Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1- 075

Equipment ID No. *M71N026A* Equip. Class[1] *19 - Temperature sensors*

Equipment Description *Temperature Element (Suppression Pool)*

Location: Bldg. *CTMT* Floor El. *135* Room, Area *1A311, CTMT*

Manufacturer, Model, Etc. (optional but recommended) *Thermo Electric, 27620*

Instructions for Completing Checklist

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

Anchorage

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

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☒ N☐ U☐ N/A☐
   Connected to steel plate

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☒ N☐ U☐ N/A☐
   Welds are in good condition.There is very mild surface oxidation judged to have negligible affects on structural ability

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☐ N☐ U☐ N/A☒
   Connection plate is welded to a base plate.

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

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☒ N☐ U☐

[1] Enter the equipment class name from EPRI 1025286 Appendix B: Classes of Equipment.

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) **SWEL1- 075**

Equipment ID No. *M71N026A* Equip. Class[1] *19 - Temperature sensors*

Equipment Description *Temperature Element (Suppression Pool)*

Interaction Effects

7. Are soft targets free from impact by nearby equipment or structures? Y☒ N☐ U☐ N/A☐
   Soft targets are protected by steel plating.

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y☒ N☐ U☐ N/A☐
   Steel plates protect the over head.

9. Do attached lines have adequate flexibility to avoid damage? Y☒ N☐ U☐ N/A☐
   A flexible hose attached to the Temperature element with adequate clearance

10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y☒ N☐ U☐

Other Adverse Conditions

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

Comments

None

Evaluated by: *Chase Wharton* Date: *9/27/2012*

Fred Hopkins *9/27/2012*

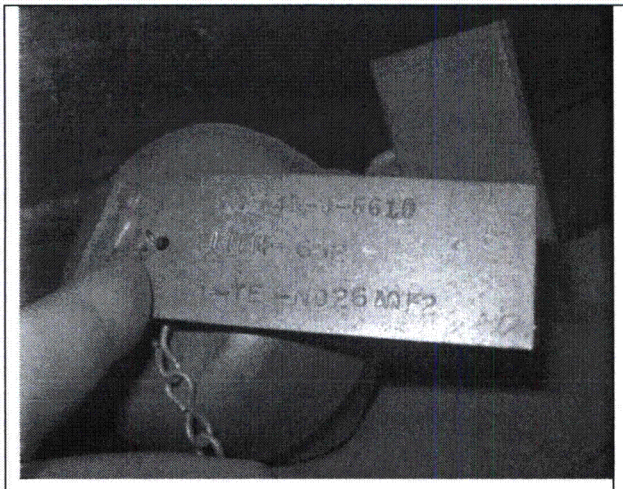
Status: Y☒ N☐ U☐

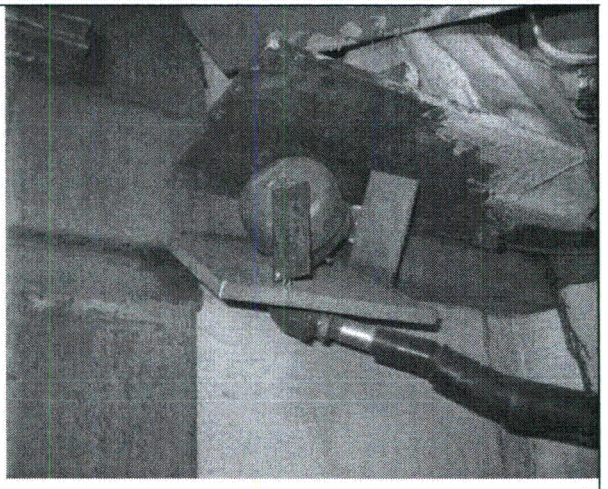
Seismic Walkdown Checklist (SWC) SWEL1- 075

Equipment ID No. *M71N026A* Equip. Class[1] *19 - Temperature sensors*

Equipment Description *Temperature Element (Suppression Pool)*

Photographs





Note:

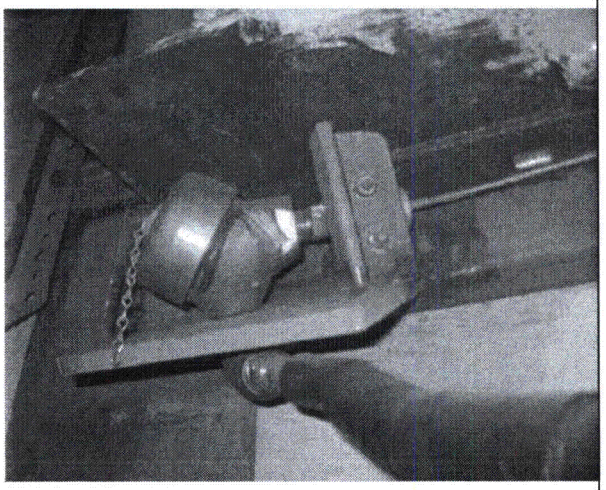
Note:

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1- 075

Equipment ID No. *M71N026A* Equip. Class[1] *19 - Temperature sensors*

Equipment Description *Temperature Element (Suppression Pool)*



Note:

Note:

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1- 076

Equipment ID No. *T46N003A* Equip. Class[1] *19 - Temperature Sensors*

Equipment Description *Temperature Element (ESF Elec Switchgear East Room)*

Location: Bldg. *AB* Floor El. *119* Room, Area *1A208, 07*

Manufacturer, Model, Etc. (optional but recommended) *Thermo Electric, 27620*

Instructions for Completing Checklist

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

Anchorage

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

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☒ N☐ U☐ N/A☐
   Angle member supporting temerature element is mounted to the wall using (2) 1/2" dia. concrete anchor bolts. See photo.
   No bent, broken, missing or loose hardware found.

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☒ N☐ U☐ N/A☐
   Wall is covered with epoxy coating; no visual indication of corrosion found

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☒ N☐ U☐ N/A☐
   Wall is covered with epoxy coating; no visual indication of concrete crack found

5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) Y☒ N☐ U☐ N/A☐
   Anchorage was checked against drawing J-0157T Rev. 6, and the configuration shown on the drawing matched the field condition.

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☒ N☐ U☐

[1] Enter the equipment class name from EPRI 1025286 Appendix B: Classes of Equipment.

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) **SWEL1- 076**

Equipment ID No. *T46N003A* Equip. Class[1] *19 - Temperature Sensors*

Equipment Description *Temperature Element (ESF Elec Switchgear East Room)*

Interaction Effects

7. Are soft targets free from impact by nearby equipment or structures? Y☒ N☐ U☐ N/A☐
   All surrounding equipments/structures are rigidly supported.

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y☒ N☐ U☐ N/A☐
   All overhead items (cable tray, conduit) are rigidly supported. Temperature element is supported on masonry block wall, which is seismically qualified per calculation C-H015.2.
   Nearby Gai-Tronics speaker is judged to be acceptable based on existing clearance.

9. Do attached lines have adequate flexibility to avoid damage? Y☒ N☐ U☐ N/A☐
   Flex conduit has been used for routing cable to the temperature element, therefore attached line has adequate flexibility.

10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y☒ N☐ U☐

Other Adverse Conditions

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

Comments

None

Evaluated by: *Kyong S. (Jason) Pak* Kyong S. Pak Date: *10/8/2012*

Tori Robinson Tori Robinson *10/8/2012*

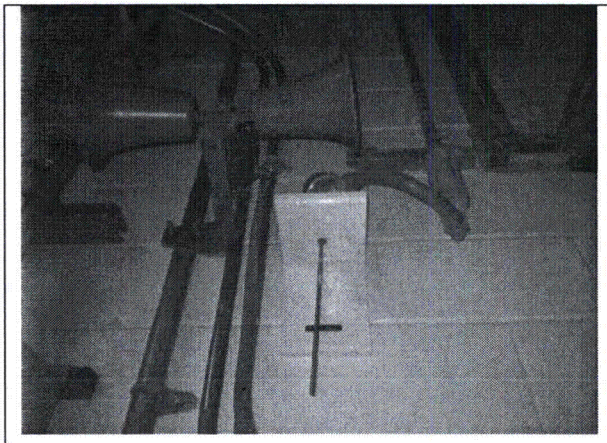
Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1- 076

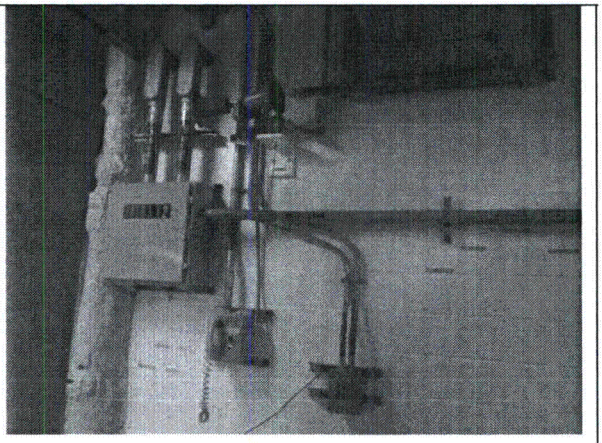
Equipment ID No. *T46N003A* Equip. Class[1] *19 - Temperature Sensors*

Equipment Description *Temperature Element (ESF Elec Switchgear East Room)*

Photographs



Note: *Temperature Element*



Note: *General view of the area*

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1- 077

Equipment ID No. *Y47N005B* Equip. Class[1] *19 - Temperature Sensors*

Equipment Description *Temperature Element (SSW Pump House B Space Temperature Element)*

Location: Bldg. *SSW* Floor El. *133* Room, Area *2M110, SSW*

Manufacturer, Model, Etc. (optional but recommended) *Thermo Electric, 27620*

Instructions for Completing Checklist

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

Anchorage

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

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☒ N☐ U☐ N/A☐
   Angle member supporting temerature element is mounted to the wall using (2) 1/2" dia. concrete anchor bolts. See photo.
   No bent, broken, missing or loose hardware found.

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☒ N☐ U☐ N/A☐
   No visual indication of corrosion found.

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☒ N☐ U☐ N/A☐
   No visual indication of concrete crack found.

5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) Y☒ N☐ U☐ N/A☐
   Anchorage was checked against drawing J-0157T Rev. 6, and the configuration shown on the drawing matched the field condition.

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☒ N☐ U☐

[1] Enter the equipment class name from EPRI 1025286 Appendix B: Classes of Equipment.

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) **SWEL1- 077**

Equipment ID No. *Y47N005B* Equip. Class[1] *19 - Temperature Sensors*

Equipment Description *Temperature Element (SSW Pump House B Space Temperature Element)*

Interaction Effects

7. Are soft targets free from impact by nearby equipment or structures? Y☒ N☐ U☐ N/A☐
   All surrounding equipments/structures are rigidly supported.

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y☒ N☐ U☐ N/A☐
   All overhead items (mainly cable trays) are rigidly supported.

9. Do attached lines have adequate flexibility to avoid damage? Y☒ N☐ U☐ N/A☐
   Flex conduit has been used for routing cable to the temperature element, therefore attached line has adequate flexibility.

10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y☒ N☐ U☐

Other Adverse Conditions

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

Comments

Asset Suite shows this equipment is in Room 2M112, but it is in Room 2M110.

Evaluated by: *Kyong S. (Jason) Pak* Kyong S. Pak Date: *9/24/2012*

Tori Robinson Tori Robinson *9/24/2012*

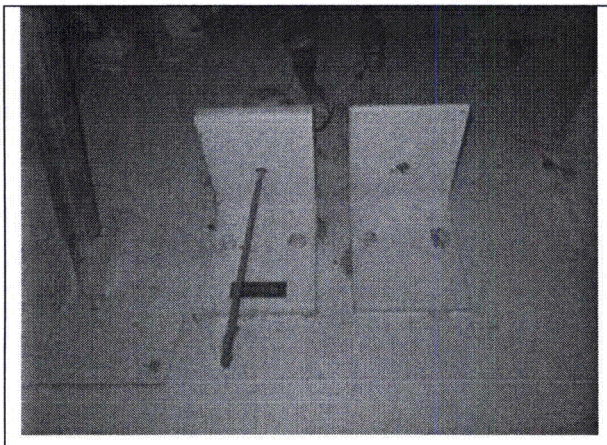
Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1- 077

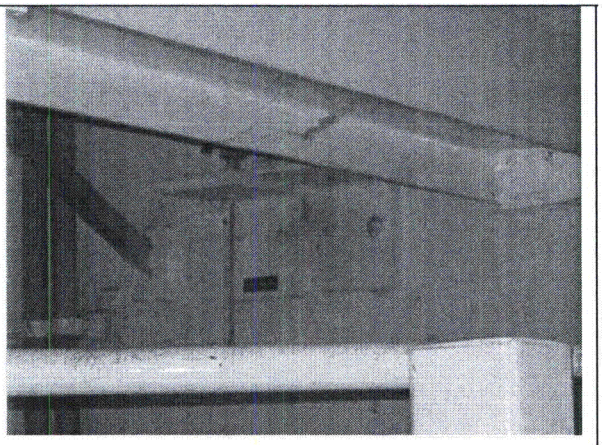
Equipment ID No. *Y47N005B* Equip. Class[1] *19 - Temperature Sensors*

Equipment Description *Temperature Element (SSW Pump House B Space Temperature Element)*

Photographs



Note: *Temperature Element*



Note: *Temperature Element*

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1- 078

Equipment ID No. *B21N697B* Equip. Class[1] *20 - Instrumentation and Control Panels*

Equipment Description *Trip Unit (REACTOR VESSEL PRESSURE BLOW(ECCS INJ PERM) SWITCH)*

Location: Bldg. *CB* Floor El. *166* Room, Area *OC504,CB*

Manufacturer, Model, Etc. (optional but recommended) *ROSEMOUNT, 710DU0TS*

Instructions for Completing Checklist

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

Anchorage

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

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☒ N☐ U☐ N/A☐
   Item is mounted to panel H13P618, and panel is bolted to structural steel. All anchorage in good condition and existing.

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☒ N☐ U☐ N/A☐
   There is no apparent oxidation.

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☐ N☐ U☐ N/A☒
   Panel anchored to steel I-Beams

5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) Y☐ N☐ U☐ N/A☒
   Anchorage verified with 865E715.

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☒ N☐ U☐

[1] Enter the equipment class name from EPRI 1025286 Appendix B: Classes of Equipment.

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1- 078

Equipment ID No. *B21N697B* Equip. Class[1] *20 - Instrumentation and Control Panels*

Equipment Description *Trip Unit (REACTOR VESSEL PRESSURE BLOW(ECCS INJ PERM) SWITCH)*

Interaction Effects

7. Are soft targets free from impact by nearby equipment or structures? Y☒ N☐ U☐ N/A☐
   Adequate clearance is provided

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y☒ N☐ U☐ N/A☐
   Overhead lighting appears to be adequately supported.

9. Do attached lines have adequate flexibility to avoid damage? Y☒ N☐ U☐ N/A☐
   Connecting wires and flex conduit have adequate flexibility

10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y☒ N☐ U☐

Other Adverse Conditions

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

Comments

None

Evaluated by: *Chase Wharton* Date: *10/2/2012*

Fred Hopkins *10/2/2012*

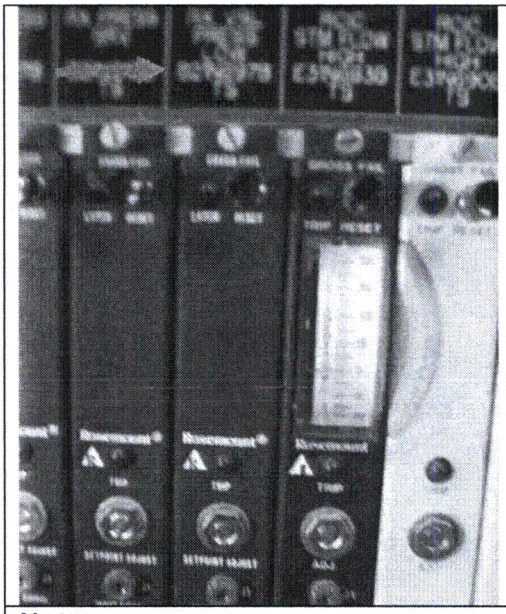
Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1- 078

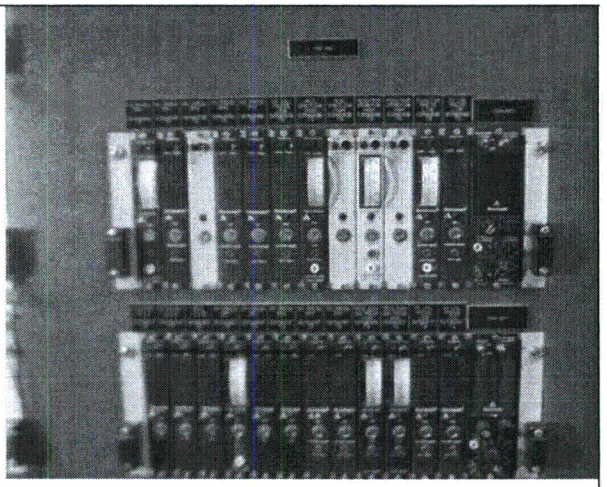
Equipment ID No. *B21N697B* Equip. Class[1] *20 - Instrumentation and Control Panels*

Equipment Description *Trip Unit (REACTOR VESSEL PRESSURE BLOW(ECCS INJ PERM) SWITCH)*

Photographs



Note:



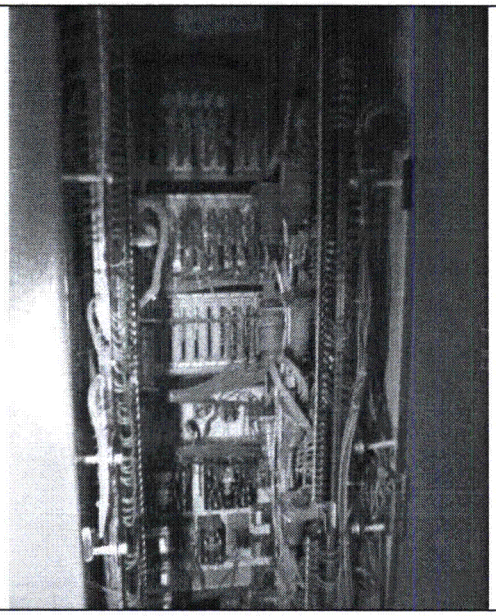
Note:

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1- 078

Equipment ID No. *B21N697B* Equip. Class[1] *20 - Instrumentation and Control Panels*

Equipment Description *Trip Unit (REACTOR VESSEL PRESSURE BLOW(ECCS INJ PERM) SWITCH)*



Note:

Note:

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1- 079

Equipment ID No. *H13P669* Equip. Class[1] *20 - Instrumentation and Control Panels*

Equipment Description *Power Range Monitor A (DIV 1 NEUT and Radiation Monitoring Cabinet)*

Location: Bldg. *CB* Floor El. *189* Room, Area *OC703, CB*

Manufacturer, Model, Etc. (optional but recommended) *General Electric CO*

Instructions for Completing Checklist

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

Anchorage

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

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☒ N☐ U☐ N/A☐

   Panel is anchored to the floor beams.

