C

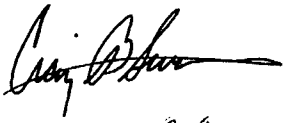
Seismic Walkdown Checklists (SWCs)

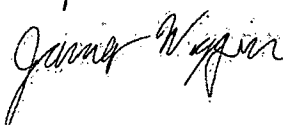
Below are the names and signatures of the personnel who performed the seismic walkdowns.

Ben Frazier 

Kevin Gantz 

Mojtaba Oghbaei 

Craig Swanner 

James Wiggin 

The order of the Seismic Walkdown Checklists (SWCs) for Unit 2 is shown in Table C-1 below and the order of the SWCs for Unit 0 (common) is shown in Table C-2.

The "Anchorage Configuration Confirmation" column is described in Section 5.2.1 of this report. The last column in Tables C-1 and C-2 provides the corresponding Area Walk-By Checklist (AWC). (AWCs are included in Appendix D of this report.) AWC identifiers with asterisks (*) indicate the second or subsequent SWEL item included with a specific Area Walk-By.

Table C-1. Unit 2 Seismic Walkdown Checklists (SWCs)

Component ID	Description	Anchor Configuration Confirmed?	AWC-Ux-YY
20A016	Emergency 4kV Aux Switchgear (E22)	N	U2-30*
20A015	Emergency 4kV Aux Switchgear (E12)	N	U2-9*
20B037	Reactor Area MCC E224-R-B	N	U2-29
20B060	Turbine Area MCC E224-T-B	Y	U2-30
20B324	MO-2-23-015 Motor Control Power Transfer Switch	Y	U2-28
20B325	RCIC INBD Iso. Valve MO2-13-15 Motor Controls	Y	U2-28*
20B338	Remote Motor Starter MO-2-10-16D	Y	U2-28*
20C003	Reactor and Containment Cooling and Isolation	Y	U0-7*
20C004C	RCIC Control Panel	Y	U0-7*
20C005A	Reactor Manual Control Panel	Y	U0-7
20C006C	Main Control Room Console	Y	U0-7*
20C39	HPCI Relay Cabinet	Y	U2-2*
20C722A	Accident Monitoring Instrumentation Panel	Y	U2-2
20C87	HPCI Instrument Rack	N	U2-11
20C95	RCIC Instrument Rack	N	U2-11*
20D37	Static Inverter	N	U2-12
20D43	HPCI Aux Lube Oil Pump Starter	N	U2-27*
20E105	HPCI Turbine Lube Oil Cooler	N	U2-27*
20P033, 20P038	HPCI Booster Pump, Pump	Y	U2-27
20P036 & 20S038	RCIC Pump & Turbine	Y	U2-16
20S037	HPCI Turbine	Y	U2-27*
20X032	Reactor Area Load Center E324 Transformer	N	U2-31
20X033	Load Center E424 Transformer	N	U2-7*
20X133	Panel 20Y33 Transformer	N	U2-9
20X30	Load Center Transformer E124	N	U2-7
20Y050	120V AC Distribution Panel 2C	N	U2-1
20Y35	120V AC Distribution Panel 2C	N	U2-3
2AC65	RX Vessel Level and Pressure Instrument Rack A	Y	U2-5*
2AD01	125V DC Battery 2A	Y	U2-15
2AD025	125V DC Distribution Panel	N	U2-2*
2AD03	Battery Charger 2A	Y	U2-23
2AV060	HPSW Pump Room Supply Fan A	N	U2-18
2BC270	Steam B Leak Monitor Cabinet	N	U0-6*
2BC65	RX Vessel Level and Pressure Instrument Rack B	Y	U2-5*
2BD01	125V DC Battery 2B	Y	U2-14
2BE24	RHR Heat Exchanger B	N	U2-20*

Table C-1. Unit 2 Seismic Walkdown Checklists (SWCs)

Component ID	Description	Anchor Configuration Confirmed?	AWC-Ux-YY
2BE55	RCIC Pump Room Cooling Coil B	Y	U2-16*
2BE56	HPCI Pump Room Cooling Coil B	Y	U2-27*
2BP037	Core Spray Pump B	Y	U2-10*
2BS377	Back-up N2 Supply to ADS	Y	U2-4*
2CP042	High Pressure Service Water Pump C	Y	U2-18*
2DD03	Battery Charger 2D	Y	U2-13
2DE24	RHR Heat Exchanger D	N	U2-19*
2DP035	RHR Pump D	Y	U2-19
2EE57	Core Spray Room B Cooling Coil E	Y	U2-10*
2FE57	Core Spray Room B Cooling Coil	Y	U2-10*
2GE58	RHR Room D Cooling Coil G	Y	U2-17
2GT545	Instrument N2 Accumulator	Y	U2-26*
2KT545	Instrument N2 Accumulator	Y	U2-26*
A02-03-033	Scram Discharge Volume Outboard Isolation Valve	N/A	U2-4*
A02-03-036	Scram Discharge Volume Inboard Isolation Valve	N/A	U2-4*
AO2-01-080A	Inboard Main Steam Isolation Valve A	N/A	U2-25*
AO2-01-080B	Inboard Main Steam Isolation Valve B	N/A	U2-25*
AO2-01-086A	Outboard Main Steam Isolation Valve A	N/A	U2-24
DPS20224-4	HPSW Pump Room DP Sensor	N	U2-18*
H02-23C-4513	HPCI Turbine Stop Valve	N/A	U2-27*
HCU-30-23	Hydraulic Control Unit	Y	U2-6
LI2-2-3-113	Reactor Water Level	N	U0-7*
LI2-3-86	Reactor Vessel High Water	N	U0-7*
LI-8027	Torus Water Level	N	U0-7*
LR/TR-8123B	Torus Water Level/Temperature Recorder	N	U0-7*
LS2-23-91B	Suppression Pool Level Switch	N	U2-10
LT-8123A	Torus Water Level Transmitter for LR-8123A	N	U2-10*
MO2-06-029B	Feedwater Stop Valve	N/A	U2-26*
MO2-10-013D	RHR Pump D Torus Suction	N/A	U2-19*
MO2-10-015B	RHR Pump B Shutdown Cooling Suction (2BP035)	N/A	U2-21
MO2-10-018	RHR Shutdown Cooling Suction Inboard Isolation Valve	N/A	U2-25
MO2-10-174	HPSW to RHR Emergency Inner Cross-tie	N/A	U2-20
MO2-23-014	HPCI Turbine Steam Supply Valve	N/A	U2-27*
MO2-30-2233A	Unit 2 Sluice Gate A	Y	U2-22
MO-2-32-2486	HPSW Return Valve to Discharge Pond	N/A	U0-1*
MO2-48-2804A	HPSW Discharge Inlet Outer Valve	N/A	U0-5

Table C-1. Unit 2 Seismic Walkdown Checklists (SWCs)

Component ID	Description	Anchor Configuration Confirmed?	AWC-Ux-YY
P0D-2-40H-20223-3	HPSW Pump Room Outside Air Supply Damper	N	U2-18*
P0D-2-40H-20223-4	HPSW Pump Room Exhaust Return to Room Damper	N	U2-18*
PT2-2-3-404A	Reactor Pressure Transmitter	Y	U2-5
PT-2508A	Containment Drywell Pressure Transmitter for PR-2508	N	U2-8
PT2-06-53-B	Reactor Wide Range Pressure Transmitter	Y	U2-5*
RV2-02-071G	Safety Relief Valve G	N/A	U2-26*
RV2-02-071K	Safety Relief Valve K	N/A	U2-26
SV2-23A-4543	HPCI Turbine Stop Valve Remote Trip Valve	N/A	U2-27*
SV-2-3-33	Instrument Air Solenoid Valve	N	U2-4*
SV-2-3-36	Instrument Air Solenoid Valve	N	U2-4
TS-20224-01	HPSW & ESW Equipment Room TS	N	U2-18*
TS-20224-02	HPSW & ESW Pump Room	N	U2-18*

Seismic Walkdown Checklist (SWC)

Equipment ID No. E22 Equip. Class[12] (03) Medium Voltage Switchgear

Equipment Description (20A016) Emergency Aux Switchgear

Location: Bldg. Turbine Bldg Floor El. 135 Room, Area T271

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☐
   Anchorage in good condition

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☐

[12] Enter the equipment class name from **Appendix B:** Classes of Equipment.

Equipment ID No. E22 Equip. Class[12] (03) Medium Voltage Switchgear

Equipment Description (20A016) Emergency Aux Switchgear

Interaction Effects

7. Are soft targets free from impact by nearby equipment or structures? YES☒ NO☐ U☐ N/A☐

   No soft targets identified

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? YES☒ NO☐ U☐ N/A☐

   Need to verify masonry walls are reinforced. per Dwg. S40, Rev. 26 and Spec. M-701, Rev 4, block walls are safety related.

9. Do attached lines have adequate flexibility to avoid damage? YES☒ NO☐ U☐ N/A☐

10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? YES☒ NO☐ U☐

Other Adverse Conditions

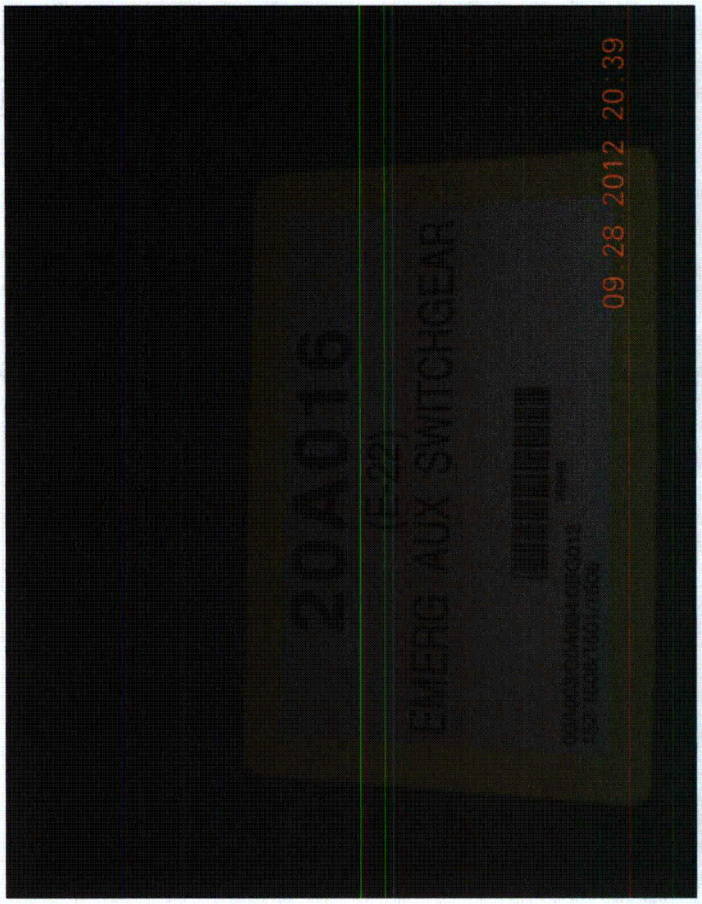
11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? YES☒ NO☐ U☐

Comments (Additional pages may be added as necessary)

