Seismic Walkdown Checklist (SWC)

Equipment ID No. *R30P320* Equip. Class[1] *20, Instrumentation and Control Panel*

Equipment Description *EDG 12 – Engine Gauge Panel*

Interaction Effects

7. Are soft targets free from impact by nearby equipment or structures? Y☒ N☐ U☐ N/A☐
   All soft targets adjacent to this panel are robustly supported, and will not impact the panel

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☐
   There are no ceiling tiles or block walls in the area. All light fittings hung from rigid conduit and have a redundant wire cable. During a seismic event the lights will not impact equipment

9. Do attached lines have adequate flexibility to avoid damage? Y☒ N☐ U☐ N/A☐
   Attached lines are flexible, and are 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☐

Seismic Walkdown Checklist (SWC)

Equipment ID No. R30P320 Equip. Class[1] 20 - I&C PANEL

Equipment Description EDG 12 - ENGINE GAUGE PANEL.

Comments (Additional pages may be added as necessary)

Note: Per NEI Focus Group response to Frequently Asked Questions (FAQ) dated September 18, 2012, a supplemental seismic walkdown was conducted on October 8, 2012 to open the panel and visually inspect inside. The supplemental SWC follows this SWC.

JAM 10/22/12

☒ *Seismic Engineer Walkdown PSE-53Qualified*

Evaluator #1: David G Dickinson Date: 8/21/2012

☒ *Seismic Engineer Walkdown PSE-53Qualified*

Evaluator #2: Joseph M Palka Date: 08/21/2012

Seismic Walkdown Pictures

Equipment ID No. *R30P320* Equipment Class: *20, Instrumentation and Control Panel*

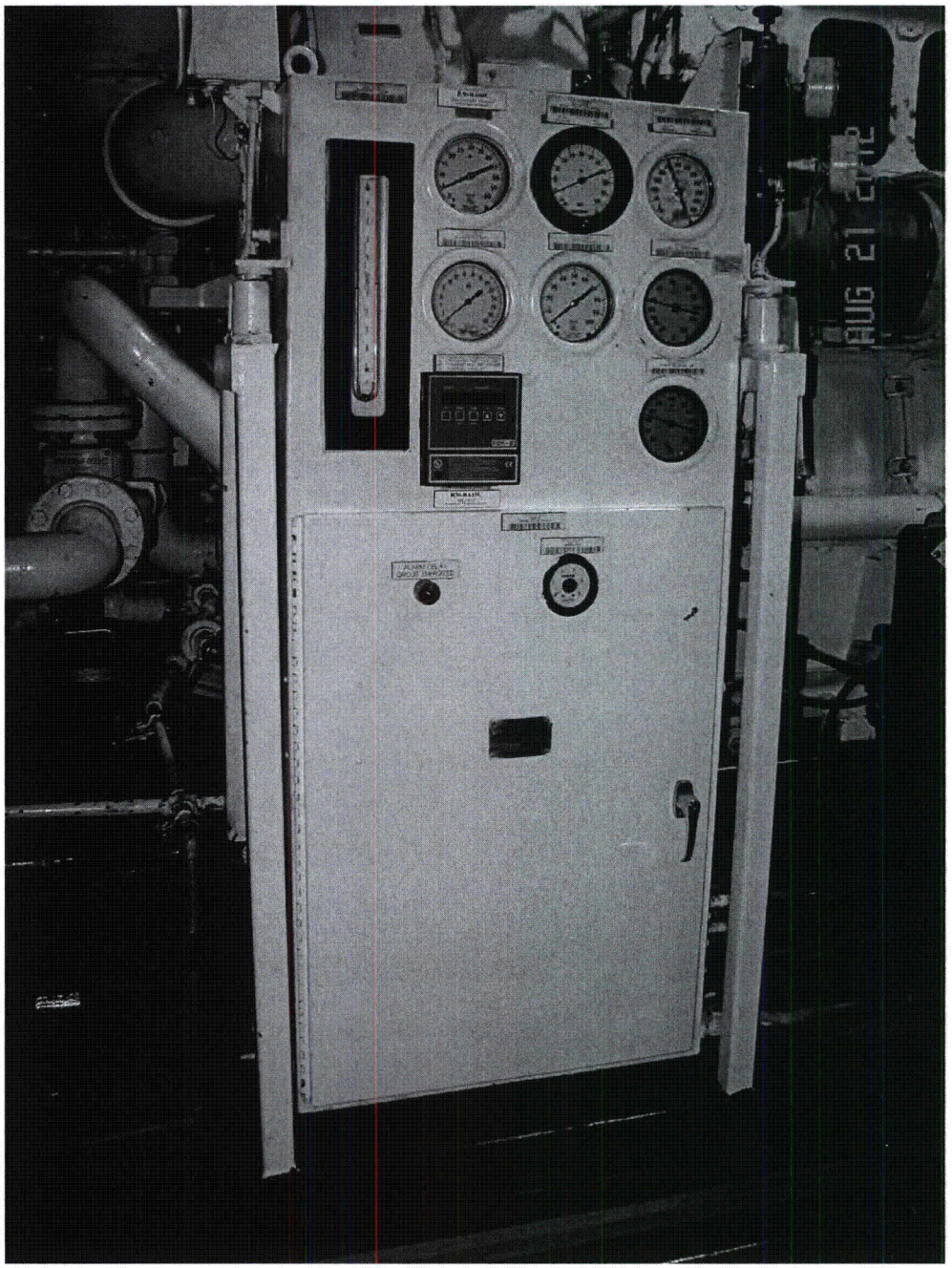
Equipment Description *EDG 12 – Engine Gauge Panel*

(DSC00095)

Seismic Walkdown Pictures

Equipment ID No. *R30P320* Equipment Class: *20, Instrumentation and Control Panel*

Equipment Description *EDG 12 – Engine Gauge Panel*

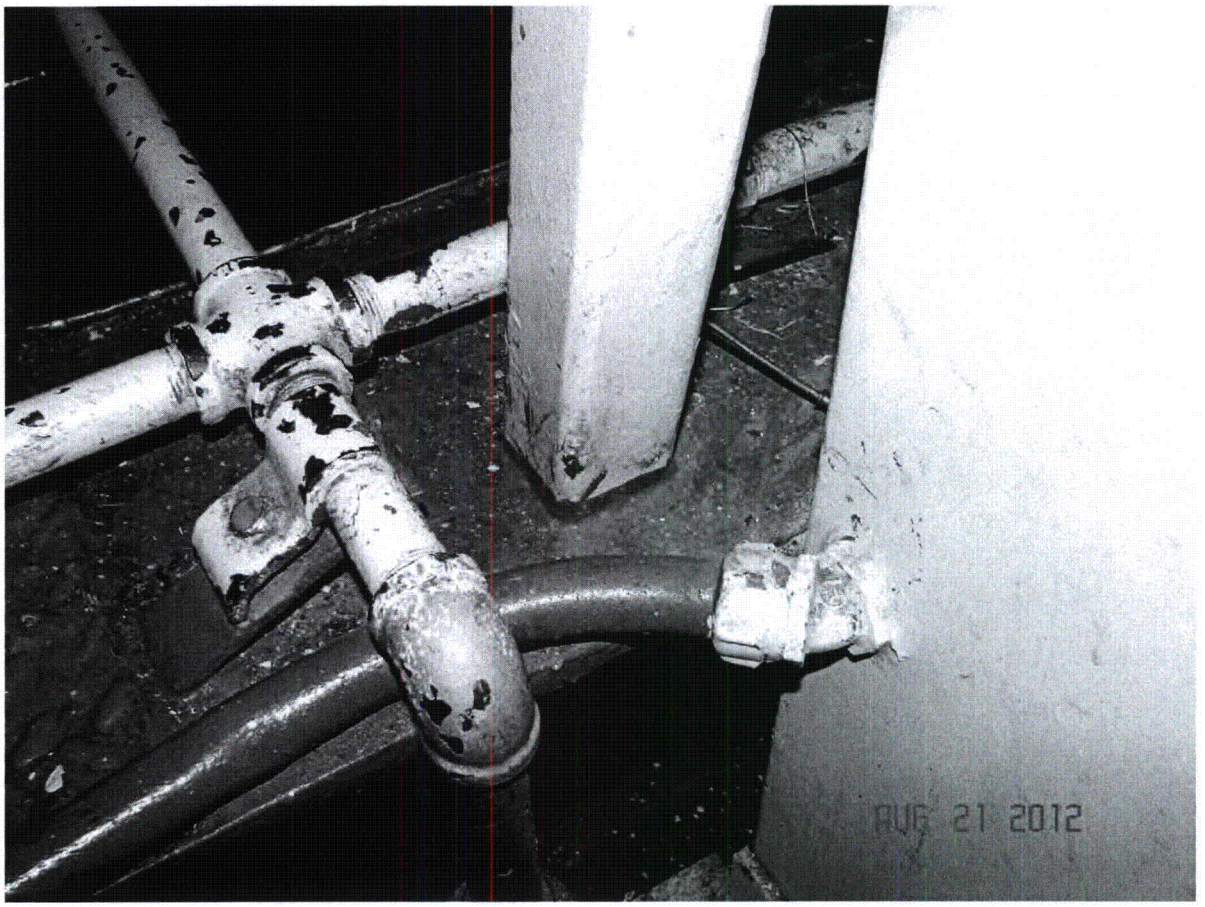


(DSC00096)

Seismic Walkdown Pictures

Equipment ID No. *R30P320* Equipment Class: *20, Instrumentation and Control Panel*

Equipment Description *EDG 12 – Engine Gauge Panel*

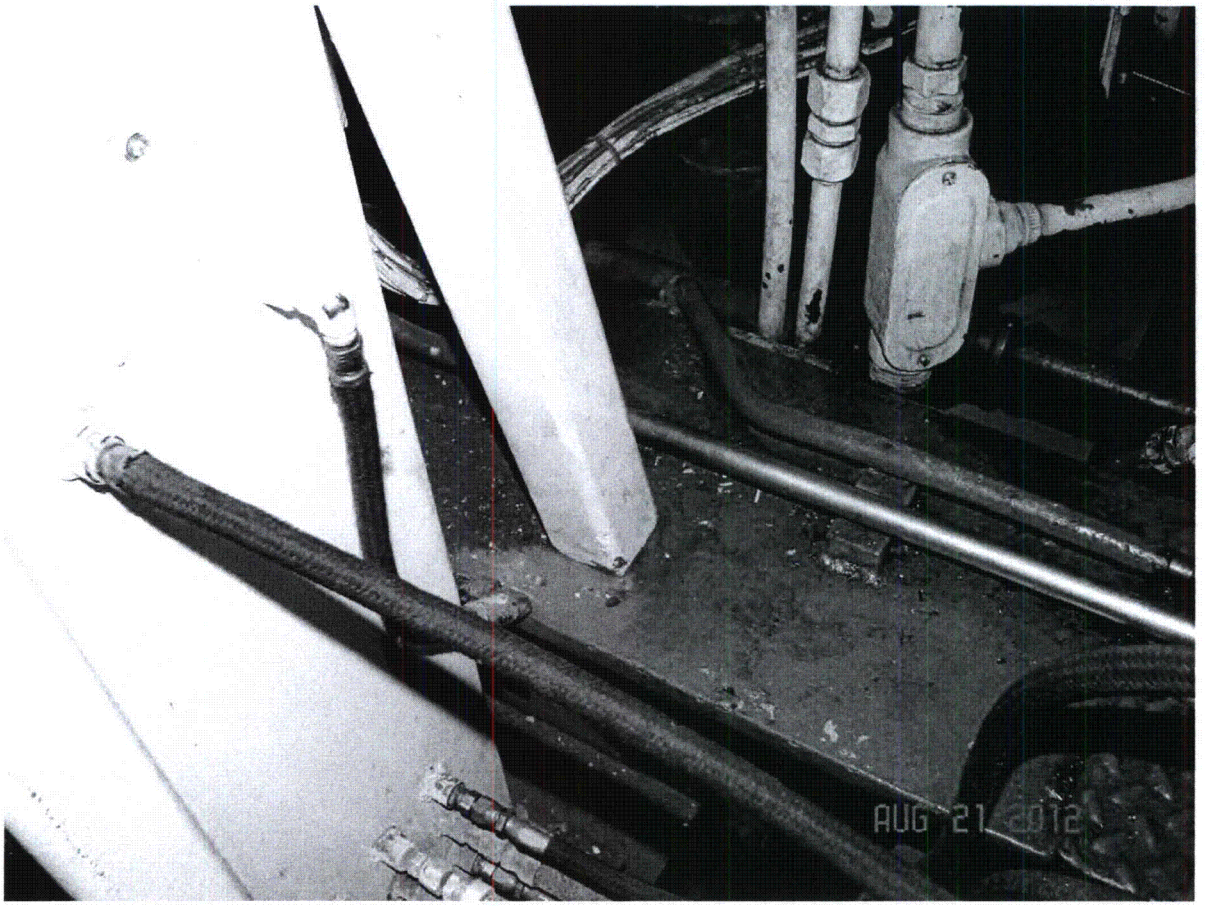


(DSC00098)

Seismic Walkdown Pictures

Equipment ID No. *R30P320* Equipment Class: *20, Instrumentation and Control Panel*

Equipment Description *EDG 12 – Engine Gauge Panel*

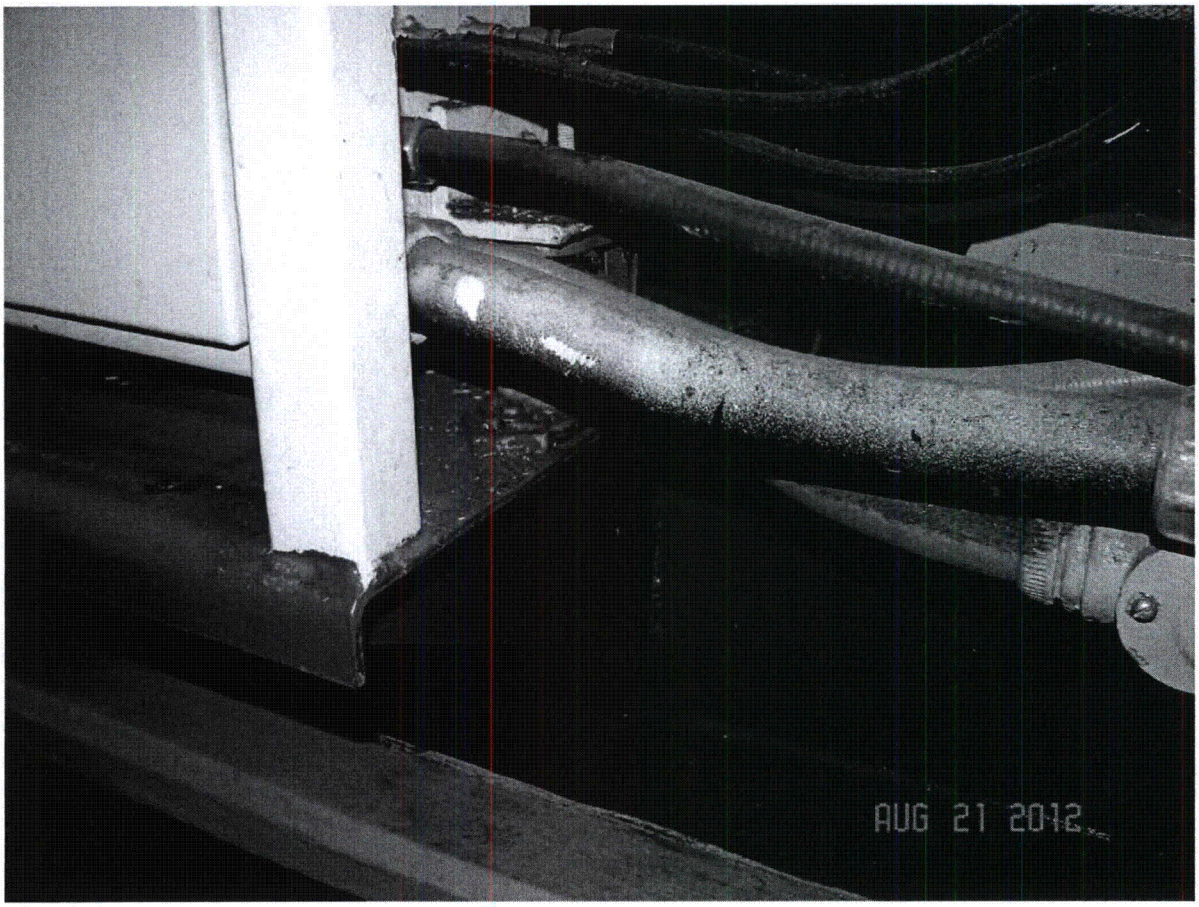


(DSC00102)

Seismic Walkdown Pictures

Equipment ID No. *R30P320* Equipment Class: *20, Instrumentation and Control Panel*

Equipment Description *EDG 12 – Engine Gauge Panel*



(DSC00104)

Seismic Walkdown Checklist (SWC)

[Note: This Walkdown's scope was limited to cabinet internals per 9/18/12 NEI Focus Group response to Frequently Asked Questions.]

Equipment ID No. R30P320 Equip. Class[1] *20, Instrumentation and Control Panel*

Equipment Description *EDG 12 – Engine Gauge Panel*

Location: Bldg. *RHR* Floor El. *590'-0"* Room, Area *EDG 12 Room, Col. E-5 to E-6*

Manufacturer, Model, Etc. (optional but recommended) *Colt Industries, Model N/A*

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☐
   Not applicable. See August 21, 2012, Seismic Walkdown Checklist and comment on page 3 on this checklist dated October 8, 2012.

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☐ N☐ U☐ N/A☒
   See August 21, 2012, Seismic Walkdown Checklist and comment on page 3 on this checklist dated October 8, 2012.

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☐ N☐ U☐ N/A☒
   See response to Question 2, above.

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☐ N☐ U☐ N/A☒
   See response to Question 2, above.

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☒
   See response to Question 2, above.

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☐ N☐ U☐
   Not applicable. See August 21, 2012, Seismic Walkdown Checklist and comment on page 3 on this checklist dated October 8, 2012.

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

Seismic Walkdown Checklist (SWC)

[Note: This Walkdown's scope was limited to cabinet internals per 9/18/12 NEI Focus Group response to Frequently Asked Questions.]

Equipment ID No. R30P320 Equip. Class[1] *20, Instrumentation and Control Panel*

Equipment Description *EDG 12 – Engine Gauge Panel*

Interaction Effects

7. Are soft targets free from impact by nearby equipment or structures? Y☐ N☐ U☐ N/A☒
   See August 21, 2012, Seismic Walkdown Checklist and comment on page 3 on this checklist dated October 8, 2012.

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☒
   See response to Question 7, above.

9. Do attached lines have adequate flexibility to avoid damage? Y☐ N☐ U☐ N/A☒
   See response to Question 7, above.

10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y☐ N☐ U☐
    Not applicable. See August 21, 2012, Seismic Walkdown Checklist and comment on page 3 on this checklist dated October 8, 2012.

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☐
    The door on the instrument panel was opened to permit evaluating the adequacy of fasteners securing components inside (see Photo 1). None of the components weighed more than ten pounds (see Photos 2-4). Verified adequacy of seismic clearance between bolt on back mounting plate and I&C tubing penetrating upper right corner of panel (see Photo 5). In lower right corner, determined stains at bottom of panel were primarily due to a thin film of dirt and not a sign of serious corrosion (see Photo 6). No adverse conditions were identified.

Seismic Walkdown Checklist (SWC)

[Note: This Walkdown's scope was limited to cabinet internals per 9/18/12 NEI Focus Group response to Frequently Asked Questions.]

Equipment ID No. R30P320 Equip. Class[1] *20, Instrumentation and Control Panel*

Equipment Description *EDG 12 – Engine Gauge Panel*

Comments (Additional pages may be added as necessary)

Anchorage and Interaction Effects were evaluated during an August Walkdown and results reported in a Seismic Walkdown Checklist dated August 21, 2012. However, during the Walkdown, the door on the instrument panel was not opened to afford Seismic Walkdown Engineers an opportunity to inspect anchorage on components inside the panel. A September 18, 2012, NEI Focus Group response to Frequently Asked Questions about opening cabinet doors led to consider increasing the scope of the August 21 Walkdown. Therefore, the scope of this Walkdown included unlocking and opening the panel door and evaluating fasteners securing components mounted inside.