   In Bay A & B, four out of eight screws are missing for the mounting plate. See photos. (CR 2012-11465 initiated WR# 00286756)

   In Bay B, bolt/nut is missing on one of the flex conduit support clamp. See photo. In Bay B, nut for mounting elec. board to the side of panel is not fully engaged (threaded stud is not long enough). (CR 2012-11461 initiated WR# 00286750)

   In Bay C, four out of eight bolts are missing for connecting panel H13P669 to the Halon panel H13P913. Also, one of installed bolt is loose. See photo. Halon panel is anchored to the floor beams. There is no concern for potential seismic interaction between the non-safety related Halon Panel 1H13P913and the Upper Control Room (UCR) Panels 1H13P669. The halon panels are installed at the end of a series of UCR panels. The halon panels are bolted to the UCR floor. Experience and seismic testing indicated that in the side-to-side direction the UCR panels are rigid. The Halon panels and the UCR panels are butted together with no gaps. With no gap, the displacement experienced would be minimal. During a seismic event the panels would act together as a rigid body and will not adversely affect any of the other panels. Therefore, the impact from the halon panels on the UCR panels would not induce any significant additional loading during a seismic event.

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☒ N☐ U☐ N/A☐

   No visual indication of corrosion found.

[1] Enter the equipment class name from EPRI 1025286 Appendix B: Classes of Equipment.

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1- 079

Equipment ID No. *H13P669* Equip. Class[1] *20 - Instrumentation and Control Panels*

Equipment Description *Power Range Monitor A (DIV 1 NEUT and Radiation Monitoring Cabinet)*

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☐ N☐ U☐ N/A☒
   No concrete attachment
5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) Y☐ N☐ U☐ N/A☒
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☒ N☐ U☐

Interaction Effects

7. Are soft targets free from impact by nearby equipment or structures? Y☐ N☐ U☐ N/A☒
   This equipment is not a soft target.
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y☒ N☐ U☐ N/A☐
   All overhead items (HVAC duct, conduit, cable tray) are rigidly supported.
9. Do attached lines have adequate flexibility to avoid damage? Y☒ N☐ U☐ N/A☐
   All attached lines inside of the panel have sufficient flexibility.
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y☒ N☐ U☐

Other Adverse Conditions

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

Comments

Evaluated by: *Fred Hopkins* Date: 11-14-12

Tori Robinson 11-14-12

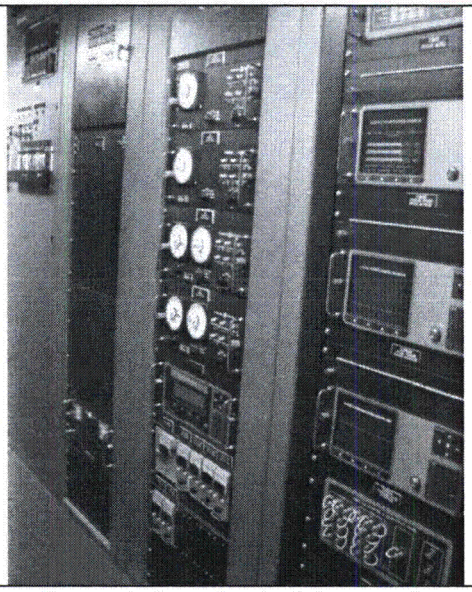
Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1- 079

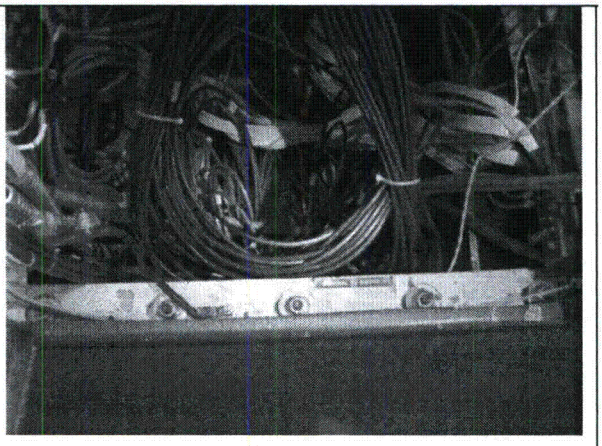
Equipment ID No. *H13P669* Equip. Class[1] *20 - Instrumentation and Control Panels*

Equipment Description *Power Range Monitor A (DIV 1 NEUT and Radiation Monitoring Cabinet)*

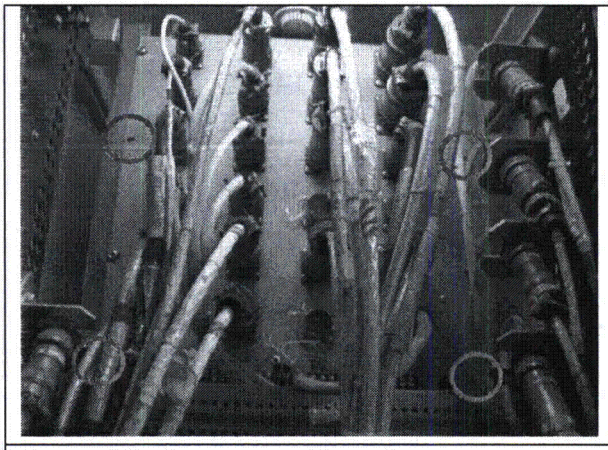
Photographs



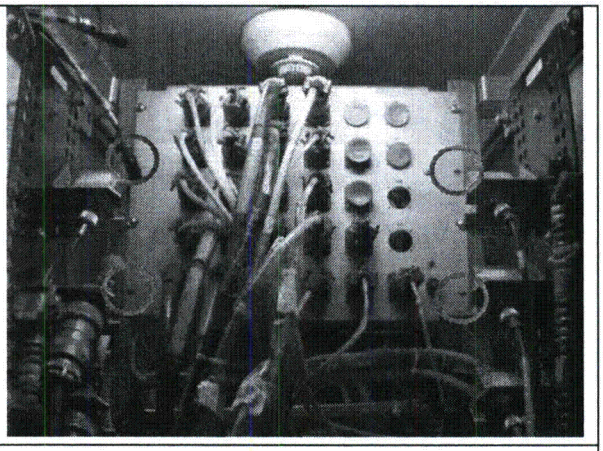
Note: *General view, front of the panel*



Note: *Panel anchorage*



Note: *Missing screws (Bay A)*



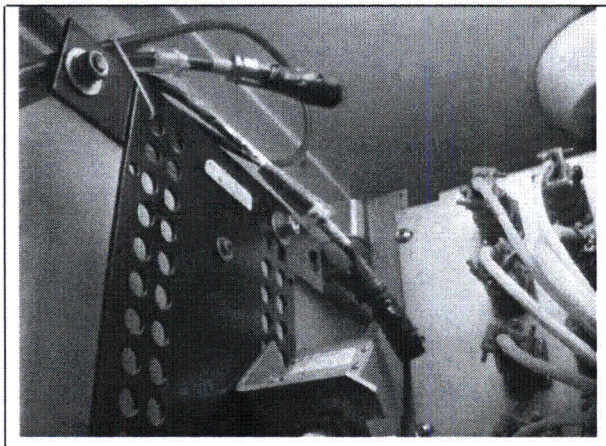
Note: *Missing screws (Bay B)*

Status: Y☒ N☐ U☐

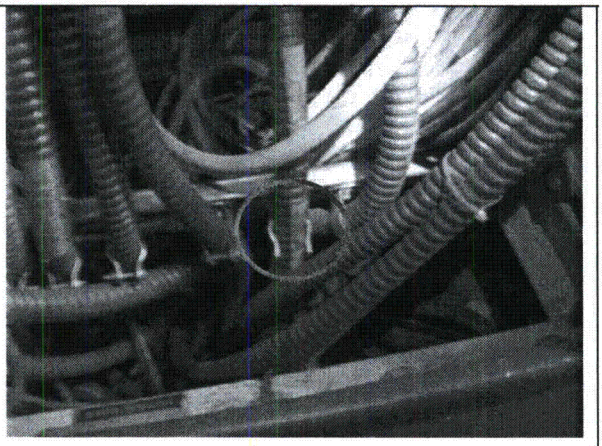
Seismic Walkdown Checklist (SWC) SWEL1- 079

Equipment ID No. *H13P669* Equip. Class[1] *20 - Instrumentation and Control Panels*

Equipment Description *Power Range Monitor A (DIV 1 NEUT and Radiation Monitoring Cabinet)*



Note: *Nut not fully engaged to the threaded stud*



Note: *Missing bolt and nut on clamp*

Note: *Missing bolt (between two panels)*

Note:

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1- 080

Equipment ID No. *H13P691* Equip. Class[1] *20 - Instrumentation and Control Panels*

Equipment Description *Pressure Indicating Switch (Division 1 RPS Logic VB)*

Location: Bldg. *CB* Floor El. *189* Room, Area *OC703, CB*

Manufacturer, Model, Etc. (optional but recommended) *General Electric CO*

Instructions for Completing Checklist

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

Anchorage

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

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☐ N☒ U☐ N/A☐
   Panel is anchored to the floor beams.
   In Bay A, nut on the bracket that mounts the wire support plate to the unistrut is loose (hand verified by electrician). (CR 2012-11459 initiated WR# 00286749)
   In Bay B, nut is missing on the bracket that mounts the wire support plate to the unistrut. (CR 2012-11458 initiated WR# 00286748)
   In Bay B, few nuts for mounting elec. board to the side of panel are not fully compressed or not fully engaged (threaded stud is not long enough). (CR 2012-11458 initiated WR# 00286748)

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☒ N☐ U☐ N/A☐
   No visual indication of corrosion found.

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☐ N☐ U☐ N/A☒
   No concrete attachment

5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) Y☒ N☐ U☐ N/A☐
   Per drawing 865E712, panel is mounted to the floor beams using welded studs. Studs are welded to the beams every 6" C-C where panel's slotted holes fit in to, and this condition has been verified.

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☐ N☒ U☐
   See question number 2.

[1] Enter the equipment class name from EPRI 1025286 Appendix B: Classes of Equipment.

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1- 080

Equipment ID No. *H13P691* Equip. Class[1] *20 - Instrumentation and Control Panels*

Equipment Description *Pressure Indicating Switch (Division 1 RPS Logic VB)*

Interaction Effects

7. Are soft targets free from impact by nearby equipment or structures? Y☐ N☐ U☐ N/A☒
   This equipment is not a soft target.

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y☒ N☐ U☐ N/A☐
   All overhead items (conduit) are rigidly supported.

9. Do attached lines have adequate flexibility to avoid damage? Y☒ N☐ U☐ N/A☐
   All attached lines inside of the panel have sufficient flexibility.

10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y☒ N☐ U☐

Other Adverse Conditions

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

Comments

Blake Rice (NRC Inspector) came with us to the walkdown, and Troy Pate (Electrician) opened the panel door for SWE.

Evaluated by: *Kyong S. (Jason) Pak* Kyong S. Pak Date: *10/9/2012*

Tori Robinson Tori Robinson *10/9/2012*

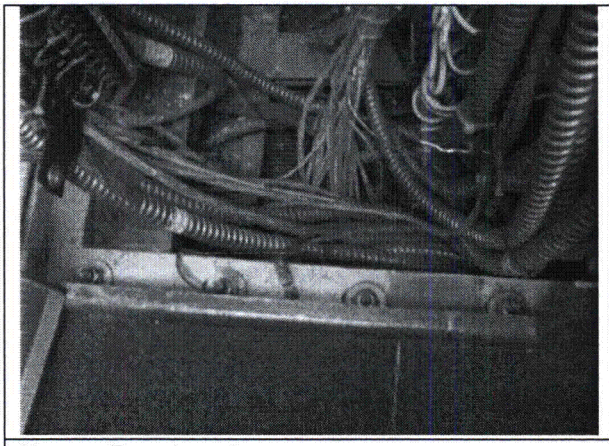
Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1- 080

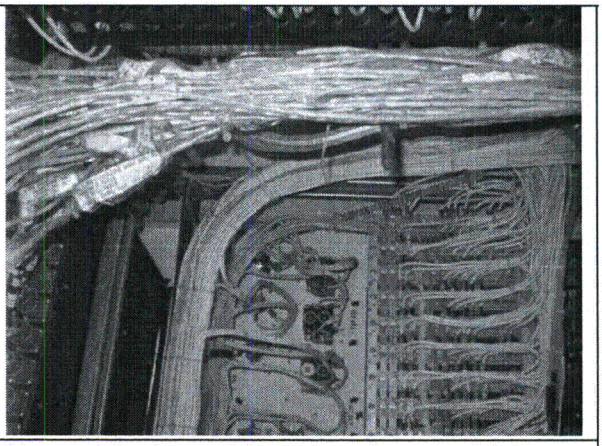
Equipment ID No. *H13P691* Equip. Class[1] *20 - Instrumentation and Control Panels*

Equipment Description *Pressure Indicating Switch (Division 1 RPS Logic VB)*

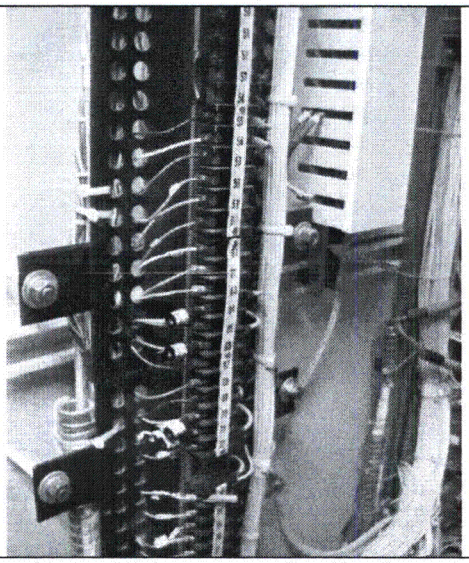
Photographs



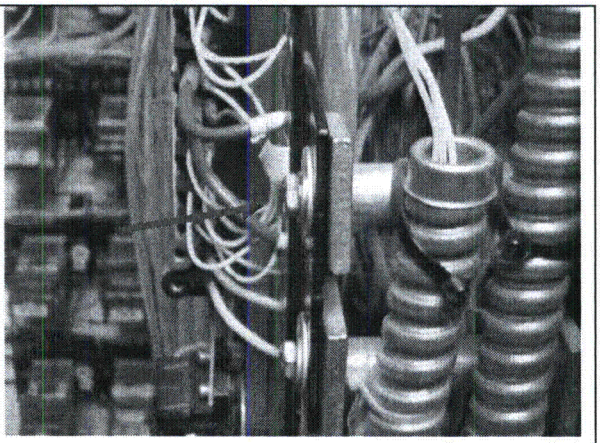
Note: *Panel anchorage*



Note: *Missing nut (not shown) on mounting bracket for cable bundle support*



Note: *Nut not fully engaged to the threaded stud*



Note: *Nut not fully compressed*

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1- 081

Equipment ID No. *H13P872* Equip. Class[1] *20 - Instrumentation and Control Panels*

Equipment Description *Level Indicating Switch (Division 2 ESF Logic VB)*

Location: Bldg. *CB* Floor El. *166* Room, Area *OC504, CB*

Manufacturer, Model, Etc. (optional but recommended) *General Electric CO., 1H13P872*

Instructions for Completing Checklist

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

Anchorage

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

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☒ N☐ U☐ N/A☐
   Panel is anchored to the floor beams.
   No bent, broken, missing or loose hardware found.