IEEE – Panel door latching adequately secured. MC 10/10/2012

Evaluated by: [signature] Date: 10/8/12

[signature] 10/8/12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EMERG AUX SWITCHGEAR
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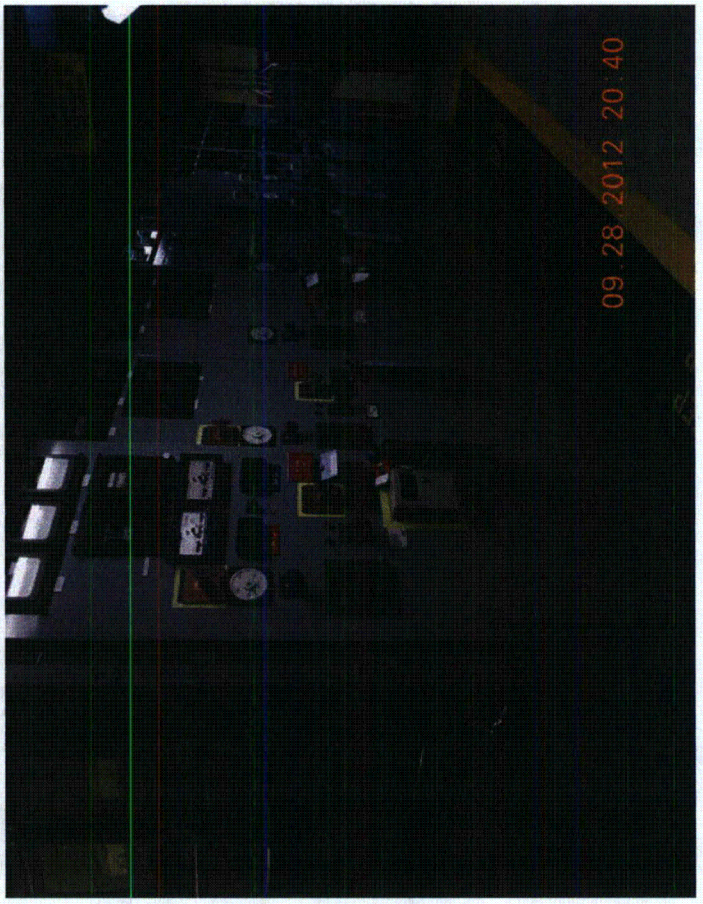
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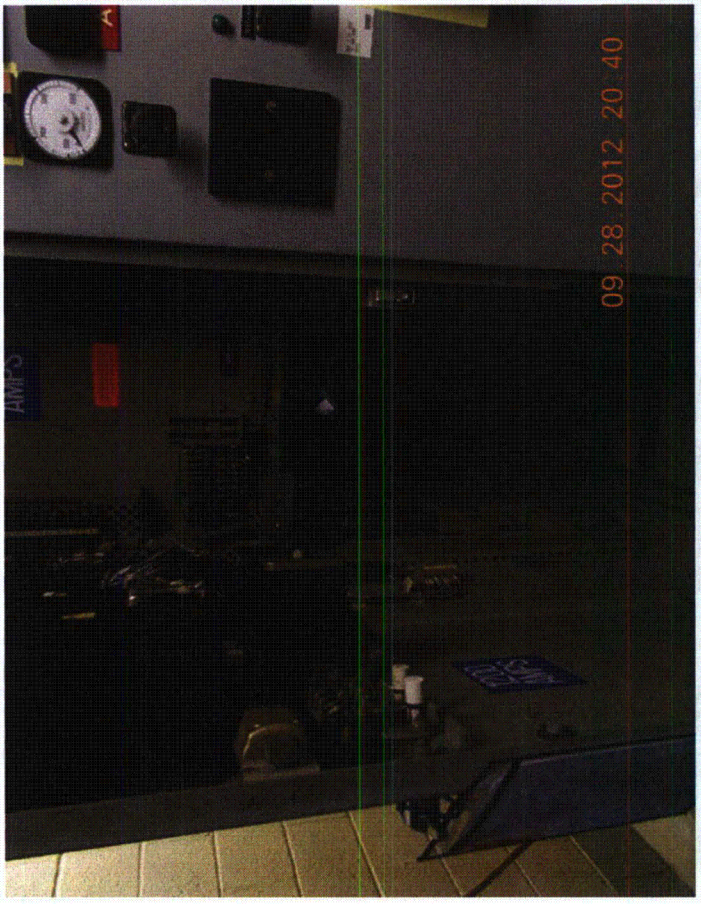
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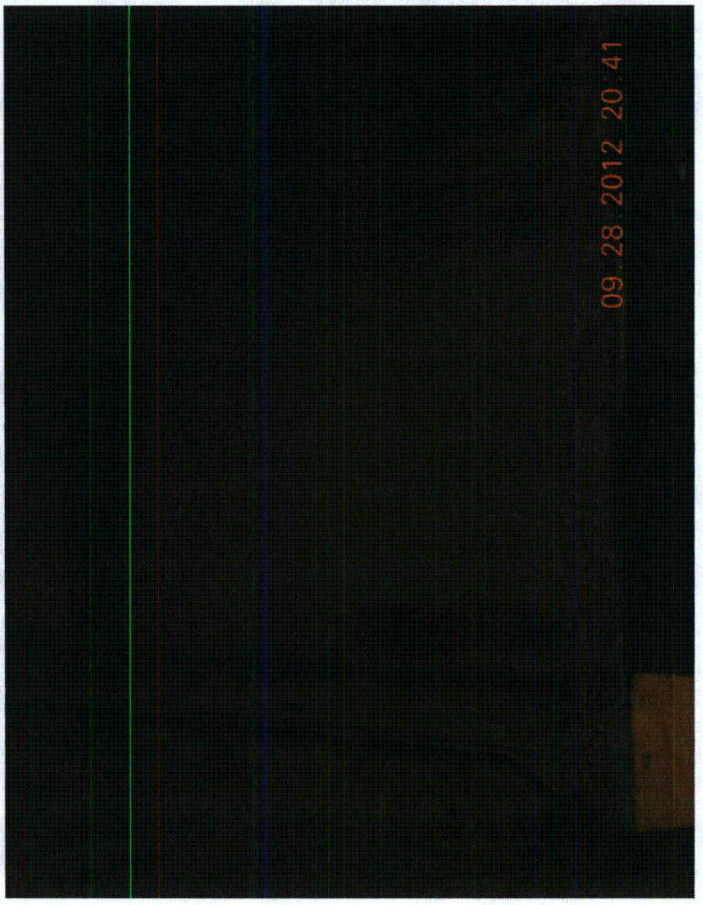
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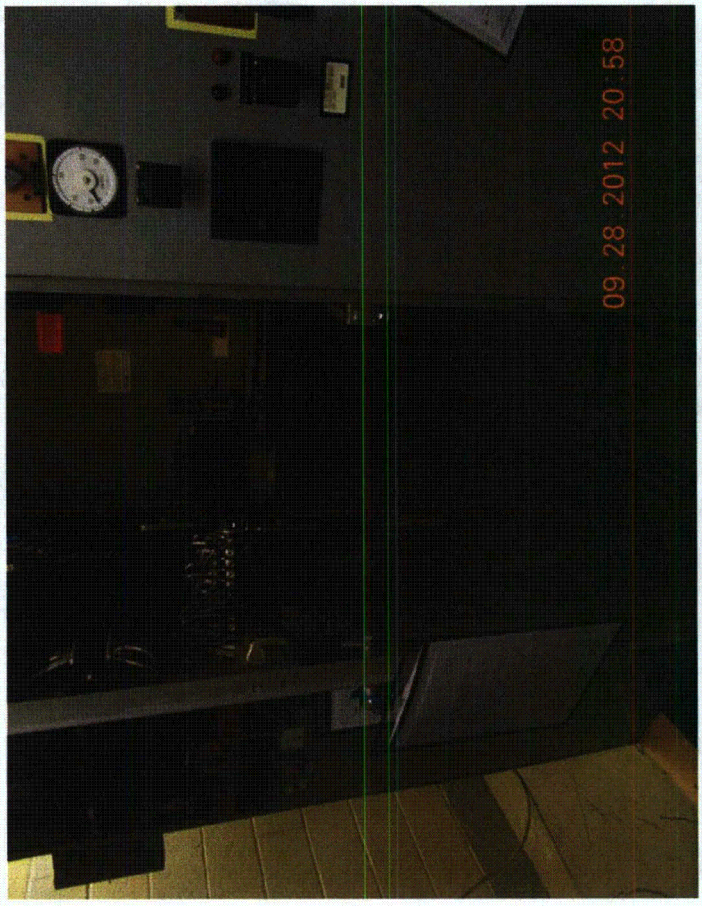
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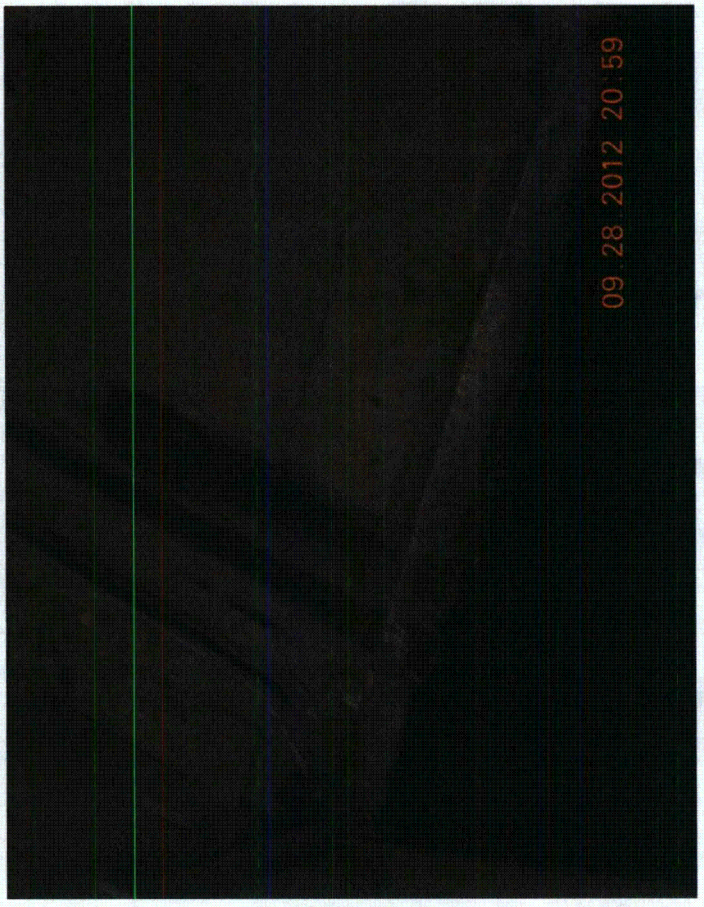
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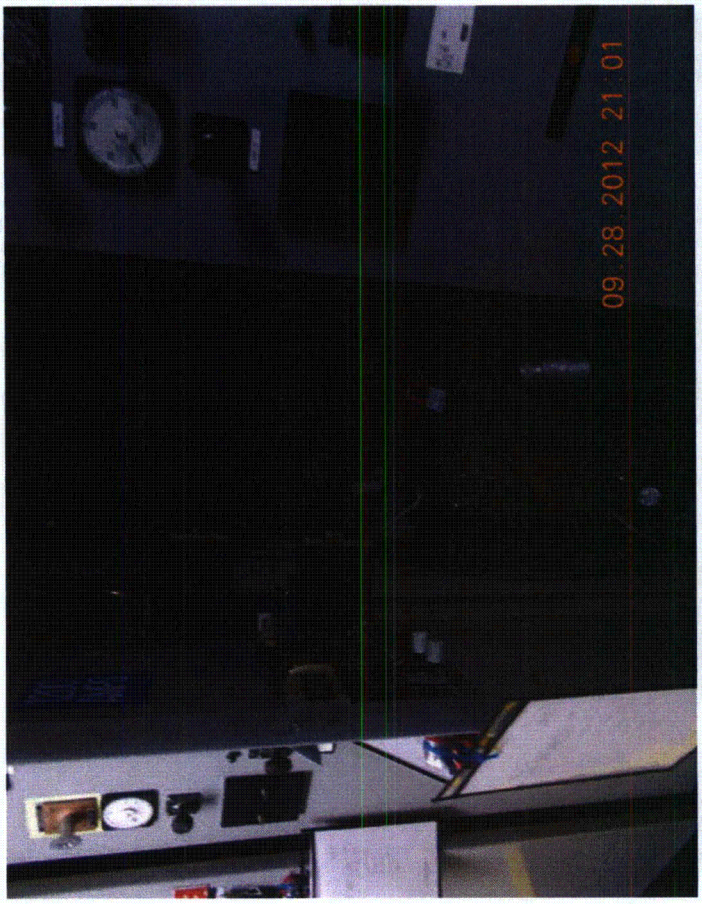
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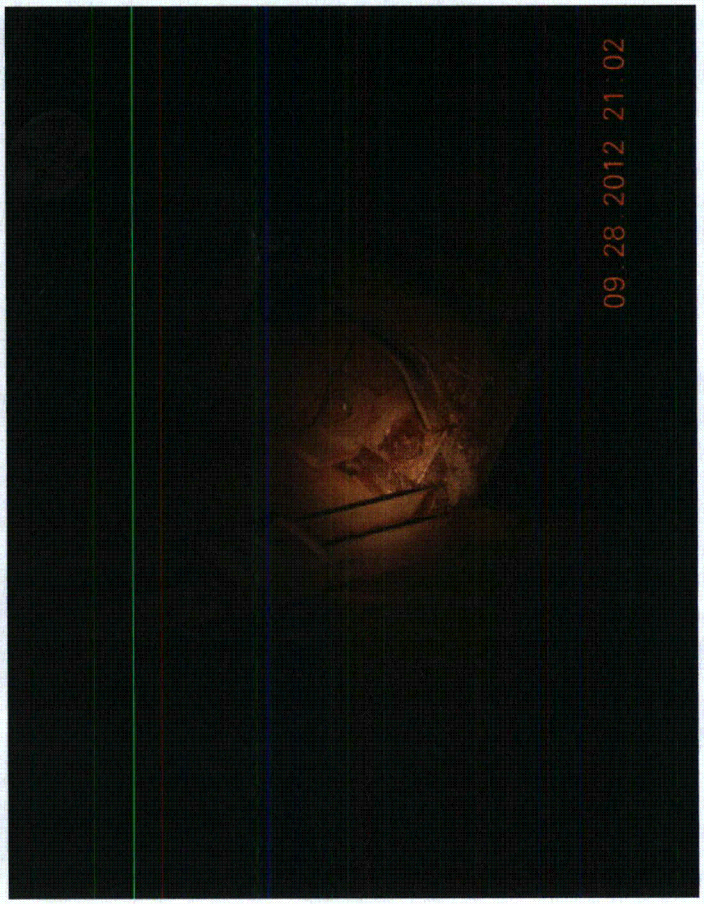
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Seismic Walkdown Checklist (SWC)

Equipment ID No. ~~20A015~~ 12 Equip. Class[12] (03) Medium Voltage Switchgear

Equipment Description E~~22~~ 12 Switchgear

Location: Bldg. Turbine Floor El. BMF 9/25/12 135 Room, Area T2-171

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

BMF 9/18/12

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
   Poor weld quality noted but adequate.