☒ *Seismic Engineer Walkdown PSE-53Qualified*

Evaluator #1 : _____ Date: 10/08/12

☒ *Seismic Engineer Walkdown PSE-53Qualified*

Evaluator #2 : Mich P. Dasso Date: 10/08/12

Seismic Walkdown Pictures

Equipment ID No. *R30P320* Equipment Class: *20, Instrumentation and Control*

Equipment Description *EDG 12 – Engine Gauge Panel*

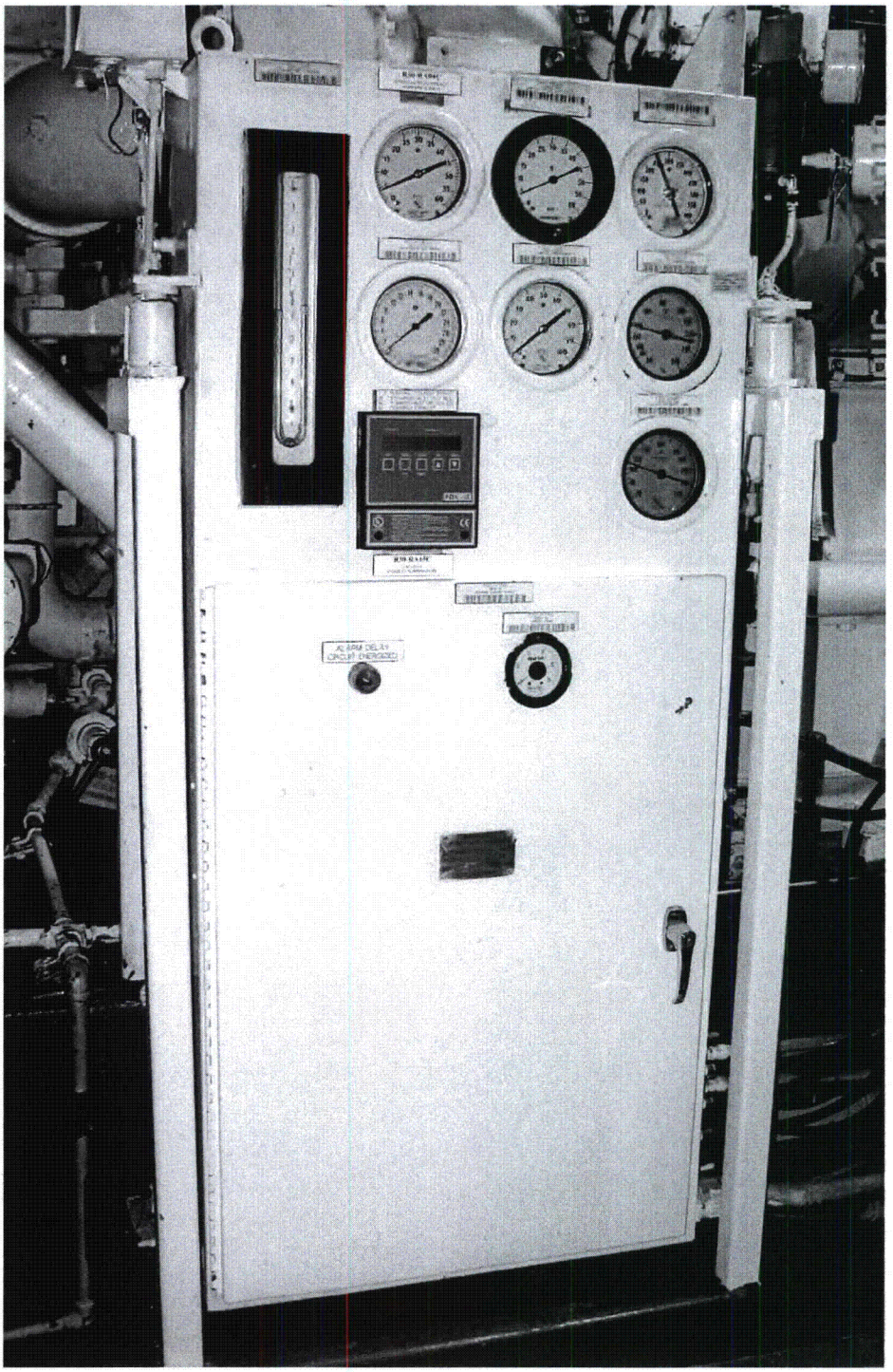


Photo 1, *Outside Face of Panel with Door Closed*

Seismic Walkdown Pictures

Equipment ID No. *R30P320* Equipment Class: *20, Instrumentation and Control*

Equipment Description *EDG 12 – Engine Gauge Panel*

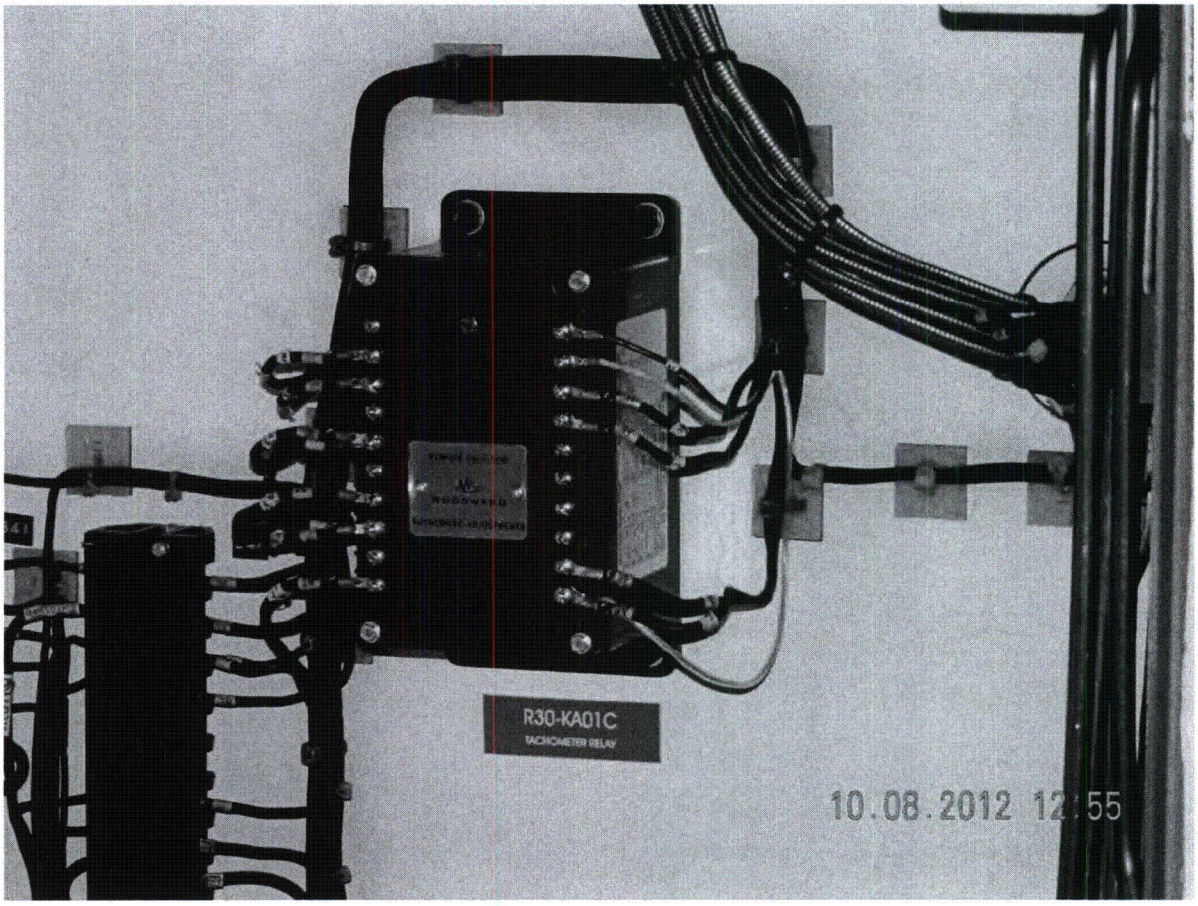


Photo 2, *Components Mounted Inside Near Top Center of Panel*

Seismic Walkdown Pictures

Equipment ID No. *R30P320* Equipment Class: *20, Instrumentation and Control*

Equipment Description *EDG 12 – Engine Gauge Panel*

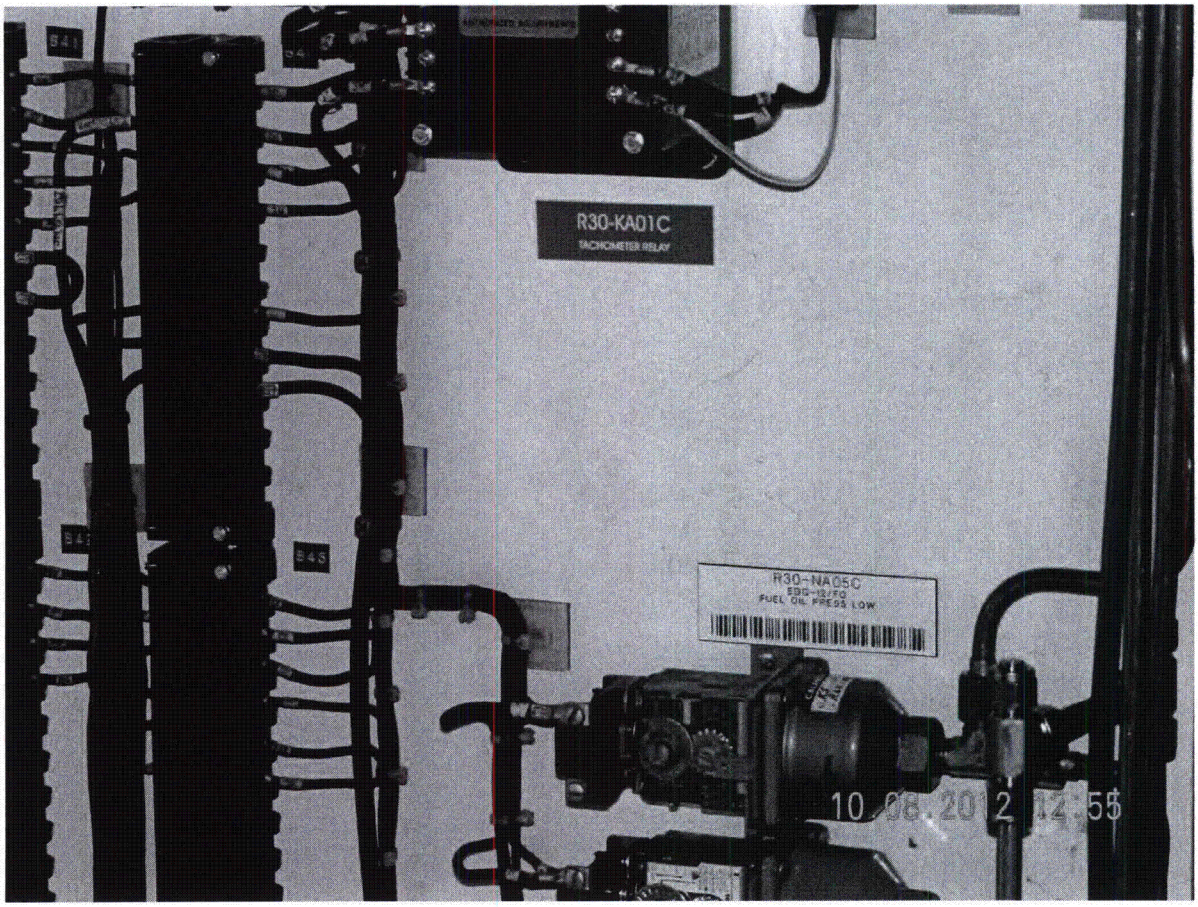


Photo 3, *Components Mounted Inside Near Center of Panel*

Seismic Walkdown Pictures

Equipment ID No. *R30P320* Equipment Class: *20, Instrumentation and Control*

Equipment Description *EDG 12 – Engine Gauge Panel*

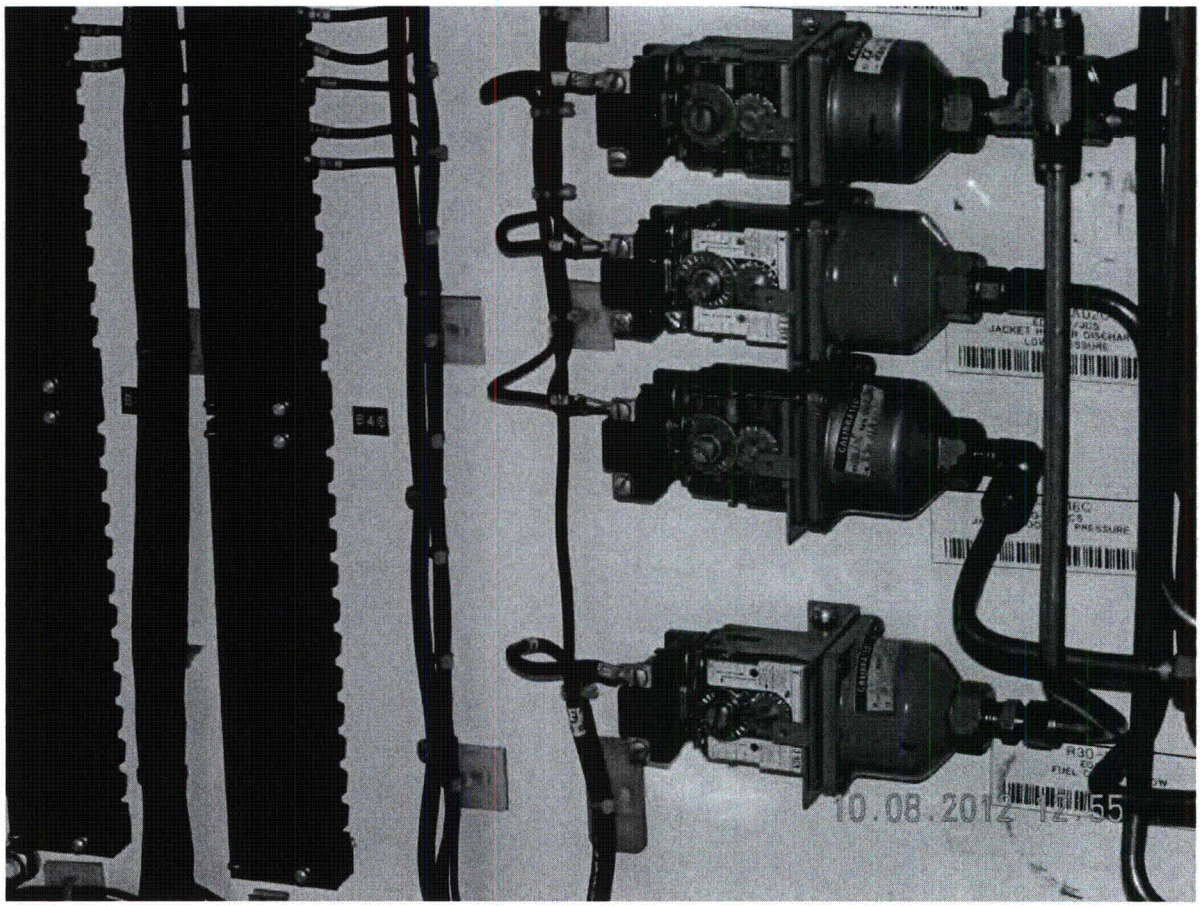


Photo 4, *Components Mounted Inside Near Bottom Center of Panel*

Seismic Walkdown Pictures

Equipment ID No. *R30P320* Equipment Class: *20, Instrumentation and Control*

Equipment Description *EDG 12 – Engine Gauge Panel*

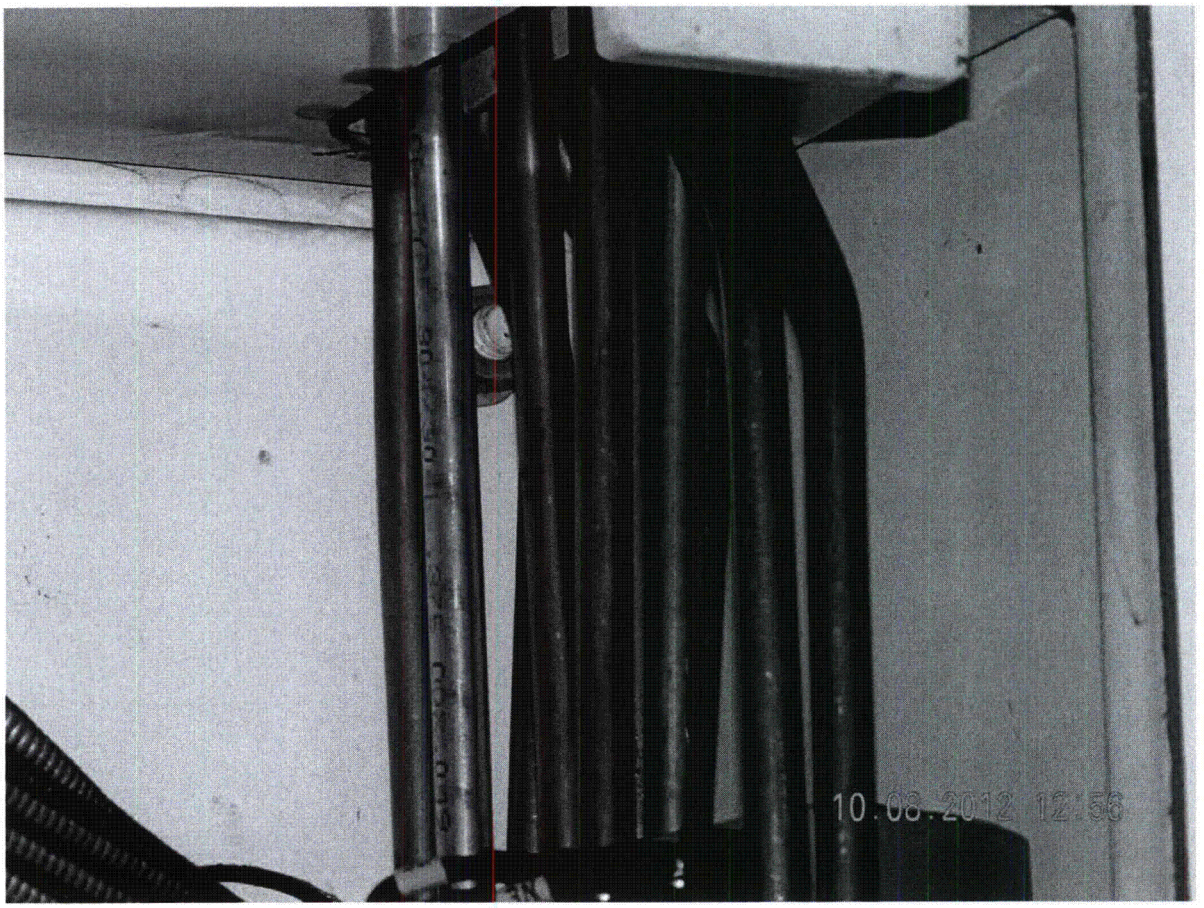


Photo 5, *Mounting Plate Bolt and I&C Tubing Passing Thru Upper Right Corner of Panel*

Seismic Walkdown Pictures

Equipment ID No. *R30P320* Equipment Class: *20, Instrumentation and Control*

Equipment Description *EDG 12 – Engine Gauge Panel*

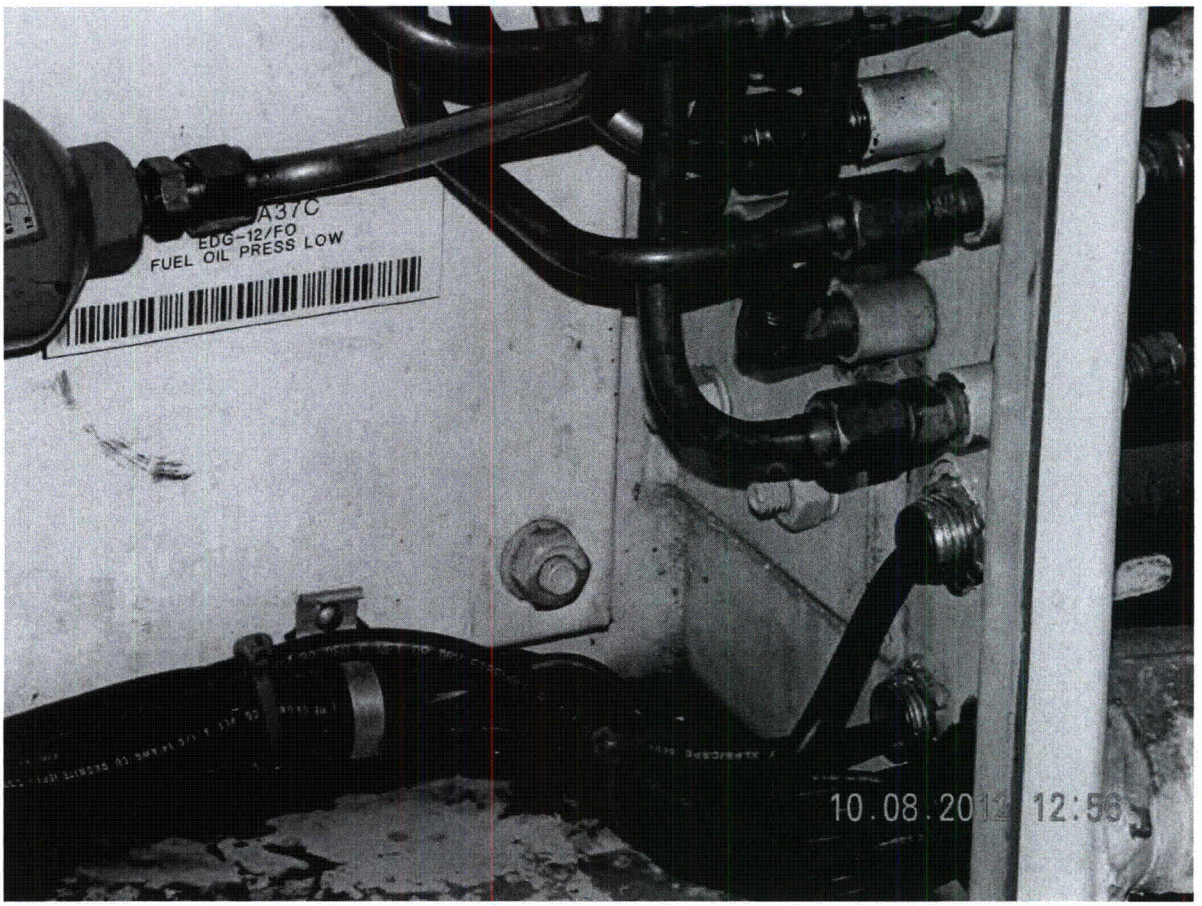


Photo 6, *Mounting Plate Bolt and Elect Cable and I&C Tubing in Lower Right Corner of Panel*

NJPR-12-0043

Status: (Y) N U

Seismic Walkdown Checklist (SWC)

Equipment ID No. *R30P343D* Equip. Class[1] *20-Instrumentation & Control Panels*

Equipment Description *EDG #14 Exciter-Regulator Panel*

Location: Bldg. *RHR* Floor El. *590'-00"* Room, Area *EDG14, Col.F-7*

Manufacturer, Model, Etc. (optional but recommended) *N/A*

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☐
   Anchorage was viewed from outside the panel and was in good condition. (See Picture 4.)

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

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

5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which anchorage configuration verification is required.) Y☐ N☐ U☐ N/A☒
   *All anchors observed to be in the proper layout and conform to Calc. DC-6037 VOL I, Rev. C. One anchor was not immediately visible, but it was confirmed to be in place during a follow-up inspection. * See Comments and Picture 6.* DC-6037 VOL.I, Rev.C HAS NO APPLICABLE POSTINGS. DSK 10/11/12

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 Appendix B: Classes of Equipment MPS 10/4/12

Seismic Walkdown Checklist (SWC)

Equipment ID No. *R30P343D* Equip. Class[1] *20-Instrumentation & Control Panels*

Equipment Description *EDG #14 Exciter-Regulator Panel*

Interaction Effects

7. Are soft targets free from impact by nearby equipment or structures? Y☒ N☐ U☐ N/A☐
   The panel has no soft targets and there is no danger of impact from nearby equipment. (See Pictures 1 & 2)

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☐
   There is no overhead equipment. (See Picture 5)

9. Do attached lines have adequate flexibility to avoid damage? Y☒ N☐ U☐ N/A☐
   Flexible lines are used near the asset connection and have adequate flexibility to prevent damage. (See Picture 5)

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☐
    During the walkdown it was noticed that 4 screws were missing from the panel's interior protective grate. The existing condition was evaluated by the SWE's by calculation and determination acceptable during a seismic event. See CARD 12-27360 for resolution.
    (SEE PICTURE 3) ~ DJK 10/11/12

MPS 10/4/12

Seismic Walkdown Checklist (SWC)

Equipment ID No. P30P343D Equip. Class[1] 20 - Instramentation & Control Panels

Equipment Description EDG #14 Exciter - Regulator Panel

Comments (Additional pages may be added as necessary)

*In order to view the anchor that was not initially visible, it was necessary to perform a follow-up inspection on 8/31/12. This required opening of the back panel door and entry by a MMA18 (Electrical Hazard Protection) qualified technician past the plane in a protective suit to take pictures of the anchor. After the pictures were taken, the technician showed them to both SWEs, and it was confirmed that the anchor is present and secure.

☒ *Seismic Engineer Walkdown PSE-53Qualified*

Evaluator #1 : Michael P. Dusso Date: 8/10/12

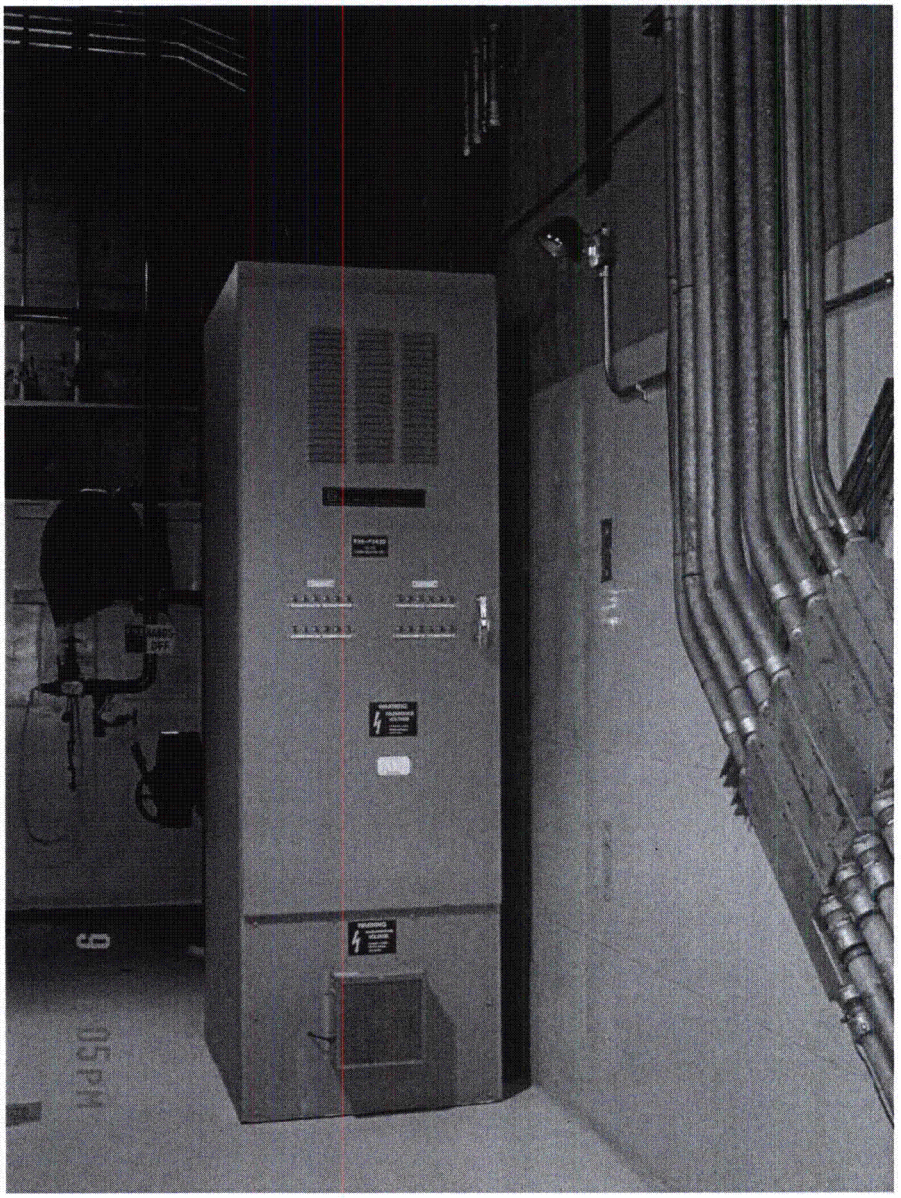
☒ *Seismic Engineer Walkdown PSE-53Qualified*

Evaluator #2 : Scott Bauer Date: 8/10/12

Seismic Walkdown Pictures

Equipment ID No. *R30P343D* Equipment Class: *20-Instrumentation & Control Panels*

Equipment Description *EDG #14 Exciter-Regulator Panel*

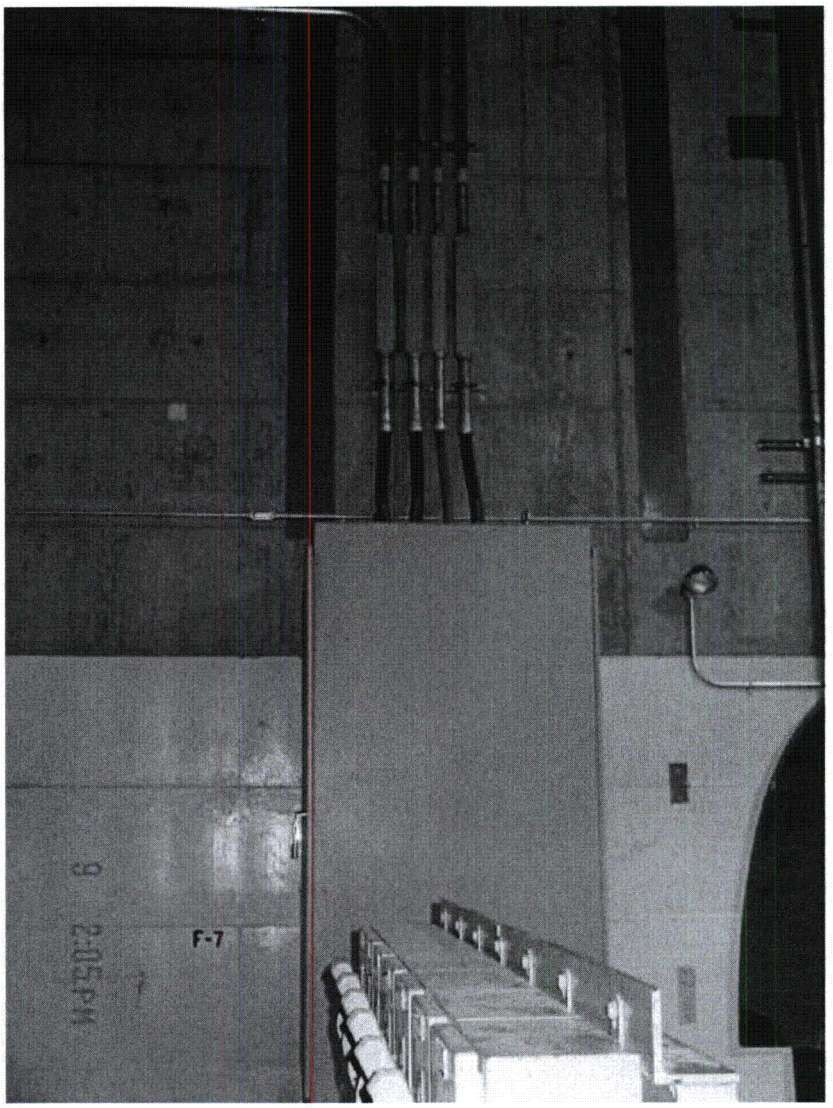


(Picture 1)

Seismic Walkdown Pictures

Equipment ID No. *R30P343D* Equipment Class: *20-Instrumentation & Control Panels*

Equipment Description *EDG #14 Exciter-Regulator Panel*

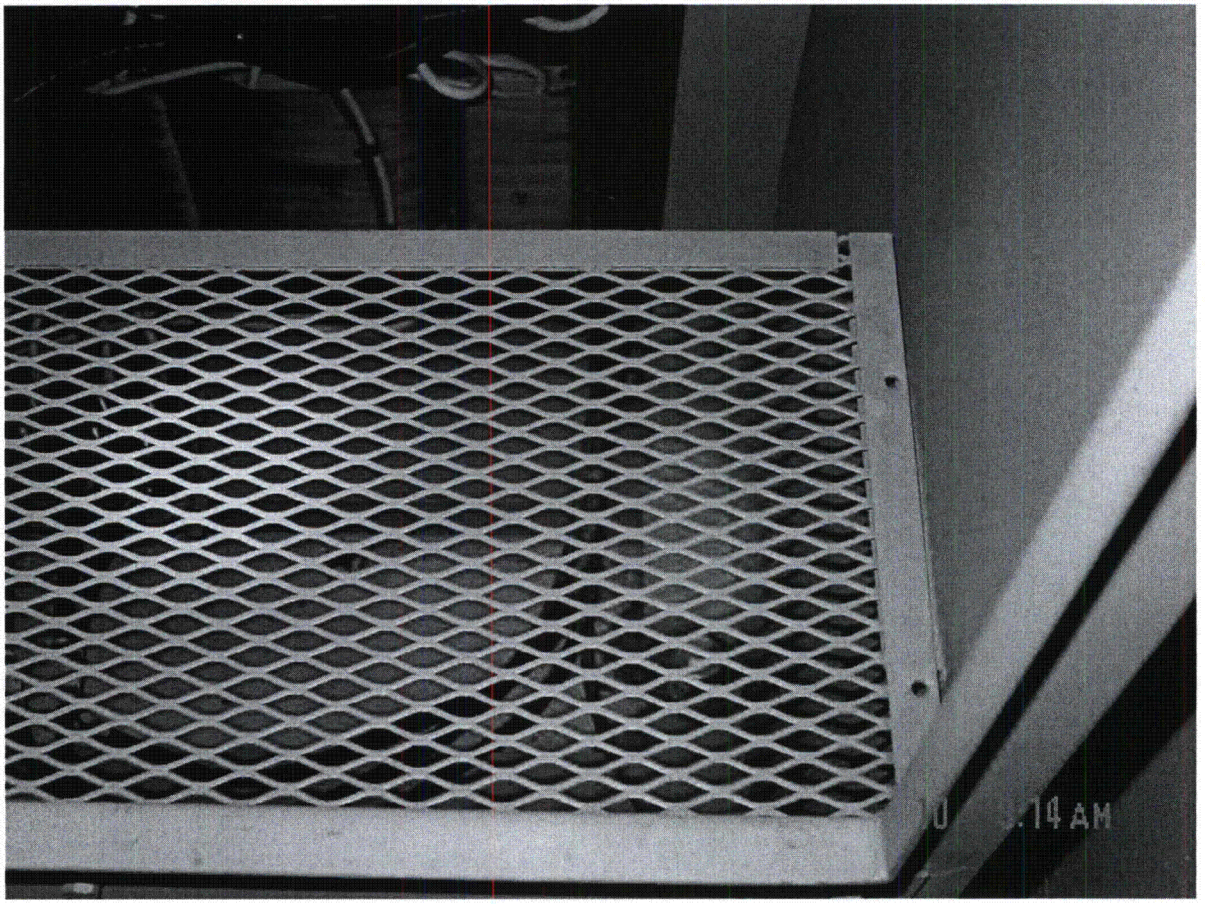


(Picture 2)

Seismic Walkdown Pictures

Equipment ID No. *R30P343D* Equipment Class: *20-Instrumentation & Control Panels*

Equipment Description *EDG #14 Exciter-Regulator Panel*

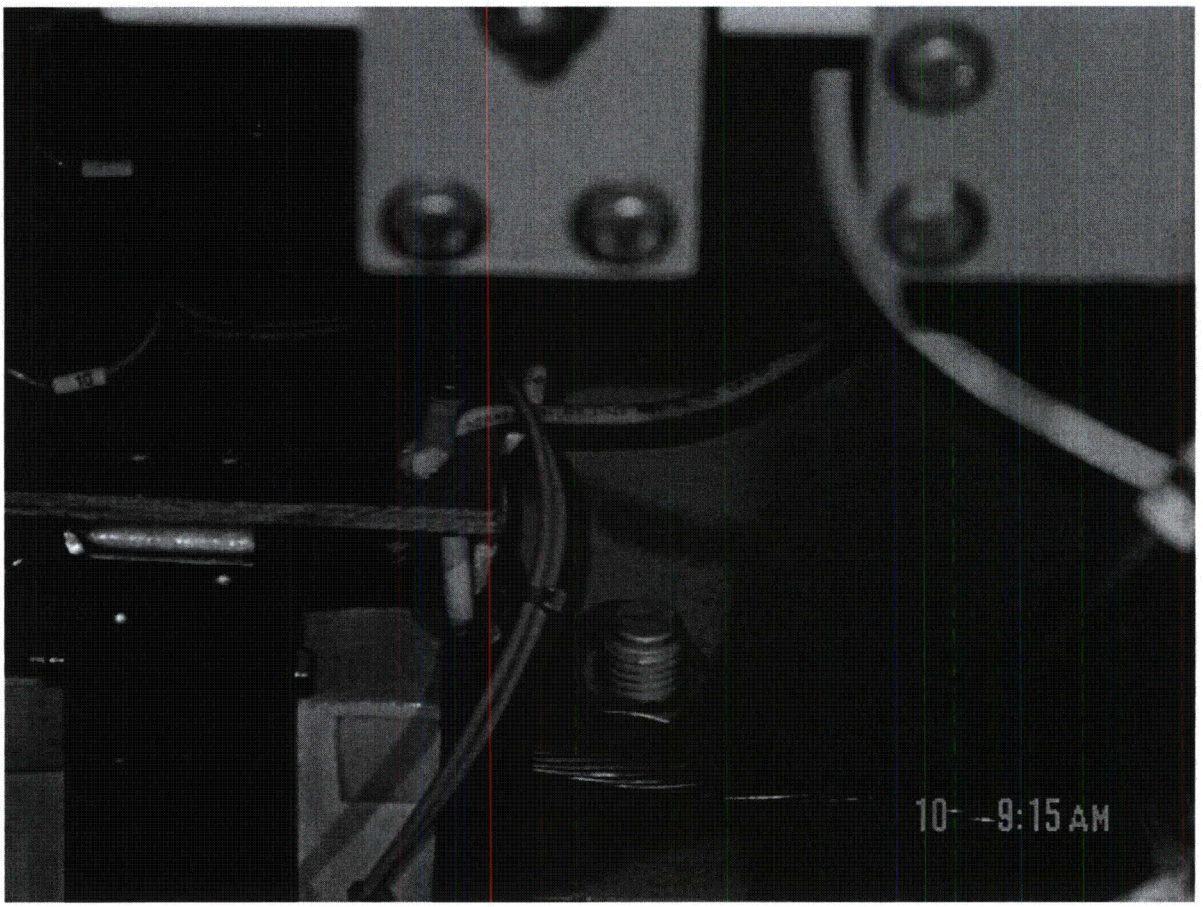


(Picture 3)