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☒ N☐ U☐ N/A☐
   No visual indication of corrosion found.

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☐ N☐ U☐ N/A☒
   No concrete attachment

5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) Y☒ N☐ U☐ N/A☐
   Per drawing 865E707, panel is mounted to the floor beams using welded studs. Studs are welded to the beams every 6" C-C where panel's slotted holes fit in to, and this condition has been verified.

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☒ N☐ U☐

[1] Enter the equipment class name from EPRI 1025286 Appendix B: Classes of Equipment.

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1- 081

Equipment ID No. *H13P872* Equip. Class[1] *20 - Instrumentation and Control Panels*

Equipment Description *Level Indicating Switch (Division 2 ESF Logic VB)*

Interaction Effects

7. Are soft targets free from impact by nearby equipment or structures? Y☐ N☐ U☐ N/A☒
   This equipment is not a soft target.

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y☒ N☐ U☐ N/A☐
   All overhead items (air vent is secured to the ceiling with screws) are rigidly supported.

9. Do attached lines have adequate flexibility to avoid damage? Y☒ N☐ U☐ N/A☐
   All attached lines inside of the panel have sufficient flexibility.

10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y☒ N☐ U☐

Other Adverse Conditions

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

Comments

David Jones (Electrician) opened panel for SWE.

Evaluated by: *Kyong S. (Jason) Pak* Kyong S. Pak Date: *10/2/2012*

Frederick Hopkins Fori Robinson *10/2/2012*

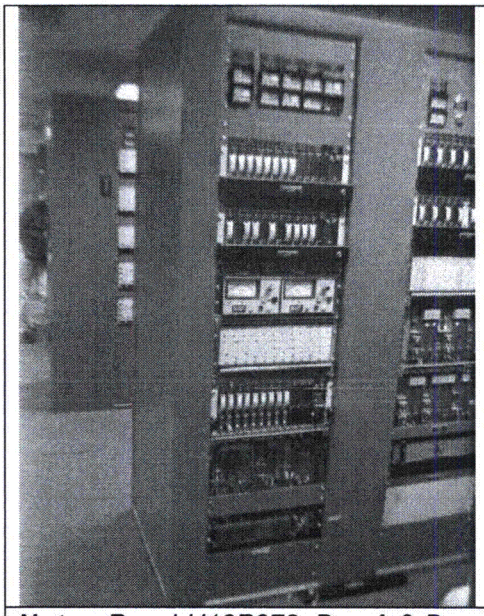
Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1- 081

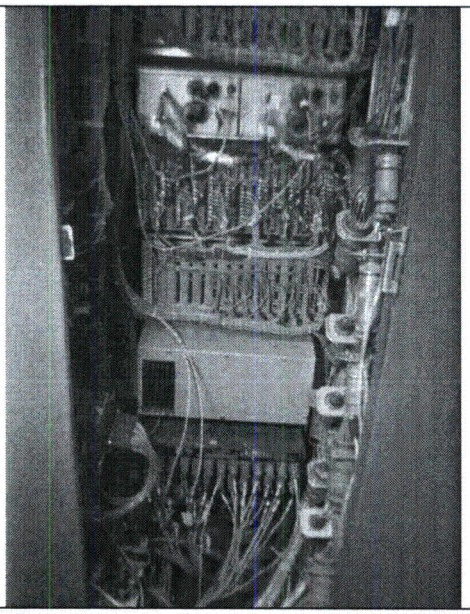
Equipment ID No. *H13P872* Equip. Class[1] *20 - Instrumentation and Control Panels*

Equipment Description *Level Indicating Switch (Division 2 ESF Logic VB)*

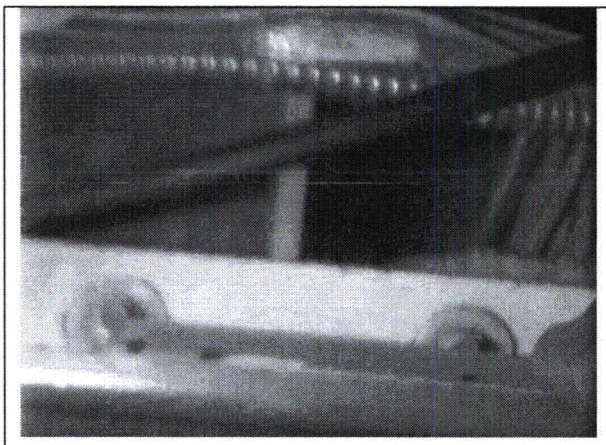
Photographs



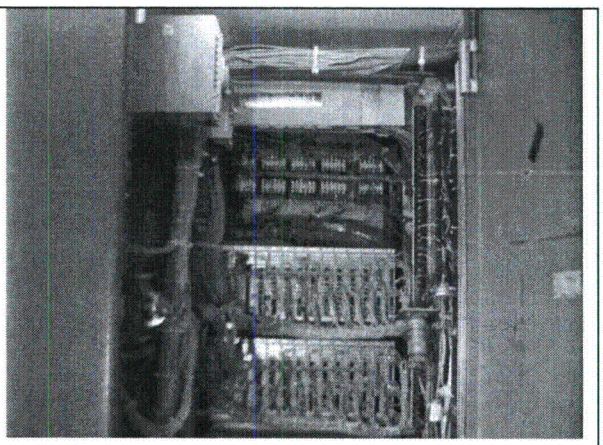
Note: *Panel H13P872, Bay A & B*



Note: *Back of the panel (Opened)*



Note: *Anchorage of panel to the floor beam (studs), 6" C-C*



Note: *Back of the panel (Opened)*

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1- 082

Equipment ID No. *E31N602A* Equip. Class[1] *20 - Instrumentation and Control Panels*

Equipment Description *Temp Switch (RCIC Equipment Area Temperature Switch)*

Location: Bldg. *CB* Floor El. *189* Room, Area *OC703, CB*

Manufacturer, Model, Etc. (optional but recommended) *Scientech Inc./NUS Corp., NUS-A076PA-1 LDTM-T*

Instructions for Completing Checklist

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

Anchorage

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

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☐ N☒ U☐ N/A☐
   Temp switch E31N602A, among with other components, is mounted to the mounting plate. Mounting plate is attached to the panel H13P632 using (4) screws. Panel is anchored to the floor beams.
   In Bay B, one of nut/lock washer for mounting elec. board to the side of panel is not fully compressed. (CR 2012-11457 initiated WR# 00286746) See photo.
   In Bay C, one of nut for mounting elec. board to the side of panel is not fully engaged (threaded stud is not long enough). (CR 2012-11456 initiated WR# 00286759)

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☒ N☐ U☐ N/A☐
   No visual indication of corrosion found.

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☐ N☐ U☐ N/A☒
   No concrete attachment

5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) Y☒ N☐ U☐ N/A☐
   Per drawing 865E712, panel is mounted to the floor beams using welded studs. Studs are welded to the beams every 6" C-C where panel's slotted holes fit in to, and this condition has been verified.

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☐ N☒ U☐
   See question number 2.

[1] Enter the equipment class name from EPRI 1025286 Appendix B: Classes of Equipment.

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1- 082

Equipment ID No. *E31N602A* Equip. Class[1] *20 - Instrumentation and Control Panels*

Equipment Description *Temp Switch (RCIC Equipment Area Temperature Switch)*

Interaction Effects

7. Are soft targets free from impact by nearby equipment or structures? Y☒ N☐ U☐ N/A☐
   All equipments/structures nearby are rigidly supported.

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y☒ N☐ U☐ N/A☐
   All overhead items (conduit, pipe) are rigidly supported.

9. Do attached lines have adequate flexibility to avoid damage? Y☒ N☐ U☐ N/A☐
   Flex cable has been used, therefore attached line has adequate flexibility.

10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y☒ N☐ U☐

Other Adverse Conditions

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

Comments

Blake Rice (NRC Inspector) came with us to the walkdown, and Troy Pate (Electrician) opened the panel door for SWE.

Evaluated by: *Kyong S. (Jason) Pak* Kyong S. Pak Date: *10/9/2012*

Tori Robinson Tori Robinson *10/9/2012*

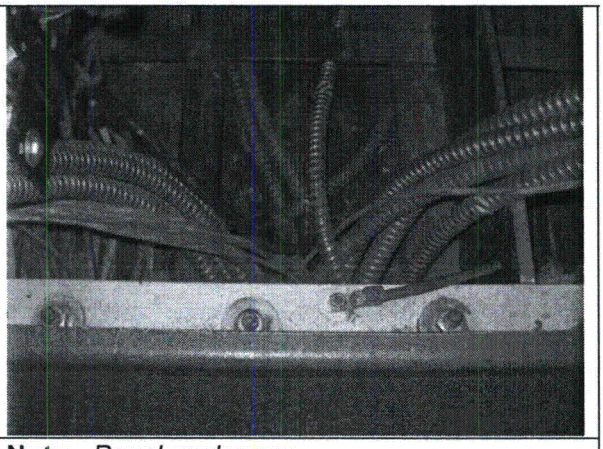
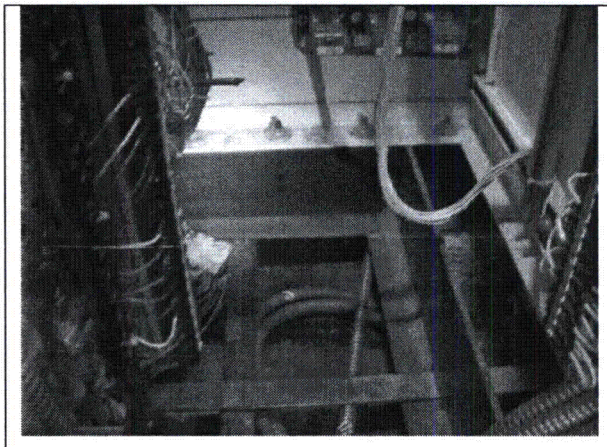
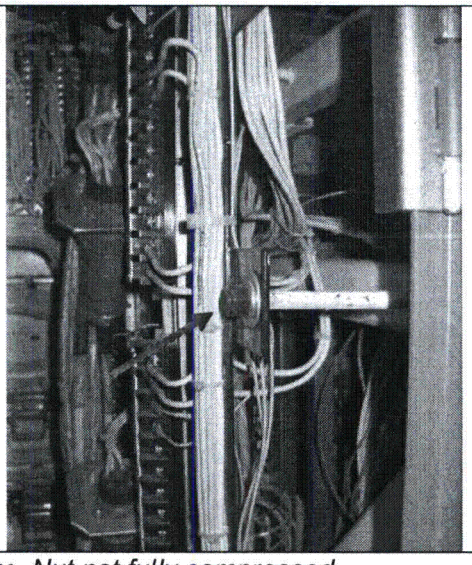
Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1- 082

Equipment ID No. *E31N602A* Equip. Class[1] *20 - Instrumentation and Control Panels*

Equipment Description *Temp Switch (RCIC Equipment Area Temperature Switch)*

Photographs

"SECURITY SENSITIVE PHOTO PHOTO REMOVED"	
Note: *Temp. Switch, E31N602A, on front of the panel H13P632*	**Note:** *Panel anchorage*
	
Note: *Panel anchorage*	**Note:** *Nut not fully compressed*

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1- 083

Equipment ID No. *E31N690A* Equip. Class[1] *20 - Instrumentation and Control Panels*

Equipment Description *Pressure Differential Switch (RCIC Steam Line Flow Highswitch)*

Location: Bldg. *CB* Floor El. *189* Room, Area *OC703, CB*

Manufacturer, Model, Etc. (optional but recommended) *Rosemount, 510DU7*

Instructions for Completing Checklist

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

Anchorage

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

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☒ N☐ U☐ N/A☐
   Pressure Differential switch E31N690A, among with other components, is mounted to the mounting plate. Mounting plate is attached to the panel H13P629. Panel is anchored to the floor beams.
   In Bay C, five out of eight bolts are missing for connecting panel H13P629 to the Halon panel H13P936. Halon panel is anchored to the floor beams.There is no concern for potential seismic interaction between the non-safety related Halon Panel 1H13P936 and the Upper Control Room (UCR) Panel 1HP629. The halon panels are installed at the end of a series of UCR panels. The halon panels are bolted to the UCR floor. Experience and seismic testing indicated that in the side-to-side direction the UCR panels are rigid. The Halon panels and the UCR panels are butted together with no gaps. With no gap, the displacement experienced would be minimal. During a seismic event the panels would act together as a rigid body and will not adversely affect any of the other panels. Therefore, the impact from the halon panels on the UCR panels would not induce any significant additional loading during a seismic event.

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☒ N☐ U☐ N/A☐
   No visual indication of corrosion found.

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☐ N☐ U☐ N/A☒
   No concrete attachment

[1] Enter the equipment class name from EPRI 1025286 Appendix B: Classes of Equipment.

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1- 083

Equipment ID No. *E31N690A* Equip. Class[1] *20 - Instrumentation and Control Panels*

Equipment Description *Pressure Differential Switch (RCIC Steam Line Flow Highswitch)*

5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) Y☒ N☐ U☐ N/A☐
   Per drawing 865E711, panel is mounted to the floor beams using welded studs. Studs are welded to the beams every 6" C-C where panel's slotted holes fit in to, and this condition has been verified.
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☒ N☐ U☐

Interaction Effects

7. Are soft targets free from impact by nearby equipment or structures? Y☒ N☐ U☐ N/A☐
   All equipments/structures nearby are rigidly supported.
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y☒ N☐ U☐ N/A☐
   All overhead items (HVAC duct, conduit, cable tray, etc.) are rigidly supported.
9. Do attached lines have adequate flexibility to avoid damage? Y☒ N☐ U☐ N/A☐
   Flex cable has been used, therefore attached line has adequate flexibility.
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y☒ N☐ U☐

Other Adverse Conditions

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

Comments

Plastic bag left inside of the panel. See photo.

Evaluated by: *Fred Hopkins* Date: 11-14-12

Tori Robinson 11-14-12

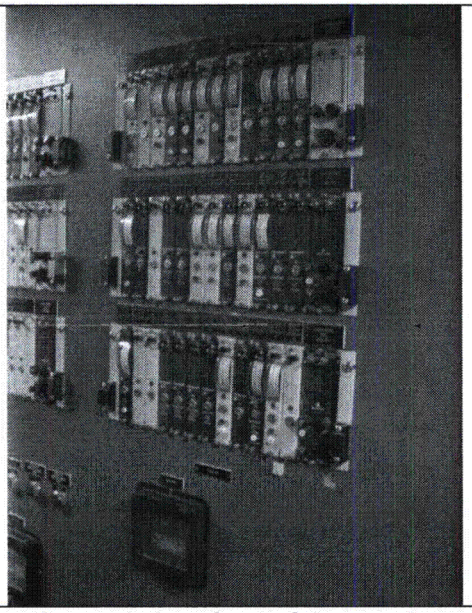
Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1- 083

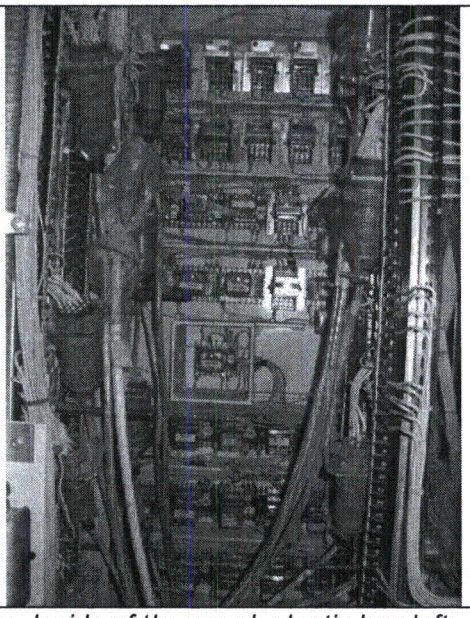
Equipment ID No. *E31N690A* Equip. Class[1] *20 - Instrumentation and Control Panels*

Equipment Description *Pressure Differential Switch (RCIC Steam Line Flow Highswitch)*

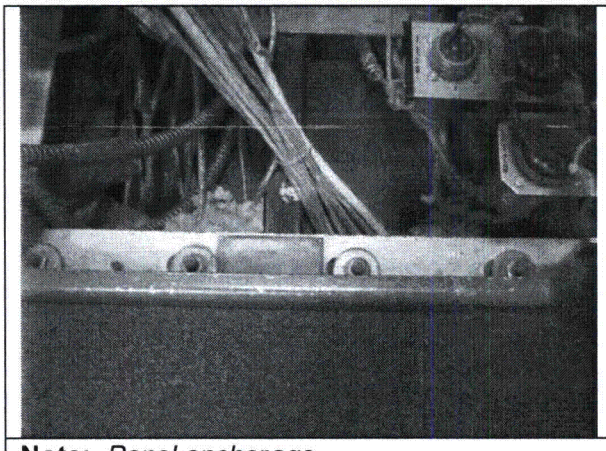
Photographs



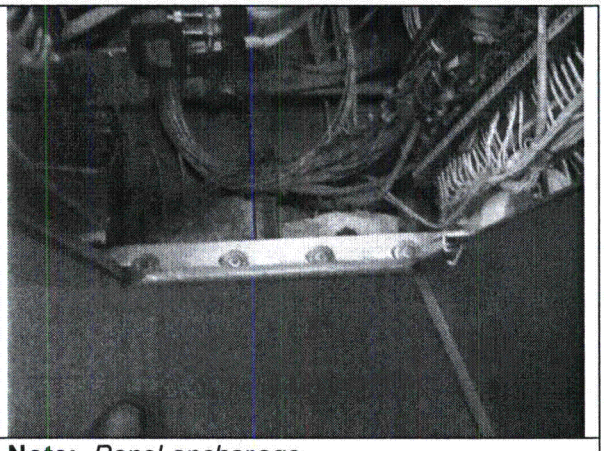
Note: *General view, front of the panel*



Note: *Inside of the panel, plastic bag left inside*



Note: *Panel anchorage*



Note: *Panel anchorage*

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1- 084

Equipment ID No. *B21N682D* Equip. Class[1] *20 - Instrumentation and Control Panels*

Equipment Description *Level Switch (REACTOR VESSEL LEVEL LOW (PCIS/SCI/RWCU) SWITCH)*

Location: Bldg. *CB* Floor El. *166* Room, Area *OC504,CB*

Manufacturer, Model, Etc. (optional but recommended) *ROSEMOUNT,510DU7*

Instructions for Completing Checklist

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

Anchorage

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y☒ N☐
   Item mounted to panel H13P694 with vendor provided mounting slots. 3 slots per side with 1.75" spacing and 3.5" spacing

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☐ N☒ U☐ N/A☐
   One nut missing on panel stud. CR-GGN-2012-11255

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☒ N☐ U☐ N/A☐
   There is no apparent oxidation.