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
   Adequate weld area per 20A015 SEWS.

[12] Enter the equipment class name from **Appendix B:** Classes of Equipment.

Equipment ID No. 20A015 Equip. Class[12] (03) Medium Voltage Switchgear

Equipment Description ~~E22~~ 12 Switchgear

BMF 9/25/12

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 walls - SAFETY-RELATED PER PBAPS SPECIFICATION NO. M-701, REV. 1 (BLOCK WALL NOS. 40-8, 40-14, AND 40-16)
   No I/E concerns

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 (Additional pages may be added as necessary)

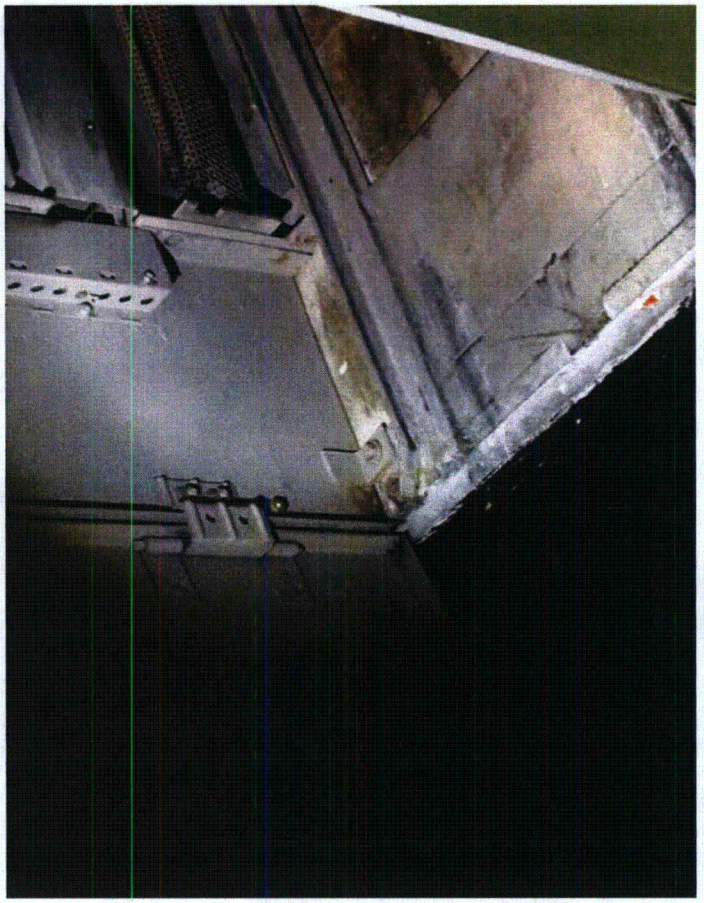
IPEEE - LATCH - Front and back panels adequately secured.

SPARE BREAKER - No spare breakers in the room.

Evaluated by: [signature] Date: 9/25/12

[signature] 9/25/12


20A015
(E-12)
EMERG AUX SWITCHGEAR

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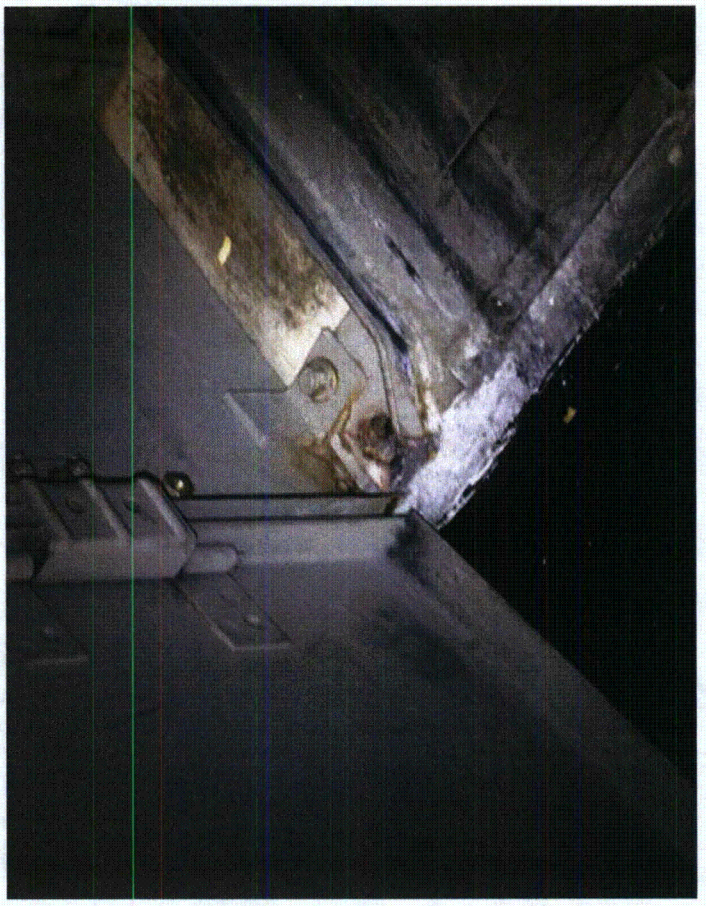

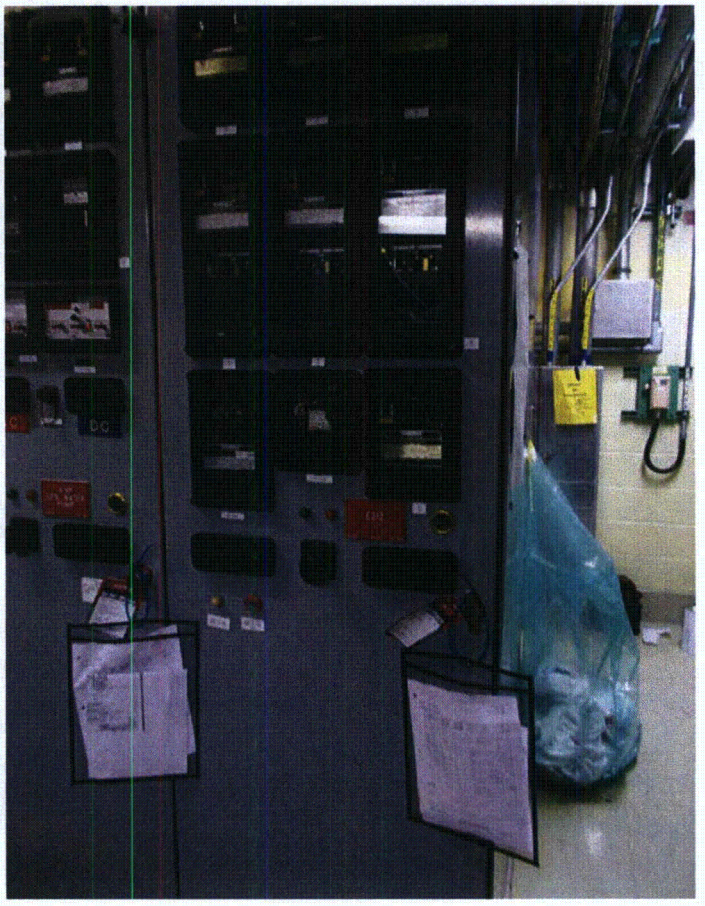

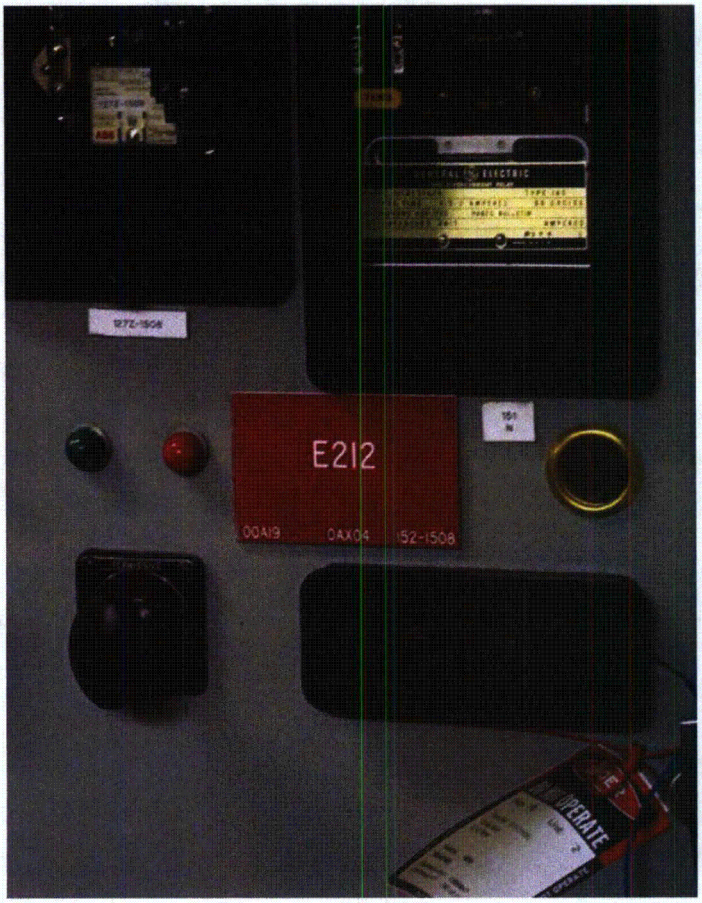
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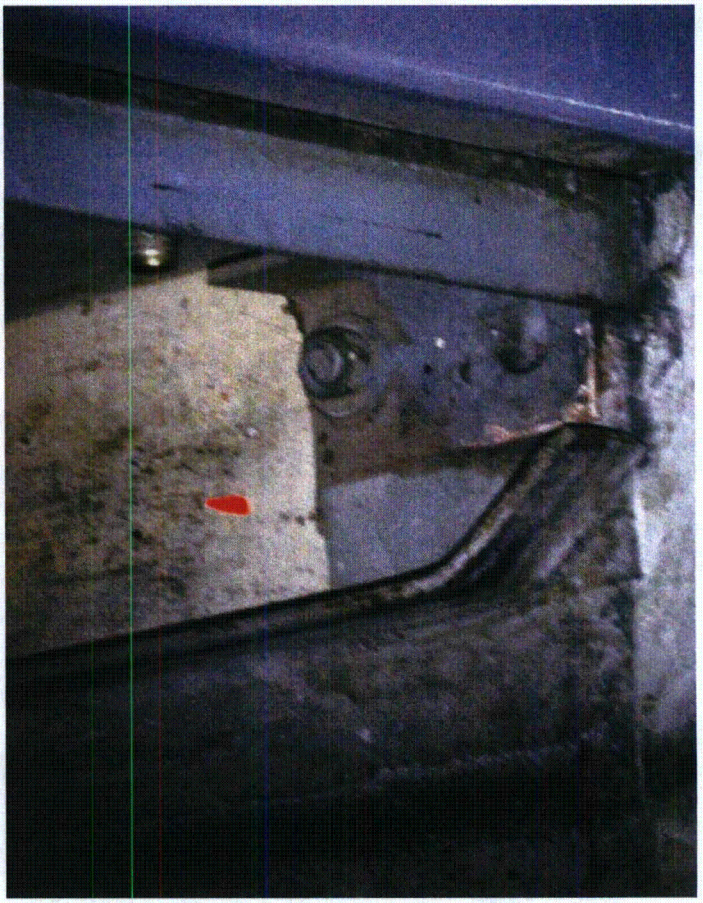