Seismic Walkdown Pictures

Equipment ID No. *R30P343D* Equipment Class: *20-Instrumentation & Control Panels*

Equipment Description *EDG #14 Exciter-Regulator Panel*

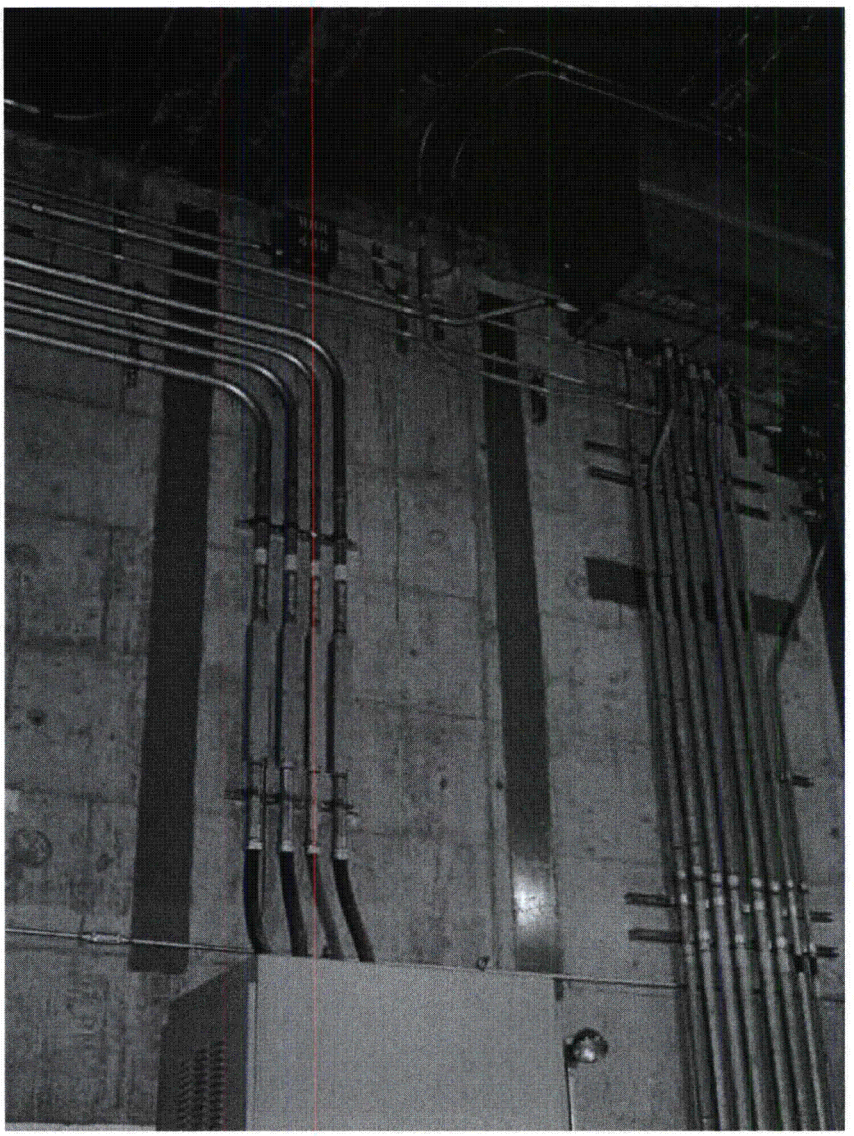


(Picture 4)

Seismic Walkdown Pictures

Equipment ID No. *R30P343D* Equipment Class: *20-Instrumentation & Control Panels*

Equipment Description *EDG #14 Exciter-Regulator Panel*

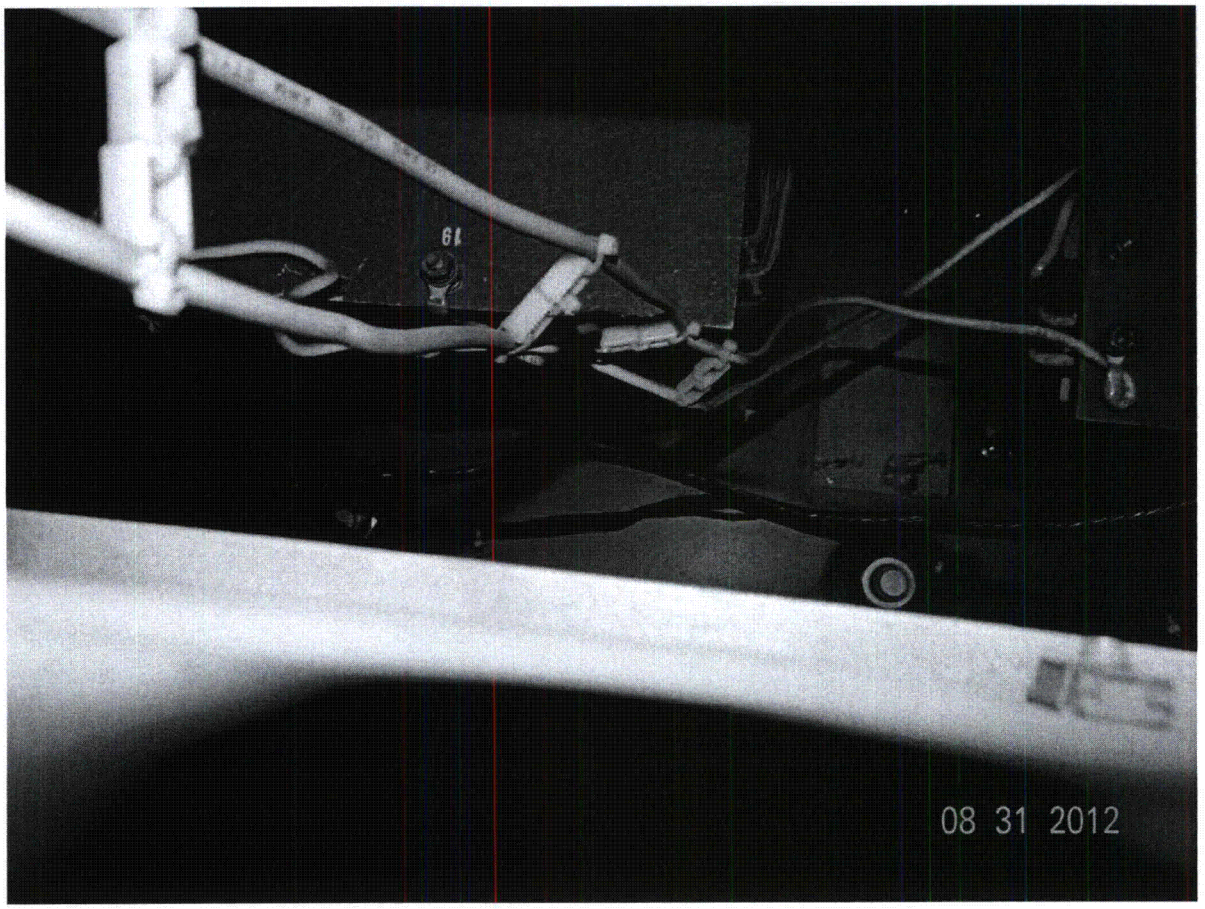


(Picture 5)

Seismic Walkdown Pictures

Equipment ID No. *R30P343D* Equipment Class: *20-Instrumentation & Control Panels*

Equipment Description *EDG #14 Exciter-Regulator Panel*



(Picture 6)

Seismic Walkdown Checklist (SWC)

Equipment ID No. R31K005 Equip. Class[1] 16, Battery Chargers and Inverters

Equipment Description *Vital Power Distribution 120 VAC DIV 2 2KVA*

Location: Bldg. *AB* Floor El. *613'-6"* Room, Area *B-15, Col. F-14*

Manufacturer, Model, Etc. (optional but recommended) *Nova Electric Mfg. Co. Model GS2K60-120X-R-XXXX*

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☐
   Equipment mounted in cabinet. Cabinet missing plug weld. Welds exterior to cabinet confirmed to be correct. No plug welds required. Ok as is. (SEE PICTURE DSCN0051) ~ DJK 10/11/12

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☒ N☐ U☐ N/A☐
   2 bolts at back of component visually confirmed.
   4 screws at front confirmed.

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☒ N☐ U☐ N/A☐
   Bolts not corroded.

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☐ N☐ U☐ N/A☒
   Equipment is mounted in a cabinet, not to concrete.
   (SEE PICTURES DSCN0055, DSCN0057) ~ DJK 10/11/12

5. Is the anchorage configuration consistent with plant documentation? Y☒ N☐ U☐ N/A☐
   (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)
   Mounting configuration is consistent with plant documentation.
   Ref. VMC1-519 & I-2040-08.** | DJK 10/11/12
   (SEE PICTURES DSCN0051, DSCN0055, DSCN0057) ~ DJK 10/11/12

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 Appendix B: Classes of Equipment

* REFERENCE DOCUMENT (LATEST REVISION) HAS No APPLICABLE POSTINGS. / DJK 10/12/12

Seismic Walkdown Checklist (SWC)

Equipment ID No. R31K005 Equip. Class[1] 16, Battery Chargers and Inverters

Equipment Description *Vital Power Distribution 120 VAC DIV 2 2KVA*

Interaction Effects

7. Are soft targets free from impact by nearby equipment or structures? Y☒ N☐ U☐ N/A☐
   None observed.

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☐
   Lights supported on chains with redundant wire cable.

9. Do attached lines have adequate flexibility to avoid damage? Y☒ N☐ U☐ N/A☐
   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☐
    No other seismic conditions identified.

JML

NJPR-12-0043

Status: (Y) N U

Seismic Walkdown Checklist (SWC)

Equipment ID No. R31K005 Equip. Class[1] 16-BATTERY CHARGERS & INVERTERS

Equipment Description VITAL POWER DIST. 120VAC DIV 2 2KVA

Comments (Additional pages may be added as necessary)

☒ *Seismic Engineer Walkdown PSE-53Qualified*

Evaluator #1 : David C Pickens Date: 6th August 2012

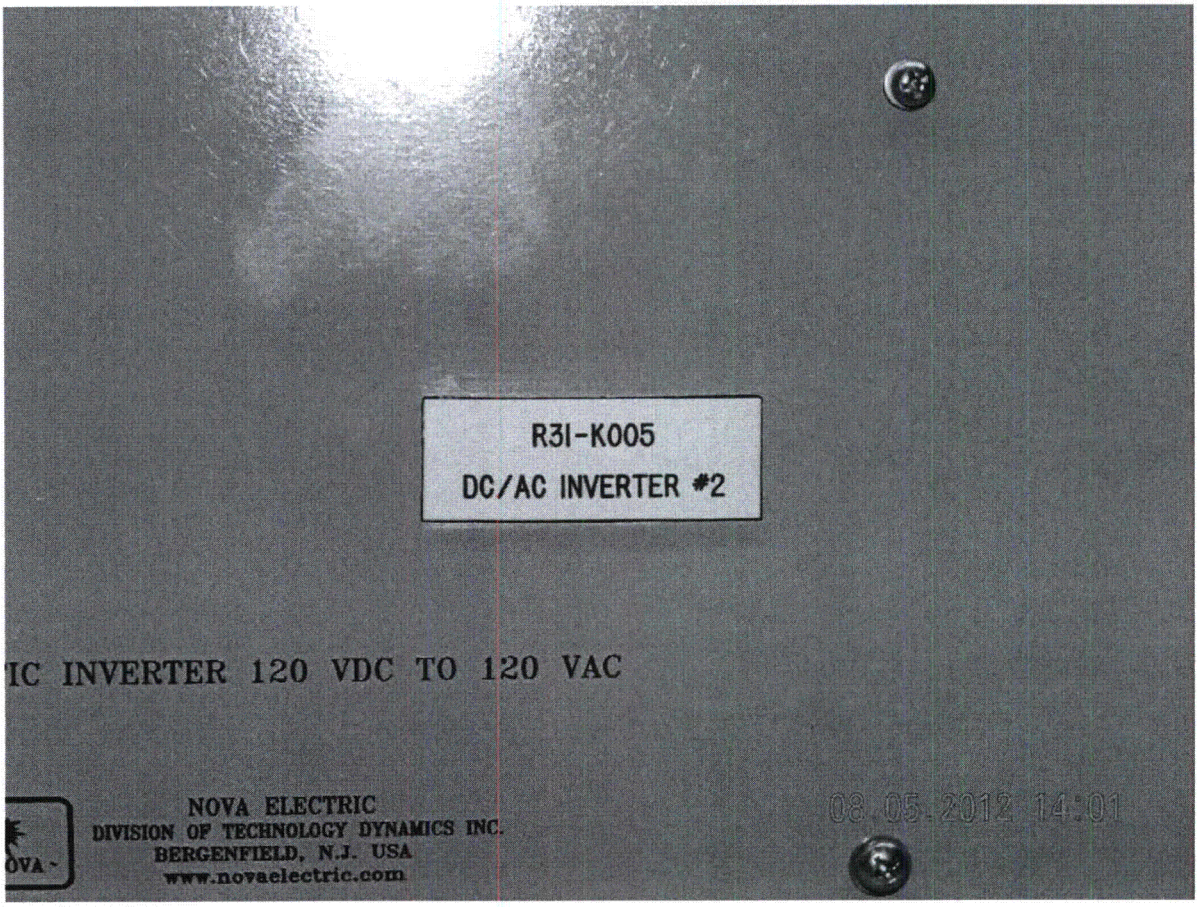
☒ *Seismic Engineer Walkdown PSE-53Qualified*

Evaluator #2 : Joseph M LaVere Date: 08.06.2012

Seismic Walkdown Pictures

Equipment ID No. *R31K005* Equipment Class: *16, Battery Changers & Inverters*

Equipment Description *Vital Power Distribution 120 VAC DIV 2, 2KVA*



(DSCN0050)

Seismic Walkdown Pictures

Equipment ID No. *R31K005* Equipment Class: *16, Battery Changers & Inverters*

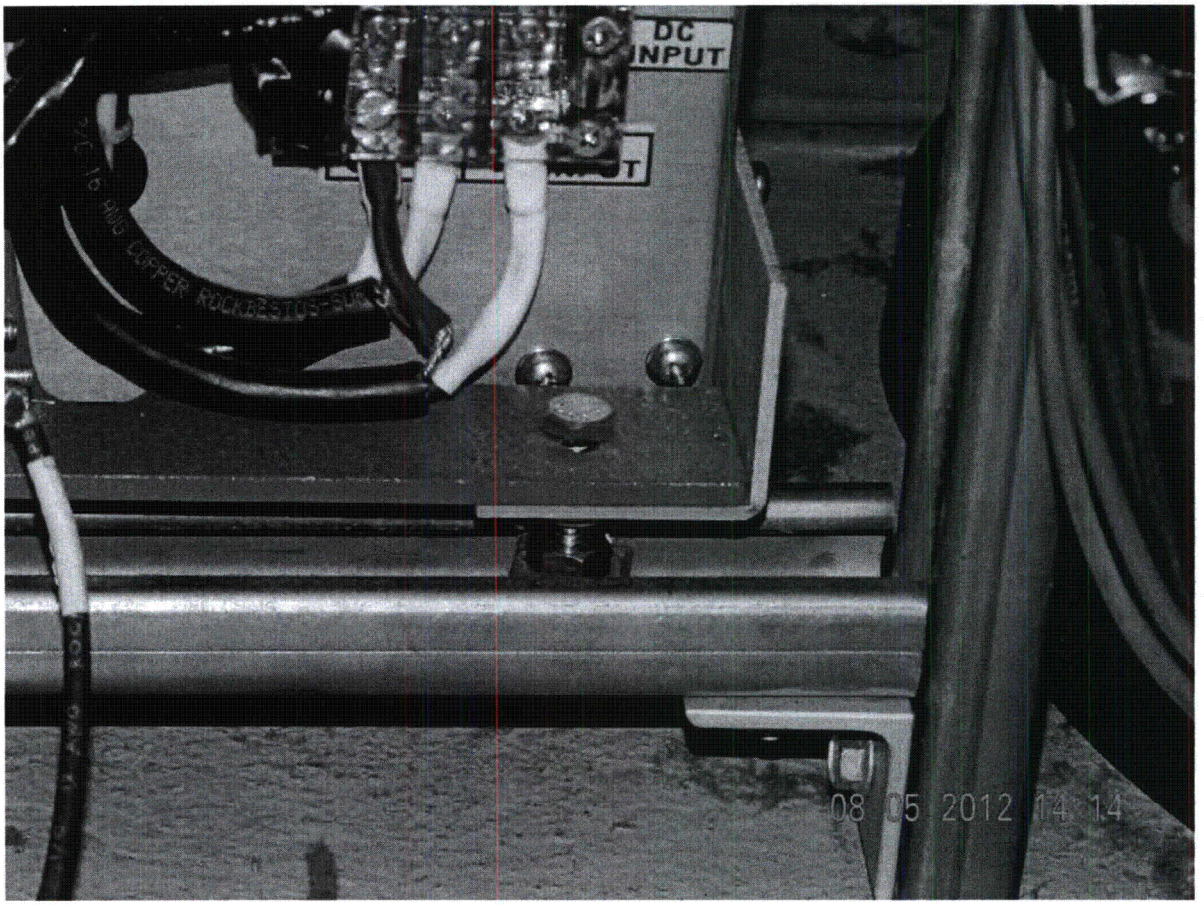
Equipment Description *Vital Power Distribution 120 VAC DIV 2, 2KVA*

(DSCN0051)

Seismic Walkdown Pictures

Equipment ID No. *R31K005* Equipment Class: *16, Battery Changers & Inverters*

Equipment Description *Vital Power Distribution 120 VAC DIV 2, 2KVA*

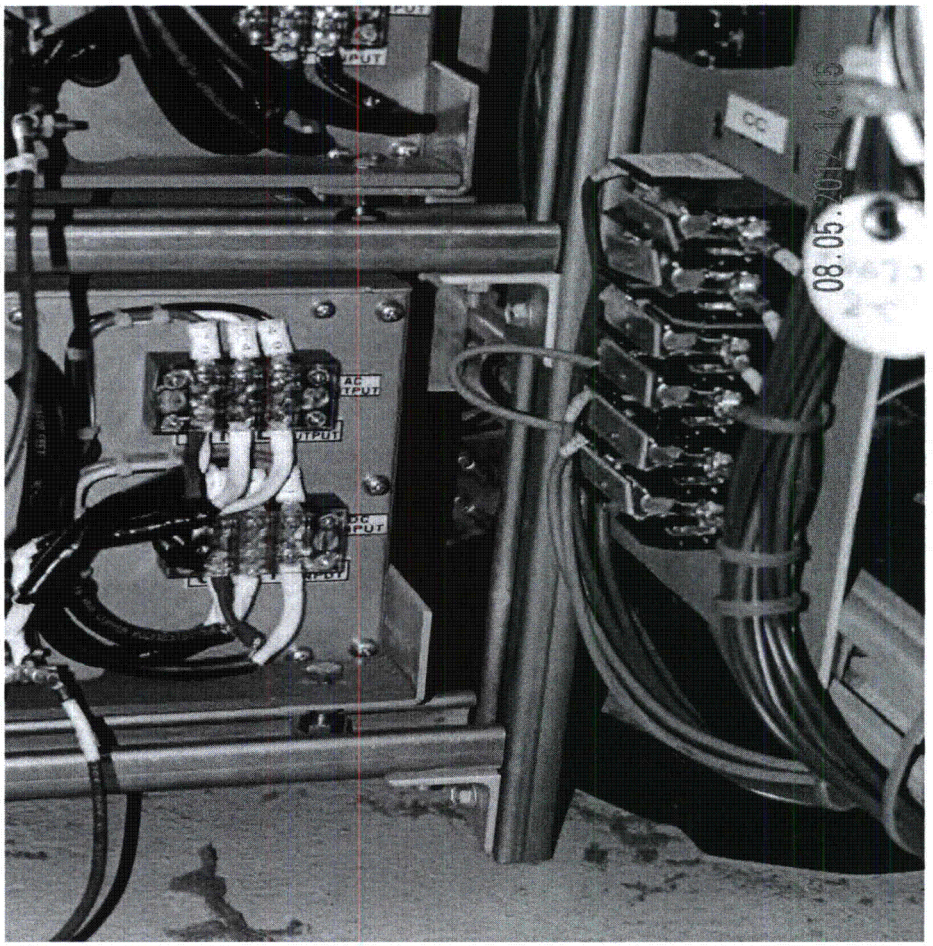


(DSCN0055)

Seismic Walkdown Pictures

Equipment ID No. *R31K005* Equipment Class: *16, Battery Changers & Inverters*

Equipment Description *Vital Power Distribution 120 VAC DIV 2, 2KVA*



(DSCN0057)

Seismic Walkdown Checklist (SWC)

Equipment ID No. *R3200S004* Equip. Class[1] *15 - Battery Racks*

Equipment Description *DC 260/130V Dual Batt (2PB)*

Location: Bldg. *AB* Floor El. *643'-6"* Room, Area *Battery Room(B-22W), Col.F-12*

Manufacturer, Model, Etc. (optional but recommended) *C&D Battery Co. Model LCR-21*

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☐
   All anchors visible.
   (SEE PICTURES DSCN0119, DSCN0126, DSCN0129, DSCN0135) ~ DJK 10/11/12
2. Is the anchorage free of bent, broken, missing or loose hardware? Y☒ N☐ U☐ N/A☐
   Seven anchors flush with nut – full thread engaged
   One anchor has 1" extension – OK – ref. dwg. E-2833-10
   (SEE PICTURES DSCN0121, DSCN0126, DSCN0129, DSCN0135, DSCN0136) ~ DJK 10/11/12
3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☒ N☐ U☐ N/A☐
   No corrosion visible.
   (SEE PICTURES DSCN0119, DSCN0126, DSCN0129, DSCN0135) ~ DJK 10/11/12
4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☒ N☐ U☐ N/A☐
   No cracks in concrete.
   (SEE PICTURES DSCN0119, DSCN0126, DSCN0129, DSCN0135) ~ DJK 10/11/12
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☐
   See drawing E-6004-01, REV. Ø (NO POSTINGS) / DJK 10/12/12
   ½" bolts to embed gateway – ref. dwg. E-2833-10, REV. F (NO POSTINGS) /
   (SEE PICTURES DSCN0119, DSCN0126, DSCN0129, DSCN0135) ~ DJK 10/11/12
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 Appendix B: Classes of Equipment

JMC

Seismic Walkdown Checklist (SWC)

Equipment ID No. *R3200S004* Equip. Class[1] *15 - Battery Racks*

Equipment Description *DC 260/130V Dual Batt (2PB)*

Interaction Effects

7. Are soft targets free from impact by nearby equipment or structures? Y☒ N☐ U☐ N/A☐
   Area is free of 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☐
   Blue cabinet anchored to the wall.

9. Do attached lines have adequate flexibility to avoid damage? Y☒ N☐ U☐ N/A☐
   Attached cables 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☐
    Foam spacers have been installed between batteries to eliminate battery-to-battery impact in seismic events

Seismic Walkdown Checklist (SWC)

Equipment ID No. R32DDS004 Equip. Class[1] 15 - BATTERY RACKS

Equipment Description DC 260/130V DUAL BATT (2PB)

Comments (Additional pages may be added as necessary)

☒ *Seismic Engineer Walkdown PSE-53Qualified*

Evaluator #1 : David C Dickerson Date: 8/8/2012

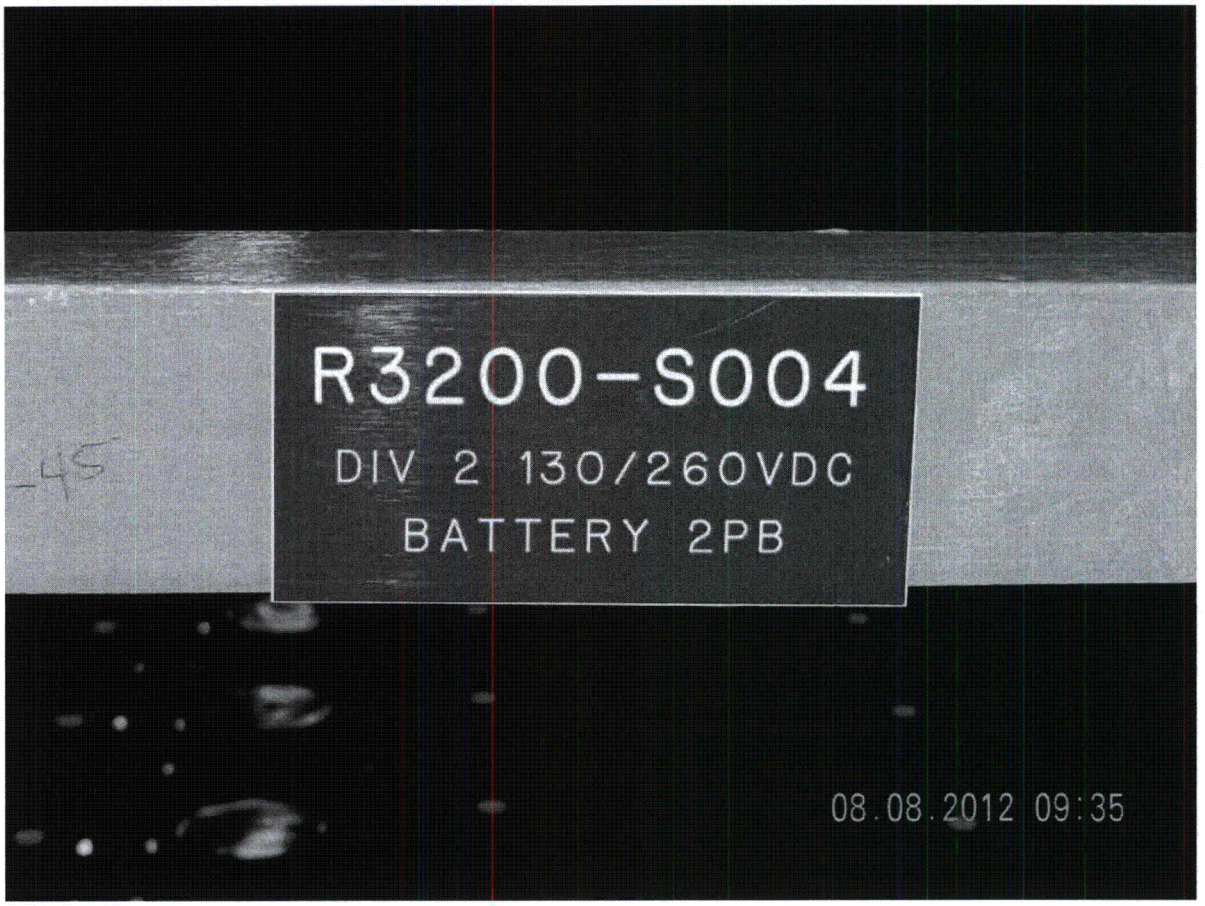
☒ *Seismic Engineer Walkdown PSE-53Qualified*

Evaluator #2 : Joseph Mahlbe Date: 08/08/2012

Seismic Walkdown Pictures

Equipment ID No. *R3200S004* Equipment Class: *15, Battery Racks*

Equipment Description *DC 260/130V Dual Batt. (2PB)*

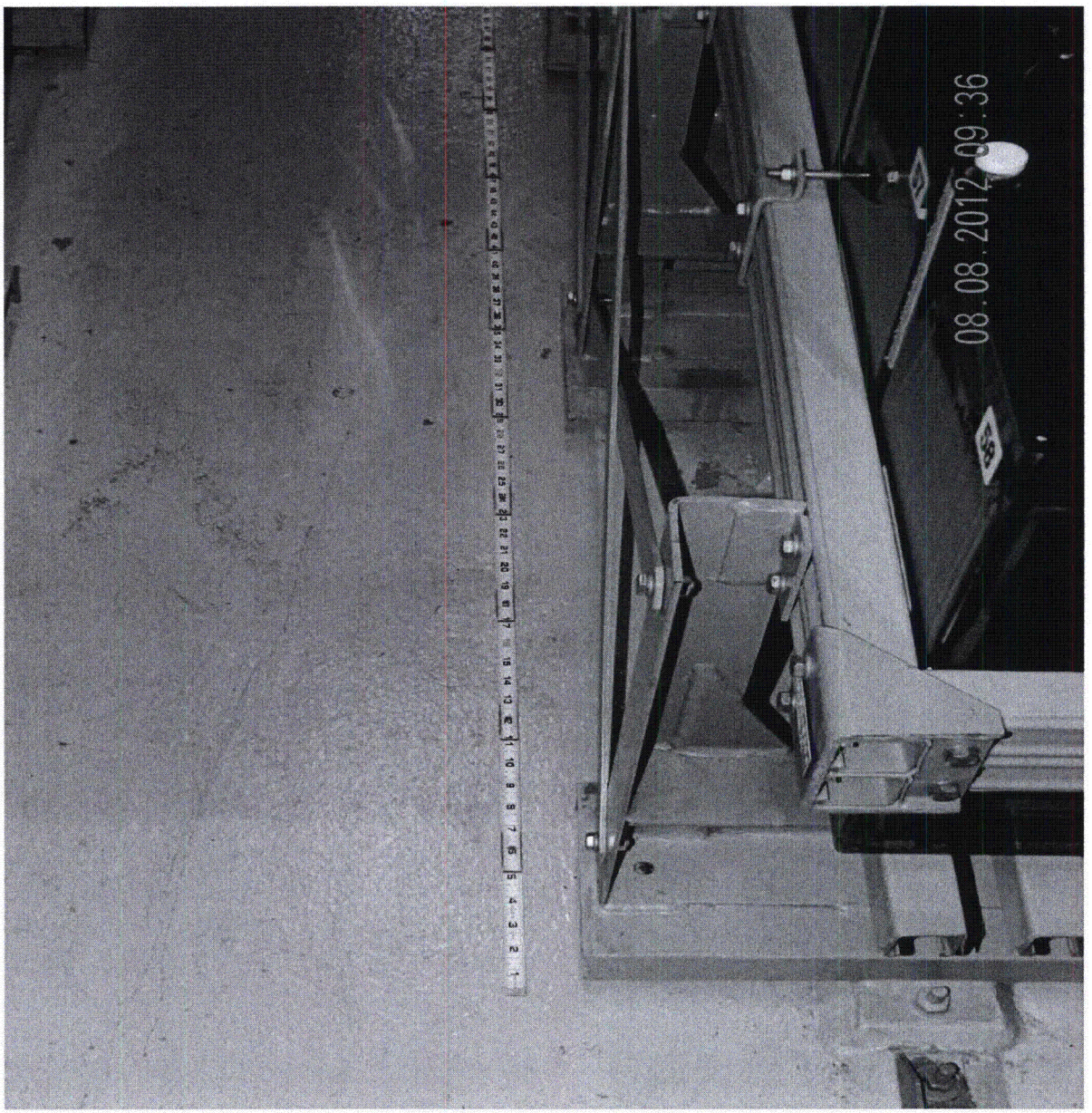


(DSCN0118)