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☐ N☐ U☐ N/A☒
   Panel anchored to steel I-Beams

5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) Y☐ N☒ U☐ N/A☐
   Equipment mounts consistent with QP388. Panel anchorage missing one nut and washer. See Question 2

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☐ N☒ U☐

[1] Enter the equipment class name from EPRI 1025286 Appendix B: Classes of Equipment.

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) **SWEL1- 084**

Equipment ID No. *B21N682D* Equip. Class[1] *20 - Instrumentation and Control Panels*

Equipment Description *Level Switch (REACTOR VESSEL LEVEL LOW (PCIS/SCI/RWCU) SWITCH)*

Interaction Effects

7. Are soft targets free from impact by nearby equipment or structures? Y☒ N☐ U☐ N/A☐
   Adequate clearance is provided.

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y☒ N☐ U☐ N/A☐
   Overhead lighting appears to be adequately supported.

9. Do attached lines have adequate flexibility to avoid damage? Y☒ N☐ U☐ N/A☐
   Connecting wires and flex conduit have adequate flexibility

10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y☒ N☐ U☐

Other Adverse Conditions

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

Comments

None

Evaluated by: *Chase Wharton* Date: *10/2/2012*

Fred Hopkins *10/2/2012*

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1- 084

Equipment ID No. *B21N682D* Equip. Class[1] *20 - Instrumentation and Control Panels*

Equipment Description *Level Switch (REACTOR VESSEL LEVEL LOW (PCIS/SCI/RWCU) SWITCH)*

Photographs

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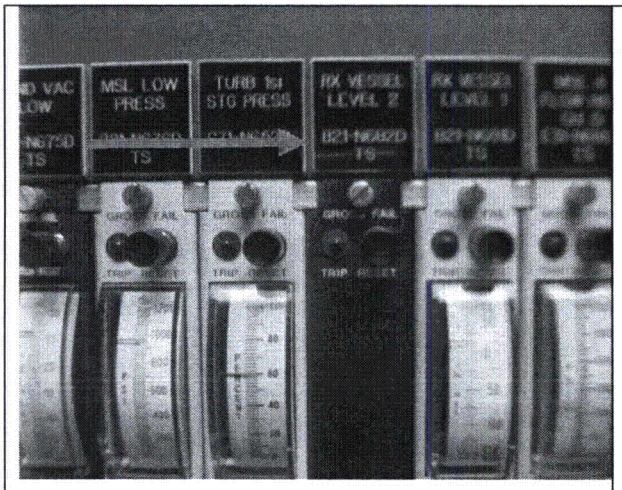
<td> 
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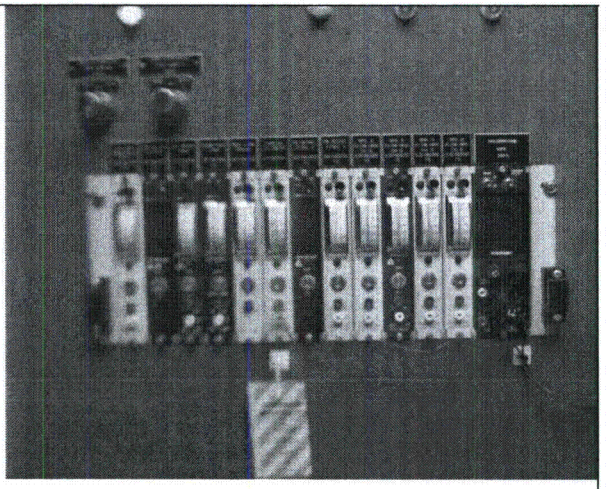
<td>  </td>
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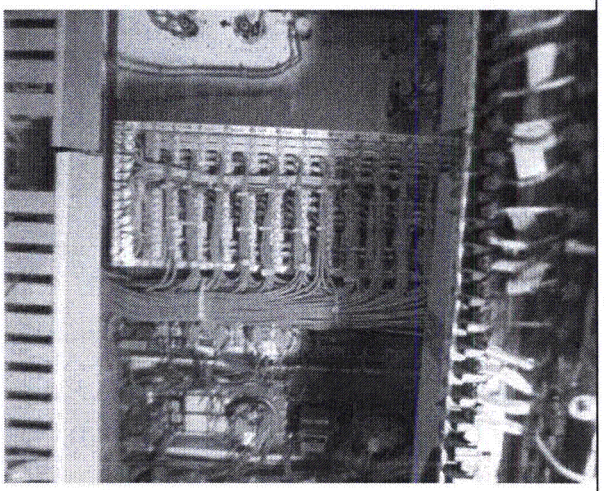
Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1- 084

Equipment ID No. *B21N682D* Equip. Class[1] *20 - Instrumentation and Control Panels*

Equipment Description *Level Switch (REACTOR VESSEL LEVEL LOW (PCIS/SCI/RWCU) SWITCH)*



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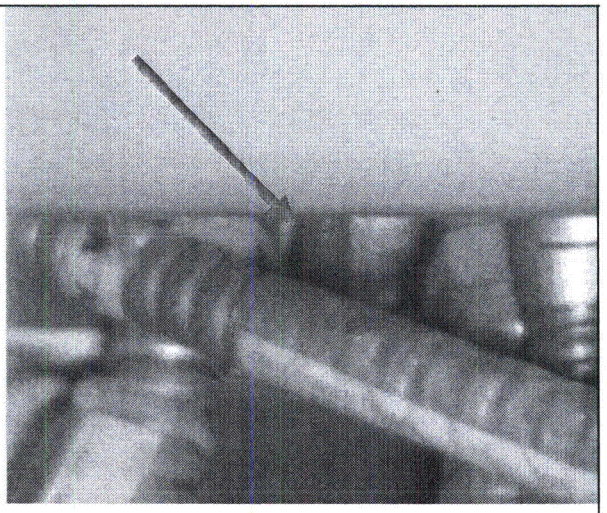


Note: *Missing nut and washer.*

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1- 085

Equipment ID No. *E31N608B* Equip. Class[1] *20 - Instrumentation and Control Panels*

Equipment Description *Temp Switch (RHR B EQUIPMENT AREA 1 TEMPERATURE SWITCH)*

Location: Bldg. *CB* Floor El. *166* Room, Area *OC504,CB*

Manufacturer, Model, Etc. (optional but recommended) *NUS INSTRUMENTS,A076PA-1*

Instructions for Completing Checklist

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

Anchorage

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

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☒ N☐ U☐ N/A☐
   All anchorage in good condition and existing.

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☒ N☐ U☐ N/A☐
   There is no apparent oxidation.

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☐ N☐ U☐ N/A☒
   Panel anchored to steel I-Beams

5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) Y☒ N☐ U☐ N/A☐
   Panel anchorage is consistent with 865E715, and Section 4.3 the Qualification Report in QP 367. Four (4) Screws attach the mounting plate to the panel

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☒ N☐ U☐

[1] Enter the equipment class name from EPRI 1025286 Appendix B: Classes of Equipment.

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) **SWEL1- 085**

Equipment ID No. *E31N608B* Equip. Class[1] *20 - Instrumentation and Control Panels*

Equipment Description *Temp Switch (RHR B EQUIPMENT AREA 1 TEMPERATURE SWITCH)*

Interaction Effects

7. Are soft targets free from impact by nearby equipment or structures? Y☒ N☐ U☐ N/A☐
   Adequate clearance is provided.

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y☒ N☐ U☐ N/A☐
   Overhead lighting appears to be adequately supported.

9. Do attached lines have adequate flexibility to avoid damage? Y☒ N☐ U☐ N/A☐
   Connecting wires and flex conduit have adequate flexibility

10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y☒ N☐ U☐

Other Adverse Conditions

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

Comments

None

Evaluated by: *Chase Wharton* Date: *10/2/2012*

Fred Hopkins *10/2/2012*

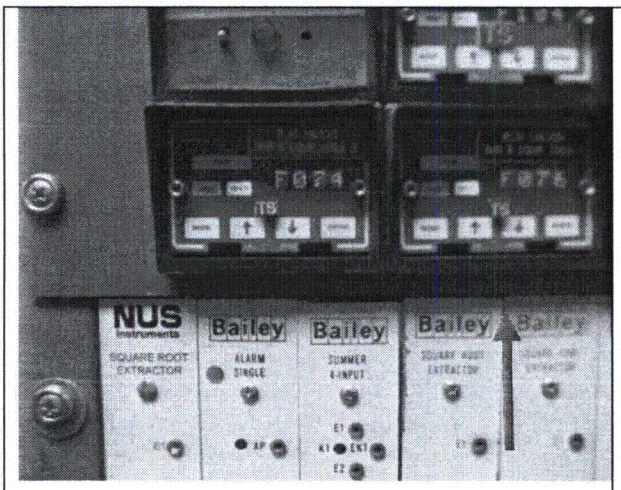
Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1- 085

Equipment ID No. *E31N608B* Equip. Class[1] *20 - Instrumentation and Control Panels*

Equipment Description *Temp Switch (RHR B EQUIPMENT AREA 1 TEMPERATURE SWITCH)*

Photographs



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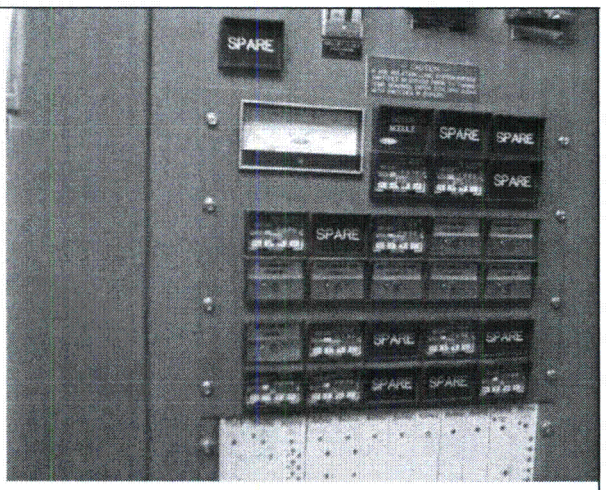


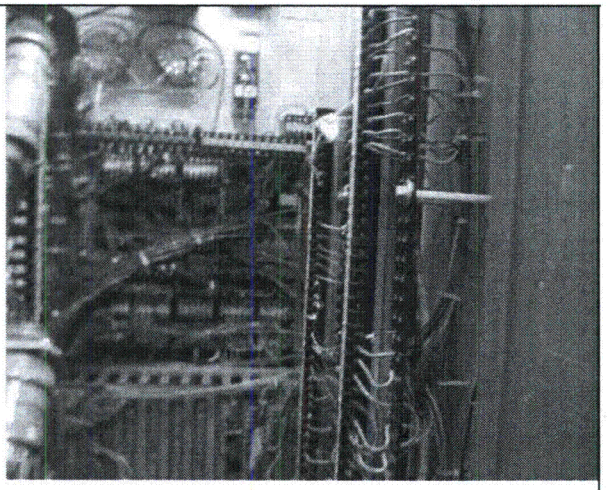
Note:

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1- 085

Equipment ID No. *E31N608B* Equip. Class[1] *20 - Instrumentation and Control Panels*

Equipment Description *Temp Switch (RHR B EQUIPMENT AREA 1 TEMPERATURE SWITCH)*



Note:

Note:

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1- 086

Equipment ID No. *H13P601* Equip. Class[1] *20 - Instrumentation and Control Panels*

Equipment Description *Level Recorder (Reactor Core Cooling BB)*

Location: Bldg. *CB* Floor El. *166* Room, Area *OC503, CB*

Manufacturer, Model, Etc. (optional but recommended) *General Electric Co.*

Instructions for Completing Checklist

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

Anchorage

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

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☒ N☐ U☐ N/A☐
   Panel is anchored to the floor beam's welded studs. Studs are welded to the beams every 6" C-C where panel's slotted holes fit in to.
   No bent, broken, missing or loose hardware found.

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☒ N☐ U☐ N/A☐
   No visual indication of corrosion found.

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☐ N☐ U☐ N/A☒
   No concrete attachment

5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) Y☒ N☐ U☐ N/A☐
   Per drawing 865E675 & 865E721, panel is mounted to the floor beams using welded studs. Studs are welded to the beams every 6" C-C where panel's slotted holes fit in to, and this condition has been verified.

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☒ N☐ U☐

[1] Enter the equipment class name from EPRI 1025286 Appendix B: Classes of Equipment.

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1- 086

Equipment ID No. *H13P601* Equip. Class[1] *20 - Instrumentation and Control Panels*

Equipment Description *Level Recorder (Reactor Core Cooling BB)*

Interaction Effects

7. Are soft targets free from impact by nearby equipment or structures? Y☐ N☐ U☐ N/A☒
   This equipment is not a soft target.

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y☒ N☐ U☐ N/A☐
   All overhead items (air vent is secured to the ceiling with screws) are rigidly supported.

9. Do attached lines have adequate flexibility to avoid damage? Y☒ N☐ U☐ N/A☐
   All attached lines inside of the panel have sufficient flexibility.

10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y☒ N☐ U☐

Other Adverse Conditions

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

Comments

Gregory Wilson (Electrician) opened panel for SWE.

Evaluated by: *Kyong S. (Jason) Pak* Kyong S. Pak Date: *10/4/2012*

Tori Robinson Tori Robinson *10/4/2012*

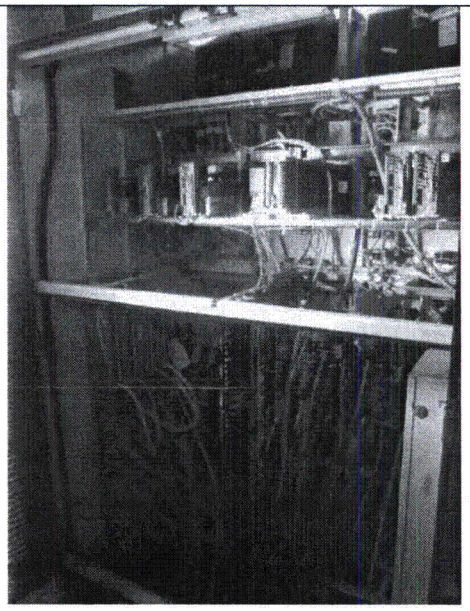
Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1- 086

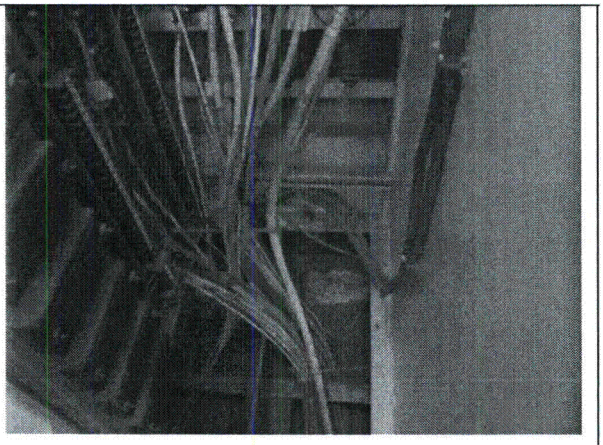
Equipment ID No. *H13P601* Equip. Class[1] *20 - Instrumentation and Control Panels*

Equipment Description *Level Recorder (Reactor Core Cooling BB)*

Photographs



Note: *Inside of panel*



Note: *Anchorage of panel to the floor beam*

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1- 087

Equipment ID No. *H22P150* Equip. Class[1] *20 - Instrumentation and Control Panels*

Equipment Description *Remote Shutdown Panel A*

Location: Bldg. *CB* Floor El. *111* Room, Area *OC208,CB*

Manufacturer, Model, Etc. (optional but recommended)

Instructions for Completing Checklist

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

Anchorage

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

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☒ N☐ U☐ N/A☐
   Panel welded to chanel,chanel welded to tube steel, tube steel welded to plate, plate anchored to concrete.