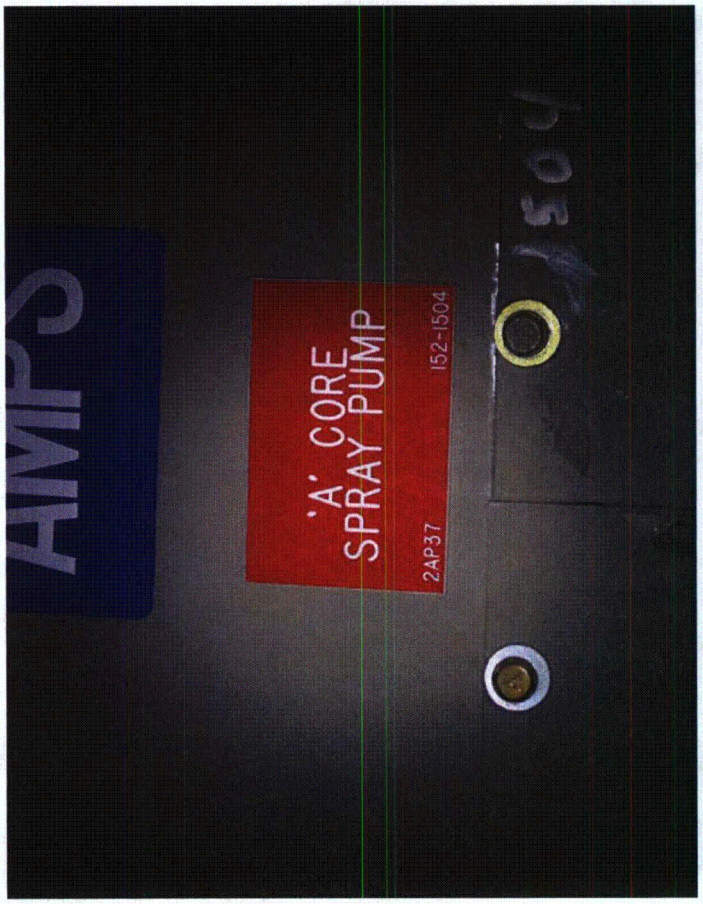
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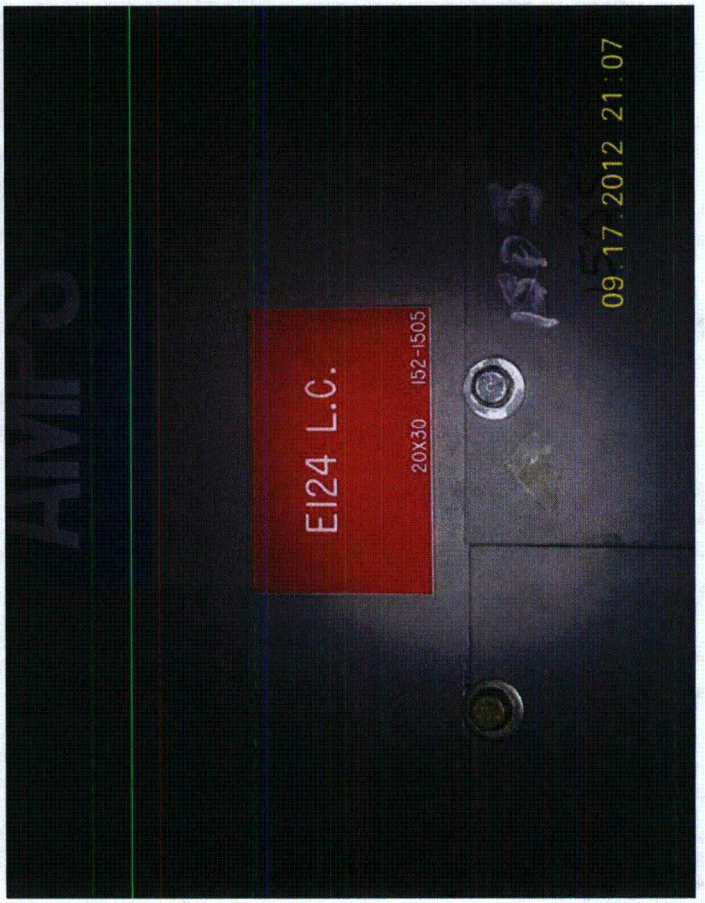
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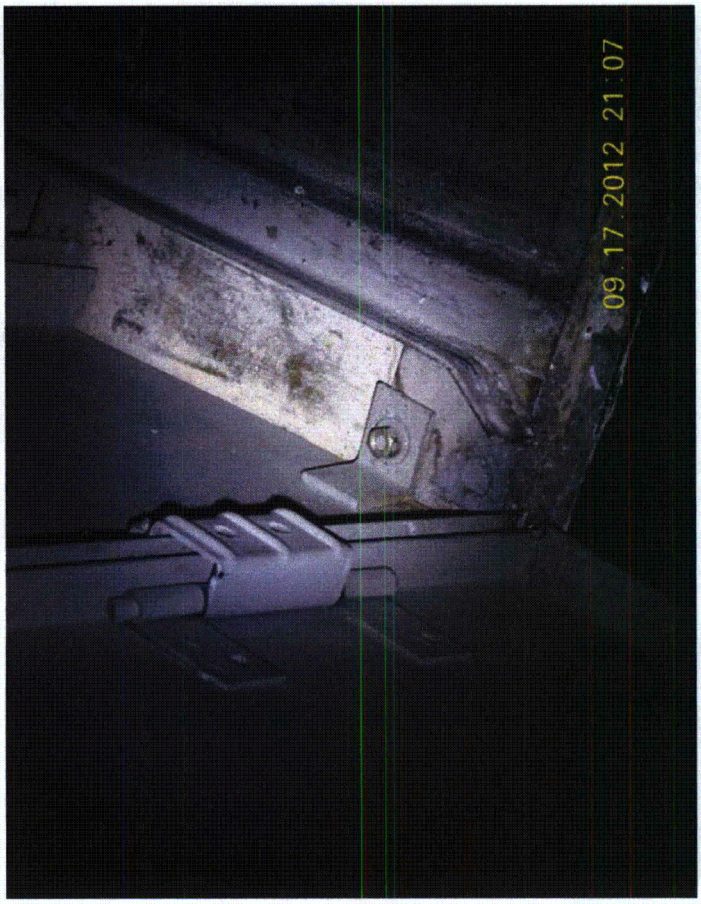
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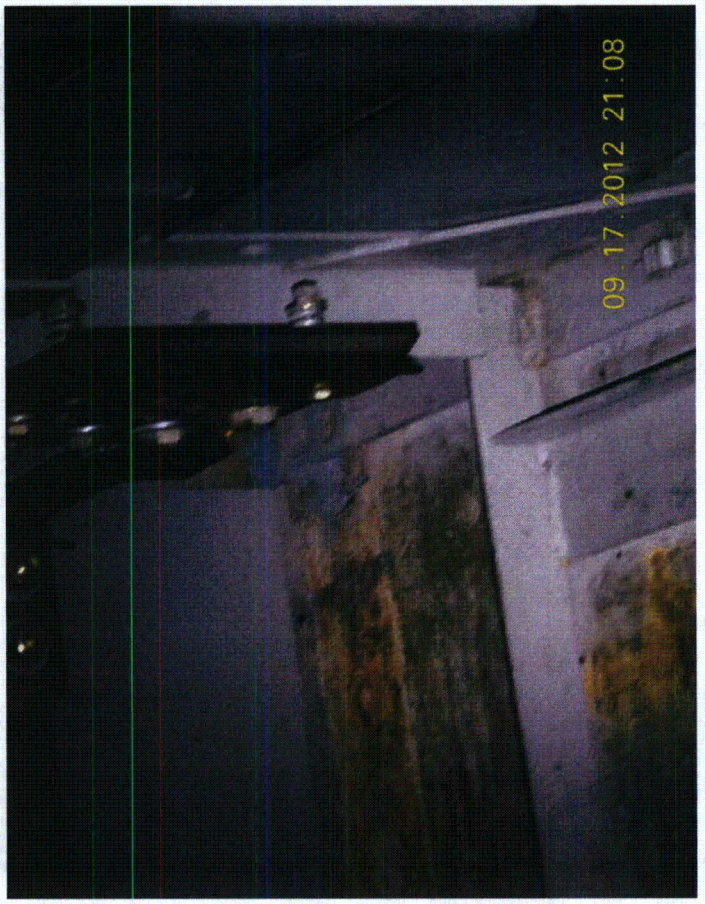
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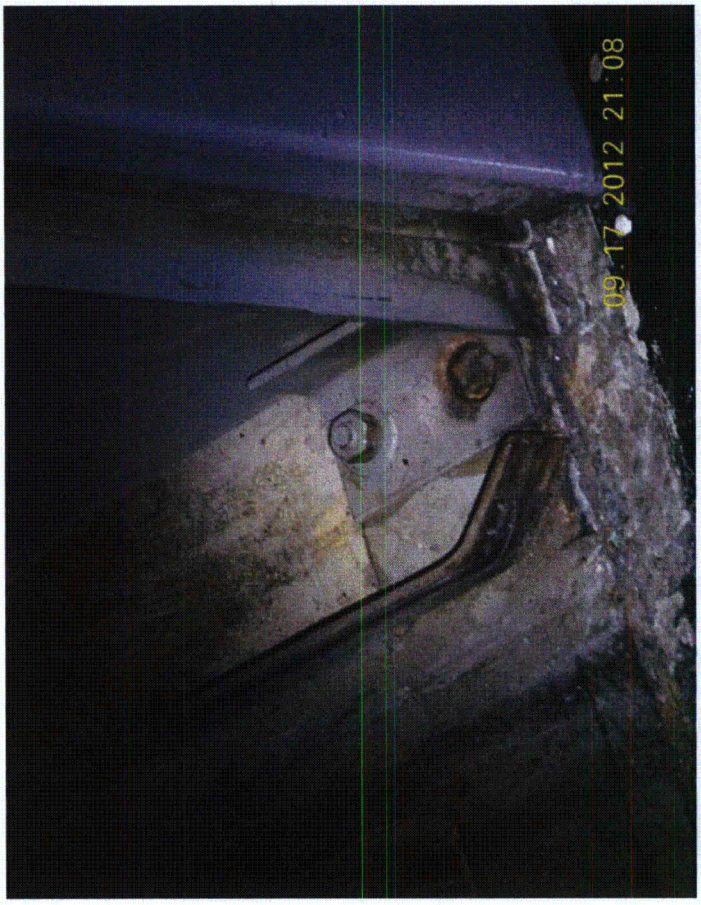
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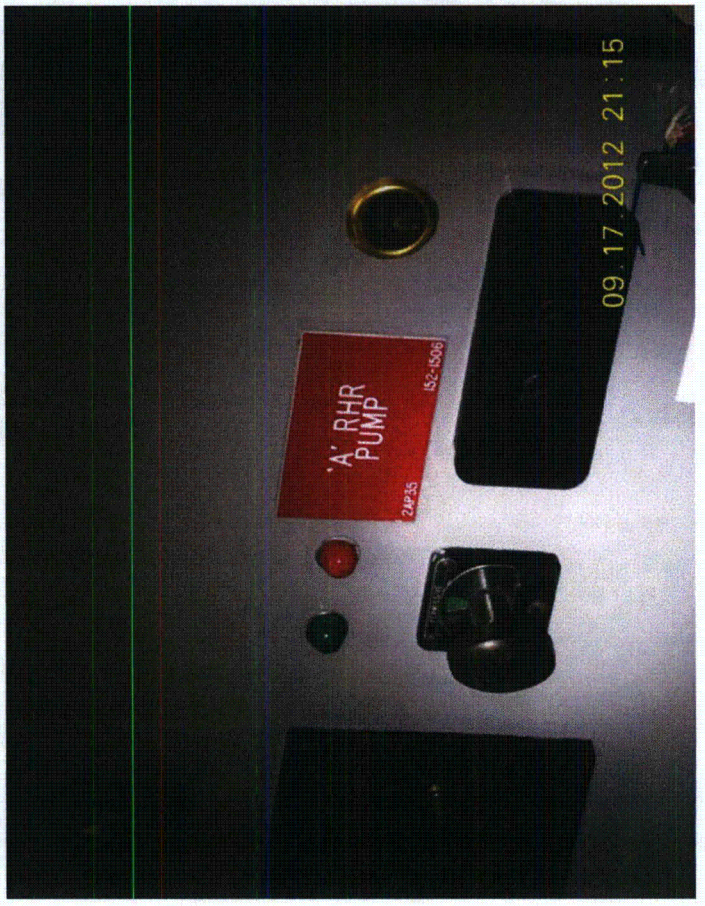
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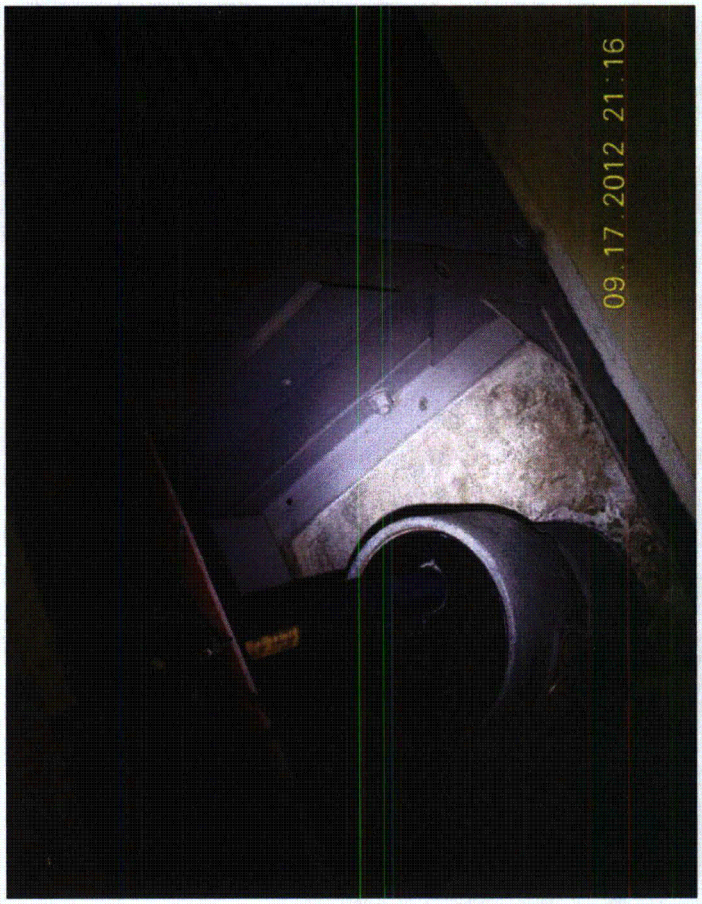
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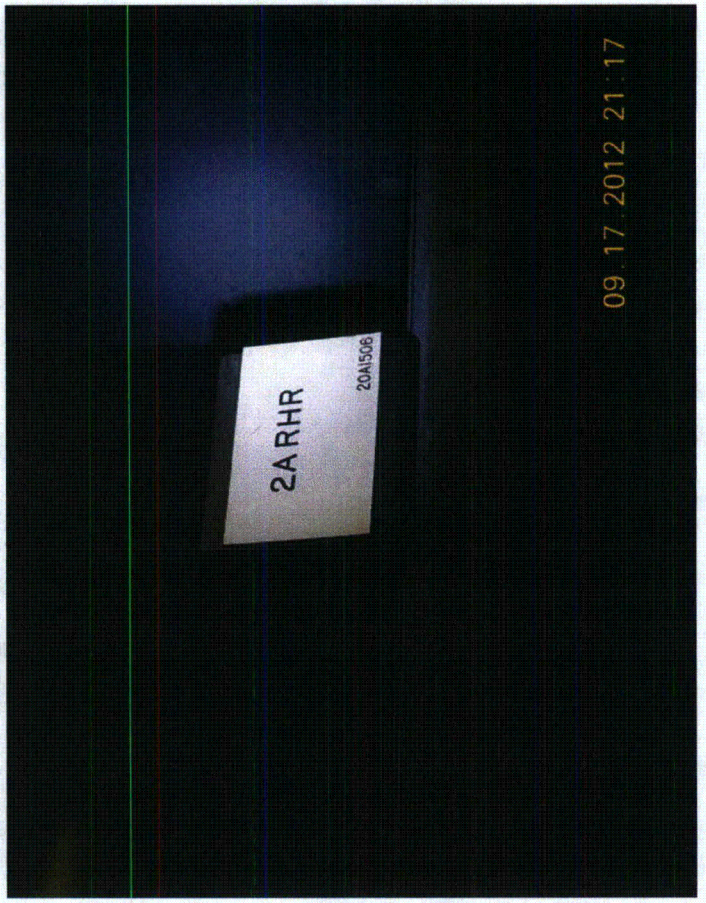
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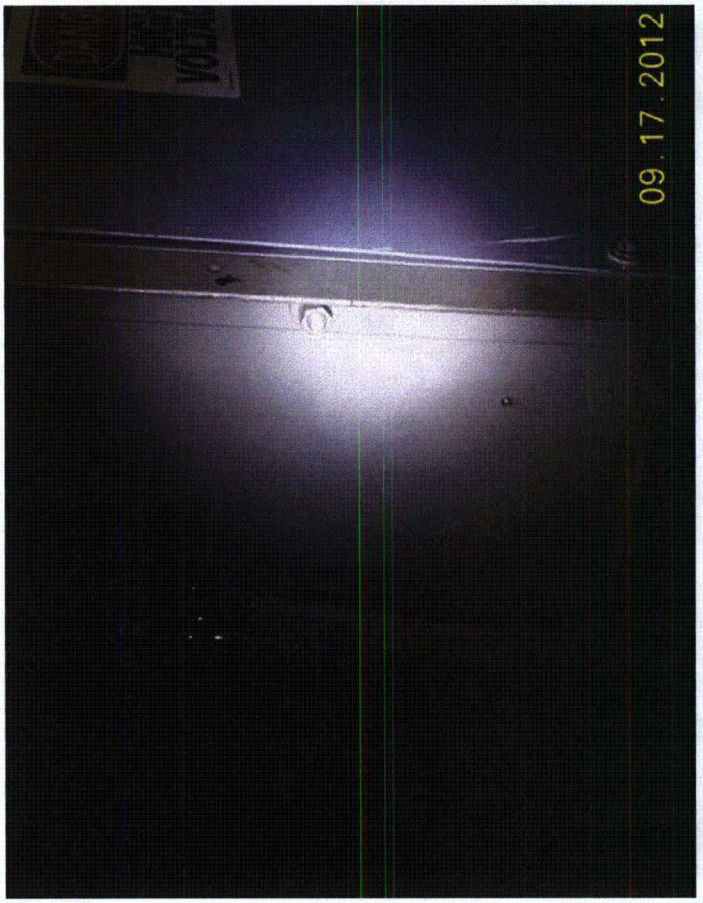
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AC
DC