Seismic Walkdown Pictures

Equipment ID No. *R3200S004* Equipment Class: *15, Battery Racks*

Equipment Description *DC 260/130V Dual Batt. (2PB)*

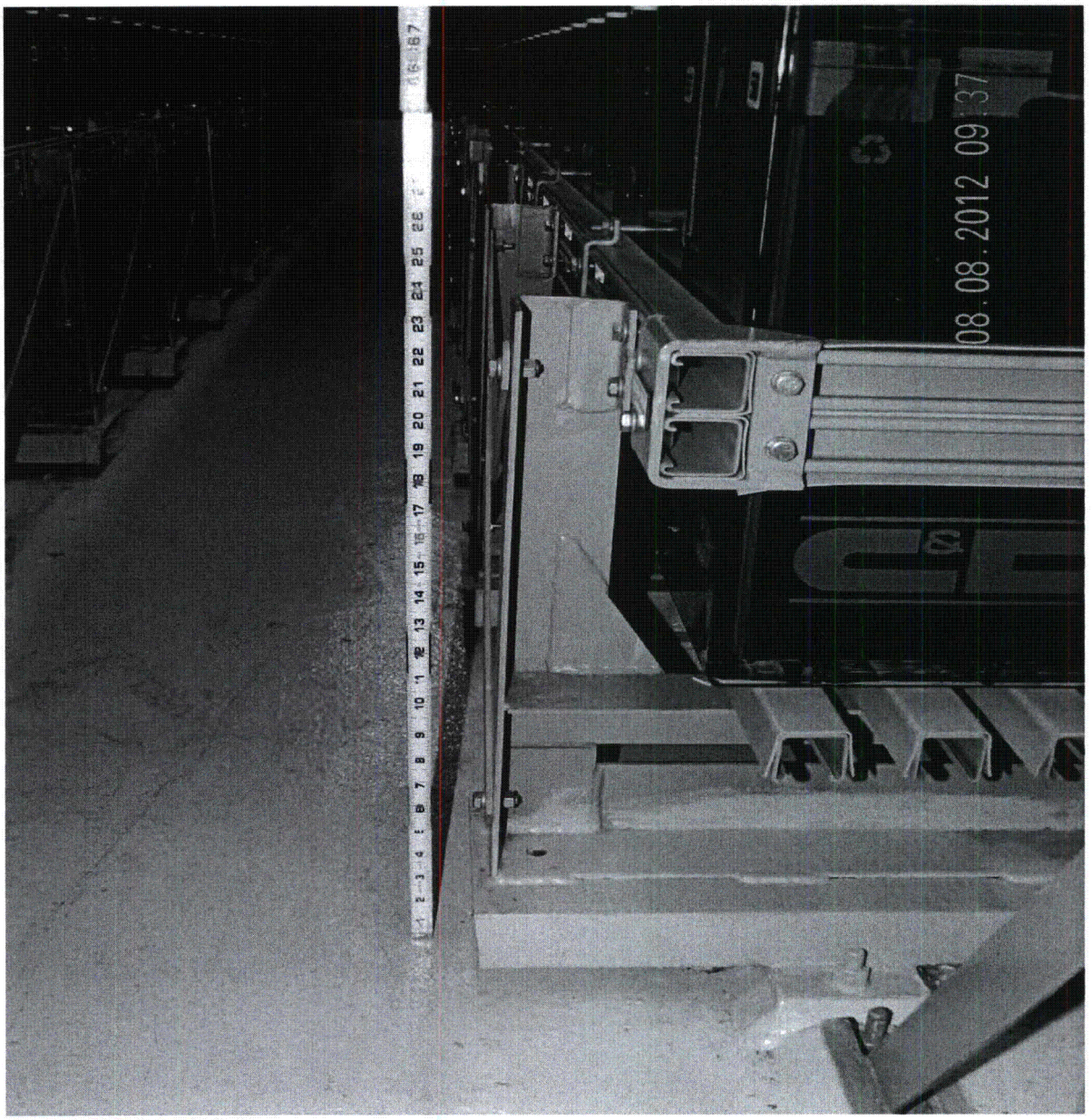


(DSCN0119)

Seismic Walkdown Pictures

Equipment ID No. *R3200S004* Equipment Class: *15, Battery Racks*

Equipment Description *DC 260/130V Dual Batt. (2PB)*

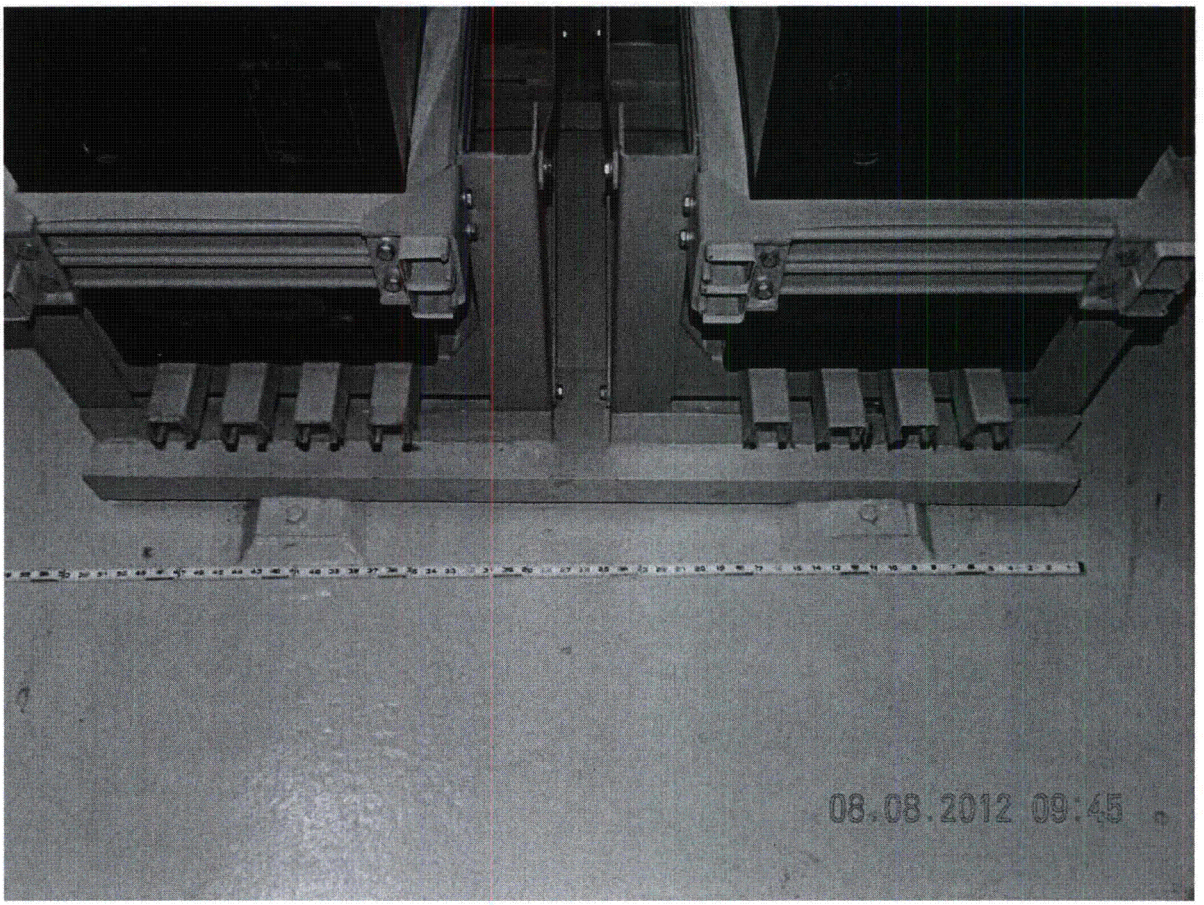


(DSCN0121)

Seismic Walkdown Pictures

Equipment ID No. *R3200S004* Equipment Class: *15, Battery Racks*

Equipment Description *DC 260/130V Dual Batt. (2PB)*



(DSCN0126)

Seismic Walkdown Pictures

Equipment ID No. *R3200S004* Equipment Class: *15, Battery Racks*

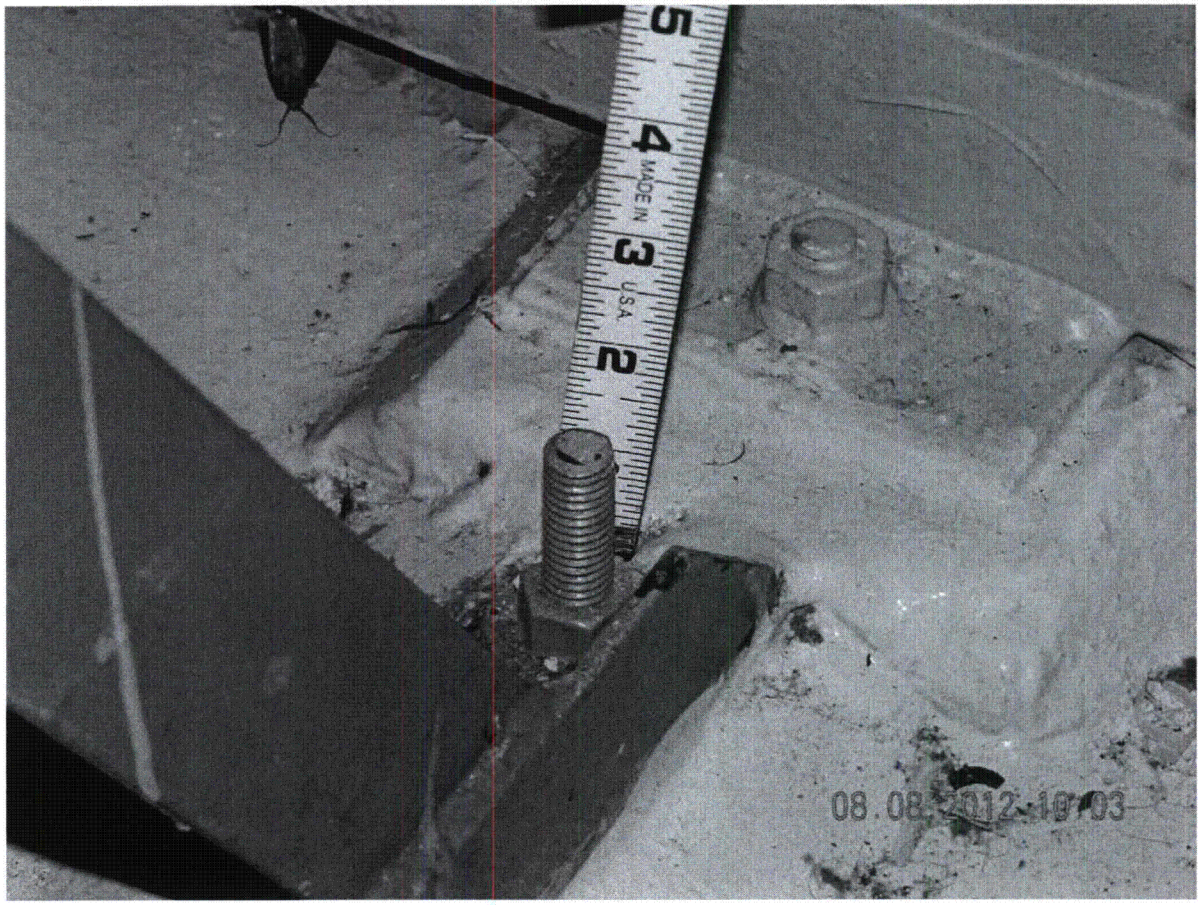
Equipment Description *DC 260/130V Dual Batt. (2PB)*

(DSCN0129)

Seismic Walkdown Pictures

Equipment ID No. *R3200S004* Equipment Class: *15, Battery Racks*

Equipment Description *DC 260/130V Dual Batt. (2PB)*

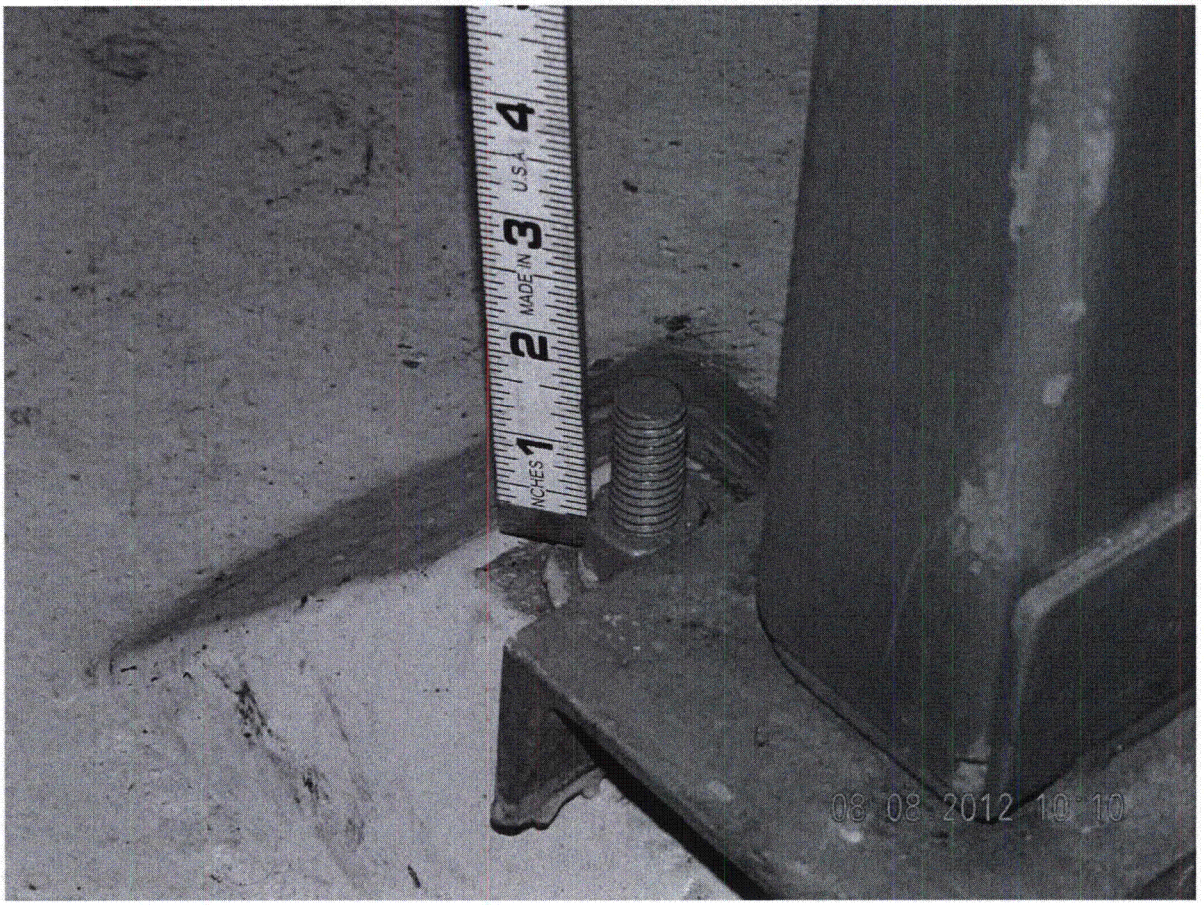


(DSCN0135)

Seismic Walkdown Pictures

Equipment ID No. *R3200S004* Equipment Class: *15, Battery Racks*

Equipment Description *DC 260/130V Dual Batt. (2PB)*



(DSCN0136)

Seismic Walkdown Checklist (SWC)

Equipment ID No. *R3200S016* Equip. Class[1] *1, MCCs & Wall-Mounted Contactors*

Equipment Description *DC 260V DC MCC (2PB-1)*

Location: Bldg. *AB* Floor El. *643'-6"* Room, Area *B-20, Col. G-11*

Manufacturer, Model, Etc. (optional but recommended) *Gould ITE -5640-VAC-80 / 111-106-C-O*

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☐
   Weld outside of cabinet.

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☒ N☐ U☐ N/A☐
   Welded anchorage at base of cabinet exterior. No bent, broken, missing hardware.
   (SEE PICTURES DSCN0205, DSCN0206) ~ DJK 10/11/12

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☒ N☐ U☐ N/A☐
   Welds painted. No corrosion.
   (SEE PICTURES DSCN0205, DSCN0206) ~ DJK 10/11/12

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

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☐
   See Drawing ~~E-2992-3~~. E-2992-03, REV. I, HAS NO APPLICABLE POSTINGS ~ DJK 10/12/12

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 Appendix B: Classes of Equipment

Seismic Walkdown Checklist (SWC)

Equipment ID No. *R3200S016* Equip. Class[1] *1, MCCs & Wall-Mounted Contactors*

Equipment Description *DC 260V DC MCC (2PB-1)*

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☐
   Block wall has steel restraints. Consistent with seismic detailing. Light fittings have chain & cable. Ducts seismically supported. E-lights on very robust support.

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

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☐
    Fire wall to separate Div. I & Div. II switchgear wall appears to be seismic & robust. Approximately 4'-0" from R3200S016. – Acceptable. Security defensive position – 3 drums tied together approximately 6'-0" from panel – Acceptable.

    Note: Cabinet is 260V DC MCC that requires a screwdriver & disassembly to open, therefore cabinet was not opened. Base anchorage was exterior & verifiable.

Seismic Walkdown Checklist (SWC)

Equipment ID No. R32003016 Equip. Class[1] 1-MCCs & WALL MOUNTED CONTACTORS

Equipment Description DC 260V DC MCC (2PB-1)

Comments (Additional pages may be added as necessary)

☒ *Seismic Engineer Walkdown PSE-53Qualified*

Evaluator #1 : David C Dickson Date: 8/9/2012

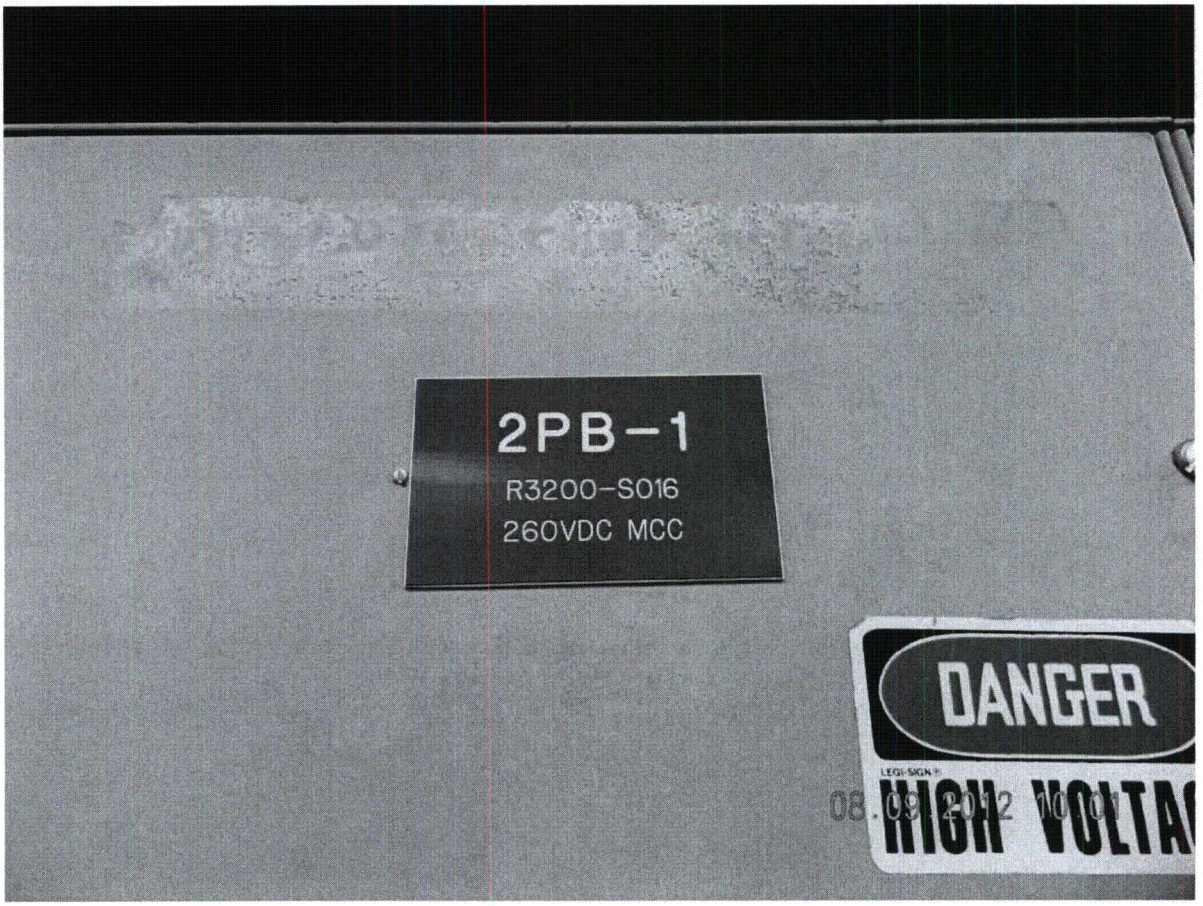
☒ *Seismic Engineer Walkdown PSE-53Qualified*

Evaluator #2 : Joseph M La Vere Date: 08/09/2012

Seismic Walkdown Pictures

Equipment ID No. *R3200S016* Equipment Class: *1, MCCs & Wall-Mounted Contactors*

Equipment Description *DC 260V DC MCC (2PB-1)*

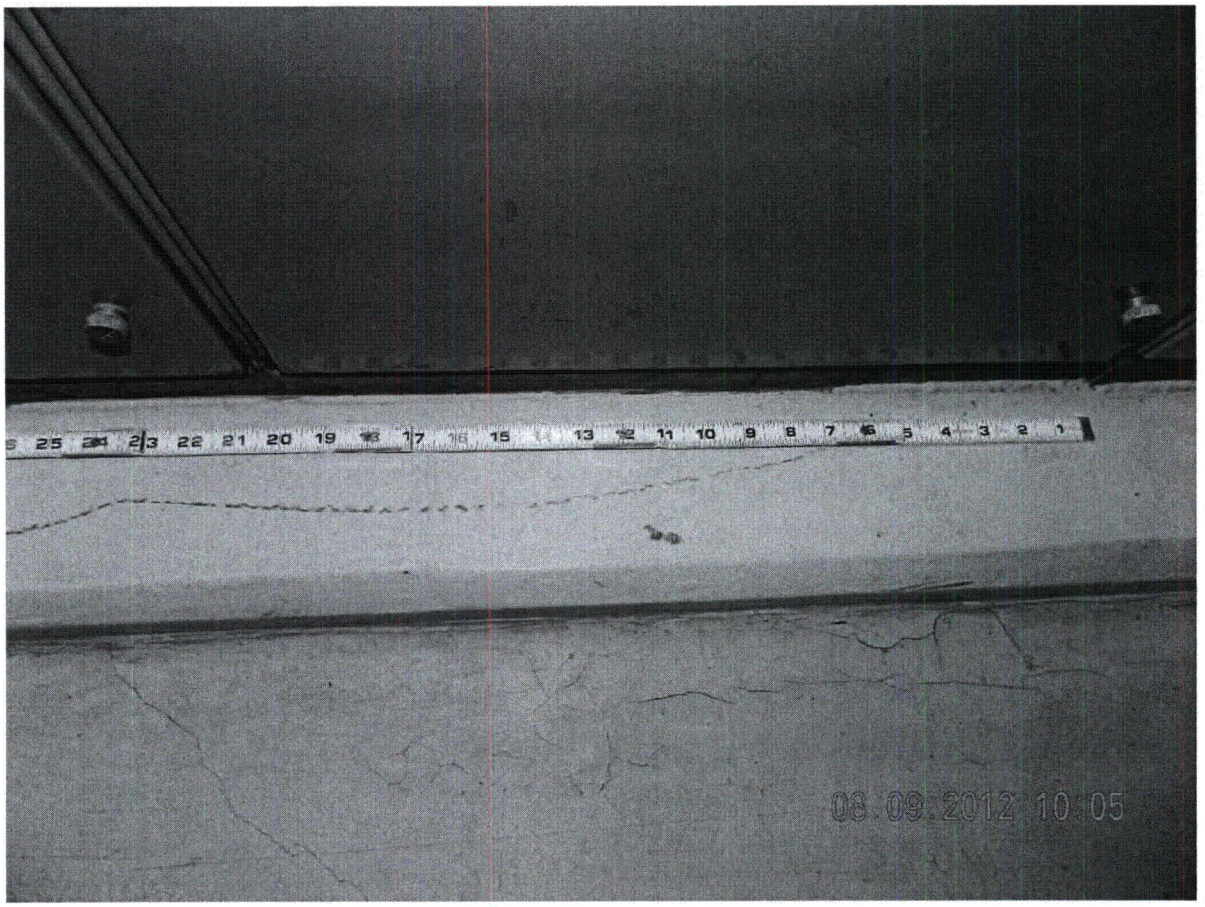


(DSCN0204)

Seismic Walkdown Pictures

Equipment ID No. *R3200S016* Equipment Class: *1, MCCs & Wall-Mounted Contactors*

Equipment Description *DC 260V DC MCC (2PB-1)*

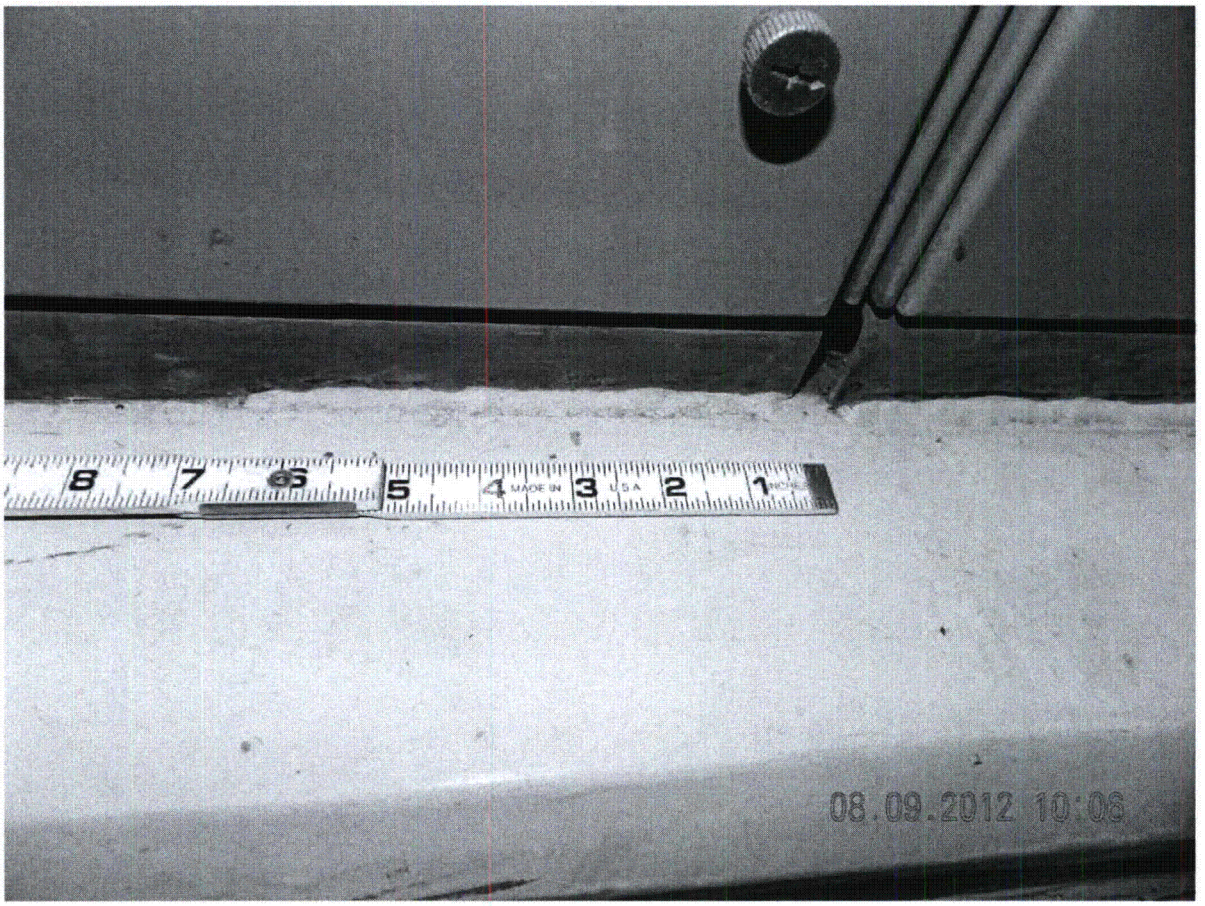


(DSCN0205)

Seismic Walkdown Pictures

Equipment ID No. *R3200S016* Equipment Class: *1, MCCs & Wall-Mounted Contactors*

Equipment Description *DC 260V DC MCC (2PB-1)*



(DSCN0206)

Seismic Walkdown Checklist (SWC)

Equipment ID No. *R3200S020C* Equip. Class[1] *16 - Battery Chargers and Inverters*

Equipment Description *Div 1 130V DC Battery Charger 2A1-2*

Location: Bldg. *AB3* Floor El. *643'-6"* Room, Area *B-20, Col. G-11*

Manufacturer, Model, Etc. (optional but recommended) *C&D Charter Power Systems Model ARR130H/K100*

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☐
   All anchors visible – 4 bolts total. (SEE PICTURES DSC00068, DSC00071) DJK 10/9/12

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☒ N☐ U☐ N/A☐
   All 4 bolts installed properly.
   (SEE PICTURES DSC00068, DSC00071) DJK 10/9/12

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☒ N☐ U☐ N/A☐
   Clean, no oxidation.
   (SEE PICTURES DSC00068, DSC00071) DJK 10/9/12

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☒ N☐ U☐ N/A☐
   No crack visible.
   (SEE PICTURES DSC00068, DSC00069) DJK 10/9/12

5. Is the anchorage configuration consistent with plant documentation? Y☒ N☐ U☐ N/A☐
   (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)
   Installed in accordance with dwg. I-2833-03, 4 - 3/8" Ø bolts.* DJK 10/12/12
   (SEE PICTURES DSC00068, DSC00071) DJK 10/9/12

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

JMC

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

* Dwg. I-2833-03, REV. I HAS NO POSTINGS ~ DJK 10/12/12

Seismic Walkdown Checklist (SWC)

Equipment ID No. *R3200S020C* Equip. Class[1] *16 - Battery Chargers and Inverters*

Equipment Description *Div 1 130V DC Battery Charger 2A1-2*

Interaction Effects

7. Are soft targets free from impact by nearby equipment or structures? Y☒ N☐ U☐ N/A☐
   Conduit, cable tray and HVAC ducts have seismically robust supports, concrete anchors. QC verified (paint marked heads). Adjacent battery chargers mounted the same. Adjacent electrical cabinets on Unistrut anchored to the wall.
   (SEE PICTURE DSC0070) DJK 10/9/12
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☐
   Lights on chains with redundant cable. No masonry walls are close by, greater than 35 foot away.
9. Do attached lines have adequate flexibility to avoid damage? Y☐ N☒ U☐ N/A☐
   Cables attached to cabinet in flex conduit with loop. Verify flex conduit detail for conduit TO-029-1P. CARD 12-27131 initiated to verify/evaluate issue. JAM 10/18/12
   (SEE PICTURES DSC0070, DSCN0481, DSCN0482, DSCN0483) DJK 10/9/12
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y☐ N☒ U☐
    Verify Flex connection of 2" conduit going into top of floor-mounted unit. See CARD 12-27131 for adequacy of flexibility questioned.
    (SEE PICTURES DSCN0481, DSCN0482, DSCN0483) DJK 10/9/12

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☐
    Note: This asset requires a screwdriver & disassembly to open, therefore cabinet was not opened. Base anchorage was exterior & verifiable.