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☒ N☐ U☐ N/A☐
   Anchorage is coated

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☒ N☐ U☐ N/A☐
   No visible cracks

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

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☒ N☐ U☐

[1] Enter the equipment class name from EPRI 1025286 Appendix B: Classes of Equipment.

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) **SWEL1- 087**

Equipment ID No. *H22P150* Equip. Class[1] *20 - Instrumentation and Control Panels*

Equipment Description *Remote Shutdown Panel A*

Interaction Effects

7. Are soft targets free from impact by nearby equipment or structures? Y☐ N☐ U☐ N/A☒
   Item has no soft targets

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y☒ N☐ U☐ N/A☐
   Overhead equipment above the Remote Shutdown Panel is seismically restrained and does not create an adverse seismic condition

9. Do attached lines have adequate flexibility to avoid damage? Y☒ N☐ U☐ N/A☐
   Flexible conduit is attached to Remote Shutdown Panel with adequate clearance

10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y☒ N☐ U☐

Other Adverse Conditions

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

Comments

None

Evaluated by: *Chase Wharton* Date: *10/10/2012*

Fred Hopkins *10/10/2012*

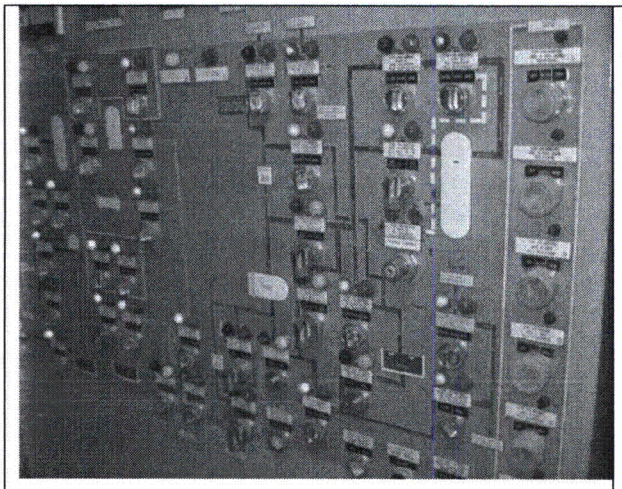
Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1- 087

Equipment ID No. *H22P150* Equip. Class[1] *20 - Instrumentation and Control Panels*

Equipment Description *Remote Shutdown Panel A*

Photographs



"SECURITY SENSITIVE PHOTO
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Note:

Note:

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1- 087

Equipment ID No. *H22P150* Equip. Class[1] *20 - Instrumentation and Control Panels*

Equipment Description *Remote Shutdown Panel A*

"SECURITY SENSITIVE PHOTO PHOTO REMOVED"	
Note:	**Note:**

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1- 088

Equipment ID No. *H22P296* Equip. Class[1] *20 - Instrumentation and Control Panels*

Equipment Description *Alternate Shutdown Panels*

Location: Bldg. *AB* Floor El. *119* Room, Area *1A219, 09*

Manufacturer, Model, Etc. (optional but recommended) *STUART, IRBY C. CO*

Instructions for Completing Checklist

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

Anchorage

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

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☐ N☒ U☐ N/A☐
   Panel is mounted to the unistrut on support frame, and support frame is anchored to the floor using (4) 5/8" dia. anchor bolts.
   Panel is mounted to the unistrut using spring nut. Plate inside unistrut (part of mounting assembly) is misaligned. (CR 2012-11455 initiated WR# 00286745) See photo.

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☒ N☐ U☐ N/A☐
   Floor is covered with epoxy coating; no visual indication of corrosion found

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☒ N☐ U☐ N/A☐
   Floor is covered with epoxy coating; no visual indication of concrete crack found

5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) Y☒ N☐ U☐ N/A☐
   Anchorage was checked against drawing 1A-209-3026, CSD-14 & CSD-15. The configuration shown on the drawing matched the field condition, but minor discrepancies found on field vs. drawing dimensions. However, these minor differences doesn't pose a seismic concern, therefore acceptable.

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☒ N☐ U☐

[1] Enter the equipment class name from EPRI 1025286 Appendix B: Classes of Equipment.

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) **SWEL1- 088**

Equipment ID No. *H22P296* Equip. Class[1] *20 - Instrumentation and Control Panels*

Equipment Description *Alternate Shutdown Panels*

Interaction Effects

7. Are soft targets free from impact by nearby equipment or structures? Y☐ N☐ U☐ N/A☒
   This equipment is not a soft target.

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y☒ N☐ U☐ N/A☐
   All overhead items (mainly cable trays) are rigidly supported.

9. Do attached lines have adequate flexibility to avoid damage? Y☒ N☐ U☐ N/A☐
   Flex conduit has been used for routing cable to the panel, therefore attached lines have adequate flexibility.

10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y☒ N☐ U☐

Other Adverse Conditions

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

Comments

Troy Pate (Electrician) opened the panel for SWE.

Evaluated by: *Kyong S. (Jason) Pak* Kyong S. Pak Date: *10/8/2012*

Tori Robinson Tori L. Robinson *10/8/2012*

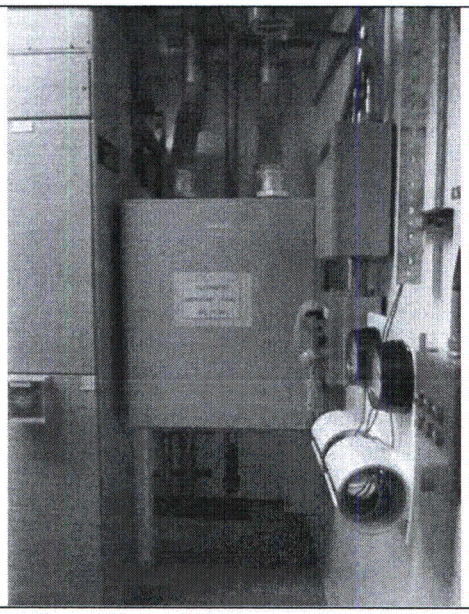
Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1- 088

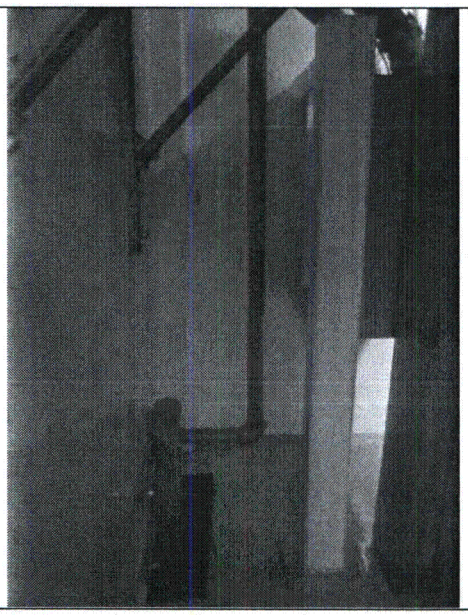
Equipment ID No. *H22P296* Equip. Class[1] *20 - Instrumentation and Control Panels*

Equipment Description *Alternate Shutdown Panels*

Photographs



Note: *Front view of the panel*



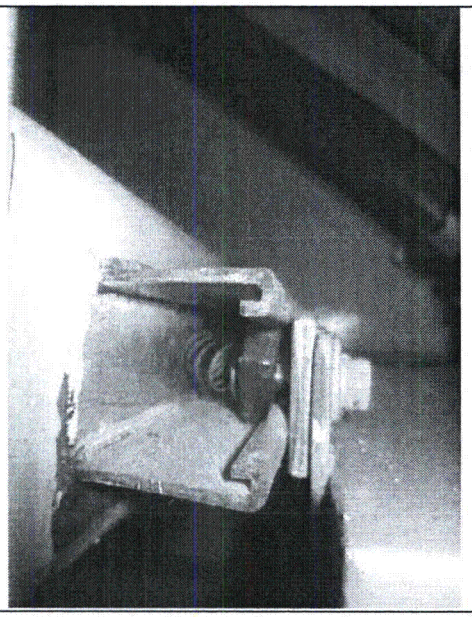
Note: *Rear view of the panel*

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1- 088

Equipment ID No. *H22P296* Equip. Class[1] *20 - Instrumentation and Control Panels*

Equipment Description *Alternate Shutdown Panels*

"SECURITY SENSITIVE PHOTO PHOTO REMOVED"	
Note: *Panel's front door opened*	**Note:** *Misaligned/twisted mounting assembly for panel mounted on unistrut*

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1- 089

Equipment ID No. *H22P331* Equip. Class[1] *20 - Instrumentation and Control Panels*

Equipment Description *DIVISION 1 LOAD SHED SEQ PANEL*

Location: Bldg. *CB* Floor El. *111* Room, Area *OC202, CB*

Manufacturer, Model, Etc. (optional but recommended)

Instructions for Completing Checklist

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

Anchorage

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

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☒ N☐ U☐ N/A☐
   Panel is mounted to plate, plate is anchored to concrete.

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☒ N☐ U☐ N/A☐
   Mild surface oxidation, but does not effect structural ability.

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☒ N☐ U☐ N/A☐
   No visible cracks

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

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☒ N☐ U☐

[1] Enter the equipment class name from EPRI 1025286 Appendix B: Classes of Equipment.

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) **SWEL1- 089**

Equipment ID No. *H22P331* Equip. Class[1] *20 - Instrumentation and Control Panels*

Equipment Description *DIVISION 1 LOAD SHED SEQ PANEL*

Interaction Effects

7. Are soft targets free from impact by nearby equipment or structures? Y☐ N☐ U☐ N/A☒
   Item has no soft targets

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y☒ N☐ U☐ N/A☐
   Overhead equipment is adequately supported

9. Do attached lines have adequate flexibility to avoid damage? Y☒ N☐ U☐ N/A☐
   Flexible conduit is attached to Battery Charger with adequate clearance

10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y☒ N☐ U☐

Other Adverse Conditions

11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? Y☒ N☐ U☐
    Cable lubricant found at bottom of panel.

Comments

None

Evaluated by: *Chase Wharton* Date: *10/10/2012*

Fred Hopkins *10/10/2012*

Status: Y☒ N☐ U☐

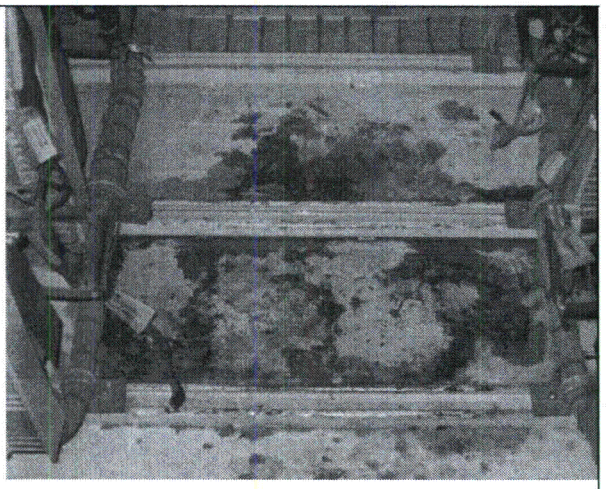
Seismic Walkdown Checklist (SWC) SWEL1- 089

Equipment ID No. *H22P331* Equip. Class[1] *20 - Instrumentation and Control Panels*

Equipment Description *DIVISION 1 LOAD SHED SEQ PANEL*

Photographs

Note:



Note:

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1- 090

Equipment ID No. *H22P401* Equip. Class[1] *20 - Instrumentationand Control Panels*

Equipment Description *STBY DG Engine Control Panel (Diesel Generator Instrument Panel Div 2)*

Location: Bldg. *DG* Floor El. *133* Room, Area *1D308, DSL*

Manufacturer, Model, Etc. (optional but recommended) *Cooper Energy, SVSS 09-500-74033*

Instructions for Completing Checklist

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

Anchorage

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

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☒ N☐ U☐ N/A☐
   Panel is supported by channel frame which is anchored to the floor. See photo.
   No bent, broken, missing or loose hardware found.

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☒ N☐ U☐ N/A☐
   Floor is covered with epoxy coating; no visual indication of corrosion found.

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☒ N☐ U☐ N/A☐
   Floor is covered with epoxy coating; no visual indication of concrete crack found.

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

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☒ N☐ U☐

[1] Enter the equipment class name from EPRI 1025286 Appendix B: Classes of Equipment.

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) **SWEL1- 090**

Equipment ID No. *H22P401* Equip. Class[1] *20 - Instrumentationand Control Panels*

Equipment Description *STBY DG Engine Control Panel (Diesel Generator Instrument Panel Div 2)*

Interaction Effects

7. Are soft targets free from impact by nearby equipment or structures? Y☐ N☐ U☐ N/A☒
   This equipment is not a soft target.

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y☒ N☐ U☐ N/A☐
   All overhead items (mainly cable trays) are rigidly supported.
   In the vicinity, light fixtures are hung with chain using S-hook. However, light fixtures are not directly located over any safety related equipment. Therefore, this condition doesn't pose a seismic concern.

9. Do attached lines have adequate flexibility to avoid damage? Y☒ N☐ U☐ N/A☐
   All conduits routed to the panel have flex connections, therefore acceptable.

10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y☒ N☐ U☐

Other Adverse Conditions

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

Comments

Blake Rice (NRC Inspector) came with us to the walkdown, and Electrician opened the panel door for SWE.

Evaluated by: *Kyong S. (Jason) Pak* Date: *9/27/2012*

Tori Robinson *9/27/2012*

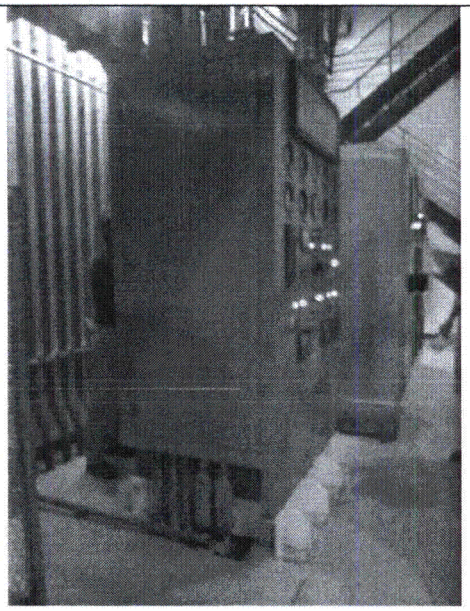
Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1- 090

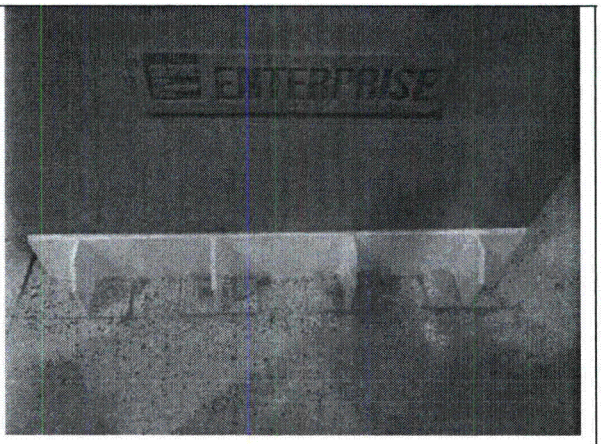
Equipment ID No. *H22P401* Equip. Class[1] *20 - Instrumentationand Control Panels*

Equipment Description *STBY DG Engine Control Panel (Diesel Generator Instrument Panel Div 2)*

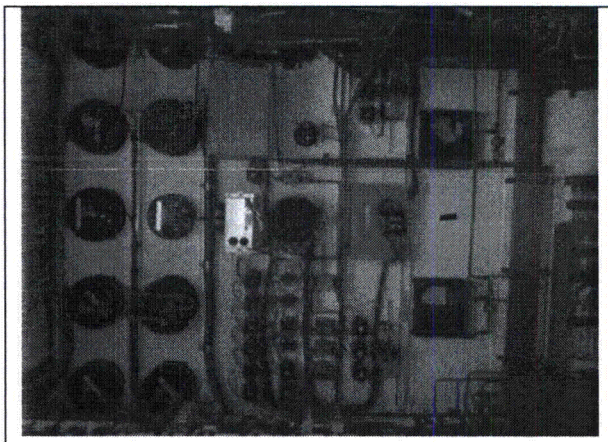
Photographs



Note: *Panel H22P401*



Note: *Anchorage to the floor*



Note: *Inside of the panel*

Note:

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1- 091

Equipment ID No. *M71N602A* Equip. Class[1] *20 - Instrumentation and Control Panels*

Equipment Description *Strip Chart Recorder (RG 1.97) (Containment Pressure Highswitch)*

Location: Bldg. *CB* Floor El. *189* Room, Area *OC703, CB*

Manufacturer, Model, Etc. (optional but recommended) *Rosemount, 510DU237155*

Instructions for Completing Checklist

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

Anchorage

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

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☐ N☒ U☐ N/A☐

   Strip chart recorder M71N602A is mounted to the panel H13P871. Panel is anchored to the floor beams.