Status: (Y) N U

Seismic Walkdown Checklist (SWC)

Equipment ID No. E224-R-B Equip. Class[12] (01) MCCs

Equipment Description (20B037) Reactor Area motor Control Center

Location: Bldg. Reactor Floor El. 135' Room, Area R2-23

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☐
   Anchorage is in good condition

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☐

[12] Enter the equipment class name from **Appendix B:** Classes of Equipment.

Equipment ID No. E224-R-B Equip. Class[12] (01) Motor Control Centers

Equipment Description (20B037) Reactor Area Motor Control Center

Interaction Effects

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

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☐
   Lighting is secure.

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☐

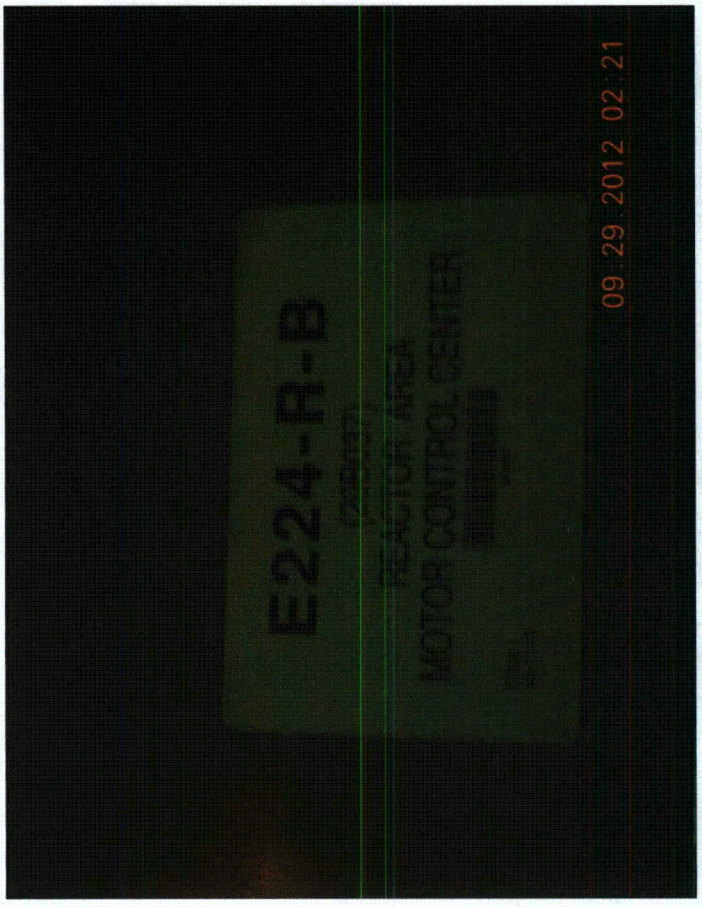
Other Adverse Conditions

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 (Additional pages may be added as necessary)