Seismic Walkdown Checklist (SWC)

Equipment ID No. R32 C005020C Equip. Class[1] 16- BATTERY CHARGERS & INVERTERS

Equipment Description DIV 1 130VDC BATTERY CHARGER 2A1-2

Comments (Additional pages may be added as necessary)

☒ *Seismic Engineer Walkdown PSE-53Qualified*

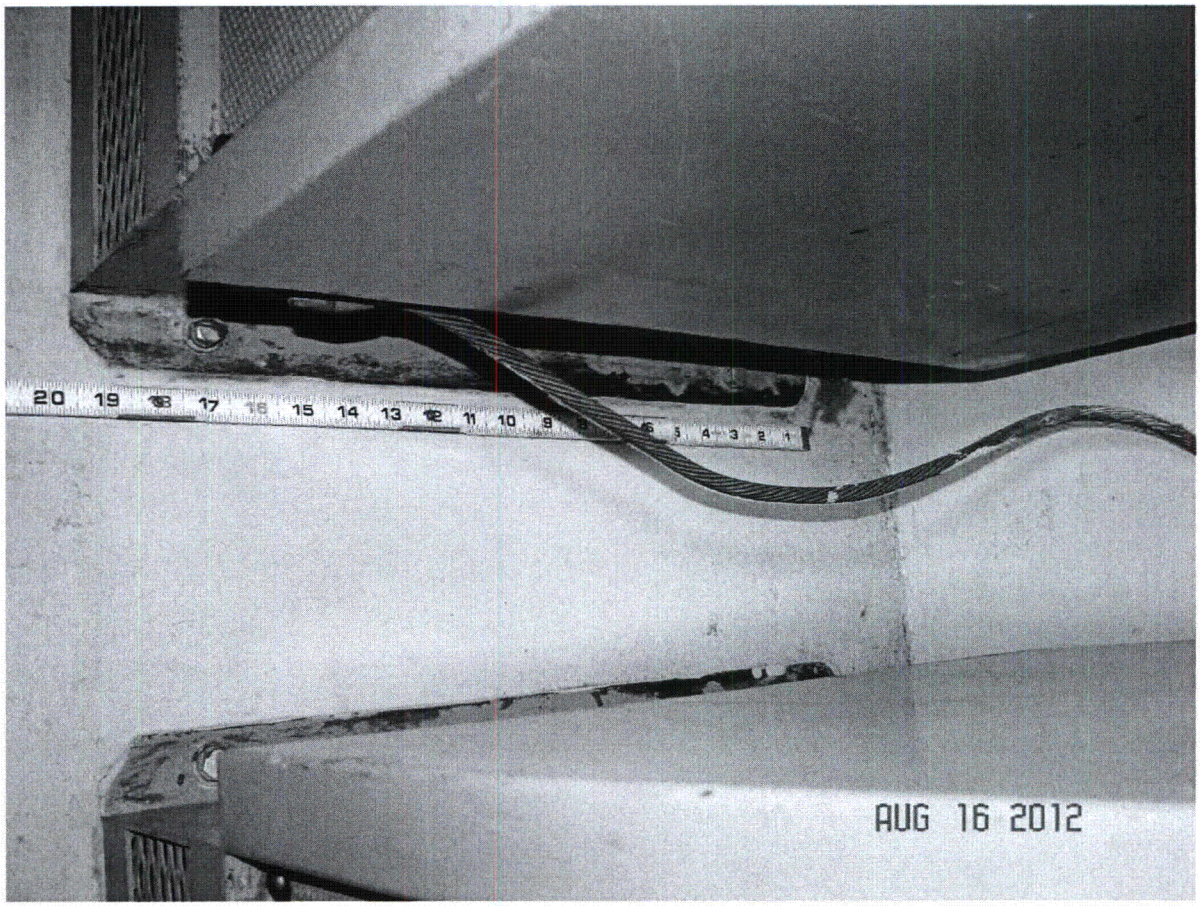
Evaluator #1 : David C Dickinson Date: 16th August 2012

☒ *Seismic Engineer Walkdown PSE-53Qualified*

Evaluator #2 : Joseph M Palkie Date: 08/16/2012

Seismic Walkdown Pictures

Equipment ID No. *R3200S020C* Equipment Class: *16, Battery Chargers and Inverters*
Equipment Description *Div. 1 130V DC Battery Charger 2A1-2*

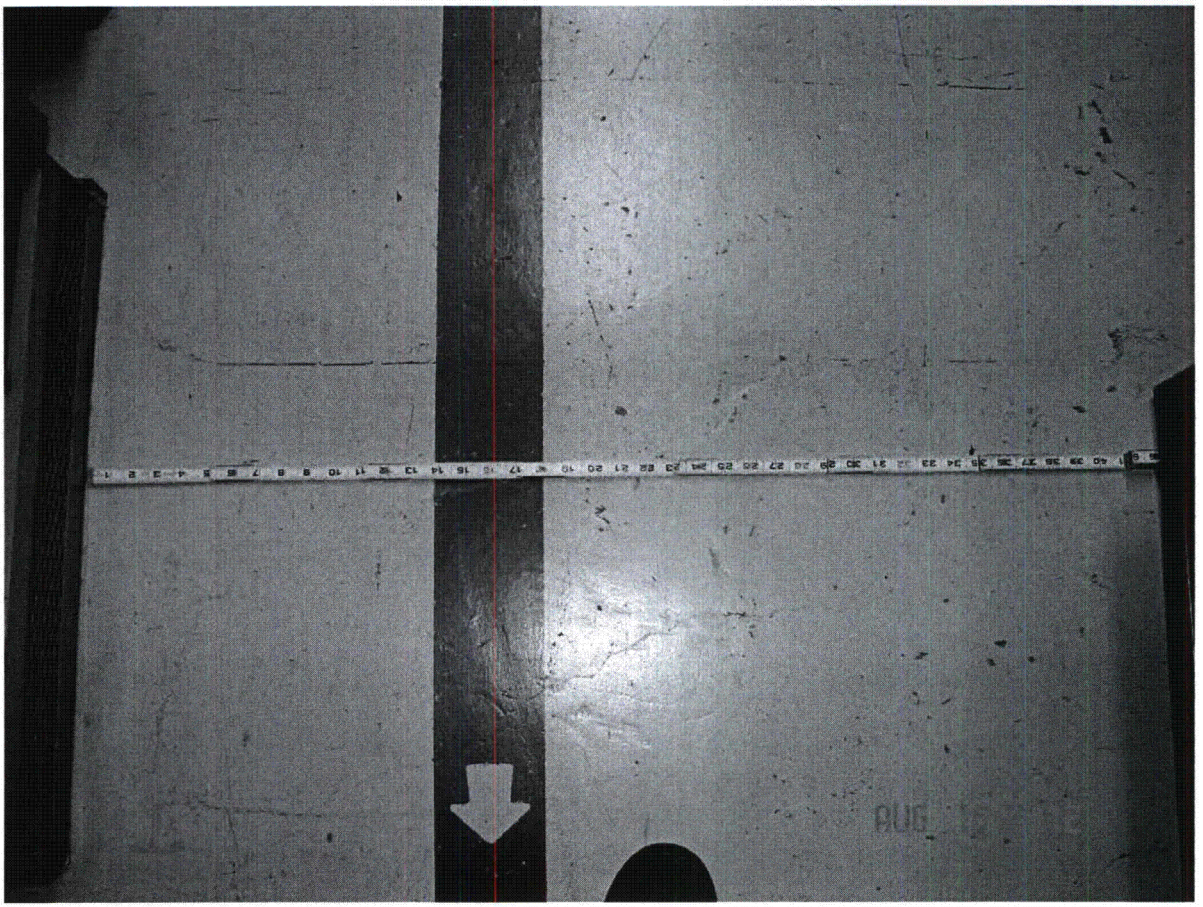


(DSC0068)

Bolting Configuration to Concrete Floor

Seismic Walkdown Pictures

Equipment ID No. *R3200S020C* Equipment Class: *16, Battery Chargers and Inverters*
Equipment Description *Div. 1 130V DC Battery Charger 2A1-2*

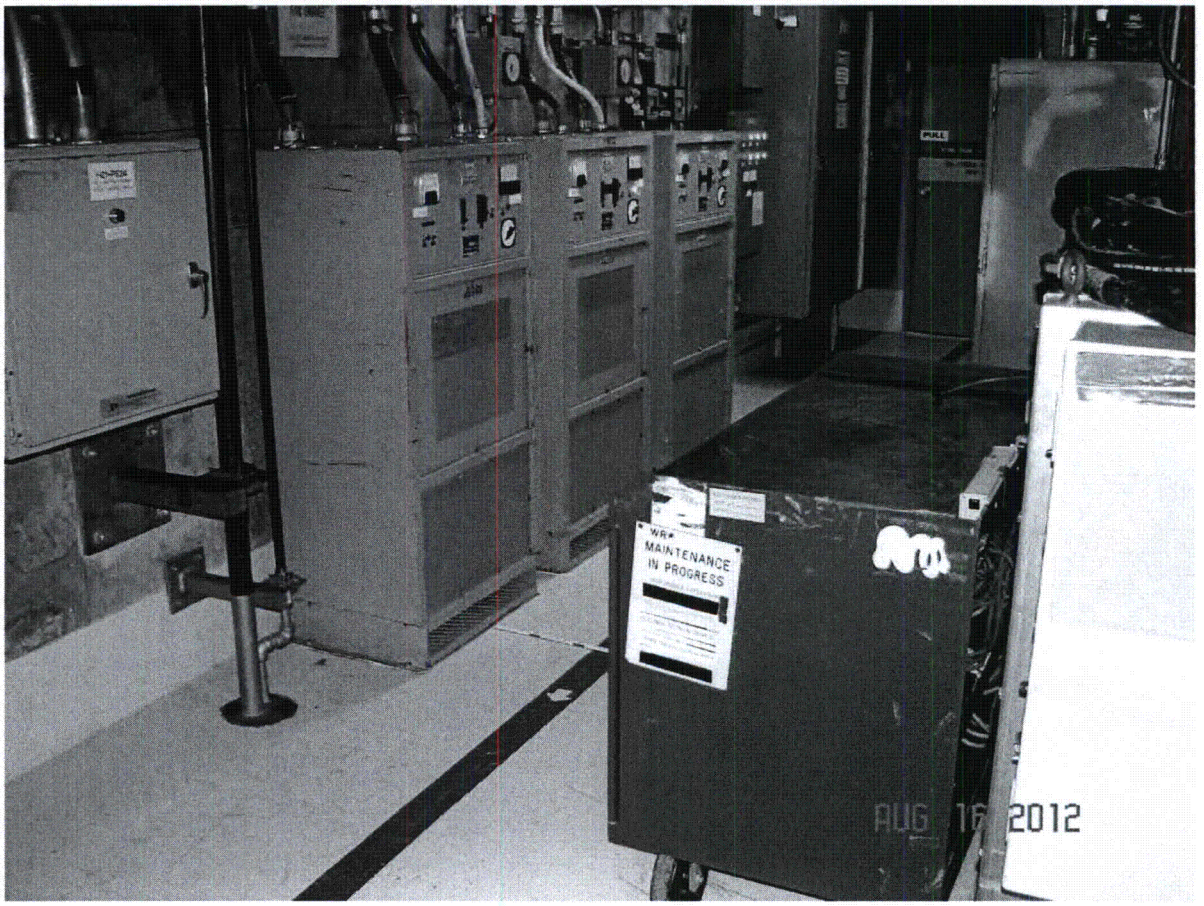


(DSC0069)

Concrete Floor In Front of Battery Charger

Seismic Walkdown Pictures

Equipment ID No. *R3200S020C* Equipment Class: *16, Battery Chargers and Inverters*
Equipment Description *Div. 1 130V DC Battery Charger 2A1-2*

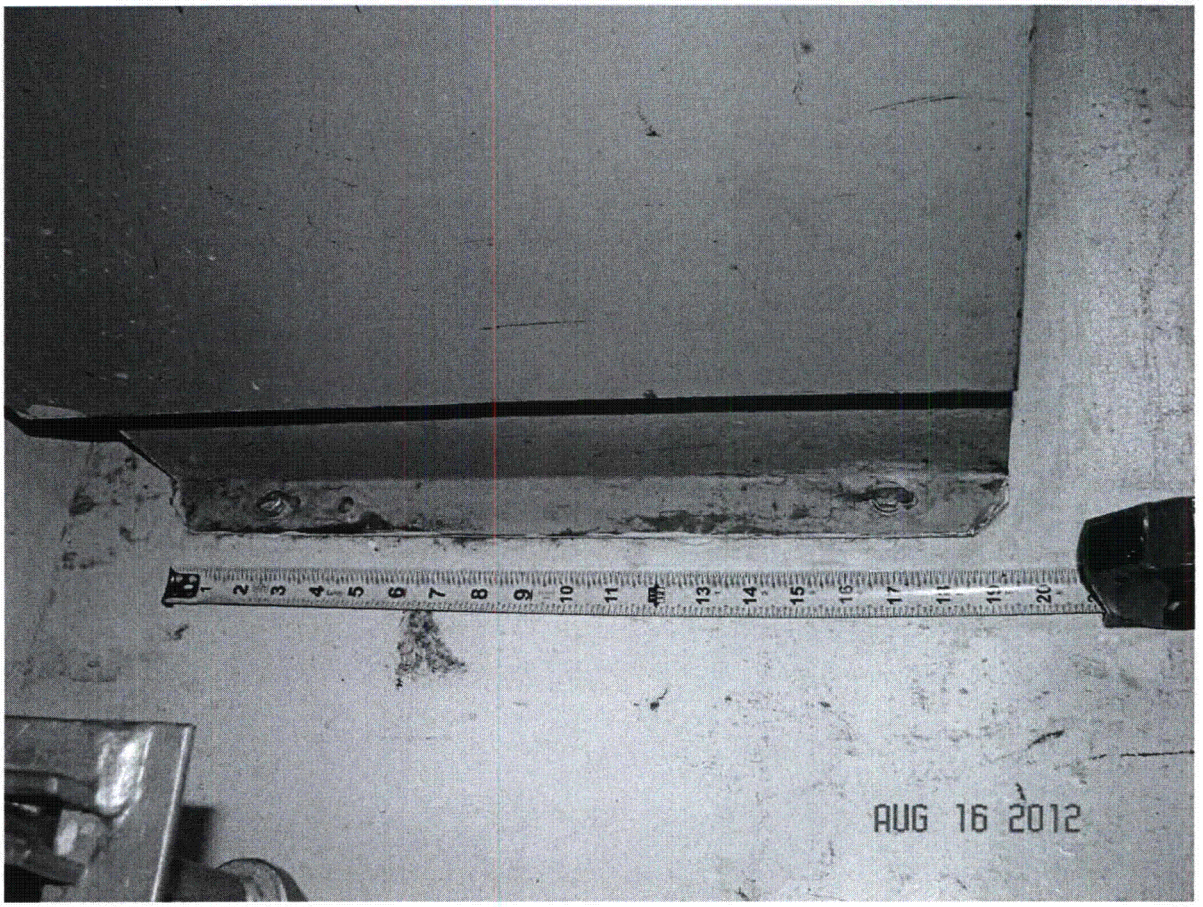


(DSC0070)

Side View of Battery Chargers and Surrounding Equipment

Seismic Walkdown Pictures

Equipment ID No. *R3200S020C* Equipment Class: *16, Battery Chargers and Inverters*
Equipment Description *Div. 1 130V DC Battery Charger 2A1-2*

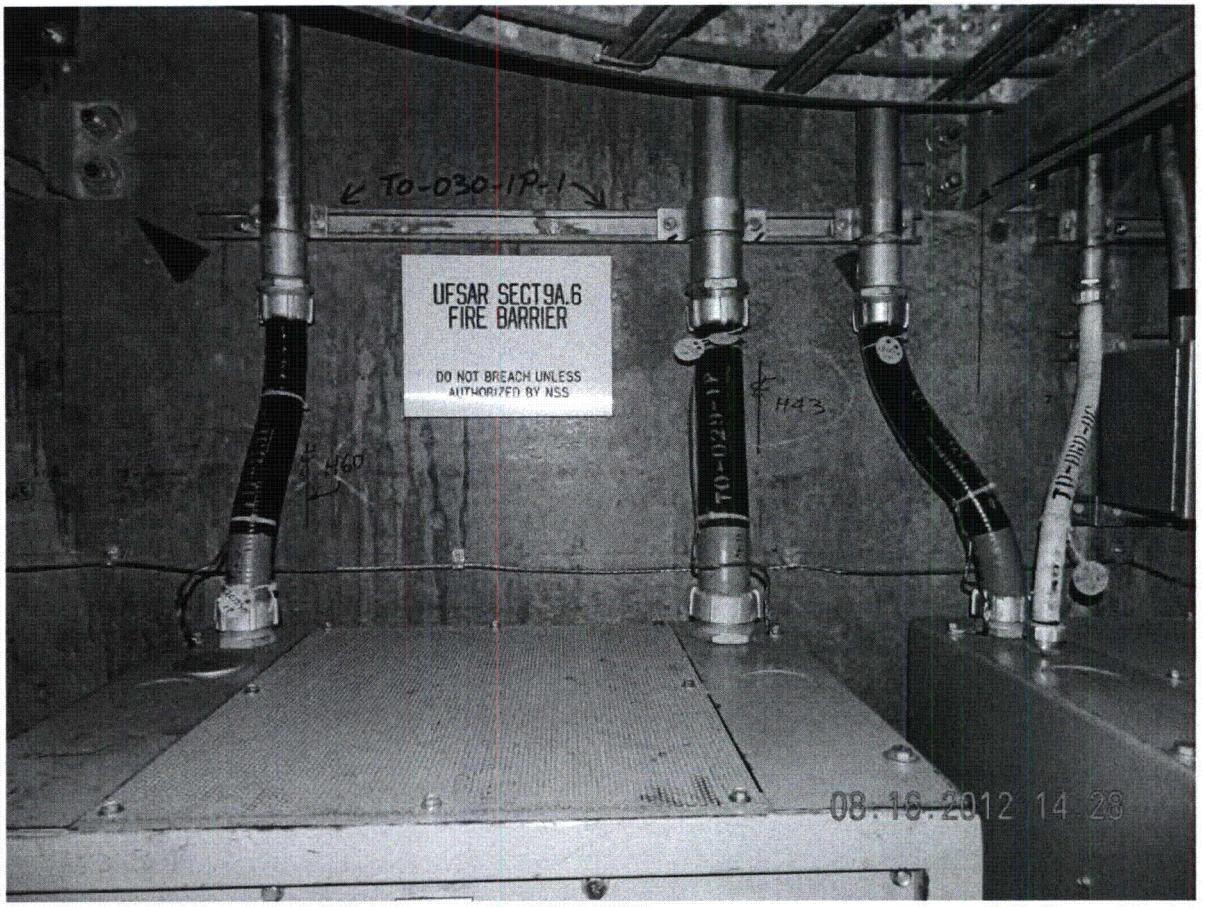


(DSC0071)

Bolting Configuration to Concrete Floor

Seismic Walkdown Pictures

Equipment ID No. *R3200S020C* Equipment Class: *16, Battery Chargers and Inverters*
Equipment Description *Div. 1 130V DC Battery Charger 2A1-2*

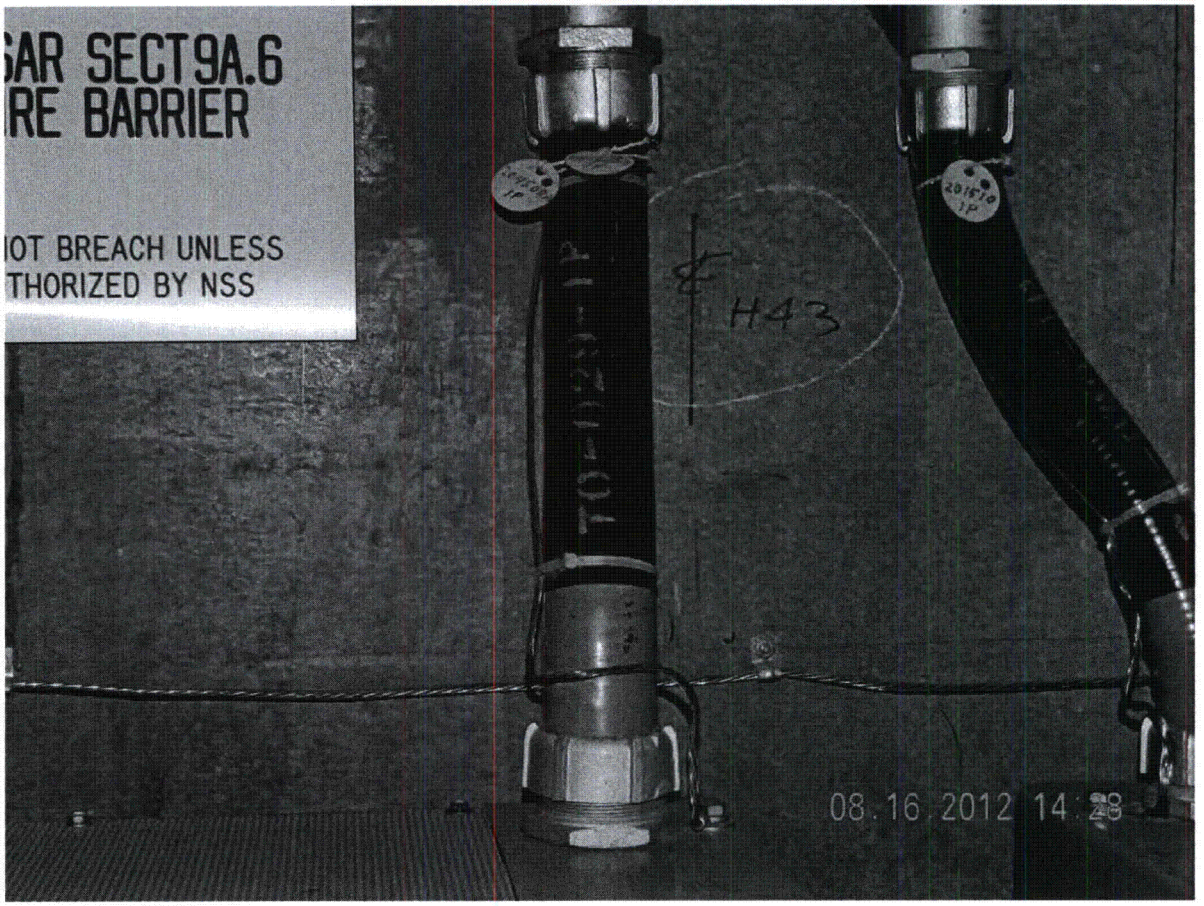


(DSCN0481)

Overhead Cable Tray and Flexible Conduits to Battery Charger

Seismic Walkdown Pictures

Equipment ID No. *R3200S020C* Equipment Class: *16, Battery Chargers and Inverters*
Equipment Description *Div. 1 130V DC Battery Charger 2A1-2*

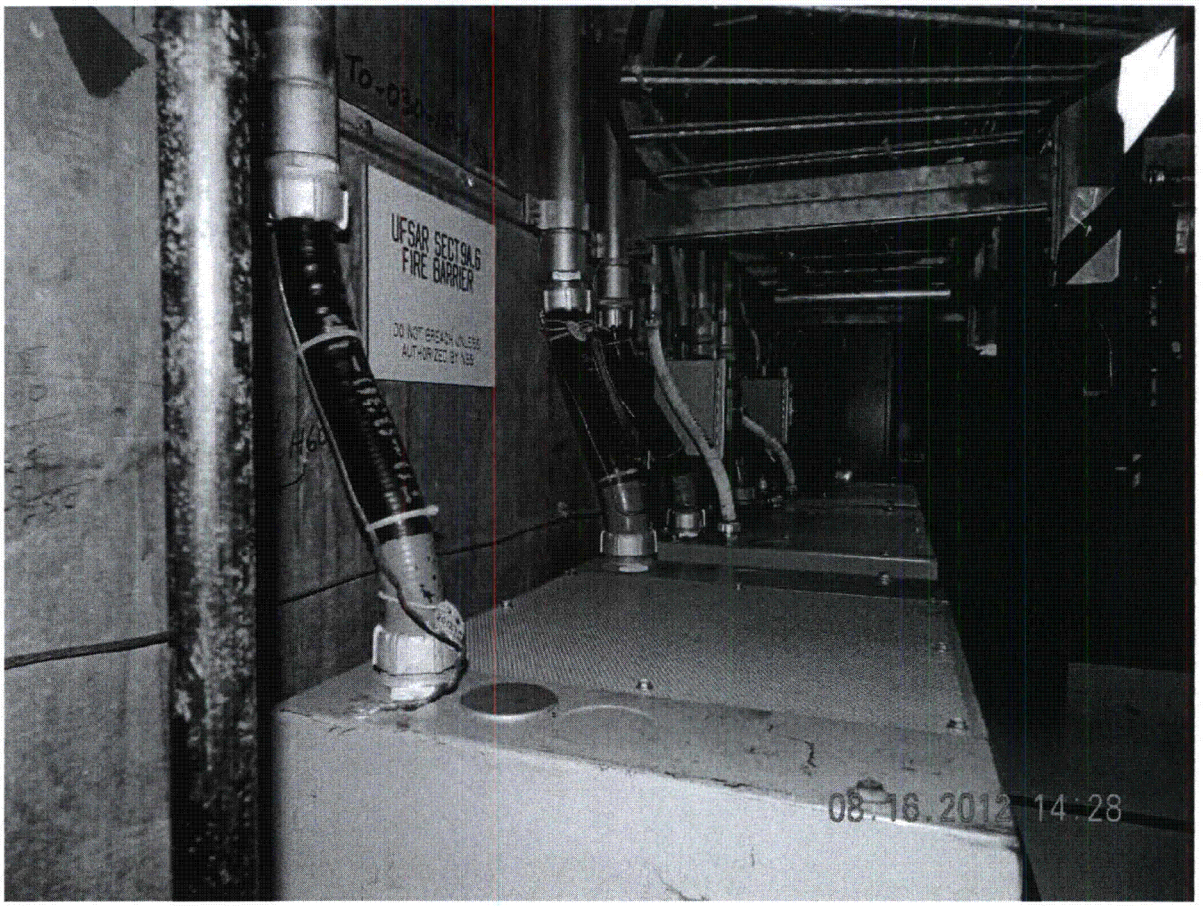


(DSCN0482)

Flexible Cables to Battery Charger

Seismic Walkdown Pictures

Equipment ID No. *R3200S020C* Equipment Class: *16, Battery Chargers and Inverters*
Equipment Description *Div. 1 130V DC Battery Charger 2A1-2*



(DSCN0483)

Side View of Overhead Cable Trays and Flexible Conduits to Battery Charger

NJPR-12-0043

Status: (Y) N U

Seismic Walkdown Checklist (SWC)

Equipment ID No. *R3200S061A* Equip. Class[1] *14-Distribution Panels & Automatic Transfer Switches*

Equipment Description *130V Distribution Panel 2PA 2-5*

Location: Bldg. *AB2* Floor El. *613'-6"* Room, Area *Relay Room (B-15), Col. F-17*

Manufacturer, Model, Etc. (optional but recommended) *Square "D" model QMB 250VDC*

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☐
   6 anchors directly to concrete wall, all visible.
   (SEE PICTURES DSCN0697, DSCN0698, DSCN0699, DSCN0700, DSCN0702) ~ DJK 10/11/12
2. Is the anchorage free of bent, broken, missing or loose hardware? Y☒ N☐ U☐ N/A☐
   All anchors installed.
   (SEE PICTURES DSCN0697, DSCN0698, DSCN0699, DSCN0700, DSCN0702) ~ DJK 10/11/12
3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☒ N☐ U☐ N/A☐
   All anchors are free from corrosion.
   (SEE PICTURES DSCN0697, DSCN0698, DSCN0699, DSCN0700, DSCN0702) ~ DJK 10/11/12
4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☒ N☐ U☐ N/A☐
   Concrete is in good condition, no significant cracks. Acceptable as-is.
   (SEE PICTURES DSCN0697, DSCN0698, DSCN0699, DSCN0700, DSCN0702) ~ DJK 10/11/12
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☐
   Installation conforms to dwg E-2832-11, REV. 0 (NO APPLICABLE POSTINGS) ~ DJK 10/12/12
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☒ N☐ U☐
   No adverse condition observed.