   In Bay A, one screw (out of 12 total) is missing on mounting plate for WAKI-YX-P871. Also, cable bundle on top of the panel is not properly secure to the wire support plate nearby. (CR 2012-11464 initiated WR# 00286754)

   In Bay D, bolts/nuts are missing on two of flex conduit support clamps. See photo. Additionally, two flex conduits shown on photo are not properly supported. (CR 2012-11463 initiated WR# 00286753)

   In Bay E, one screw (out of four total) is missing on mounting plate/bracket of M71N606A and M71N616A. (CR 2012-11462 initiated WR #00286751) See photo.

   In Bay H, Panel H13P871 and Halon panel right next to it are not connected to each other. There are holes on halon panel but not on panel H13P871. Halon panel is anchored to the floor beams. There is no concern for potential seismic interaction between the non-safety related Halon Panel 1H13P915 and the Upper Control Room (UCR) Panels 1H13P871. The halon panels are installed at the end of a series of UCR panels. The halon panels are bolted to the UCR floor. Experience and seismic testing indicated that in the side-to-side direction the UCR panels are rigid. The Halon panels and the UCR panels are butted together with no gaps. With no gap, the displacement experienced would be minimal. During a seismic event the panels would act together as a rigid body and will not adversely affect any of the other panels. Therefore, the impact from the halon panels on the UCR panels would not induce any significant additional loading during a seismic event.

[1] Enter the equipment class name from EPRI 1025286 Appendix B: Classes of Equipment.

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1- 091

Equipment ID No. *M71N602A* Equip. Class[1] *20 - Instrumentation and Control Panels*

Equipment Description *Strip Chart Recorder (RG 1.97) (Containment Pressure Highswitch)*

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☒ N☐ U☐ N/A☐
   No visual indication of corrosion found.
4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☐ N☐ U☐ N/A☒
   No concrete attachment
5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) Y☐ N☐ U☐ N/A☒
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☐ N☒ U☐
   See question number 2.

Interaction Effects

7. Are soft targets free from impact by nearby equipment or structures? Y☒ N☐ U☐ N/A☐
   All equipments/structures nearby are rigidly supported.
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y☒ N☐ U☐ N/A☐
   All overhead items (HVAC duct, conduit, etc.) are rigidly supported.
9. Do attached lines have adequate flexibility to avoid damage? Y☒ N☐ U☐ N/A☐
   Flex cable has been used, therefore attached line has adequate flexibility.
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y☒ N☐ U☐

Other Adverse Conditions

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

Comments

In bay C, three broken tie-wraps found.

Evaluated by: *Fred Hopkins* Date: 11-14-12

Tori Robinson 11-14-12

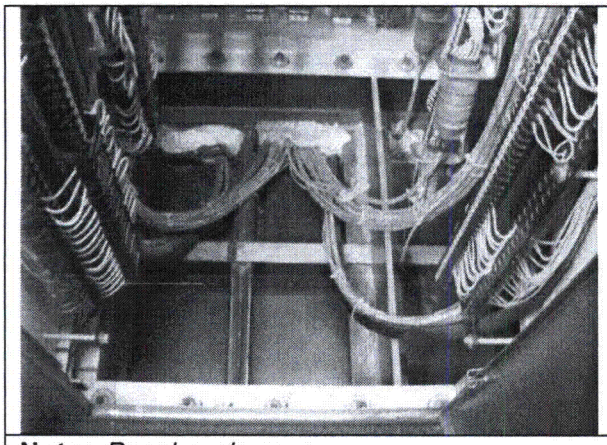
Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1- 091

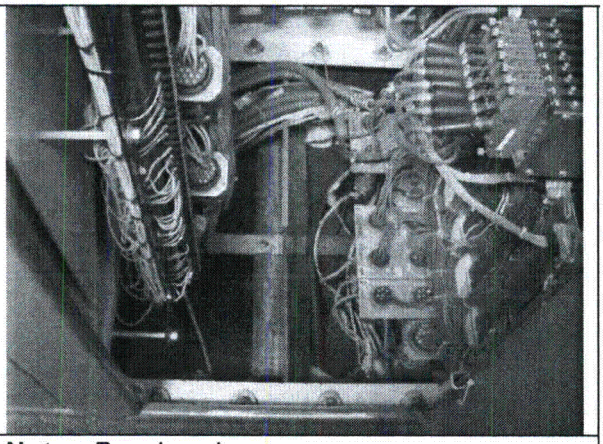
Equipment ID No. *M71N602A* Equip. Class[1] *20 - Instrumentation and Control Panels*

Equipment Description *Strip Chart Recorder (RG 1.97) (Containment Pressure Highswitch)*

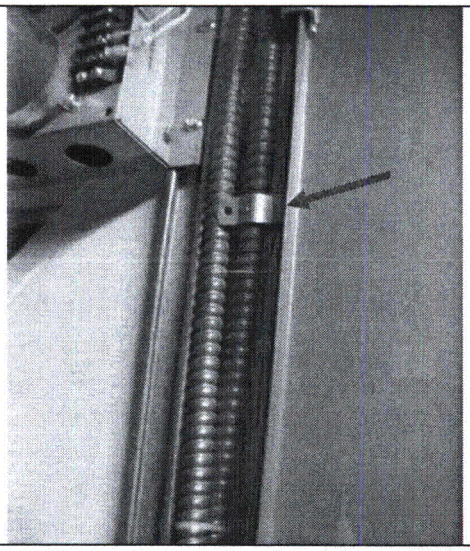
Photographs



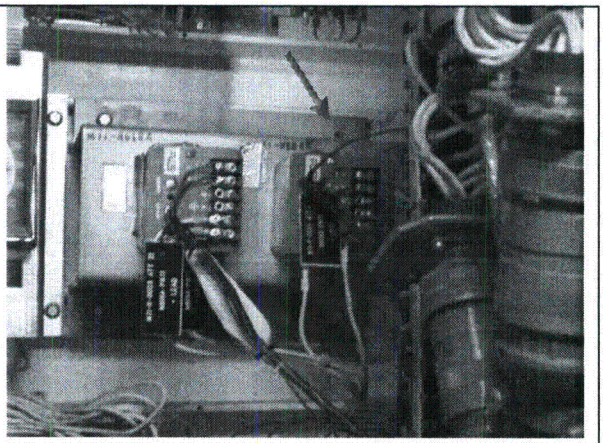
Note: *Panel anchorage*



Note: *Panel anchorage*



Note: *Missing bolt and nut on clamp*



Note: *Missing bolt on mounting bracket for M71N606A & M71N616A*

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1- 092

Equipment ID No. *E12B002B* Equip. Class[1] *21 - Tanks and Heat Exchangers*

Equipment Description *RHR Heat Exchanger*

Location: Bldg. *AB* Floor El. *93* Room, Area *1A106, 08*

Manufacturer, Model, Etc. (optional but recommended) *GENERAL ELECTRIC CO, 762E987*

Instructions for Completing Checklist

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

Anchorage

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y☒ N☐
   Item achored to civil structure at the 108' elevation.Structural columns are anchored to concrete at 93' elevation. Horizontal load supports at 119 EL had fire proof coating, but keys and key ways were visible and in compliance with plant documents.
2. Is the anchorage free of bent, broken, missing or loose hardware? Y☐ N☒ U☐ N/A☐
   Missing second nut on one bolt (CR-GGN-2012-11311). 1/4" gap between bolt head and washer(CR-GGN-2012-11312).
3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☒ N☐ U☐ N/A☐
   Anchorage is coated and there is no apparent oxidation.
4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☒ N☐ U☐ N/A☐
   Heat exchanger anchored to stee Columnl. Column anchorage has no visible cracks
5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) Y☐ N☒ U☐ N/A☐
   Drawing indicates 2 nuts for anchor bolts. Documents used for verification are 131C8536, C-1365 E, C-1365D.
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☐ N☒ U☐

[1] Enter the equipment class name from EPRI 1025286 Appendix B: Classes of Equipment.

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1- 092

Equipment ID No. *E12B002B* Equip. Class[1] *21 - Tanks and Heat Exchangers*

Equipment Description *RHR Heat Exchanger*

Interaction Effects

7. Are soft targets free from impact by nearby equipment or structures? Y☐ N☐ U☐ N/A☒
   Item has no soft targets

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y☒ N☐ U☐ N/A☐
   Structural steel, concrete, grating and lights are installed in the overhead and they do not create any adverse seismic conditions.

9. Do attached lines have adequate flexibility to avoid damage? Y☒ N☐ U☐ N/A☐
   RHR Heat Exchanger B pipe is rigidly supported and no flex pipes are installed on the RHR Heat Exchanger.

10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y☒ N☐ U☐

Other Adverse Conditions

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

Comments

Gap in weld on angle iron drawing shoes all around weld CR-GGN-2012-11314. Fire protection was installed on the Key ways identified on elevation 119'. There are no signs of degradation to the fireproofing the connection points were considered intact.

Evaluated by: *Chase Wharton* Date: *10/3/2012*

Fred Hopkins *10/3/2012*

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1- 092

Equipment ID No. *E12B002B* Equip. Class[1] *21 - Tanks and Heat Exchangers*

Equipment Description *RHR Heat Exchanger*

Photographs

Note: *Missing second nut*

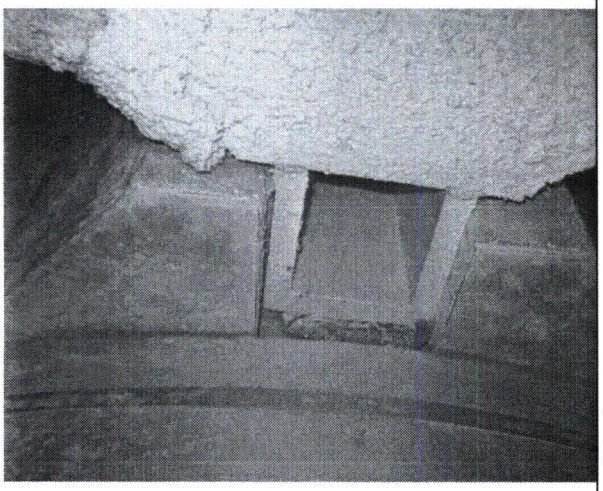
Note: *Gap between nut and washer*

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1- 092

Equipment ID No. *E12B002B* Equip. Class[1] *21 - Tanks and Heat Exchangers*

Equipment Description *RHR Heat Exchanger*



Note:

Note:

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1- 093

Equipment ID No. *P75B006A* Equip. Class[1] *21 - Tanks and Heat Exchangers*

Equipment Description *Standby DG Lube Oil Cooler*

Location: Bldg. *DG* Floor El. *133* Room, Area *1D310, DSL*

Manufacturer, Model, Etc. (optional but recommended) *Thermxchanger, #2020 Type SP*

Instructions for Completing Checklist

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

Anchorage

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

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☒ N☐ U☐ N/A☐
   Item is welded to saddles, and bolted to steel plates. Steel Plates are bolted to concrete

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☒ N☐ U☐ N/A☐
   All anchorage is coated, free from oxidation.

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☒ N☐ U☐ N/A☐
   No visual cracks in concrete

5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) Y☒ N☐ U☐ N/A☐
   Anchorage is consistent with E-1052

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☒ N☐ U☐

[1] Enter the equipment class name from EPRI 1025286 Appendix B: Classes of Equipment.

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1- 093

Equipment ID No. *P75B006A* Equip. Class[1] *21 - Tanks and Heat Exchangers*

Equipment Description *Standby DG Lube Oil Cooler*

Interaction Effects

7. Are soft targets free from impact by nearby equipment or structures? Y☐ N☐ U☐ N/A☒

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y☒ N☐ U☐ N/A☐
   Item is protected by over head grating.

9. Do attached lines have adequate flexibility to avoid damage? Y☐ N☐ U☐ N/A☒

10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y☒ N☐ U☐

Other Adverse Conditions

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

Comments

None

Evaluated by: *Chase Wharton* Date: *9/26/2012*

Fred Hopkins *9/26/2012*

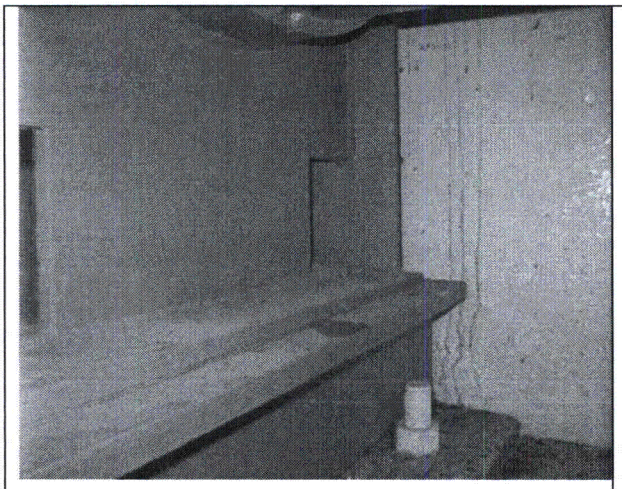
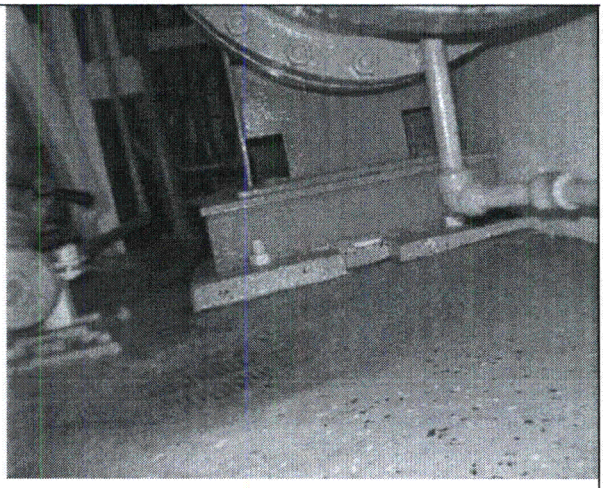
Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1- 093

Equipment ID No. *P75B006A* Equip. Class[1] *21 - Tanks and Heat Exchangers*

Equipment Description *Standby DG Lube Oil Cooler*

Photographs

	
Note: *Anchorage*	**Note:**

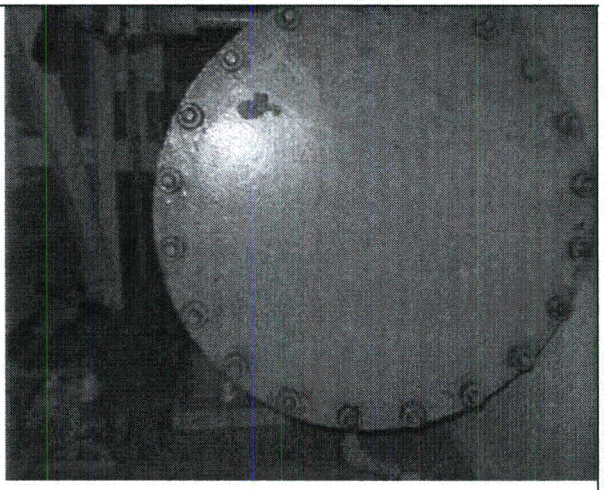
Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1- 093

Equipment ID No. *P75B006A* Equip. Class[1] *21 - Tanks and Heat Exchangers*

Equipment Description *Standby DG Lube Oil Cooler*

Note:



Note:

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL2- 001

Equipment ID No. *G41C001A* Equip. Class[1] *5 - Horizontal Pumps*

Equipment Description *FUEL POOL PUMP/MOTOR*

Location: Bldg. *AB* Floor El. *166* Room, Area *1A432*

Manufacturer, Model, Etc. (optional but recommended) *Pump: UNION PUMP CO,6X6X10-1/2 HHM*
Motor: GE,SK444EK134

Instructions for Completing Checklist

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

Anchorage

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

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☒ N☐ U☐ N/A☐
   Item is mounted to pedestal

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☒ N☐ U☐ N/A☐
   Anchorage is coated

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☒ N☐ U☐ N/A☐
   No visible cracks in concrete

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

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☒ N☐ U☐

[1] Enter the equipment class name from EPRI 1025286 Appendix B: Classes of Equipment.