Evaluated by: K. Ogbar Date: 10/4/12

10/8/12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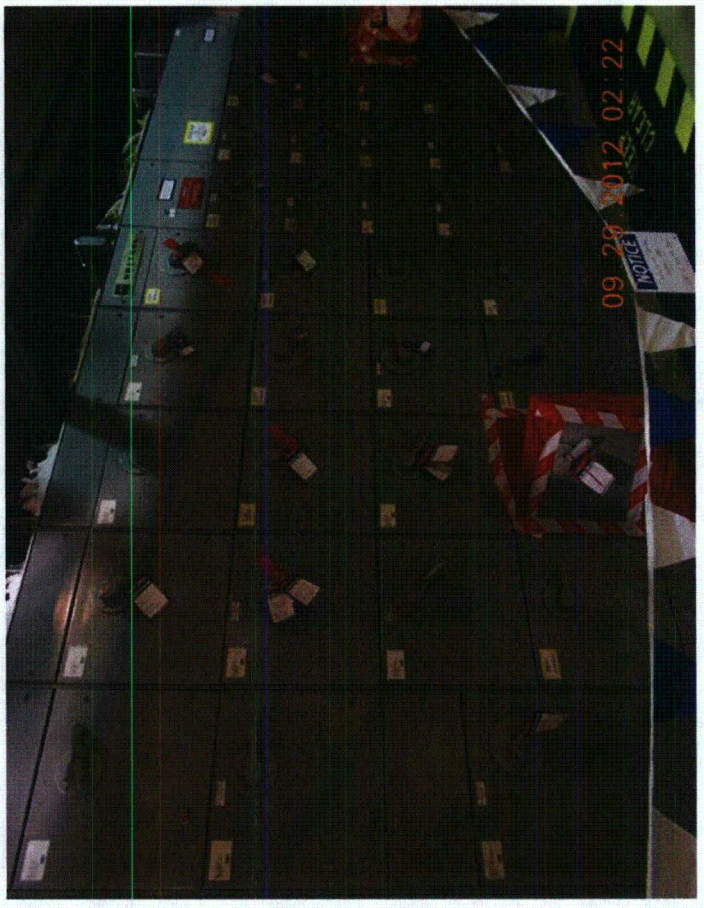
MOTOR CONTROL CENTER
09 29 2012 02 21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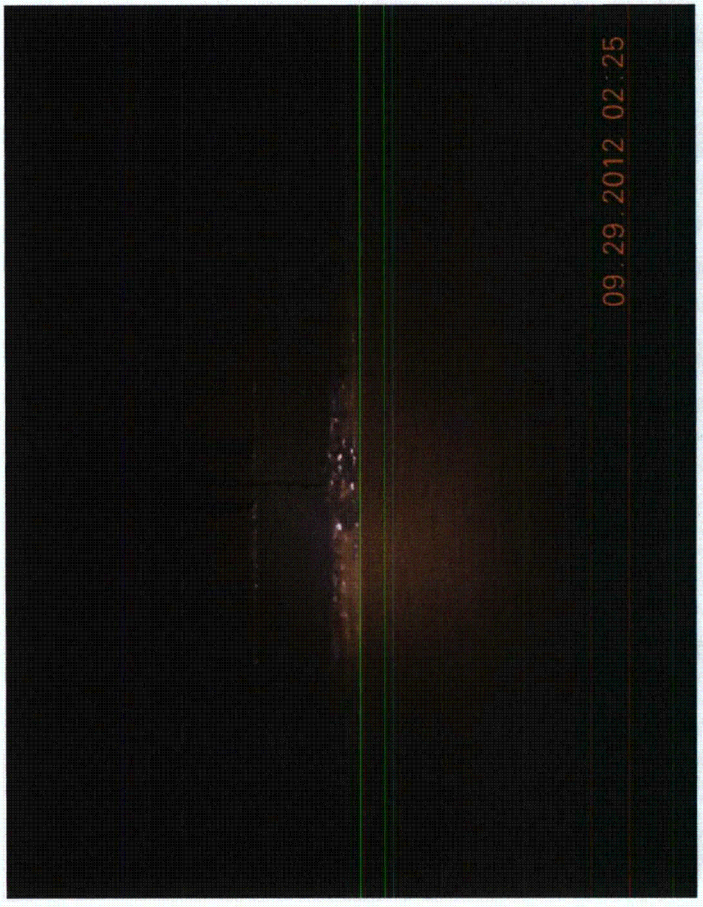
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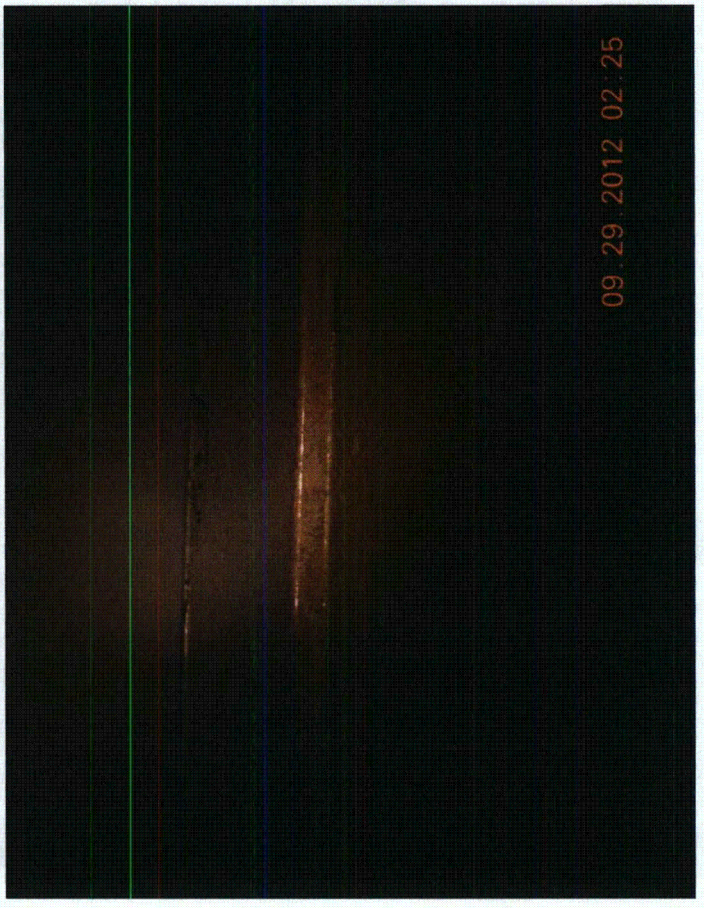
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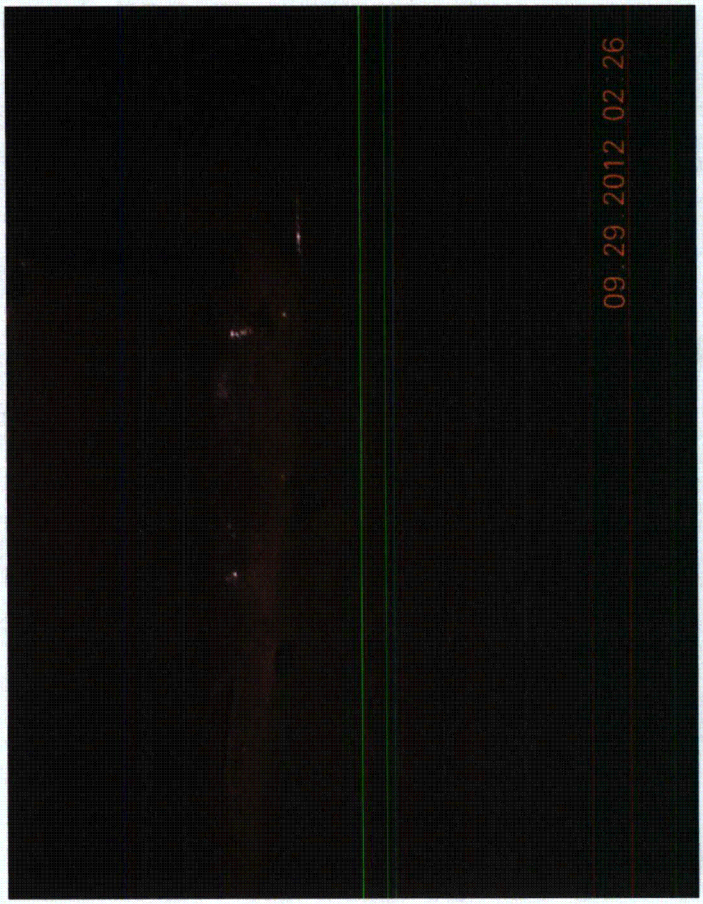
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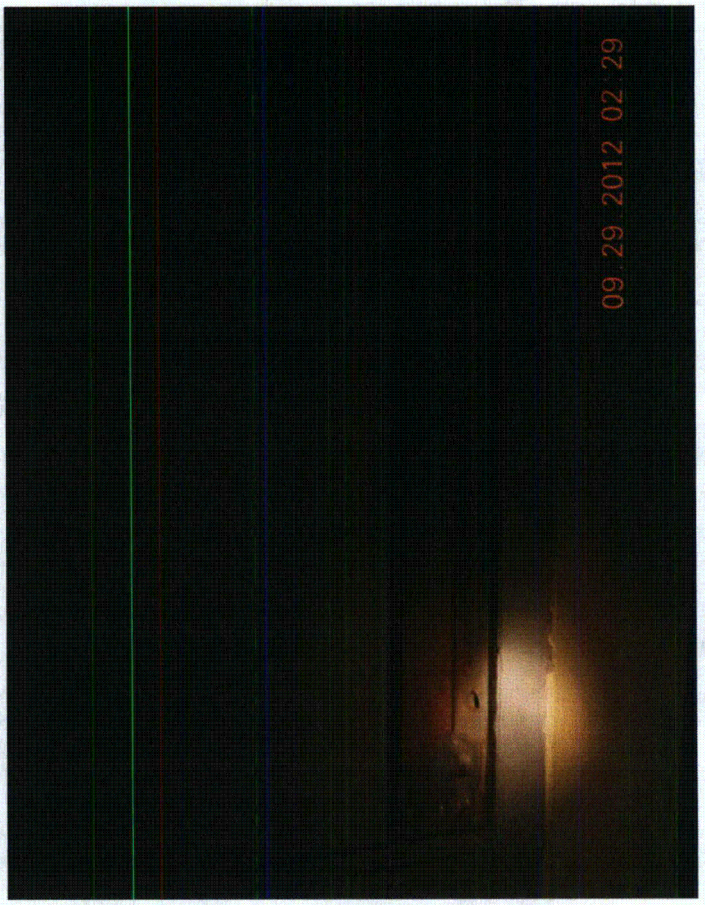
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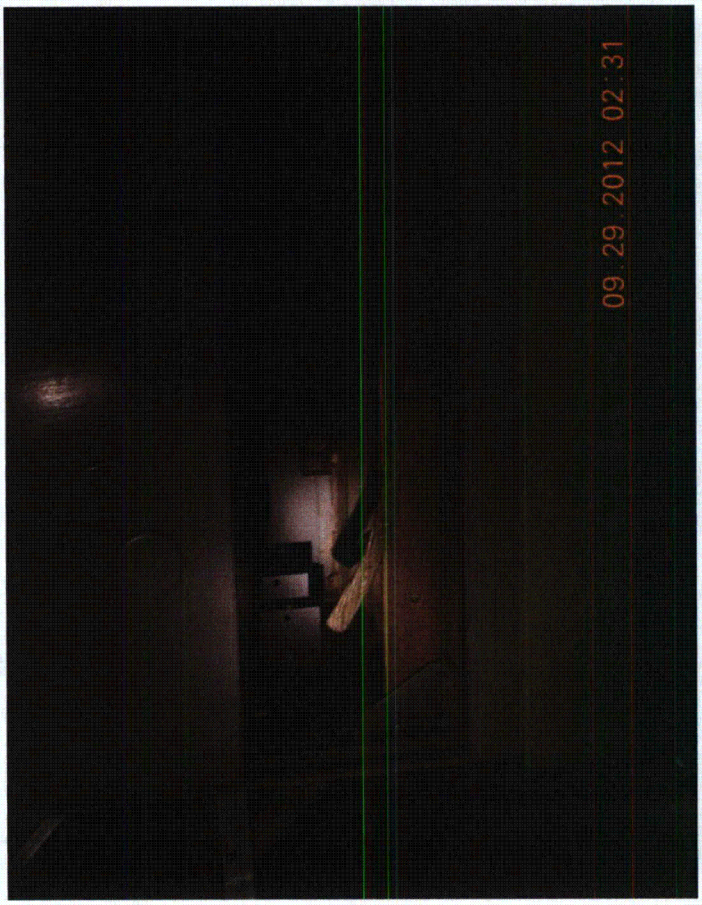
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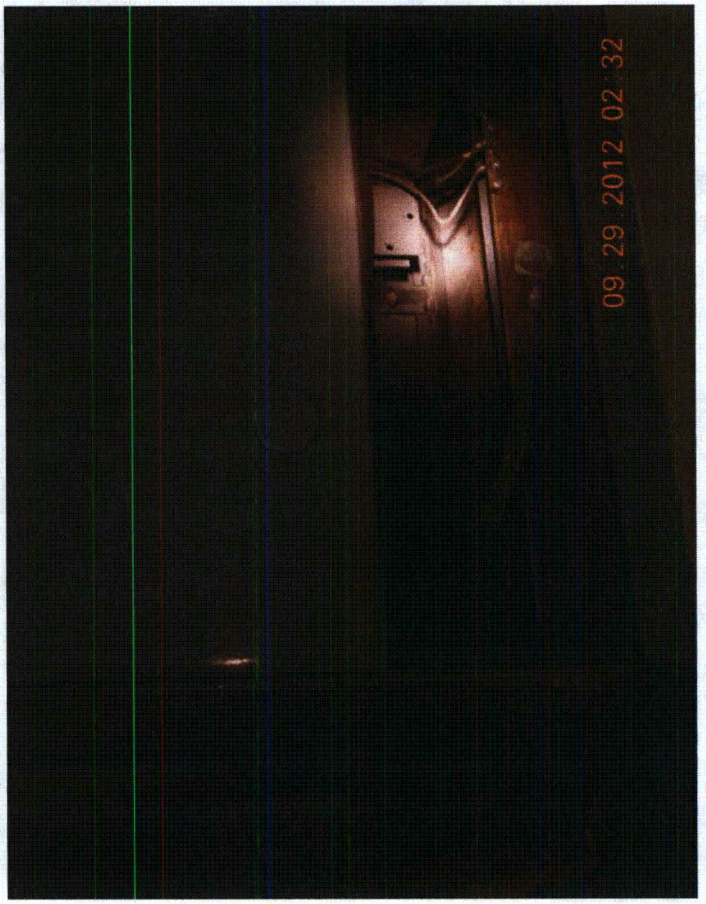

09 29 2012 02 32

Seismic Walkdown Checklist (SWC)

Equipment ID No. E224-T-B Equip. Class[12] (01) MCCs

Equipment Description (20B060) Turbine Area MCC

Location: Bldg. Turbine Floor El. 135 Room, Area T2-71

Manufacturer, Model, Etc. (optional but recommended) Cutler-Hammer (Unitrol)

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 Verified by removing front

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☐
   Verified per Dwg. E11-45-12 Rev. 12

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

[12] Enter the equipment class name from **Appendix B:** Classes of Equipment.