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

JML

Seismic Walkdown Checklist (SWC)

Equipment ID No. *R3200S061A* Equip. Class[1] *14-Distribution Panels & Automatic Transfer Switches*

Equipment Description *130V Distribution Panel 2PA 2-5*

Interaction Effects

7. Are soft targets free from impact by nearby equipment or structures? Y[X] N[ ] U[ ] N/A[ ]
   Area is free of soft targets.

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y[X] N[ ] U[ ] N/A[ ]
   No ceiling tiles. Lights hung on chains with redundant wire cable. Masonry walls are remote and seismically restrained.

9. Do attached lines have adequate flexibility to avoid damage? Y[X] N[ ] U[ ] N/A[ ]
   Conduit and panel are mounted on the same concrete wall which reduces differential movement. Flex conduits have adequate flexible loops.

10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y[X] 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[X] N[ ] U[ ]
    None observed

Seismic Walkdown Checklist (SWC)

Equipment ID No. R32COOS061A Equip. Class[1] 14 - DISTRIBUTION PANELS & AUTOMATIC TRANSFER SWITCHES

Equipment Description 130V DISTRIBUTION PANEL 2PAP2-5

Comments (Additional pages may be added as necessary)

Note: Per NEI Focus Group response to Frequently Asked Questions (FAQ) dated September 18, 2012, a supplemental seismic walkdown was conducted on October 8, 2012 to open the panel and visually inspect inside. The Supplemental SWC follows this SWC.

JAM 10/22/12

☒ *Seismic Engineer Walkdown PSE-53Qualified*

Evaluator #1 : David G Dickerman Date: 8/22/2012

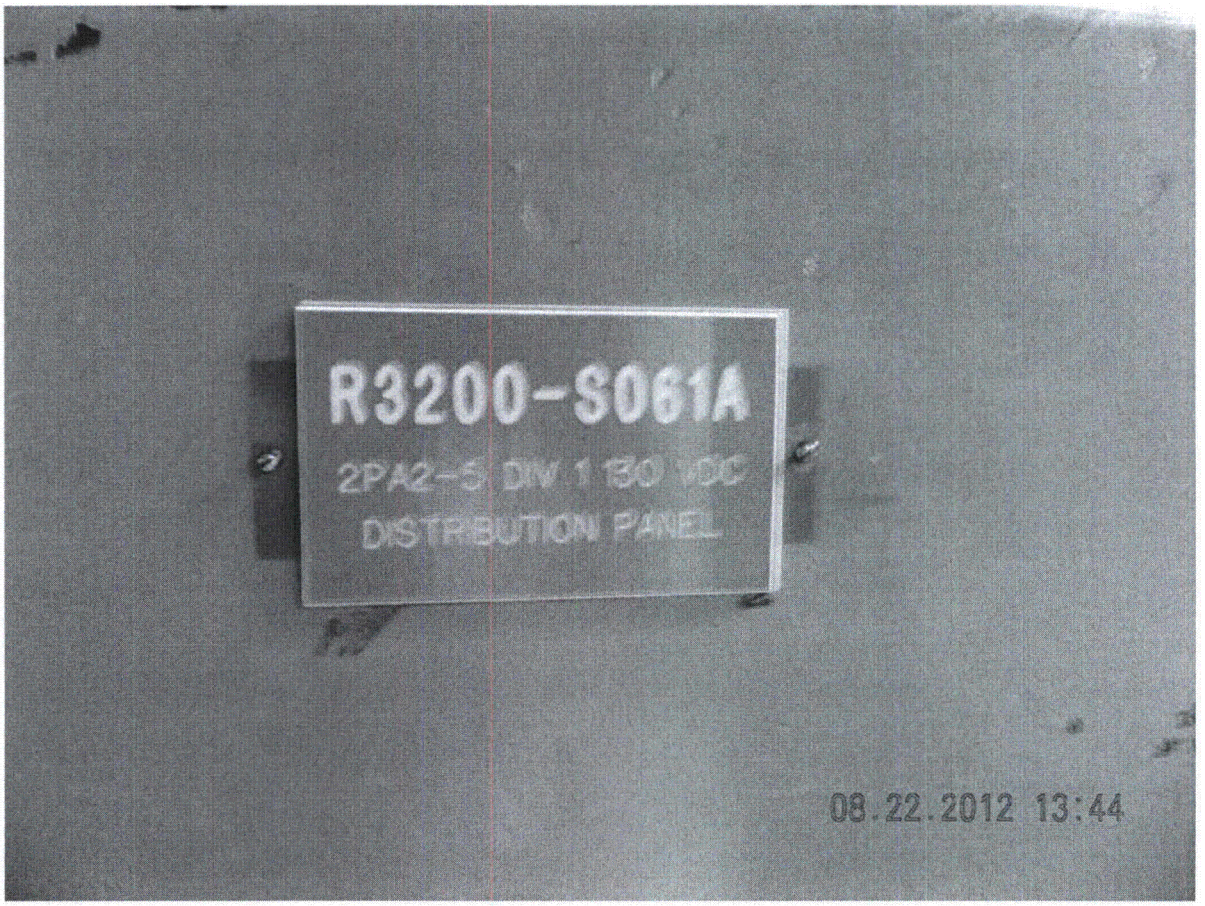
☒ *Seismic Engineer Walkdown PSE-53Qualified*

Evaluator #2 : Joseph M Baker Date: 08/22/2012

Seismic Walkdown Pictures

Equipment ID No. *R3200S061A* Equipment Class: *14. Distribution Panels and Automatic Transfer Switches*

Equipment Description *130V Distribution Panel 2PA2-5*

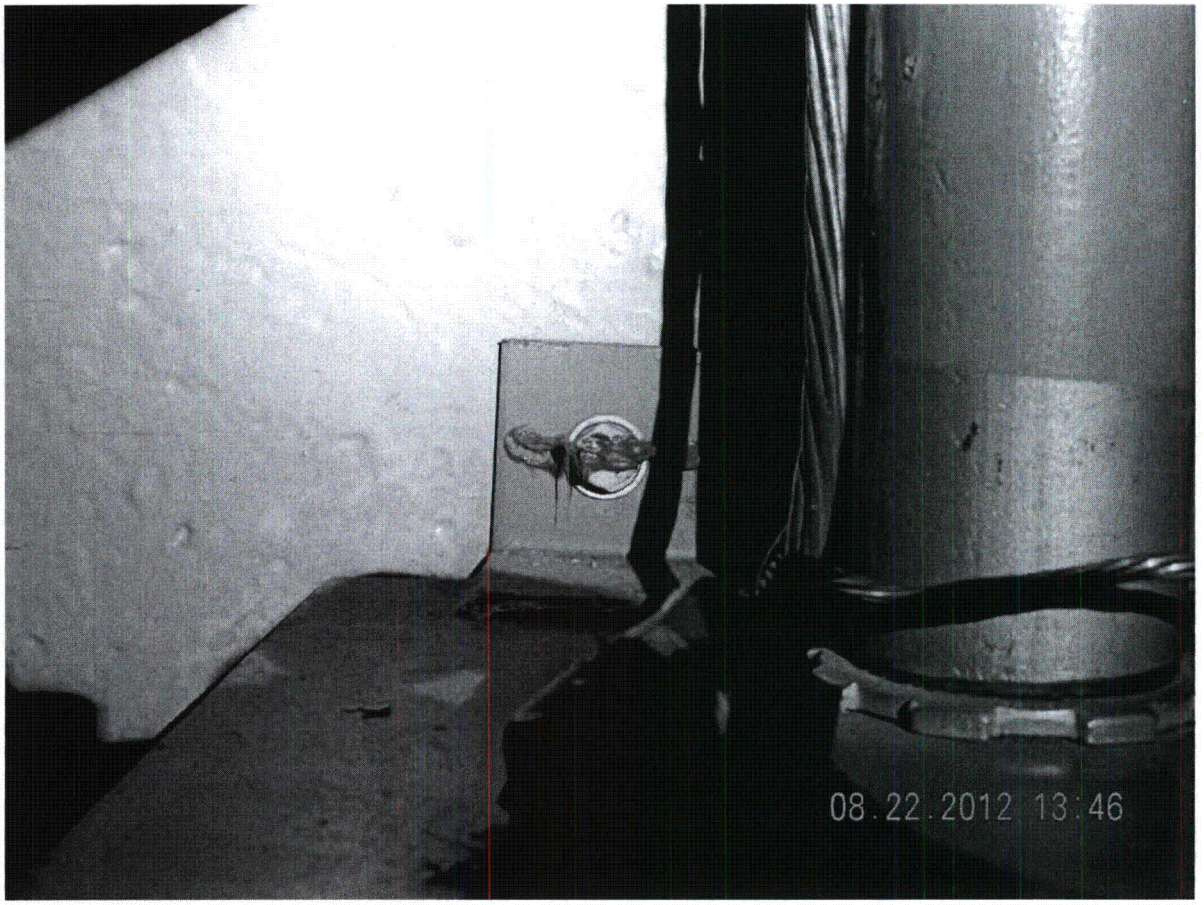


(DSCN0696)

Seismic Walkdown Pictures

Equipment ID No. *R3200S061A* Equipment Class: *14. Distribution Panels and Automatic Transfer Switches*

Equipment Description *130V Distribution Panel 2PA2-5*

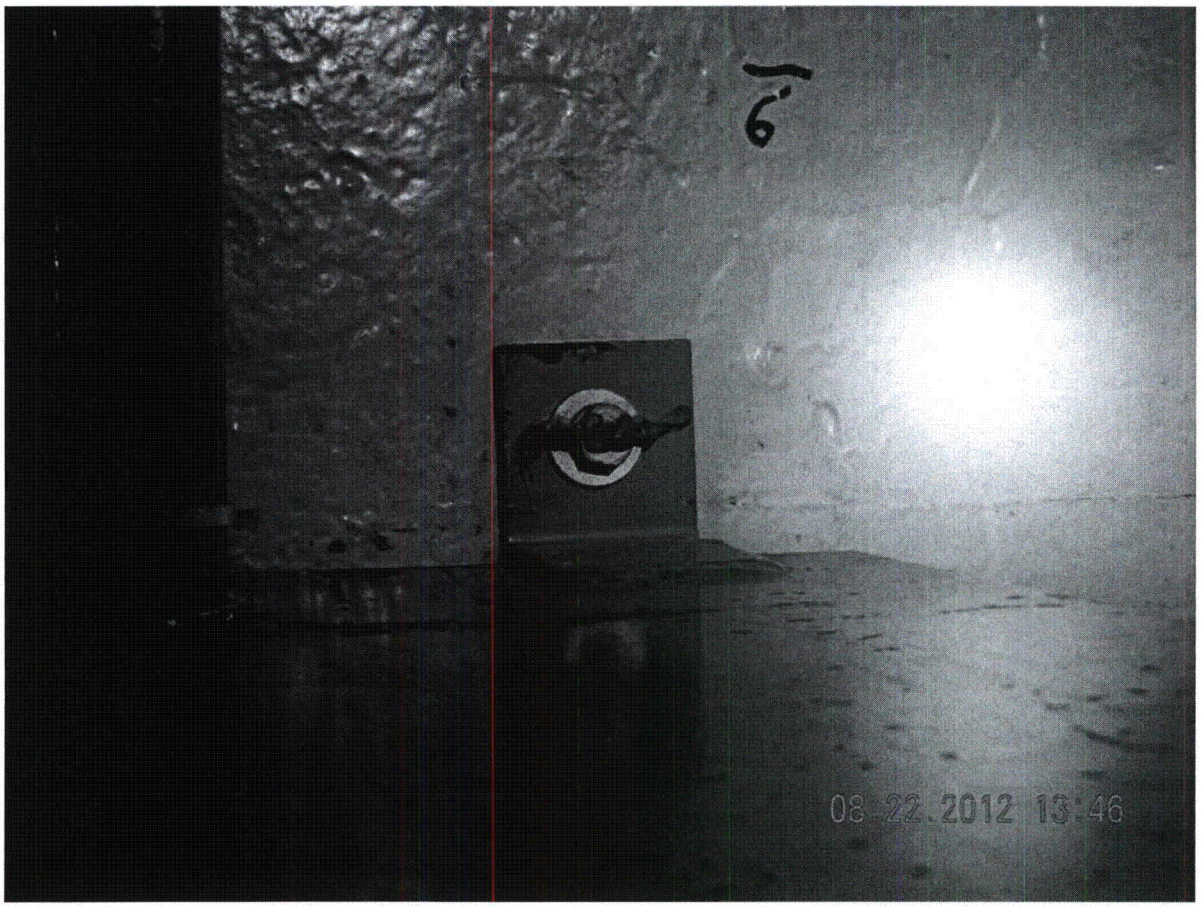


(DSCN0697)

Seismic Walkdown Pictures

Equipment ID No. *R3200S061A* Equipment Class: *14, Distribution Panels and Automatic Transfer Switches*

Equipment Description *130V Distribution Panel 2PA2-5*



(DSCN0698)

Seismic Walkdown Pictures

Equipment ID No. *R3200S061A* Equipment Class: *14. Distribution Panels and Automatic Transfer Switches*

Equipment Description *130V Distribution Panel 2PA2-5*

(DSCN0699)

Seismic Walkdown Pictures

Equipment ID No. *R3200S061A* Equipment Class: *14, Distribution Panels and Automatic Transfer Switches*

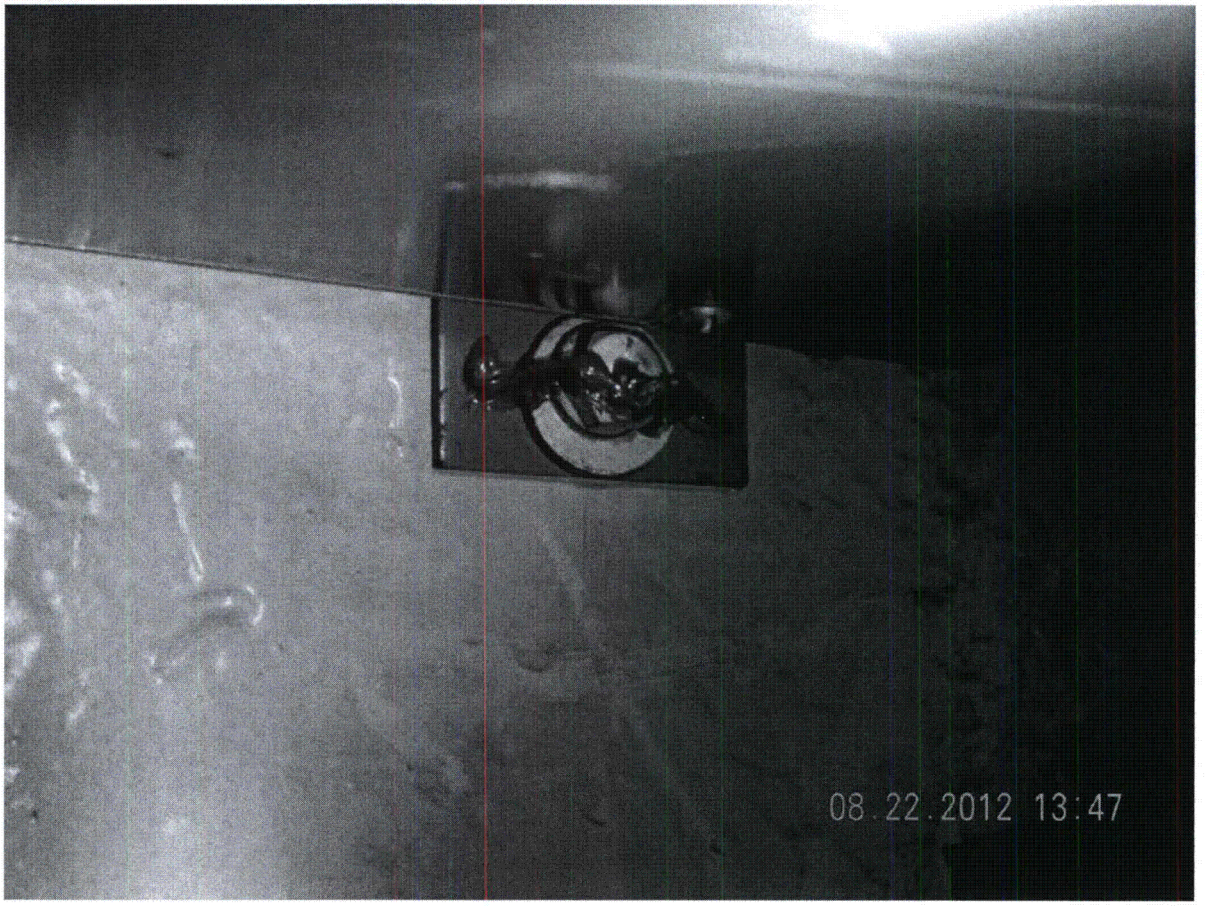
Equipment Description *130V Distribution Panel 2PA2-5*

(DSCN0700)

Seismic Walkdown Pictures

Equipment ID No. *R3200S061A* Equipment Class: *14. Distribution Panels and Automatic Transfer Switches*

Equipment Description *130V Distribution Panel 2PA2-5*



(DSCN0702)

NJPR-12-0043 Status: (Y) N U

Seismic Walkdown Checklist (SWC)

[Note: This Walkdown's scope was limited to cabinet internals per 9/18/12 NEI Focus Group response to Frequently Asked Questions.]

Equipment ID No. R3200S061A Equip. Class[1] *14-Distribution Panels & Automatic Transfer Switches*

Equipment Description *130V Distribution Panel 2PA 2-5*

Location: Bldg. *AB2* Floor El. *613'-6"* Room, Area *Relay Room (Rm B-15), Col. F-17*

Manufacturer, Model, Etc. (optional but recommended) *Square "D" Model QMB 250VDC*

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☐
   Not applicable. See August 22, 2012, Seismic Walkdown Checklist and comment on page 3 on this checklist dated October 8, 2012.

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☐ N☐ U☐ N/A☒
   See August 22, 2012, Seismic Walkdown Checklist and comment on page 3 on this checklist dated October 8, 2012.

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☐ N☐ U☐ N/A☒
   See response to Question 2, above.

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☐ N☐ U☐ N/A☒
   See response to Question 2, above.

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☒
   See response to Question 2, above.

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☐ N☐ U☐
   Not applicable. See August 22, 2012, Seismic Walkdown Checklist and comment on page 3 on this checklist dated October 8, 2012.

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

Seismic Walkdown Checklist (SWC)

[Note: This Walkdown's scope was limited to cabinet internals per 9/18/12 NEI Focus Group response to Frequently Asked Questions.]

Equipment ID No. R3200S061A Equip. Class[1] *14-Distribution Panels & Automatic Transfer Switches*

Equipment Description *130V Distribution Panel 2PA 2-5*

Interaction Effects

7. Are soft targets free from impact by nearby equipment or structures? Y☐ N☐ U☐ N/A☒
   See August 22, 2012, Seismic Walkdown Checklist and comment on page 3 on this checklist dated October 8, 2012.

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☒
   See response to Question 7, above.

9. Do attached lines have adequate flexibility to avoid damage? Y☐ N☐ U☐ N/A☒
   See response to Question 7, above.

10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y☐ N☐ U☐
    Not applicable. See August 22, 2012, Seismic Walkdown Checklist and comment on page 3 on this checklist dated October 8, 2012.

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☐
    The door on the distribution panel was opened to permit evaluating the adequacy of fasteners securing components mounted inside. None of the components weighed more than five pounds, and all were well-secured. No adverse conditions were identified. For a close-up view, see Photo 1, attached.

Seismic Walkdown Checklist (SWC)

[Note: This Walkdown's scope was limited to cabinet internals per 9/18/12 NEI Focus Group response to Frequently Asked Questions.]

Equipment ID No. R3200S061A Equip. Class[1] *14-Distribution Panels & Automatic Transfer Switches*

Equipment Description *130V Distribution Panel 2PA 2-5*

Comments (Additional pages may be added as necessary)

Anchorage and Interaction Effects were evaluated during an August Walkdown and results reported in a Seismic Walkdown Checklist dated August 22, 2012. However, during the Walkdown, the door on the instrument panel was not opened to afford Seismic Walkdown Engineers an opportunity to inspect anchorage on components inside the panel. A September 18, 2012, NEI Focus Group response to Frequently Asked Questions about opening cabinet doors led to consider increasing the scope of the August 22 Walkdown. Therefore, the scope of this Walkdown included unlocking and opening the panel door and evaluating fasteners securing components mounted inside.

☒ *Seismic Engineer Walkdown PSE-53Qualified*

Evaluator #1 : _____ Date: 10/08/12

☒ *Seismic Engineer Walkdown PSE-53Qualified*

Evaluator #2 : Michael P. Bass Date: 10/08/12

Seismic Walkdown Pictures

Equipment ID. *R3200S061A* Eqmt Class: *14-Distribution Panels & Automatic Transfer Switches*

Equipment Description *X130V Distribtion Panel 2PA 2-5*

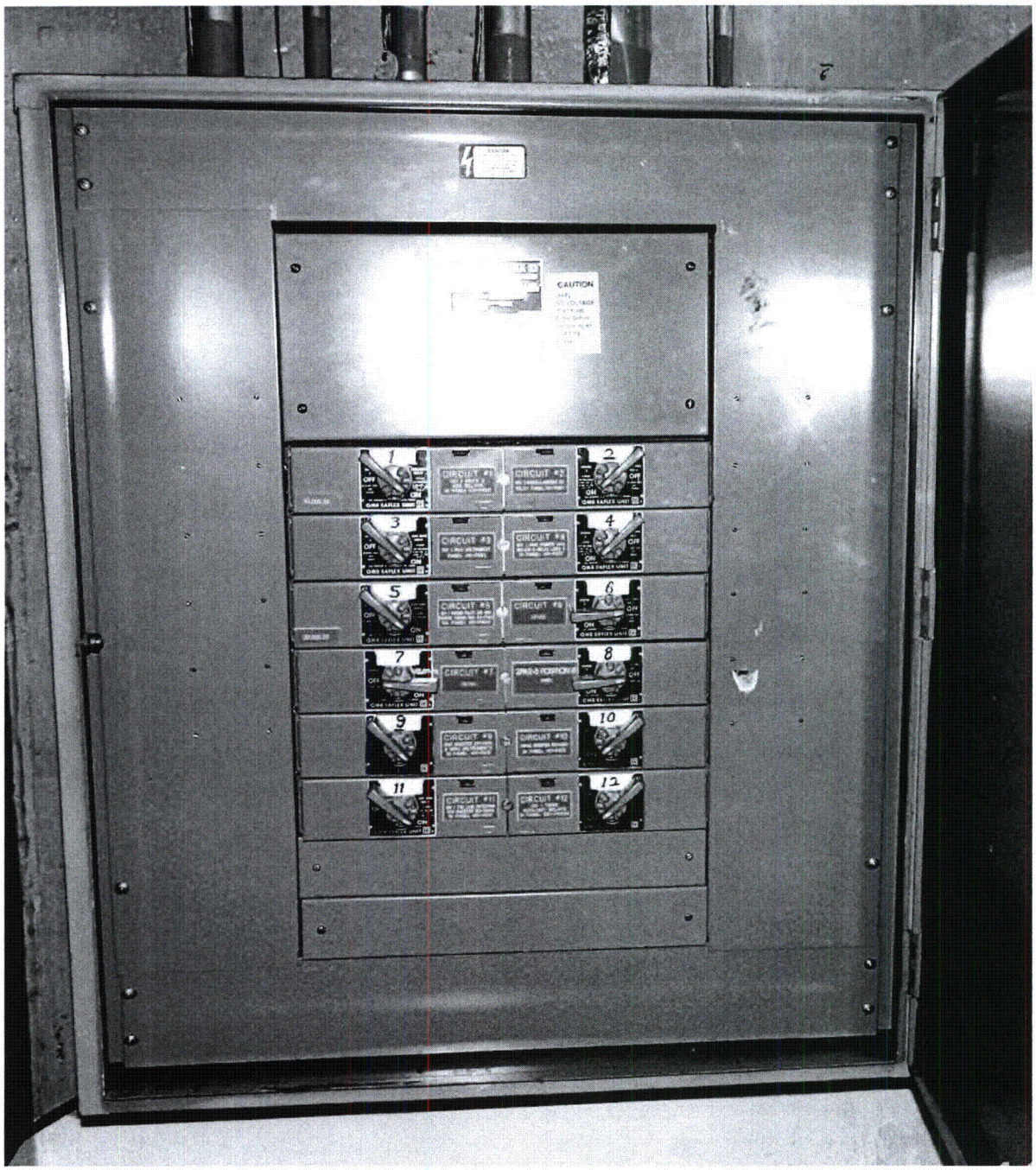


Photo 1, *Close-Up of Inside of Distribution Panel*

Seismic Walkdown Checklist (SWC)

Equipment ID No. *R3200S061B* Equip. Class[1] *14-Distribution Panels & Automatic Transfer Switches*

Equipment Description *130V Distribution Panel 2PA 2-6*

Location: Bldg. *AB2* Floor El. *613'-6"* Room, Area *Relay Room(B-11), Col. F-16*

Manufacturer, Model, Etc. (optional but recommended) *Square "D" Model QMB 250VDC*

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☐
   6 anchors directly to concrete wall, all visible.
   (SEE PICTURES DSCN0705 THRU DSCN0710) ~ DJK 10/11/12
2. Is the anchorage free of bent, broken, missing or loose hardware? Y☒ N☐ U☐ N/A☐
   All anchors installed.
   (SEE PICTURES DSCN0705 THRU DSCN0710) ~ DJK 10/11/12
3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☒ N☐ U☐ N/A☐
   All anchors are free from corrosion.
   (SEE PICTURES DSCN0705 THRU DSCN0710) ~ DJK 10/11/12
4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☒ N☐ U☐ N/A☐
   Concrete is in good condition – no significant cracks. Acceptable as is.
   (SEE PICTURES DSCN0705 THRU DSCN0710) ~ DJK 10/11/12
5. Is the anchorage configuration consistent with plant documentation? Y☒ N☐ U☐ N/A☐
   (Note: This question only applies if the item is one of the 50% for which anchorage configuration verification is required.)
   Installation conforms to dwg E-2832-11, REV. 0 (NO APPLICABLE POSTINGS) ~ DJK 10/12/12
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☒ N☐ U☐
   No adverse conditions observed.

JML

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

Seismic Walkdown Checklist (SWC)

Equipment ID No. *R3200S061B* Equip. Class[1] *14-Distribution Panels & Automatic Transfer Switches*

Equipment Description *130V Distribution Panel 2PA 2-6*

Interaction Effects

7. Are soft targets free from impact by nearby equipment or structures? Y☒ N☐ U☐ N/A☐
   Area is free of 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☐
   No ceiling tiles. Light hung on chains with redundant wire cable. Masonry walls are remote and seismically restrained. There is GAI-Tronic speaker mounted over top of the asset that does not appear to be seismically mounted. CARD 12-26630 was initiated to document this concern. (SEE PICTURE DSCN0072) ~ DSK 10/11/12

9. Do attached lines have adequate flexibility to avoid damage? Y☒ N☐ U☐ N/A☐
   Conduit and panel are mounted on the same concrete wall which reduced differential movement. Flex conduit have adequate flexible loops.

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☐
    None observed.

Note: Per NEI Focus Group response to Frequently Asked Questions (FAQ) dated September 18, 2012, a supplemental seismic walkdown was conducted on October 8, 2012 to open the panel and visually inspect inside. The supplemental SWC follows this SWC.

JAM 10/20/12

JMC

NJPR-12-0043

Status: (Y) N U

JML 10/04/2012

Seismic Walkdown Checklist (SWC)

Equipment ID No. R32000S061B Equip. Class[1] 14 - DISTRIBUTION PANEL & AUTOMATIC TRANSFER SWITCHES

Equipment Description 130V DISTRIBUTION PANEL 2PAP-6

Comments (Additional pages may be added as necessary)

GAYTRONICS SPEAKER ON WALL ABOVE THIS CABINET DOES NOT APPEAR TO BE SEISMICALLY MOUNTED. THIS CONCERN IS DOCUMENTED IN CARD # 12-26630.

☒ *Seismic Engineer Walkdown PSE-53Qualified*

Evaluator #1 : David G Dickerson Date: 8/22/2012.