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) **SWEL2- 001**

Equipment ID No. *G41C001A* Equip. Class[1] *5 - Horizontal Pumps*

Equipment Description *FUEL POOL PUMP/MOTOR*

Interaction Effects

7. Are soft targets free from impact by nearby equipment or structures? Y☐ N☐ U☐ N/A☒
   Item has no soft targets

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y☒ N☐ U☐ N/A☐

9. Do attached lines have adequate flexibility to avoid damage? Y☒ N☐ U☐ N/A☐

10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y☒ N☐ U☐

Other Adverse Conditions

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

Comments

None

Evaluated by: *Chase Wharton* Date: *10/10/2012*

Fred Hopkins *10/10/2012*

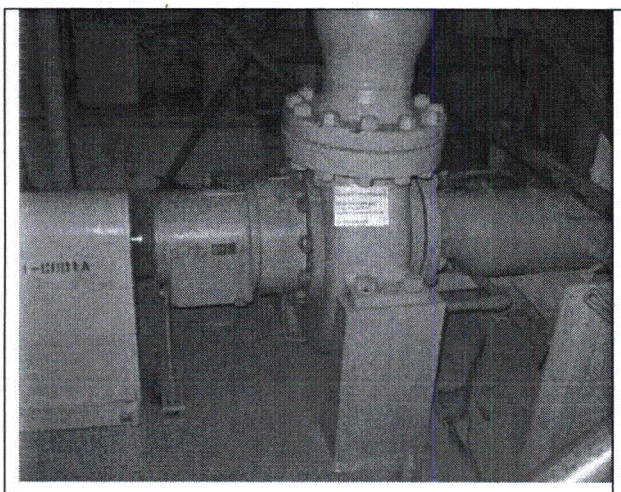
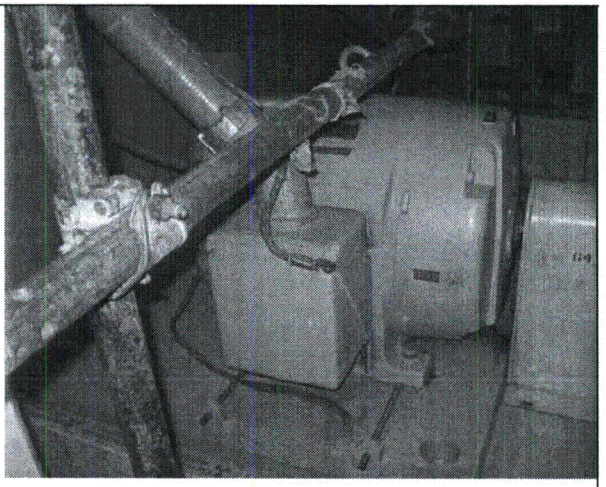
Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL2- 001

Equipment ID No. *G41C001A* Equip. Class[1] *5 - Horizontal Pumps*

Equipment Description *FUEL POOL PUMP/MOTOR*

Photographs

	
Note:	**Note:**

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL2- 002

Equipment ID No. *G41F501* Equip. Class[1] *8 - Motor-Operated and Solenoid-Operated Valves*

Equipment Description *Fuel Pool CLG SYS ISO VLVF045 Solenoid*

Location: Bldg. *AB* Floor El. *185* Room, Area *1A527*

Manufacturer, Model, Etc. (optional but recommended) *Asco - Automatic Switch C, NP8321A6E*

Instructions for Completing Checklist

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

Anchorage

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

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☐ N☐ U☐ N/A☒

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☐ N☐ U☐ N/A☒

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☐ N☐ U☐ N/A☒

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

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☒ N☐ U☐
   N/A, in-line equipment

[1] Enter the equipment class name from EPRI 1025286 Appendix B: Classes of Equipment.

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) **SWEL2- 002**

Equipment ID No. *G41F501* Equip. Class[1] *8 - Motor-Operated and Solenoid-Operated Valves*

Equipment Description *Fuel Pool CLG SYS ISO VLVF045 Solenoid*

Interaction Effects

7. Are soft targets free from impact by nearby equipment or structures? Y☒ N☐ U☐ N/A☐
   All equipments/structures nearby are rigidly supported.

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y☒ N☐ U☐ N/A☐
   All overhead items are rigidly supported.

9. Do attached lines have adequate flexibility to avoid damage? Y☒ N☐ U☐ N/A☐
   Tubing has adequate flexibility.

10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y☒ N☐ U☐

Other Adverse Conditions

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

Comments

None

Evaluated by: *Kyong S. (Jason) Pak* Kyong S. Oh Date: *10/3/2012*

Tori Robinson Tori Robinson *10/3/2012*

Status: Y☒ N☐ U☐

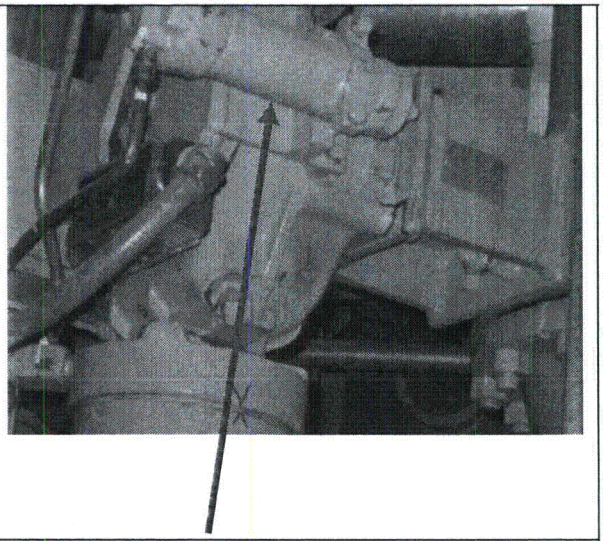
Seismic Walkdown Checklist (SWC) SWEL2- 002

Equipment ID No. *G41F501* Equip. Class[1] *8 - Motor-Operated and Solenoid-Operated Valves*

Equipment Description *Fuel Pool CLG SYS ISO VLVF045 Solenoid*

Photographs

Note: *Valve G41F045*



Note: *Valve G41F501*

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL2- 003

Equipment ID No. *G41F045* Equip. Class[1] *8 - Motor-Operated and Solenoid-Operated Valves*

Equipment Description *Filter Demin Inlet Valve*

Location: Bldg. *AB* Floor El. *185* Room, Area *1A527*

Manufacturer, Model, Etc. (optional but recommended) *Valve: Henry Pratt Co., Actuator: Bettis Corp.*

Instructions for Completing Checklist

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

Anchorage

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

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☐ N☐ U☐ N/A☒

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☐ N☐ U☐ N/A☒

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☐ N☐ U☐ N/A☒

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

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☒ N☐ U☐
   N/A, in-line equipment

[1] Enter the equipment class name from EPRI 1025286 Appendix B: Classes of Equipment.

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) **SWEL2- 003**

Equipment ID No. *G41F045* Equip. Class[1] *8 - Motor-Operated and Solenoid-Operated Valves*

Equipment Description *Filter Demin Inlet Valve*

Interaction Effects

7. Are soft targets free from impact by nearby equipment or structures? Y☐ N☐ U☐ N/A☒
   This equipment is not a soft target.

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y☒ N☐ U☐ N/A☐
   All overhead items are rigidly supported.

9. Do attached lines have adequate flexibility to avoid damage? Y☒ N☐ U☐ N/A☐
   Attached lines (tubing, flex conduit) have adequate flexibility.

10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y☒ N☐ U☐

Other Adverse Conditions

11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? Y☐ N☒ U☐
    One of the nut on flange connection for the valve G41F045 is missing. See Photo. (CR 2012-11306 initiated WR# 00285926)

Comments

None

Evaluated by: *Kyong S. (Jason) Pak* Kyong S. Pak Date: *10/3/2012*

Tori Robinson Tori Robinson *10/3/2012*

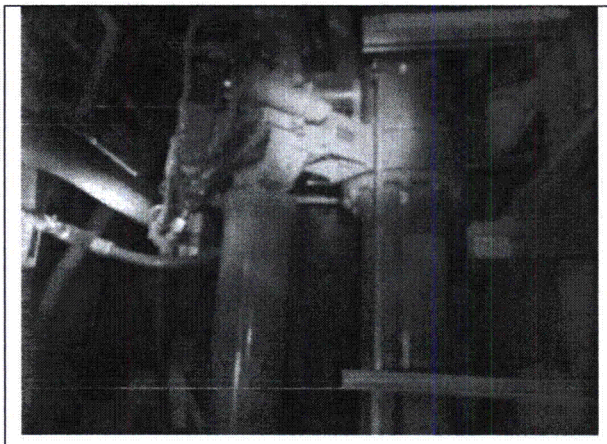
Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL2- 003

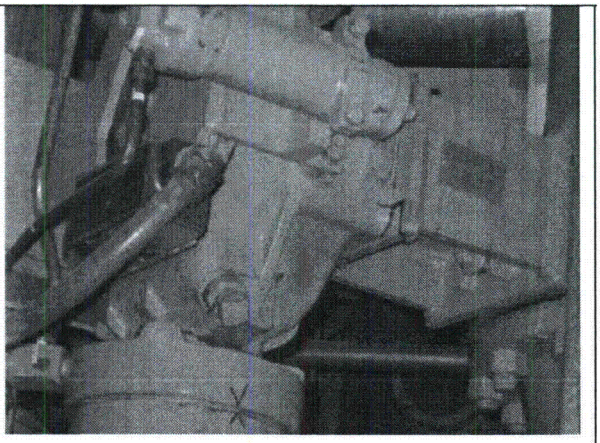
Equipment ID No. *G41F045* Equip. Class[1] *8 - Motor-Operated and Solenoid-Operated Valves*

Equipment Description *Filter Demin Inlet Valve*

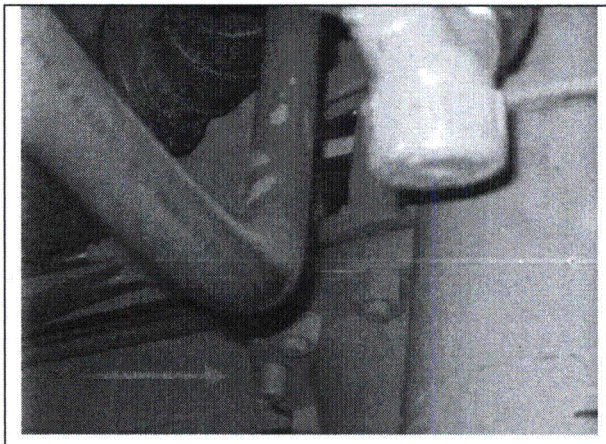
Photographs



Note: *Valve G41F045*



Note: *Valve G41F045*



Note: *Missing nut on valve G41F045*

Note:

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL2- 004

Equipment ID No. *G41N012* Equip. Class[1] *18 - Instrument Racks*

Equipment Description *Filter/Demineralizer Bypass Flow Transmitter*

Location: Bldg. *AB* Floor El. *185* Room, Area *1A527*

Manufacturer, Model, Etc. (optional but recommended) *Rosemount, 1151DP5C22T0001PB*

Instructions for Completing Checklist

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

Anchorage

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

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☒ N☐ U☐ N/A☐
   Flow Transmitter is mounted to TS 6x6 vertical post which is anchored to the floor using (4) 1/2" dia. anchor bolts.
   No bent, broken, missing or loose hardware found.

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☒ N☐ U☐ N/A☐
   Floor is covered with epoxy coating; no visual indication of corrosion found

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☒ N☐ U☐ N/A☐
   Floor is covered with epoxy coating; no visual indication of concrete crack found

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

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☒ N☐ U☐

[1] Enter the equipment class name from EPRI 1025286 Appendix B: Classes of Equipment.

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL2- 004

Equipment ID No. *G41N012* Equip. Class[1] *18 - Instrument Racks*

Equipment Description *Filter/Demineralizer Bypass Flow Transmitter*

Interaction Effects

7. Are soft targets free from impact by nearby equipment or structures? Y☒ N☐ U☐ N/A☐
   All equipment/structures are rigidly supported.

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y☒ N☐ U☐ N/A☐
   All overhead items (cable tray, light fixture, conduit, etc.) are rigidly supported.

9. Do attached lines have adequate flexibility to avoid damage? Y☒ N☐ U☐ N/A☐
   Flex conduit has been used for routing cable to the flow transmitter, and tubing attached to the transmitter has adequate flexibility.

10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y☒ N☐ U☐

Other Adverse Conditions

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

Comments

None

Evaluated by: *Kyong S. (Jason) Pak* Kyong S. Pak Date: *10/3/2012*

Tori Robinson Tori Robinson *10/3/2012*

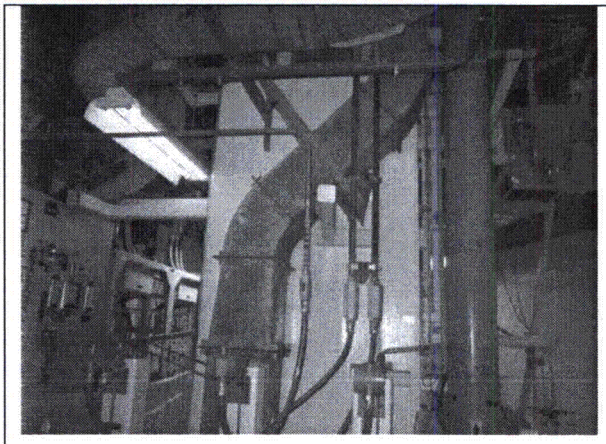
Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL2- 004

Equipment ID No. *G41N012* Equip. Class[1] *18 - Instrument Racks*

Equipment Description *Filter/Demineralizer Bypass Flow Transmitter*

Photographs



Note: *General view of the overhead area*

Note: *General view of the area*

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL2- 005

Equipment ID No. *G41N007B* Equip. Class[1] *18 - Instrament Rack*

Equipment Description *FUEL POOL PUMP C001B DISCH PRESSURE LOW SWITCH*

Location: Bldg. *AB* Floor El. *166* Room, Area *1A428*

Manufacturer, Model, Etc. (optional but recommended) *BARKSDALE CONTROL DIV,B2T-A12SS*

Instructions for Completing Checklist

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

Anchorage

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

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☒ N☐ U☐ N/A☐
   Item is mounted on floor mounted tube steel. The tube steel is mounted on a base plate.

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☒ N☐ U☐ N/A☐
   No oxidation all anchor bolts are coated

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☒ N☐ U☐ N/A☐
   All base plates and floor anchorage is coated no visual cracks.

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

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☒ N☐ U☐

[1] Enter the equipment class name from EPRI 1025286 Appendix B: Classes of Equipment.

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) **SWEL2- 005**

Equipment ID No. *G41N007B* Equip. Class[1] *18 - Instrament Rack*

Equipment Description *FUEL POOL PUMP C001B DISCH PRESSURE LOW SWITCH*

Interaction Effects

7. Are soft targets free from impact by nearby equipment or structures? Y☒ N☐ U☐ N/A☐
   Item is in open area.

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y☒ N☐ U☐ N/A☐
   All overhead raceways are supported.

9. Do attached lines have adequate flexibility to avoid damage? Y☒ N☐ U☐ N/A☐
   Flex conduit is connected to item.

10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y☒ N☐ U☐

Other Adverse Conditions

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

Comments

Evaluated by: *Chase Wharton* Date: *9/26/2012*

Fred Hopkins *9/26/2012*

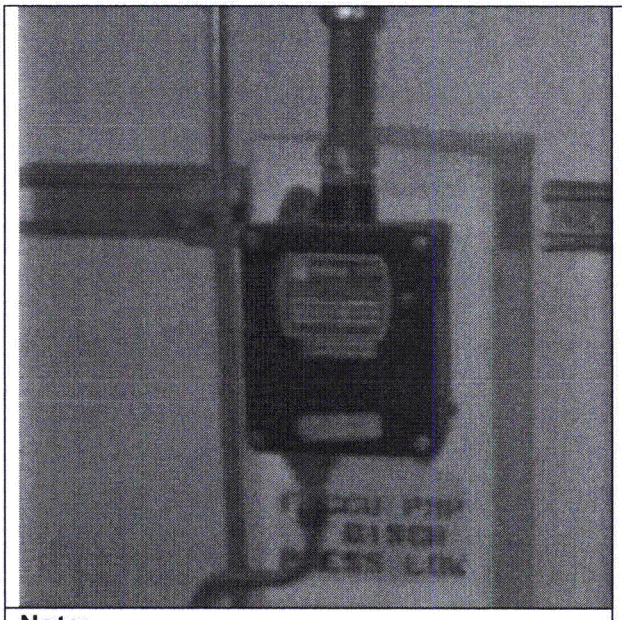
Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL2- 005

Equipment ID No. *G41N007B* Equip. Class[1] *18 - Instrament Rack*

Equipment Description *FUEL POOL PUMP C001B DISCH PRESSURE LOW SWITCH*

Photographs

	
Note:	**Note:**

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL2- 006

Equipment ID No. *G41N011* Equip. Class[1] *18 - Instrument Racks*

Equipment Description *Upper Containment Pool Retrun Flow Transmitter*

Location: Bldg. *AB* Floor El. *185* Room, Area *1A527*

Manufacturer, Model, Etc. (optional but recommended) *Rosemount, 1152DP5E22T0280PB*

Instructions for Completing Checklist

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

Anchorage

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

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☐ N☒ U☐ N/A☐
   Flow Transmitter is mounted to TS 6x6 vertical post which is anchored to the floor using (4) 1/2" dia. anchor bolts.
   One of the bolt on the flow transmitter mounting bracket is not fully engaged. See photo. (CR 2012-11307 initiated WR# 00285927)

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☒ N☐ U☐ N/A☐
   Floor is covered with epoxy coating; no visual indication of corrosion found

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☒ N☐ U☐ N/A☐
   Floor is covered with epoxy coating; no visual indication of concrete crack found

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

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☐ N☒ U☐
   See question number 2.

[1] Enter the equipment class name from EPRI 1025286 Appendix B: Classes of Equipment.

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) **SWEL2- 006**

Equipment ID No. *G41N011* Equip. Class[1] *18 - Instrument Racks*

Equipment Description *Upper Containment Pool Retrun Flow Transmitter*

Interaction Effects

7. Are soft targets free from impact by nearby equipment or structures? Y☒ N☐ U☐ N/A☐
   All equipment/structures are rigidly supported.

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y☒ N☐ U☐ N/A☐
   All overhead items (cable tray, light fixture, conduit, etc.) are rigidly supported.

9. Do attached lines have adequate flexibility to avoid damage? Y☒ N☐ U☐ N/A☐
   Flex conduit has been used for routing cable to the flow transmitter, and tubing attached to the transmitter has adequate flexibility.