Equipment ID No. E224-T-B Equip. Class[12] (01) MCCs

Equipment Description (2080160) Turbine Area MCC

Interaction Effects

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

   No I+I concerns

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☐

   Masonry walls ~~need to be~~ Verified.

   Safety-related per PBAPS Specification No. M-701, Rev. 1. MO 11/8/12 11/8/12

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☐

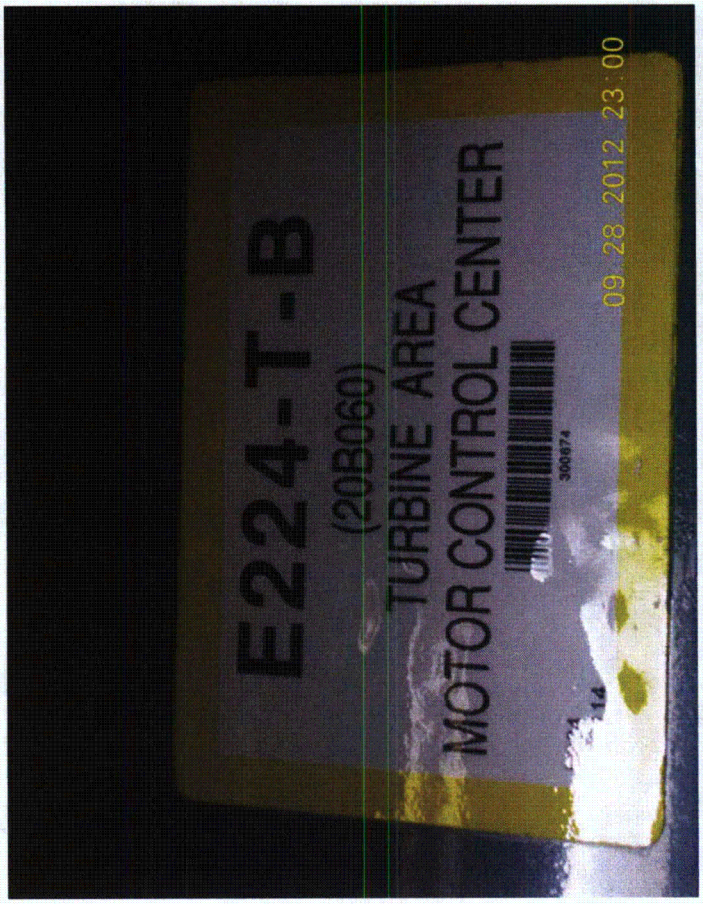
Other Adverse Conditions

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 (Additional pages may be added as necessary)

Evaluated by: _____ Date: 9/29/12

A. Ogbaa 9/29/12


E24-T-B
(20B060)
TURBINE AREA
MOTOR CONTROL CENTER
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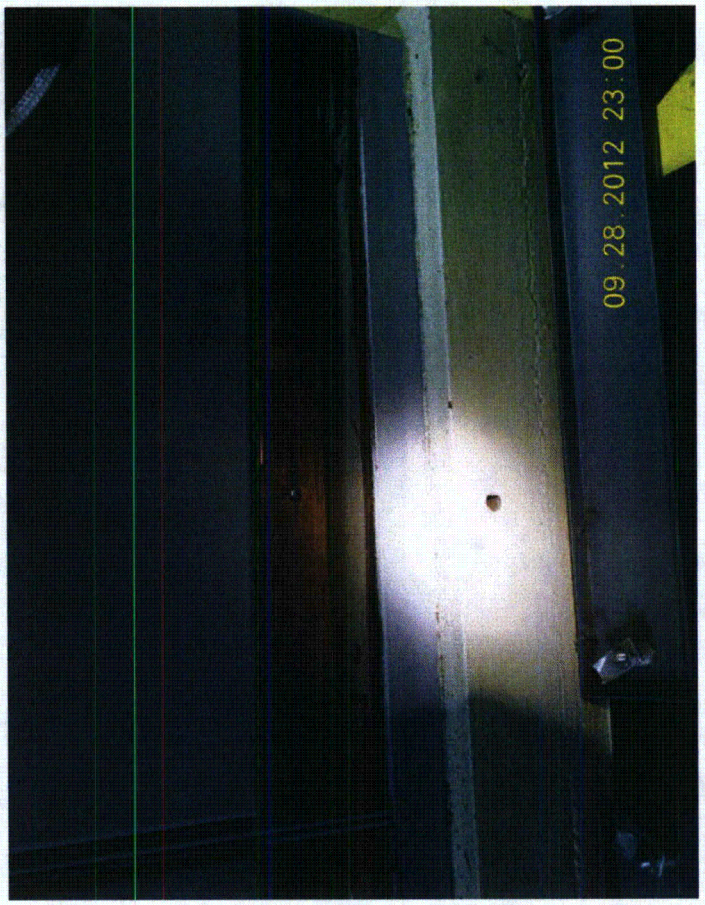
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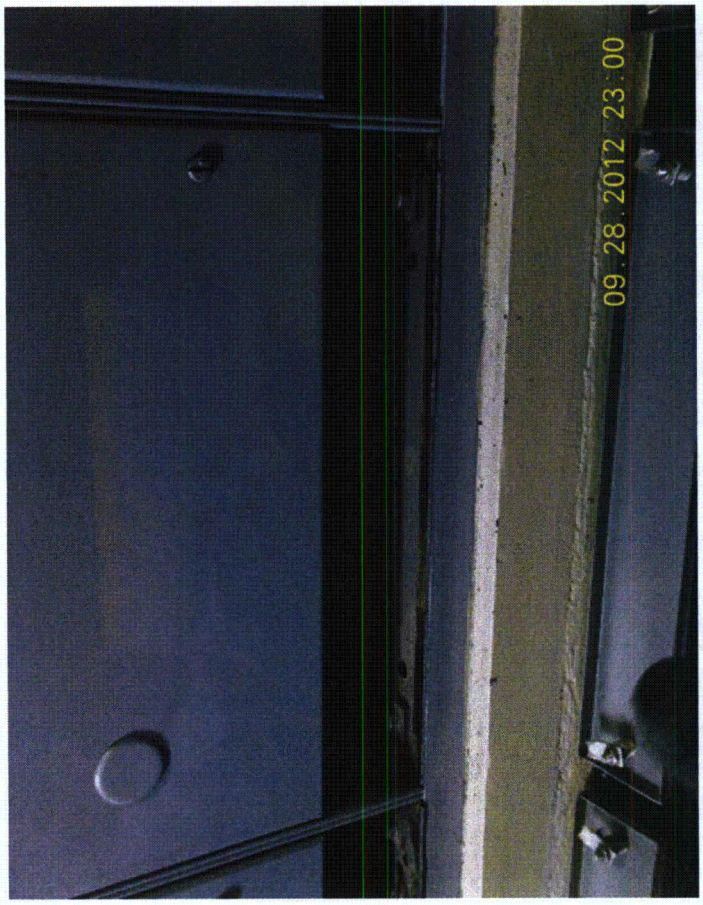
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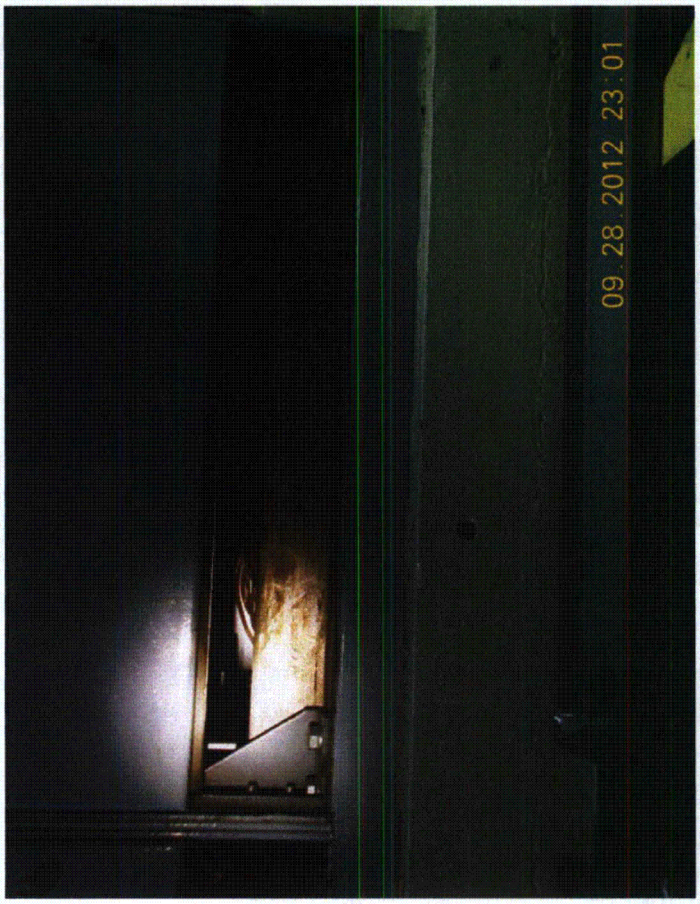
09.28.2012 23:00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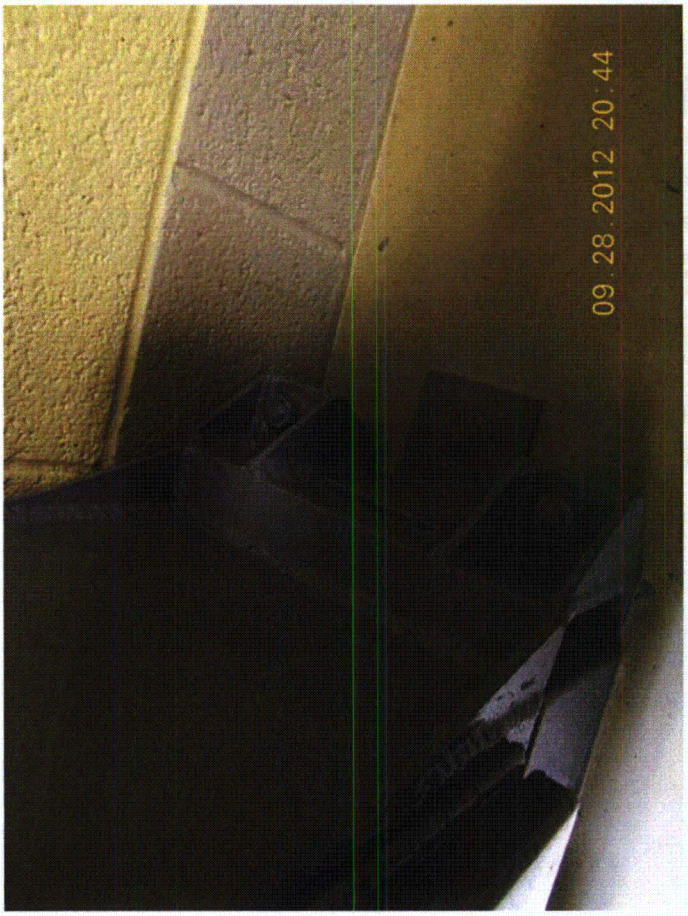
09.28.2012 23:03
DANGER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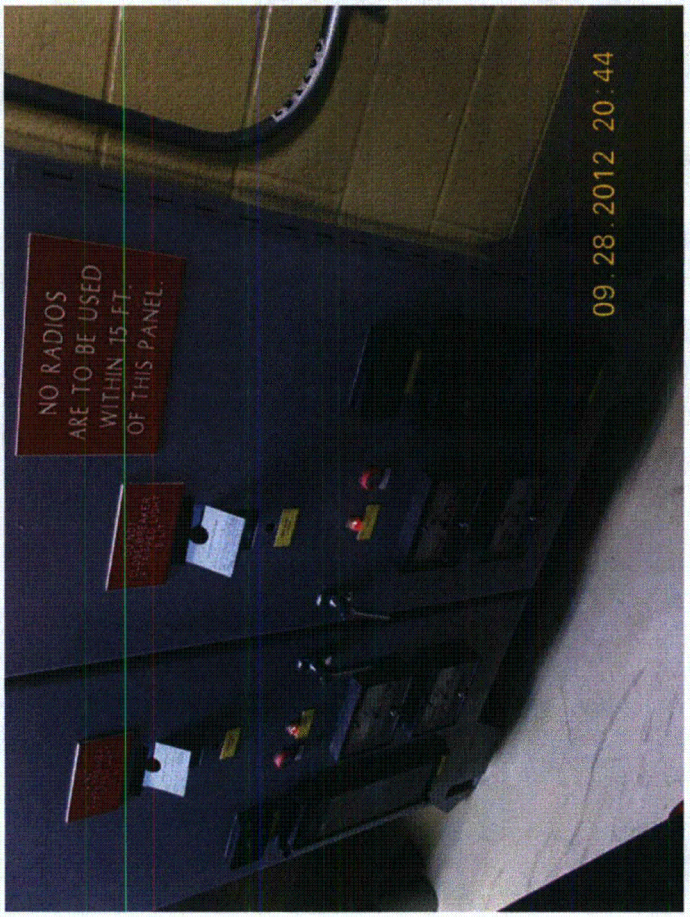