☒ *Seismic Engineer Walkdown PSE-53Qualified*

Evaluator #2 : Joseph M Bevec Date: 08.22.2012

Seismic Walkdown Pictures

Equipment ID No. *R3200S061B* Equipment Class: *14-Distribution Panels & Automatic Transfer Switches*

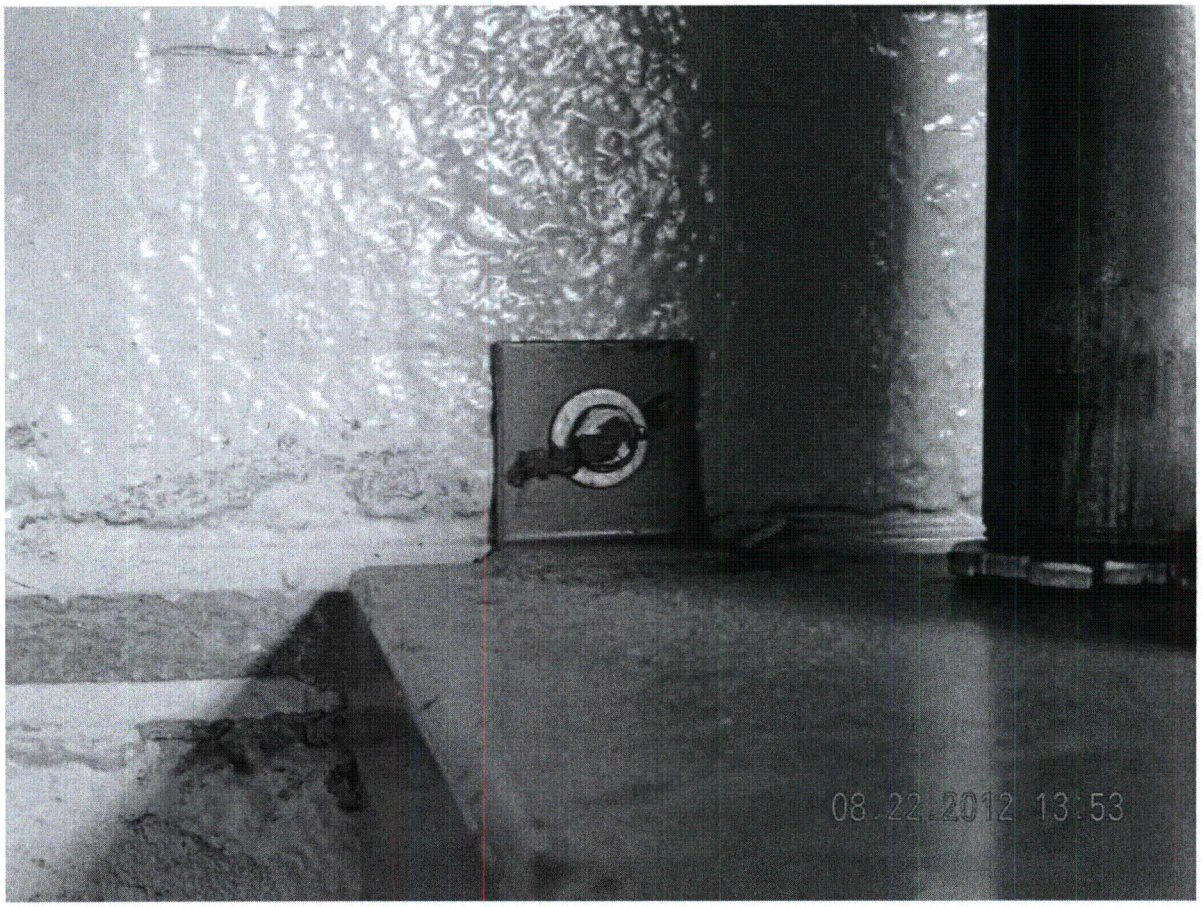
Equipment Description *130V Distribution Panel 2PA 2-6*

(DSCN0704)

Seismic Walkdown Pictures

Equipment ID No. *R3200S061B* Equipment Class: *14-Distribution Panels & Automatic Transfer Switches*

Equipment Description *130V Distribution Panel 2PA 2-6*

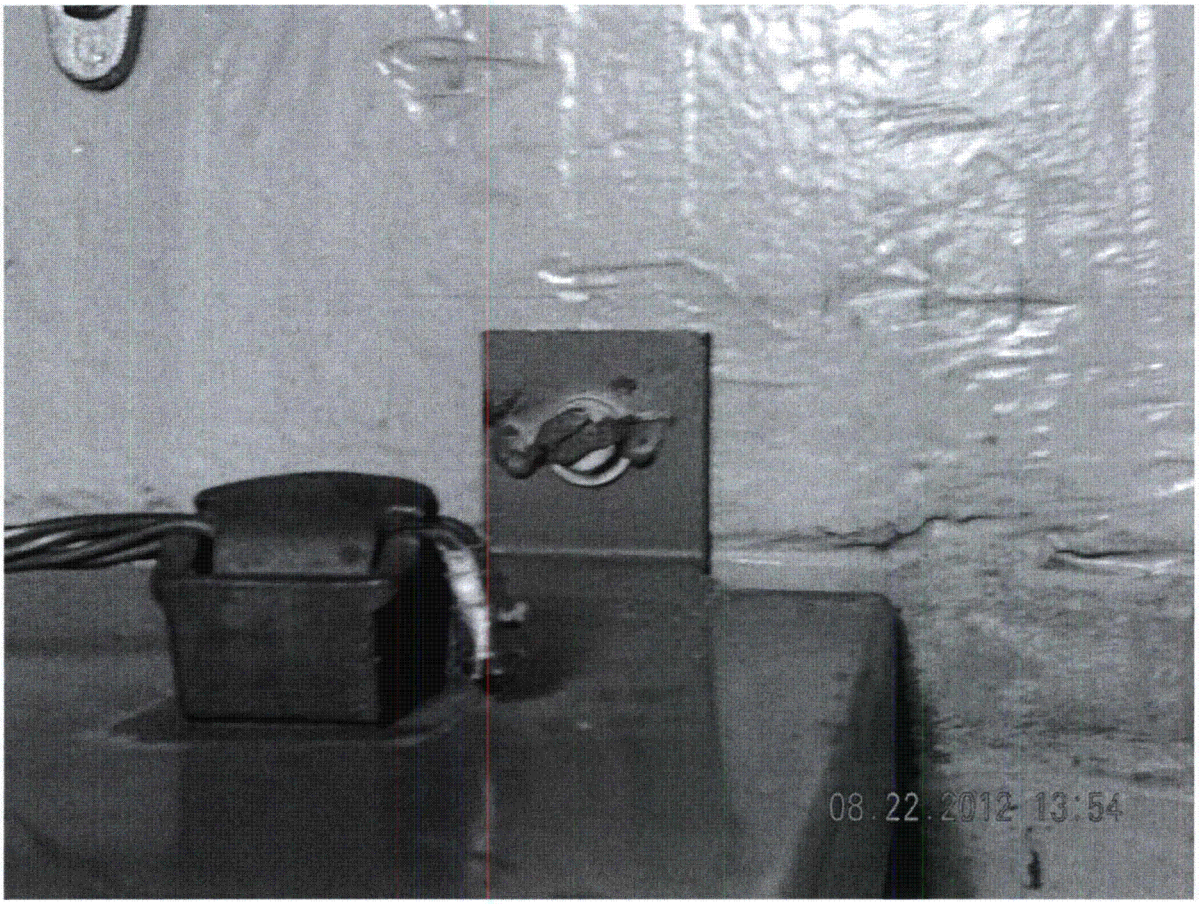


(DSCN0705)

Seismic Walkdown Pictures

Equipment ID No. *R3200S061B* Equipment Class: *14-Distribution Panels & Automatic Transfer Switches*

Equipment Description *130V Distribution Panel 2PA 2-6*

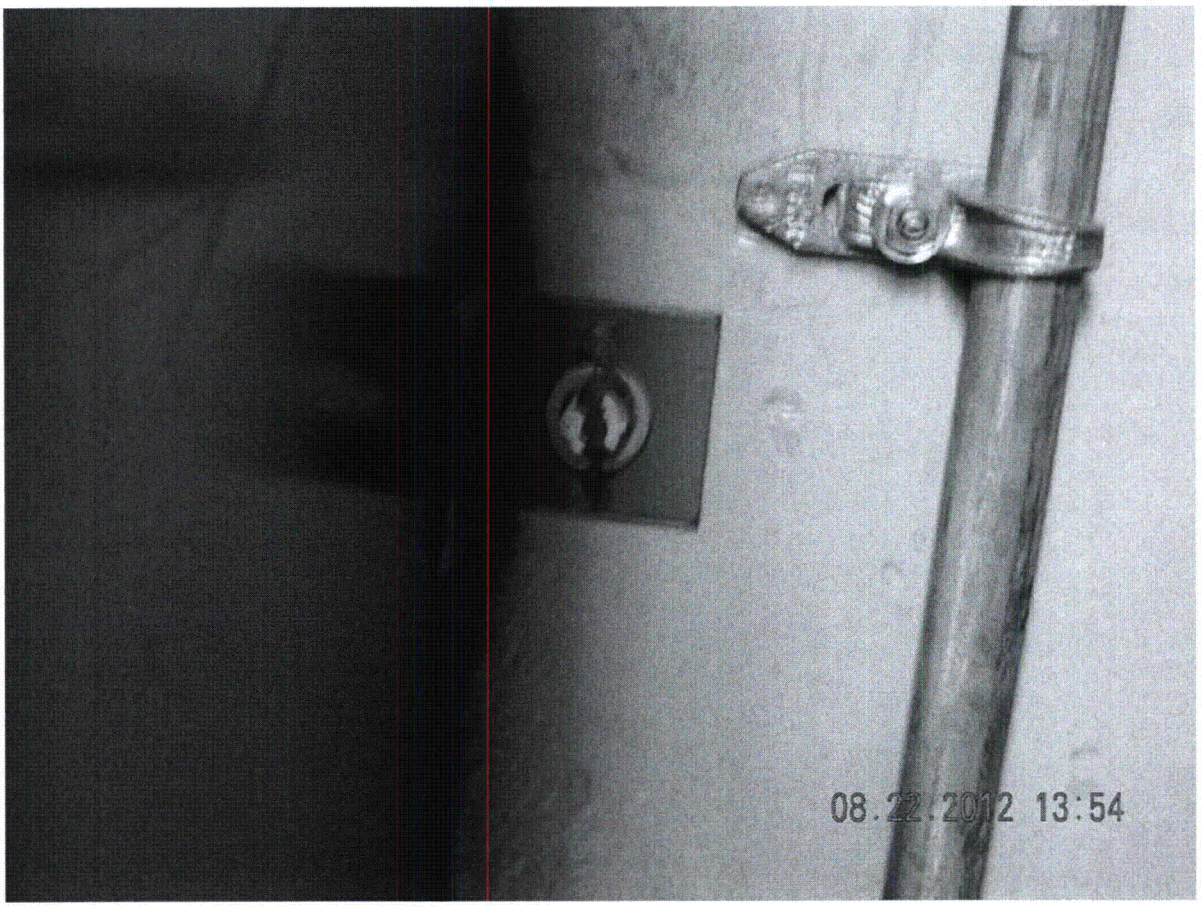


(DSCN0706)

Seismic Walkdown Pictures

Equipment ID No. *R3200S061B* Equipment Class: *14-Distribution Panels & Automatic Transfer Switches*

Equipment Description *130V Distribution Panel 2PA 2-6*

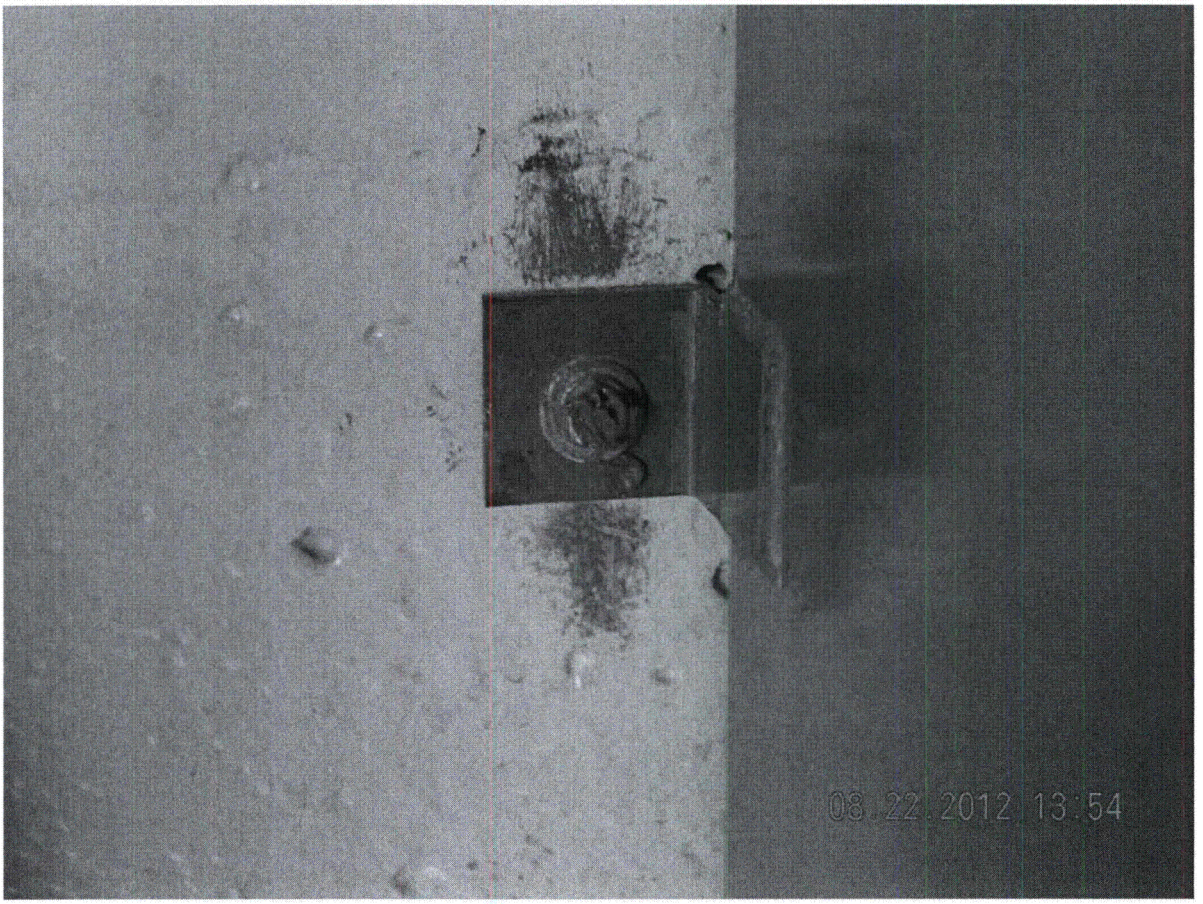


(DSCN0707)

Seismic Walkdown Pictures

Equipment ID No. *R3200S061B* Equipment Class: *14-Distribution Panels & Automatic Transfer Switches*

Equipment Description *130V Distribution Panel 2PA 2-6*

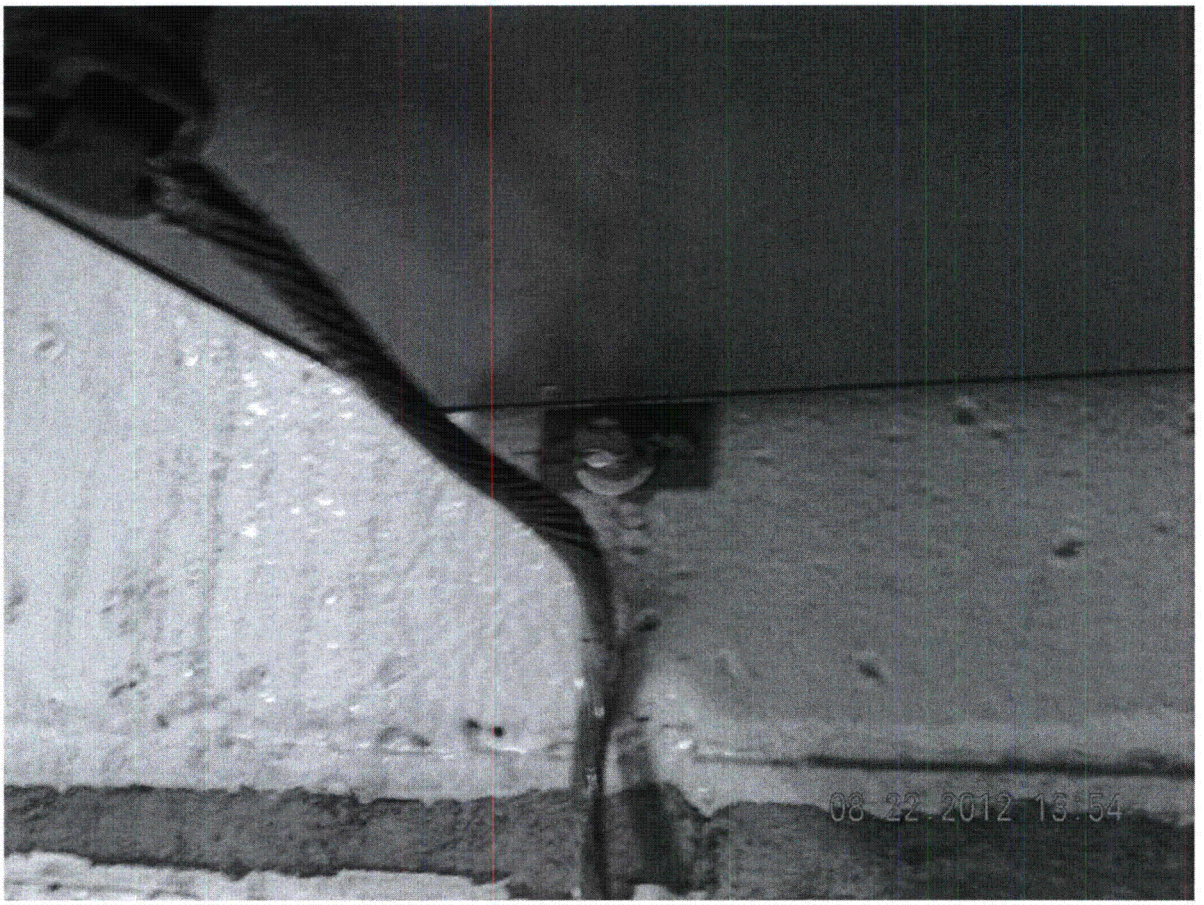


(DSCN0708)

Seismic Walkdown Pictures

Equipment ID No. *R3200S061B* Equipment Class: *14-Distribution Panels & Automatic Transfer Switches*

Equipment Description *130V Distribution Panel 2PA 2-6*



(DSCN0709)

Seismic Walkdown Pictures

Equipment ID No. *R3200S061B* Equipment Class: *14-Distribution Panels & Automatic Transfer Switches*

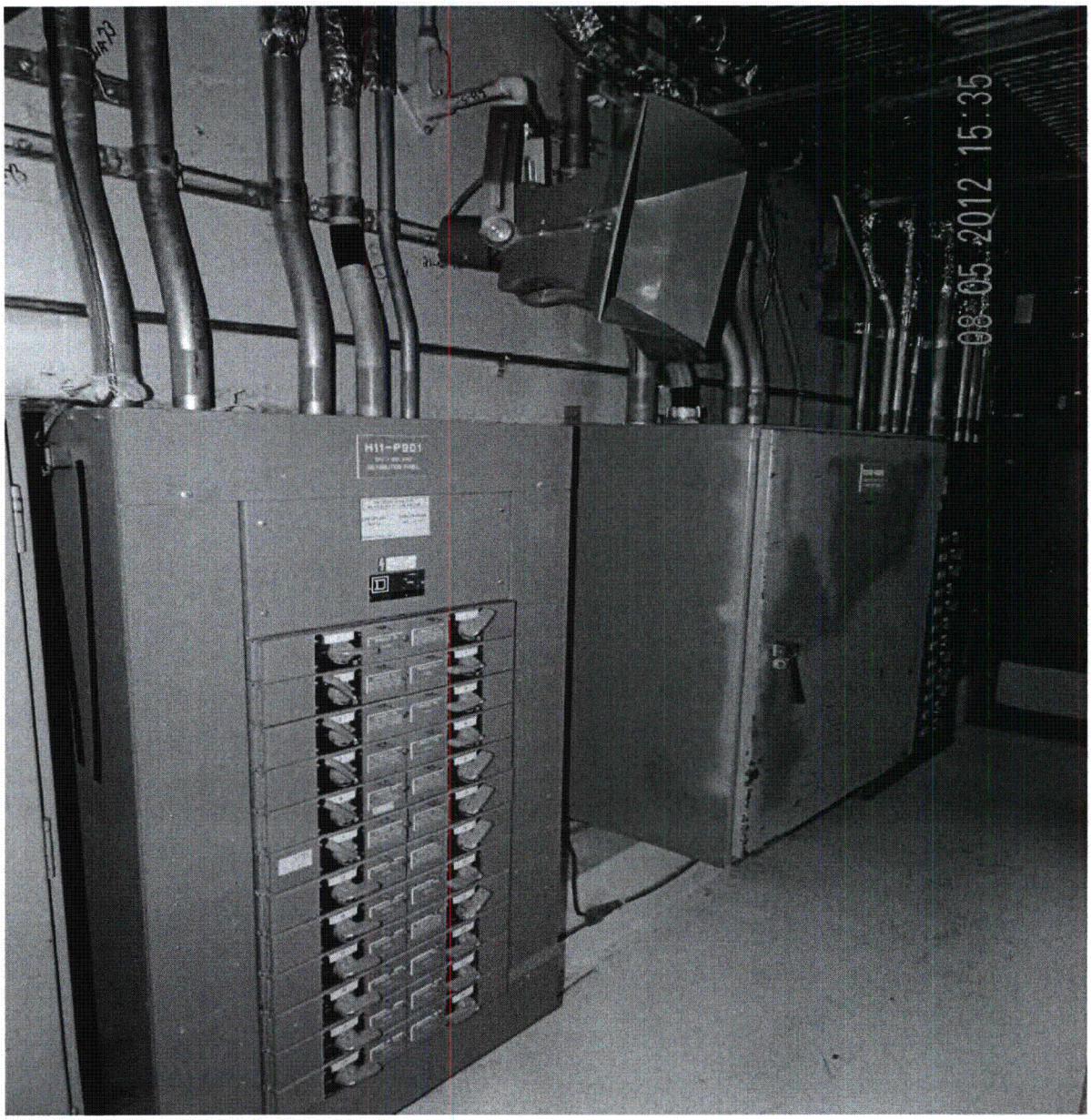
Equipment Description *130V Distribution Panel 2PA 2-6*

(DSCN0710)

Seismic Walkdown Pictures

Equipment ID No. *R3200S061B* Equipment Class: *14-Distribution Panels & Automatic Transfer Switches*

Equipment Description *130V Distribution Panel 2PA 2-6*



(DSCN0072)

NJPR-12-0043 Status: (Y) N U

Seismic Walkdown Checklist (SWC)

[Note: This Walkdown's scope was limited to cabinet internals per 9/18/12 NEI Focus Group response to Frequently Asked Questions.]

Equipment ID No. R3200S061B Equip. Class[1] *14-Distribution Panels & Automatic Transfer Switches*

Equipment Description *130V Distribution Panel 2PA 2-6*

Location: Bldg. *AB2* Floor El. *613'-6"* Room, Area *Relay Room (Rm B-11), Col. F-16*

Manufacturer, Model, Etc. (optional but recommended) *Square "D" Model QMB 250VDC*

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☐
   Not applicable. See August 22, 2012, Seismic Walkdown Checklist and comment on page 3 on this checklist dated October 8, 2012.

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☐ N☐ U☐ N/A☒
   See August 22, 2012, Seismic Walkdown Checklist and comment on page 3 on this checklist dated October 8, 2012.

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☐ N☐ U☐ N/A☒
   See response to Question 2, above.

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☐ N☐ U☐ N/A☒
   See response to Question 2, above.

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☒
   See response to Question 2, above.

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☐ N☐ U☐
   Not applicable. See August 22, 2012, Seismic Walkdown Checklist and comment on page 3 on this checklist dated October 8, 2012.

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

Seismic Walkdown Checklist (SWC)

[Note: This Walkdown's scope was limited to cabinet internals per 9/18/12 NEI Focus Group response to Frequently Asked Questions.]

Equipment ID No. R3200S061B Equip. Class[1] *14-Distribution Panels & Automatic Transfer Switches*

Equipment Description *130V Distribution Panel 2PA 2-6*

Interaction Effects

7. Are soft targets free from impact by nearby equipment or structures? Y☐ N☐ U☐ N/A☒
   See August 22, 2012, Seismic Walkdown Checklist and comment on page 3 on this checklist dated October 8, 2012.

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☒
   See response to Question 7, above.

9. Do attached lines have adequate flexibility to avoid damage? Y☐ N☐ U☐ N/A☒
   See response to Question 7, above.

10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y☐ N☐ U☐
    Not applicable. See August 22, 2012, Seismic Walkdown Checklist and comment on page 3 on this checklist dated October 8, 2012.

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☐
    The door on the distribution panel was opened to permit evaluating the adequacy of fasteners securing components mounted inside. Also, opened door on one of the panel's fused disconnect switches. All components were well secured. No adverse conditions were identified. See Photos 1 & 2, attached.

Seismic Walkdown Checklist (SWC)

[Note: This Walkdown's scope was limited to cabinet internals per 9/18/12 NEI Focus Group response to Frequently Asked Questions.]

Equipment ID No. R3200S061B Equip. Class[1] *14-Distribution Panels & Automatic Transfer Switches*

Equipment Description *130V Distribution Panel 2PA 2-6*

Comments (Additional pages may be added as necessary)

Anchorage and Interaction Effects were evaluated during an August Walkdown and results reported in a Seismic Walkdown Checklist dated August 22, 2012. However, during the Walkdown, the door on the instrument panel was not opened to afford Seismic Walkdown Engineers an opportunity to inspect anchorage on components inside the panel. A September 18, 2012, NEI Focus Group response to Frequently Asked Questions about opening cabinet doors led to consider increasing the scope of the August 22 Walkdown. Therefore, the scope of this Walkdown included unlocking and opening the panel door and evaluating fasteners securing components mounted inside.