10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y☒ N☐ U☐

Other Adverse Conditions

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

Comments

None

Evaluated by: *Kyong S. (Jason) Pak* Kyong S. Pak Date: *10/3/2012*

Tori Robinson Tori Robinson *10/3/2012*

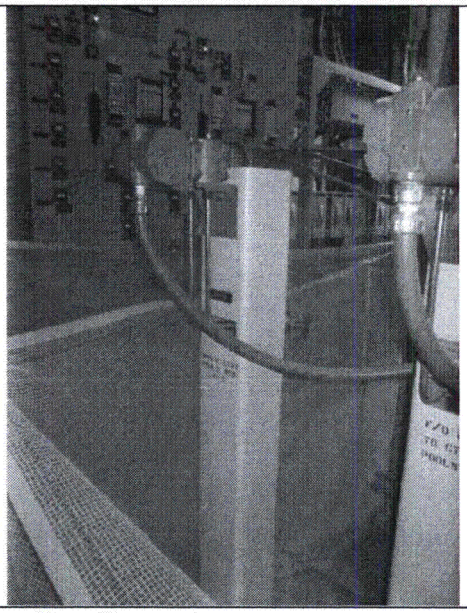
Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL2- 006

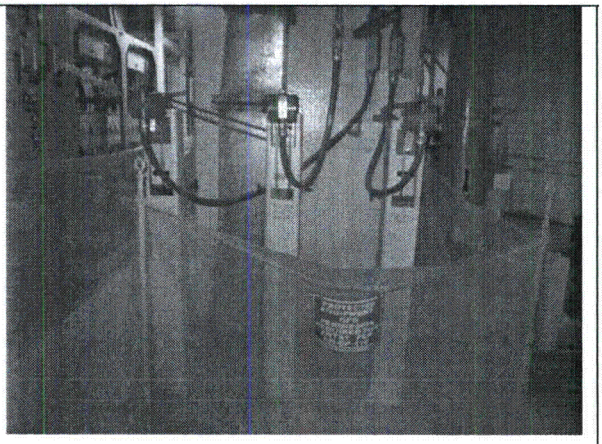
Equipment ID No. *G41N011* Equip. Class[1] *18 - Instrument Racks*

Equipment Description *Upper Containment Pool Retrun Flow Transmitter*

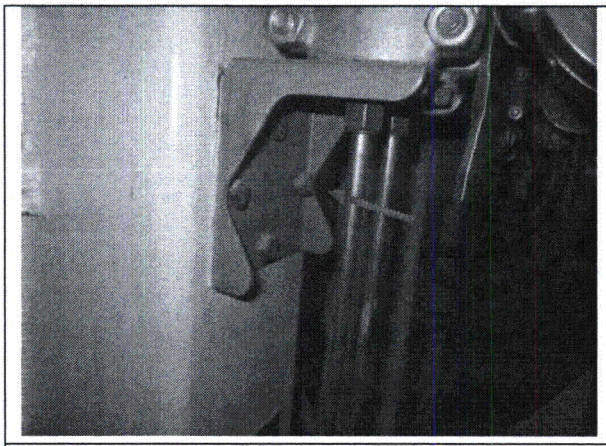
Photographs



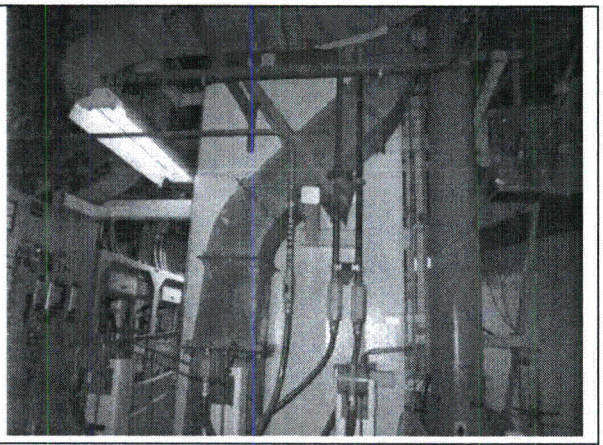
Note: *Flow Transmitter*



Note: *General view of the area*



Note: *Loose bolt*



Note: *General view of the overhead area*

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL2- 007

Equipment ID No. *G41N018B* Equip. Class[1] *18 - Instrament Rack*

Equipment Description *FUEL POOL PUMP B DISCH PRESSURE TRANSMITTER*

Location: Bldg. *AB* Floor El. *166* Room, Area *1A428*

Manufacturer, Model, Etc. (optional but recommended) *ROSEMOUNT,1151GP7A22T0001PB*

Instructions for Completing Checklist

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

Anchorage

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

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☒ N☐ U☐ N/A☐
   Item is mounted on floor mounted tube steel. The tube steel is mounted on a base plate.

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☒ N☐ U☐ N/A☐
   No oxidation all anchor bolts are coated

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☒ N☐ U☐ N/A☐
   All base plates and floor anchorage is coated no visual cracks.

5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) Y☒ N☐ U☐ N/A☐
   Bracket anchorage is consistent with vendor drawings. Base plate anchor bolts are 9" OC with 1.5" edge distance. Consistent with FSK-I-0113G-808-V

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☒ N☐ U☐

[1] Enter the equipment class name from EPRI 1025286 Appendix B: Classes of Equipment.

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) **SWEL2- 007**

Equipment ID No. *G41N018B* Equip. Class[1] *18 - Instrament Rack*

Equipment Description *FUEL POOL PUMP B DISCH PRESSURE TRANSMITTER*

Interaction Effects

7. Are soft targets free from impact by nearby equipment or structures? Y☒ N☐ U☐ N/A☐
   Item is in open area.

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y☒ N☐ U☐ N/A☐
   All overhead raceways are supported.

9. Do attached lines have adequate flexibility to avoid damage? Y☒ N☐ U☐ N/A☐
   Flex conduit is connected to item.

10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y☒ N☐ U☐

Other Adverse Conditions

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

Comments

None

Evaluated by: *Chase Wharton* Date: *9/26/2012*

Fred Hopkins *9/26/2012*

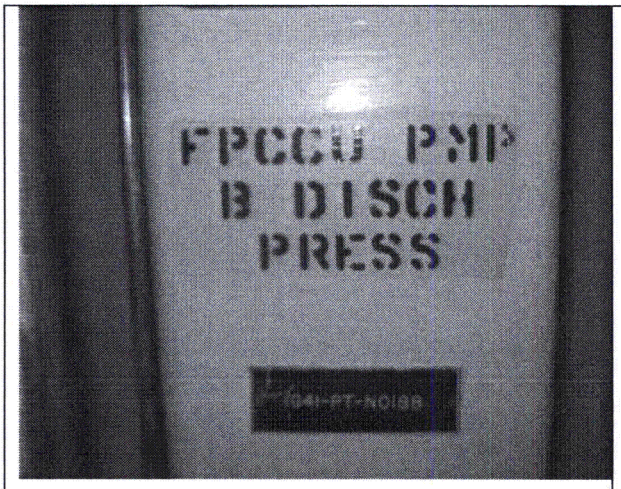
Status: Y☒ N☐ U☐

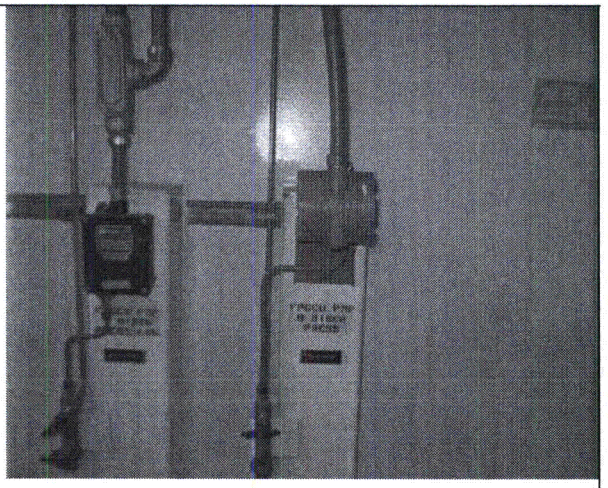
Seismic Walkdown Checklist (SWC) SWEL2- 007

Equipment ID No. *G41N018B* Equip. Class[1] *18 - Instrament Rack*

Equipment Description *FUEL POOL PUMP B DISCH PRESSURE TRANSMITTER*

Photographs





Note:	**Note:**

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL2- 008

Equipment ID No. *G41P002* Equip. Class[1] *20 - Instrumentation and Contol Panels*

Equipment Description *DIV 1 EMERGENCY SAFEGUARDSYSTEM SM CONTROL PANEL*

Location: Bldg. *AB* Floor El. *166* Room, Area *1A432*

Manufacturer, Model, Etc. (optional but recommended)

Instructions for Completing Checklist

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

Anchorage

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

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☒ N☐ U☐ N/A☐
   Panel is welded to steel plate

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☒ N☐ U☐ N/A☐
   anchorage is coated

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☐ N☐ U☐ N/A☒
   Anchored to steel

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

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☒ N☐ U☐

[1] Enter the equipment class name from EPRI 1025286 Appendix B: Classes of Equipment.

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL2- 008

Equipment ID No. *G41P002* Equip. Class[1] *20 - Instrumentation and Contol Panels*

Equipment Description *DIV 1 EMERGENCY SAFEGUARDSYSTEM SM CONTROL PANEL*

Interaction Effects

7. Are soft targets free from impact by nearby equipment or structures? Y☐ N☐ U☐ N/A☒
   Item has no soft targets

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y☒ N☐ U☐ N/A☐

9. Do attached lines have adequate flexibility to avoid damage? Y☒ N☐ U☐ N/A☐

10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y☒ N☐ U☐

Other Adverse Conditions

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

Comments

None

Evaluated by: *Chase Wharton* Date: *10/10/2012*

Fred Hopkins *10/10/2012*

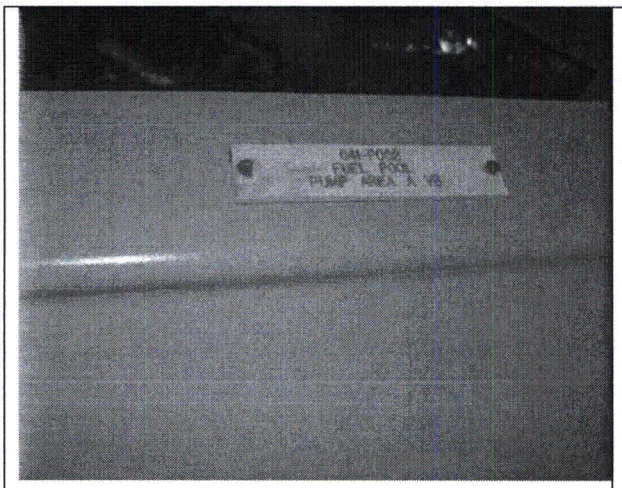
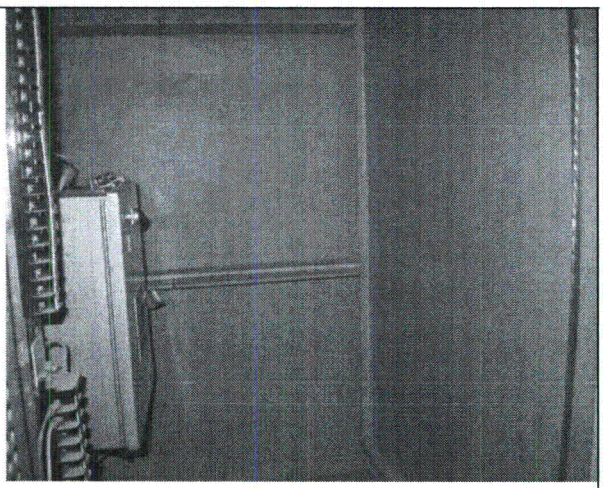
Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL2- 008

Equipment ID No. *G41P002* Equip. Class[1] *20 - Instrumentation and Contol Panels*

Equipment Description *DIV 1 EMERGENCY SAFEGUARDSYSTEM SM CONTROL PANEL*

Photographs

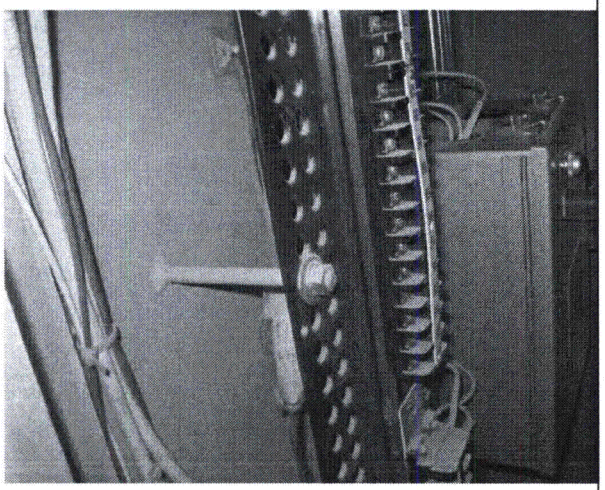
	
Note:	**Note:**

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL2- 008

Equipment ID No. *G41P002* Equip. Class[1] *20 - Instrumentation and Contol Panels*

Equipment Description *DIV 1 EMERGENCY SAFEGUARDSYSTEM SM CONTROL PANEL*



Note:

Note:

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL2- 009

Equipment ID No. *G41A001* Equip. Class[1] *21 - Tanks and Heat Exchangers*

Equipment Description *Fuel Pool Drain Tank*

Location: Bldg. *AB* Floor El. *191* Room, Area *1A537*

Manufacturer, Model, Etc. (optional but recommended) *Buffalo Tank*

Instructions for Completing Checklist

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

Anchorage

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

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☒ N☐ U☐ N/A☐
   Fuel pool drain tank is support by two heavy duty saddles. Each saddle is anchor to the floor using (4) 1 1/8" dia. anchor bolts. See photos.
   No bent, broken, missing or loose hardware found.

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☒ N☐ U☐ N/A☐
   Floor is covered with epoxy coating; no visual indication of corrosion found

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☒ N☐ U☐ N/A☐
   Floor is covered with epoxy coating; no visual indication of concrete crack found

5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) Y☒ N☐ U☐ N/A☐
   Anchorage was checked against vendor drawings L-3264A, SK-F2-2009NC-4A, & SK-F2-2009NC-5A in QP 62.00, and the configuration shown on the drawings matched the field condition.

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☒ N☐ U☐

[1] Enter the equipment class name from EPRI 1025286 Appendix B: Classes of Equipment.

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL2- 009

Equipment ID No. *G41A001* Equip. Class[1] *21 - Tanks and Heat Exchangers*

Equipment Description *Fuel Pool Drain Tank*

Interaction Effects

7. Are soft targets free from impact by nearby equipment or structures? Y☐ N☐ U☐ N/A☒
   This equipment is not a soft target.

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y☒ N☐ U☐ N/A☐
   All overhead items (piping/pipe supports) are rigidly supported.

9. Do attached lines have adequate flexibility to avoid damage? Y☒ N☐ U☐ N/A☐
   Piping attached to the tank have adequate flexibility.

10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y☒ N☐ U☐

Other Adverse Conditions

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

Comments

None

Evaluated by: *Kyong S. (Jason) Pak* Kyong S. Pak Date: *10/3/2012*

Tori Robinson Tori Robinson *10/3/2012*

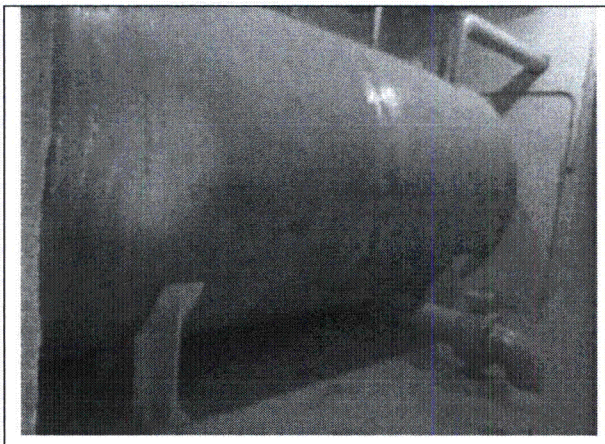
Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL2- 009

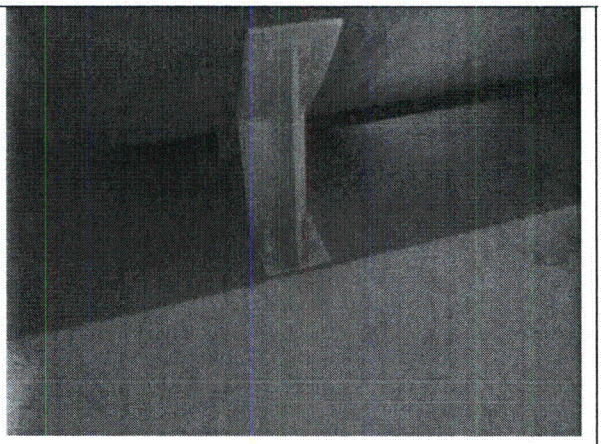
Equipment ID No. *G41A001* Equip. Class[1] *21 - Tanks and Heat Exchangers*

Equipment Description *Fuel Pool Drain Tank*

Photographs



Note: *Fuel Pool Drain Tank*



Note: *Tank support saddle*