presents this

Certificate of Achievement

To Certify That

Kenneth L. Whitmore

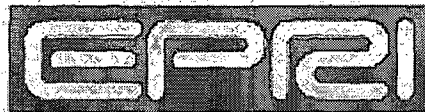
*has Completed the SQUG Walkdown Screening
and Seismic Evaluation Training Course
Held April 6th – 10th, 1992*



David A. Freed, MPR Associates
SQUG Training Coordinator

Neil P. Smith, Commonwealth Edison
SQUG Chairman

Robert P. Kassawara, EPRI
SQUG Program Manager



Certificate of Achievement

This is to Certify that

Kenneth L. Whitmore

*has Completed the EPRI Add-On Seismic IPEEE
Training Course
Held November 2nd through 4th, 1992*

A handwritten signature in cursive script, reading "David A. Freed".

David A. Freed, MPR Associates
Training Coordinator

A handwritten signature in cursive script, reading "R.P. Kassawara".

Robert P. Kassawara, EPRI
Program Manager



Certificate of Completion

Wesley Williams

**Training on Near Term Task Force
Recommendation 2.3
- Plant Seismic Walkdowns**

July 27, 2012

Date

A handwritten signature in black ink that reads 'R. P. Kassawara'.

Robert K. Kassawara
EPRI Manager,
Structural Reliability & Integrity