☒ *Seismic Engineer Walkdown PSE-53Qualified*

Evaluator #1 : _____ Date: 10/08/12

☒ *Seismic Engineer Walkdown PSE-53Qualified*

Evaluator #2 : Michael P. Sasso Date: 10/08/12

Seismic Walkdown Pictures

Equipment ID. *R3200S061B* Eqmt Class: *14-Distribution Panels & Automatic Transfer Switches*

Equipment Description *X130V Distribtion Panel 2PA 2-6*

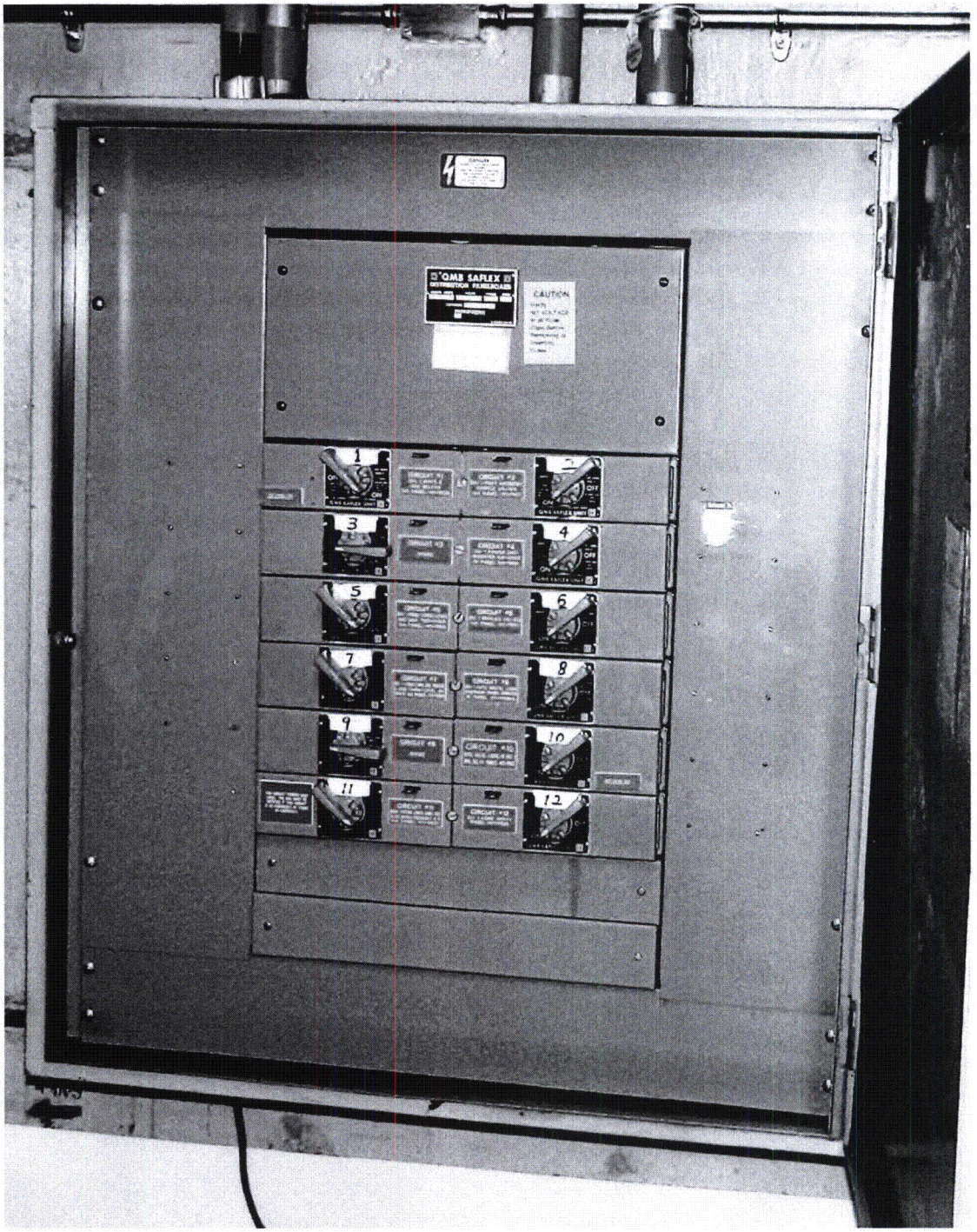


Photo 1, *Close-Up of Inside of Panel*

Seismic Walkdown Pictures

Equipment ID. *R3200S061B* Eqmt Class: *14-Distribution Panels & Automatic Transfer Switches*

Equipment Description *X130V Distribtion Panel 2PA 2-6*

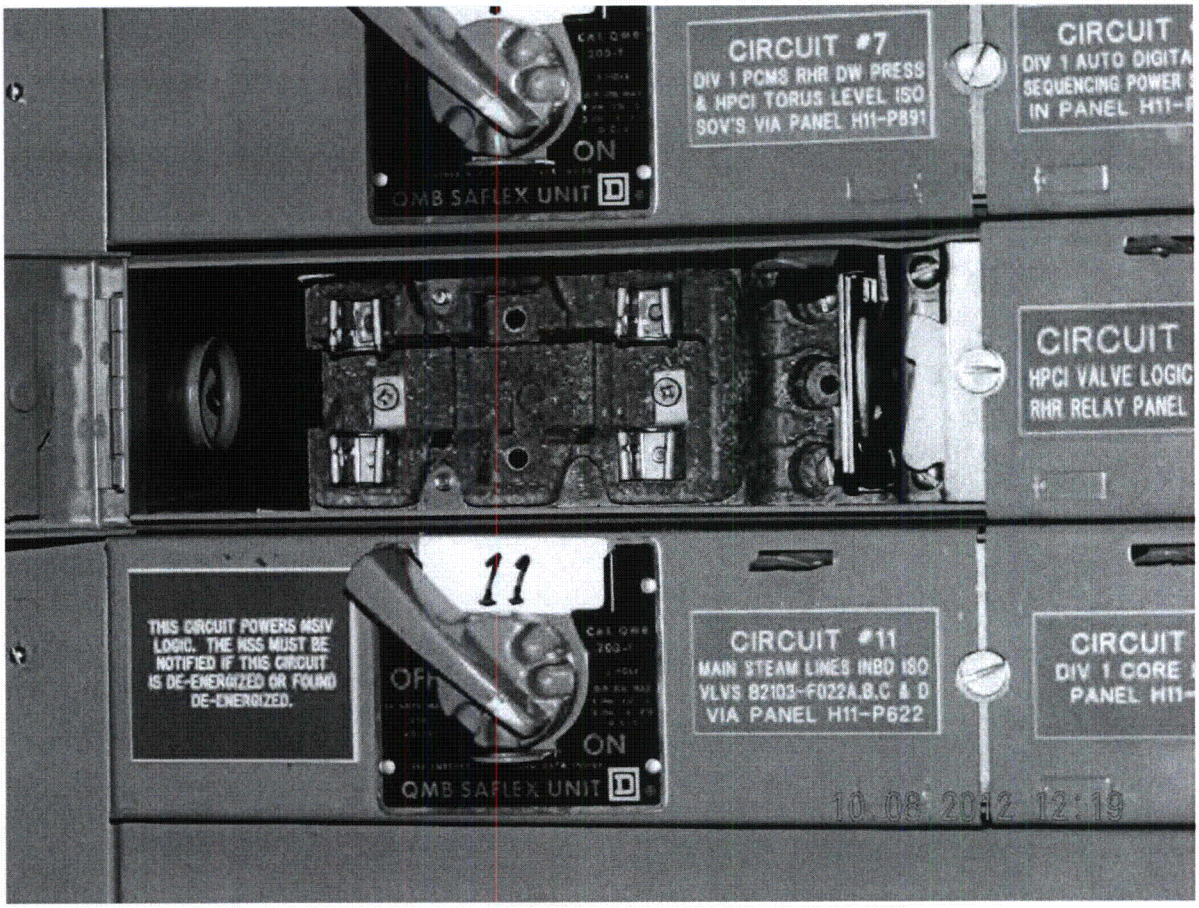


Photo 2, *Close-Up View of Fused Disconnect Switch*

NJPR-12-0043

Status: (Y) N U

Seismic Walkdown Checklist (SWC)

Equipment ID No. *R3200S062* Equip. Class[1] *14, Distribution Panels and Automatic Transfer Switches*

Equipment Description *DC Switchgear Room 130V Dist. Cabinet 2PA 2-14*

Location: Bldg. *AB* Floor El. *613'-06"* Room, Area *Switchgear Room(B-11) Col. H-11*

Manufacturer, Model, Etc. (optional but recommended) *Square "D" Model QMB*

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☐
   All anchors visible.
   (SEE PICTURES DSCN0333 THRU DSCN0336) ~ DJK 10/11/12

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☒ N☐ U☐ N/A☐
   All anchors are free of bent, broken, missing or loose hardware.
   (SEE PICTURES DSCN0333 THRU DSCN0336) ~ DJK 10/11/12

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☒ N☐ U☐ N/A☐
   All anchors are free from corrosion.
   (SEE PICTURES DSCN0333 THRU DSCN0336) ~ DJK 10/11/12

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☒ N☐ U☐ N/A☐
   Concrete is in good condition.
   (SEE PICTURES DSCN0333 THRU DSCN0336) ~ DJK 10/11/12

5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which anchorage configuration verification is required.) Y☒ N☐ U☐ N/A☐
   Verified anchorage conforms to TSR-27874 Rev. 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 Appendix B: Classes of Equipment

JMC

Seismic Walkdown Checklist (SWC)

Equipment ID No. *R3200S062* Equip. Class[1] *14, Distribution Panels and Automatic Transfer Switches*

Equipment Description *DC Switchgear Room 130V Dist. Cabinet 2PA 2-14*

Interaction Effects

7. Are soft targets free from impact by nearby equipment or structures? Y☒ N☐ U☐ N/A☐
   Area is free of 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☐
   Lights on cable and wire. Cable tray seismically supported

9. Do attached lines have adequate flexibility to avoid damage? Y☒ N☐ U☐ N/A☐
   Lines are in hard conduit with bend.

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☐
    None observed.

JML

Seismic Walkdown Checklist (SWC)

Equipment ID No. R32005062 Equip. Class[1] 14 - DISTRIBUTION PANELS

Equipment Description DC SWITCHGEAR ROOM 130V DIST. CABINET 2PA2-14

Comments (Additional pages may be added as necessary)

Note: Per NEI Focus Group response to Frequently Asked Questions (FAQ) dated September 18, 2012, a supplemental seismic walkdown was conducted on October 8, 2012 to open the panel and visually inspect inside. The Supplemental SWC follows this SWC.

JAM 10/22/12

☒ *Seismic Engineer Walkdown PSE-53Qualified*

Evaluator #1 : David G Dickinson Date: 08/14/2012

☒ *Seismic Engineer Walkdown PSE-53Qualified*

Evaluator #2 : Joseph M DeVere Date: 08/14/2012

Seismic Walkdown Pictures

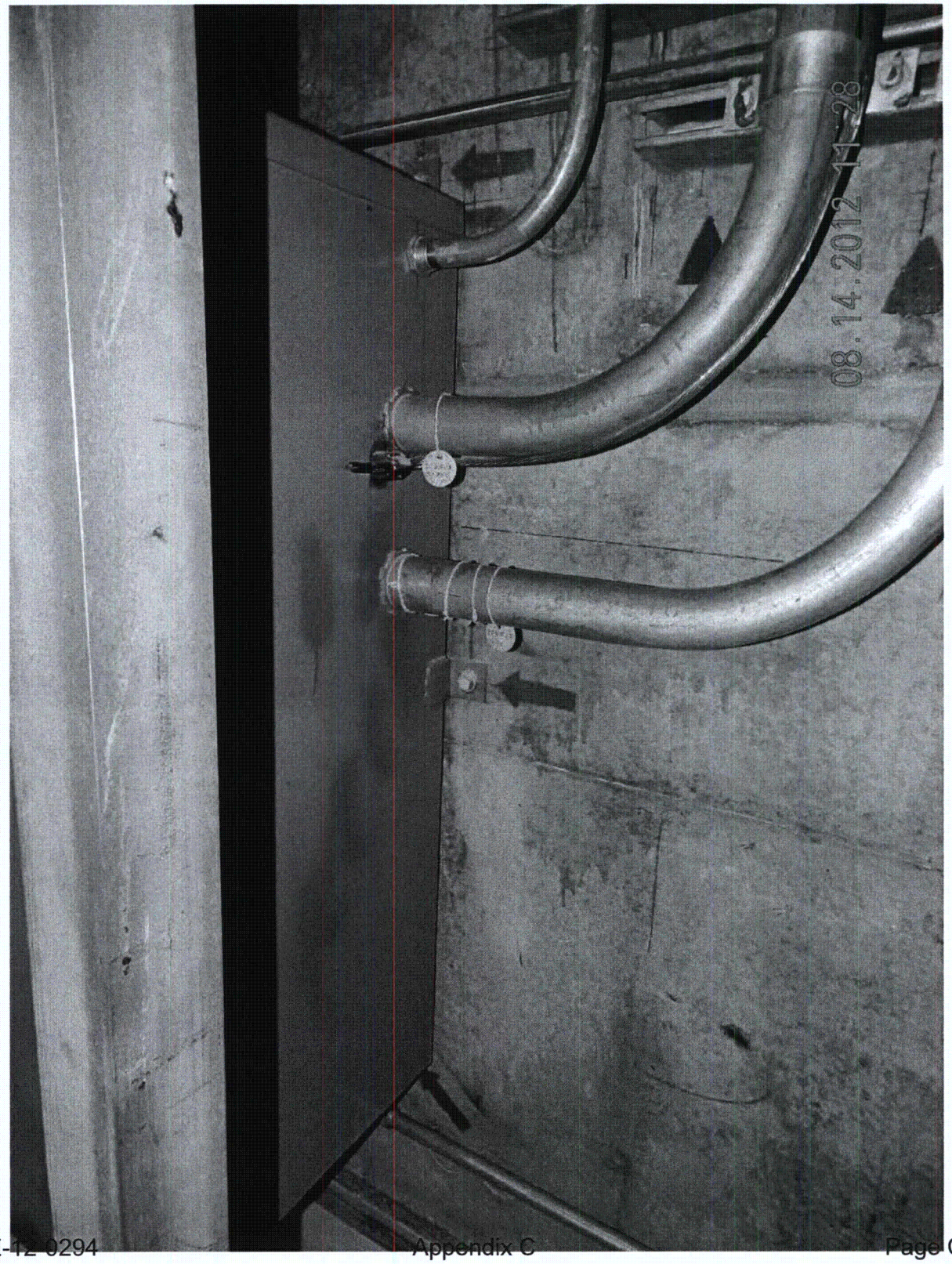
Equipment ID No. *R3200S062* Equipment Class: *14, Distribution Panels and Automatic Transfer Switches*

Equipment Description *DC Switchgear Room 130V Dist. Cabinet 2PA 2-14*

Seismic Walkdown Pictures

Equipment ID No. *R3200S062* Equipment Class: *14, Distribution Panels and Automatic Transfer Switches*

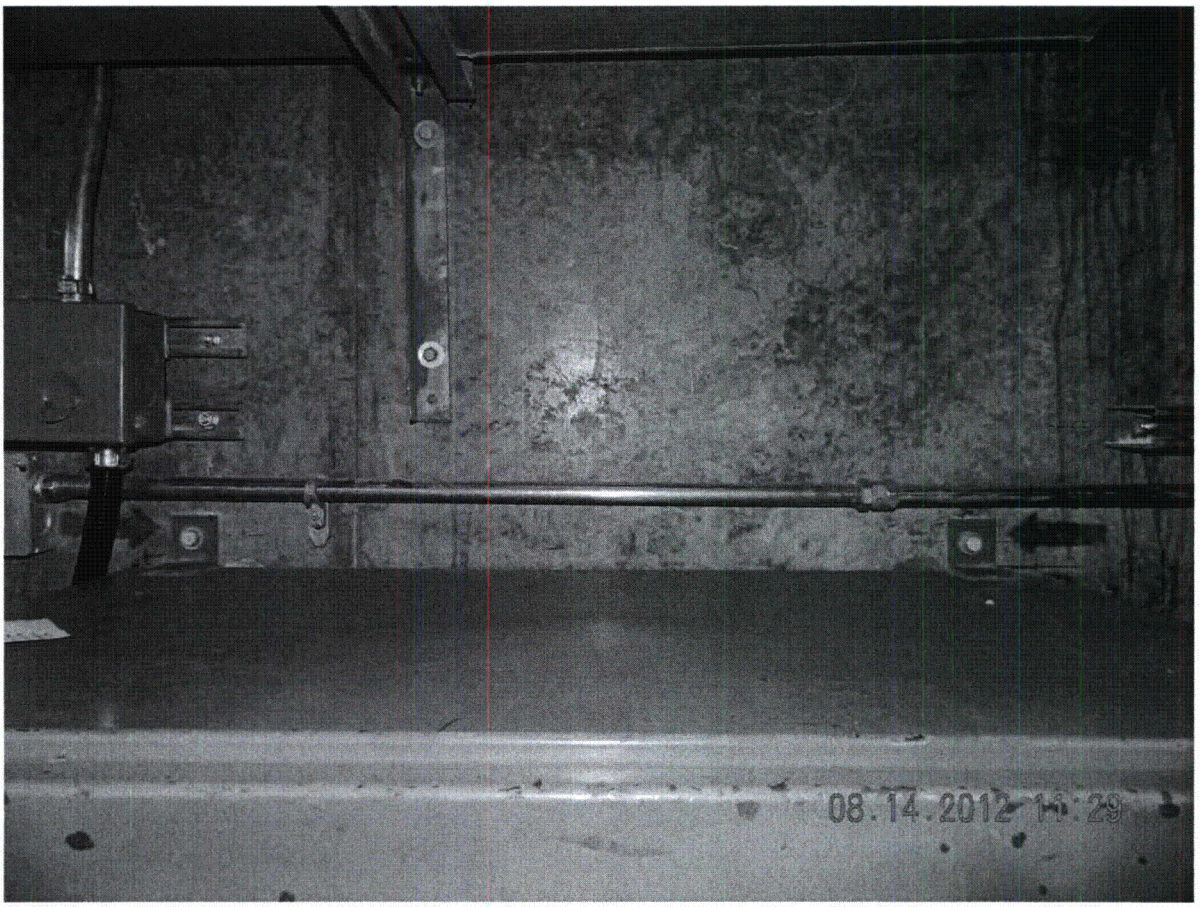
Equipment Description *DC Switchgear Room 130V Dist. Cabinet 2PA 2-14*



Seismic Walkdown Pictures

Equipment ID No. *R3200S062* Equipment Class: *14, Distribution Panels and Automatic Transfer Switches*

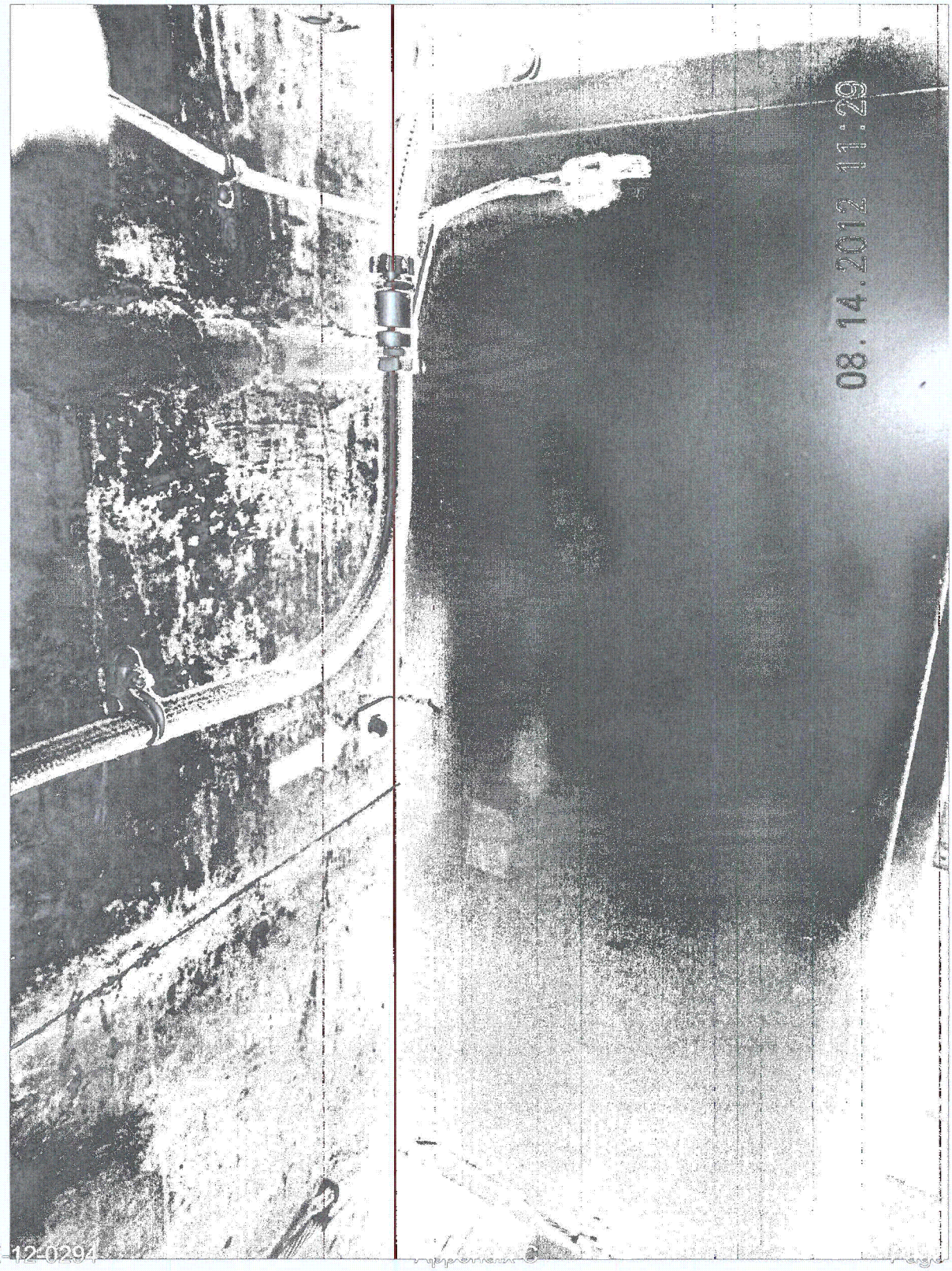
Equipment Description *DC Switchgear Room 130V Dist. Cabinet 2PA 2-14*



Seismic Walkdown Pictures

Equipment ID No. *R3200S062* Equipment Class: *14. Distribution Panels and Automatic Transfer Switches*

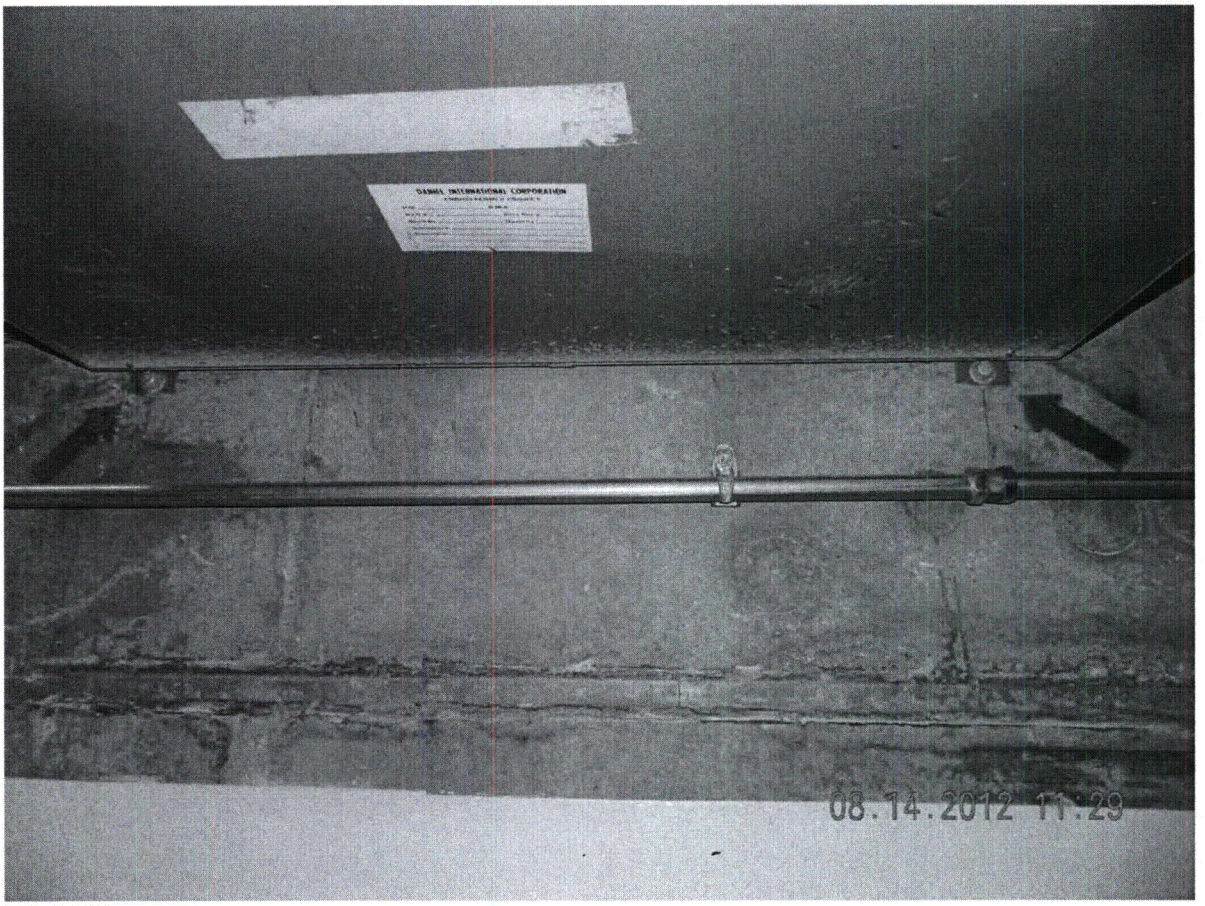
Equipment Description *DC Switchgear Room 130V Dist. Cabinet 2PA 2-14*



Seismic Walkdown Pictures

Equipment ID No. *R3200S062* Equipment Class: *14, Distribution Panels and Automatic Transfer Switches*

Equipment Description *DC Switchgear Room 130V Dist. Cabinet 2PA 2-14*



NJPR-12-0043

Status: (Y), N U

Seismic Walkdown Checklist (SWC)

[Note: This Walkdown's scope was limited to cabinet internals per 9/18/12 NEI Focus Group response to Frequently Asked Questions.]

Equipment ID No. R3200S062 Equip. Class[1] *14-Distribution Panels & Automatic Transfer Switches*

Equipment Description *DC Switchgear Room 130V Dist. Cabinet 2PA 2-14*

Location: Bldg. *AB2* Floor El. *613'-6"* Room, Area *Switchgear Room (Rm B-11), Col. H-11*

Manufacturer, Model, Etc. (optional but recommended) *Square "D" Model QMB*

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☐
   Not applicable. See August 14, 2012, Seismic Walkdown Checklist and comment on page 3 on this checklist dated October 8, 2012.

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☐ N☐ U☐ N/A☒
   See August 14, 2012, Seismic Walkdown Checklist and comment on page 3 on this checklist dated October 8, 2012.

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☐ N☐ U☐ N/A☒
   See response to Question 2, above.

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☐ N☐ U☐ N/A☒
   See response to Question 2, above.

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☒
   See response to Question 2, above.

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☐ N☐ U☐
   Not applicable. See August 14, 2012, Seismic Walkdown Checklist and comment on page 3 on this checklist dated October 8, 2012.

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

Seismic Walkdown Checklist (SWC)

[Note: This Walkdown's scope was limited to cabinet internals per 9/18/12 NEI Focus Group response to Frequently Asked Questions.]

Equipment ID No. R3200S062 Equip. Class[1] *14-Distribution Panels & Automatic Transfer Switches*

Equipment Description *DC Switchgear Room 130V Dist. Cabinet 2PA 2-14*

Interaction Effects

7. Are soft targets free from impact by nearby equipment or structures? Y☐ N☐ U☐ N/A☒
   See August 14, 2012, Seismic Walkdown Checklist and comment on page 3 on this checklist dated October 8, 2012.

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☒
   See response to Question 7, above.

9. Do attached lines have adequate flexibility to avoid damage? Y☐ N☐ U☐ N/A☒
   See response to Question 7, above.

10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y☐ N☐ U☐
    Not applicable. See August 14, 2012, Seismic Walkdown Checklist and comment on page 3 on this checklist dated October 8, 2012.

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☐
    The door on the distribution panel was opened to permit evaluating the adequacy of fasteners securing components mounted inside. None of the components weighed more than five pounds. No adverse conditions were identified. See Photo 1, attached.

Seismic Walkdown Checklist (SWC)

[Note: This Walkdown's scope was limited to cabinet internals per 9/18/12 NEI Focus Group response to Frequently Asked Questions.]

Equipment ID No. R3200S062 Equip. Class[1] *14-Distribution Panels & Automatic Transfer Switches*

Equipment Description *DC Switchgear Room 130V Dist. Cabinet 2PA 2-14*

Comments (Additional pages may be added as necessary)

Anchorage and Interaction Effects were evaluated during an August Walkdown and results reported in a Seismic Walkdown Checklist dated August 14, 2012. However, during the Walkdown, the door on the instrument panel was not opened to afford Seismic Walkdown Engineers an opportunity to inspect anchorage on components inside the panel. A September 18, 2012, NEI Focus Group response to Frequently Asked Questions about opening cabinet doors led to consider increasing the scope of the August 14 Walkdown. Therefore, the scope of this Walkdown included unlocking and opening the panel door and evaluating fasteners securing components mounted inside.

☒ *Seismic Engineer Walkdown PSE-53Qualified*

Evaluator #1 : _____ Date: 10/08/12

☒ *Seismic Engineer Walkdown PSE-53Qualified*

Evaluator #2 : Michael P. Lasso Date: 10/08/12

Seismic Walkdown Pictures

Equipment ID. *R3200S062* Eqmt Class: *14, Distribution Panels & Automatic Transferr Switches*

Equipment Description *DC Switchgear Room 130V Dist. Cabinet 2PA 2-14*

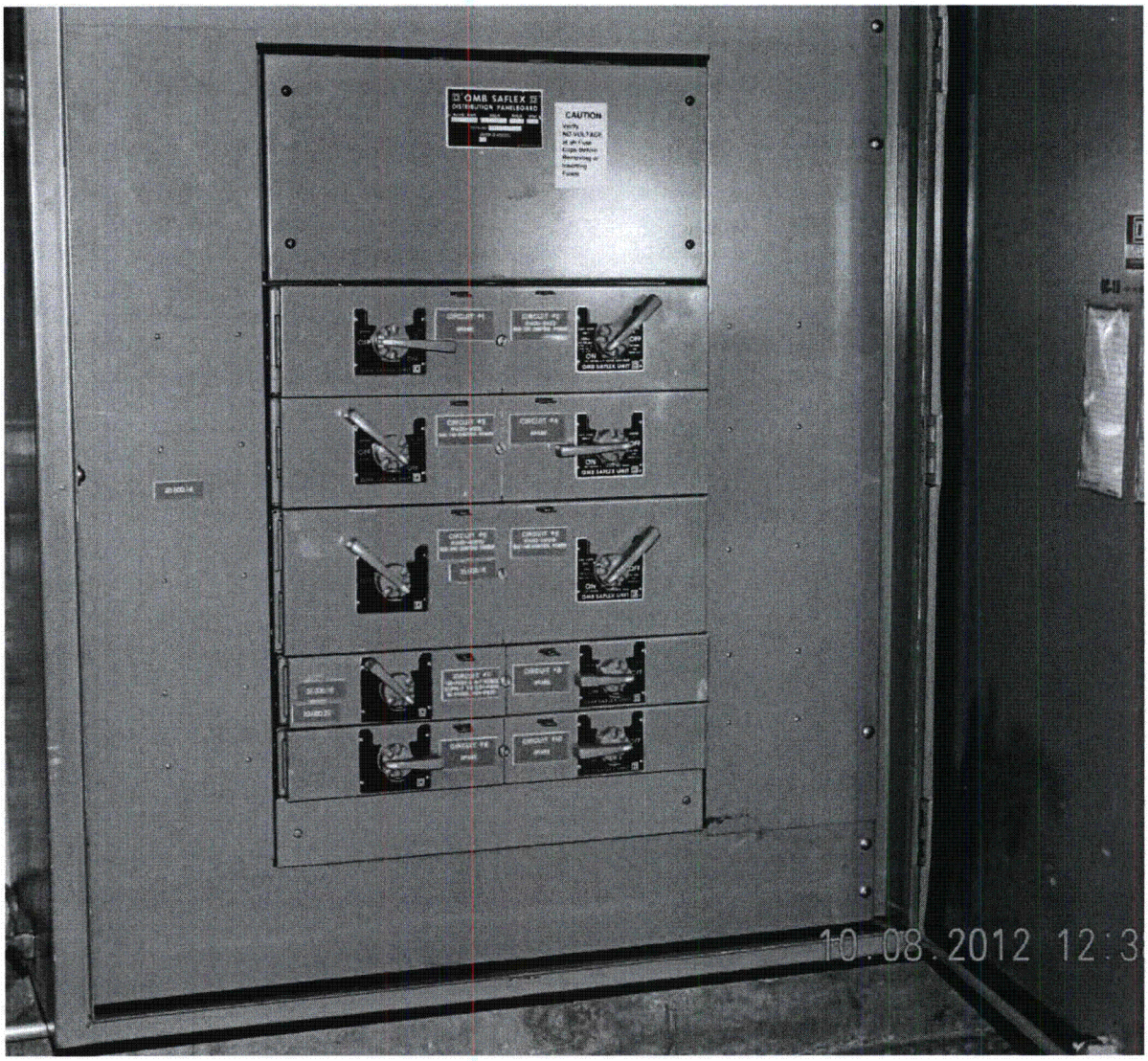


Photo 1, *Close-Up View of Inside of Panel*