09.28.2012 20:44
NO RADIOS
ARE TO BE USED
WITHIN 15 FT.
OF THIS PANEL

Seismic Walkdown Checklist (SWC)

Equipment ID No. 20B324 Equip. Class[12] (1) MCC Power

Equipment Description MO-2-23-015 Motor Control & Transfer Switch

Location: Bldg. ~~Rad waste~~ Turbine Floor El. 135 Room, Area MG SET Room BMF 9/12/12

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☐
   Anchorage verified per Dwg. 6280-E-542-2 Revision 2

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☐

[12] Enter the equipment class name from **Appendix B:** Classes of Equipment.

20B324 Equipment ID No. ~~MO-2-23-15~~ Equip. Class[12] (1) MCC

Equipment Description MO-2-23-015 Motor Control Transfer Switch.

Interaction Effects

7. Are soft targets free from impact by nearby equipment or structures? Y☑ N☐ U☐ N/A☐
   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☐
   No H/I concerns.

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

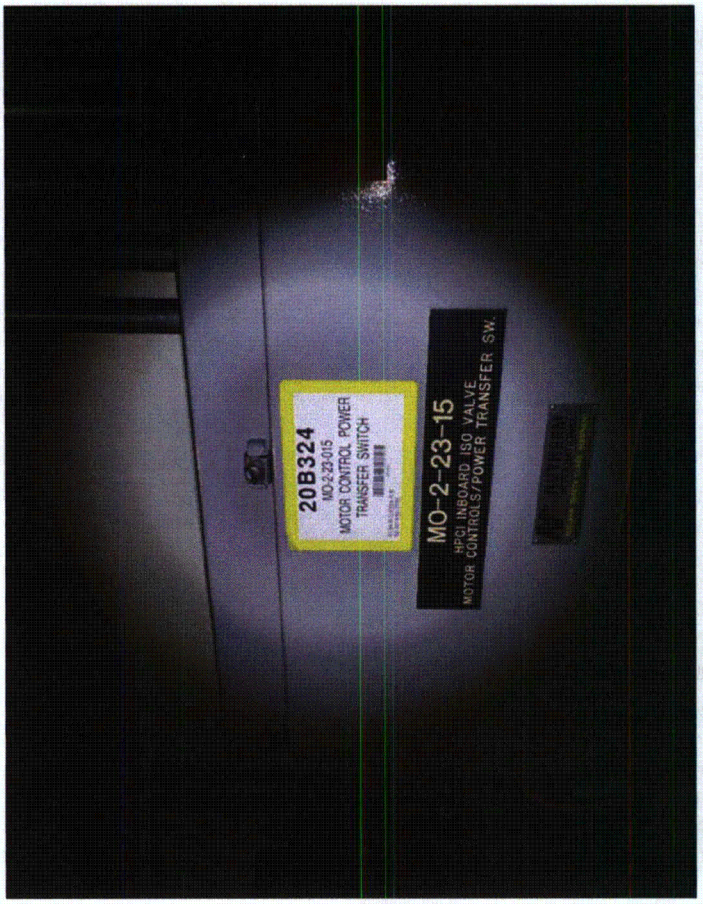
11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? Y☑ N☐ U☐

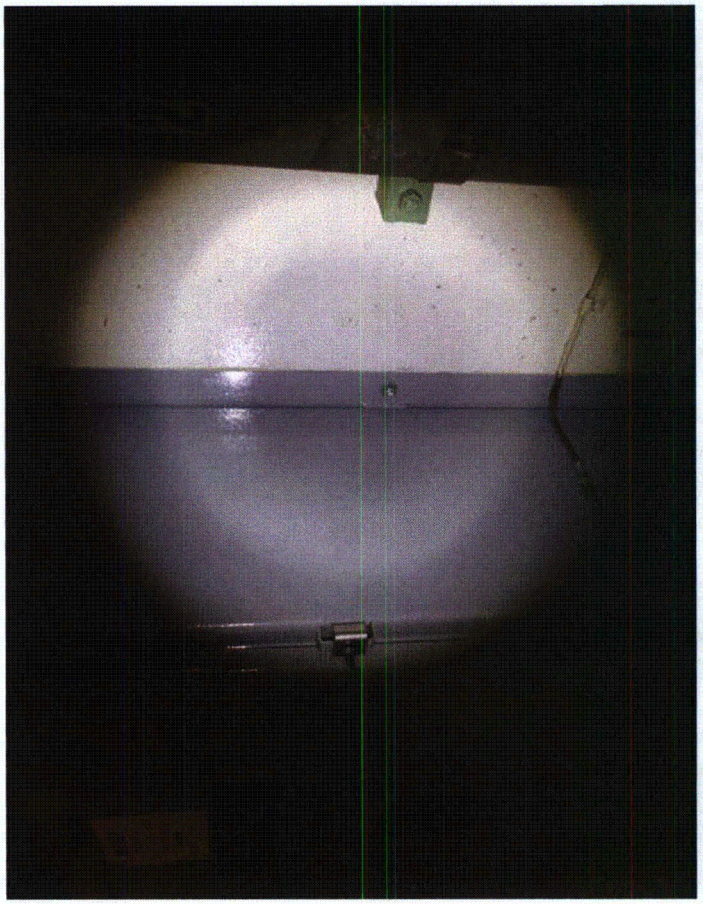
Comments (Additional pages may be added as necessary)

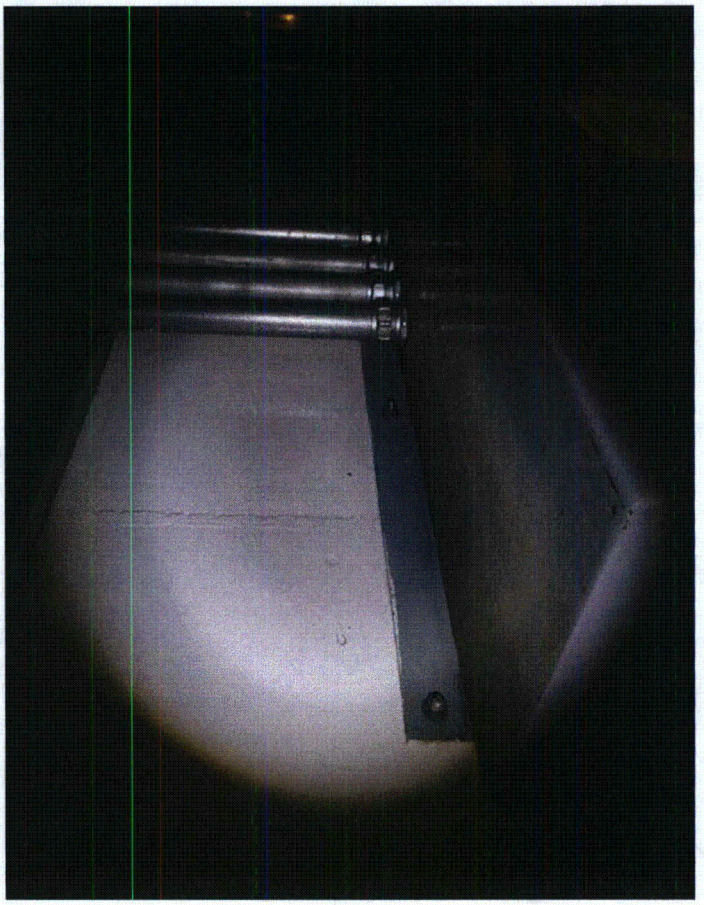
Internal cabinet inspection identified no issues. CBL 9/25/12
MO 9/29/12

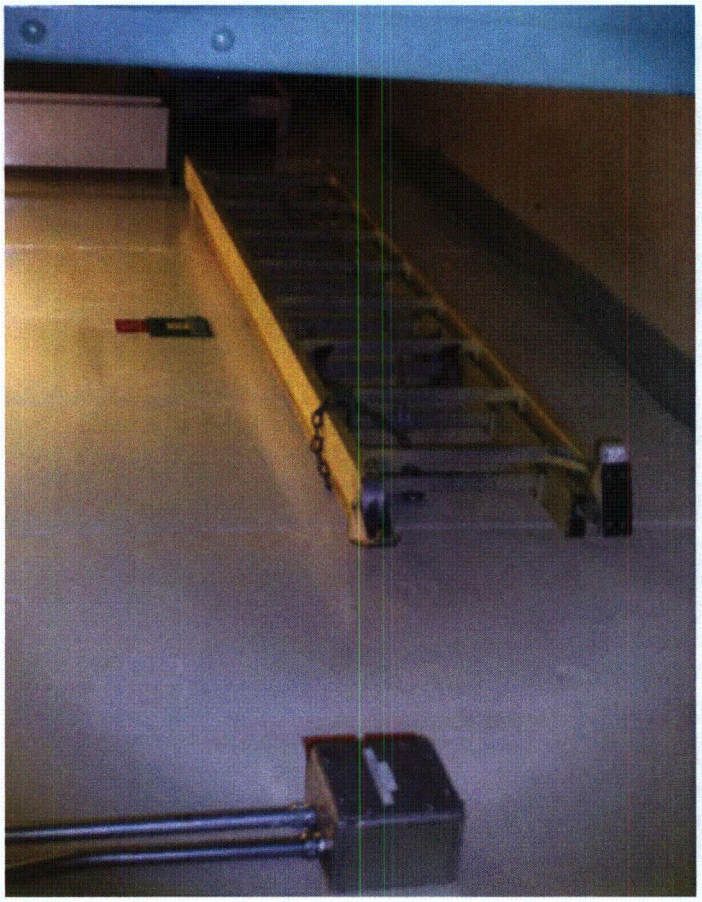
Evaluated by: _____ Date: 9/12/12

Ben Fry 9/25/12


20B324
MO-2-23-015
MOTOR CONTROL POWER
TRANSFER SWITCH
MO-2-23-15
HPCI INBOARD ISO VALVE
MOTOR CONTROLS/POWER TRANSFER SW.







Seismic Walkdown Checklist (SWC)

Equipment ID No. 20B325 Equip. Class[12] (1) MCC

Equipment Description RCIC INBD Iso. Valve - M02-13-15 Motor Controls

Location: Bldg. 2 Reference 9/11/12 BMP 13 Turbine Floor El. 135 Room, Area Recirc MG Set

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☐

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☐
Verified consistent with Dwg. 6280-E-542-1 Rev. 2

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

[12] Enter the equipment class name from **Appendix B:** Classes of Equipment.

Equipment ID No. 20B325 Equip. Class[12] (1) MCC

Equipment Description RCIC INBD Iso. Valve MO2-13-15 Motor Controls

Interaction Effects

7. Are soft targets free from impact by nearby equipment or structures? Y☒ N☐ U☐ N/A☐
   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☐
   No II/I concerns.

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

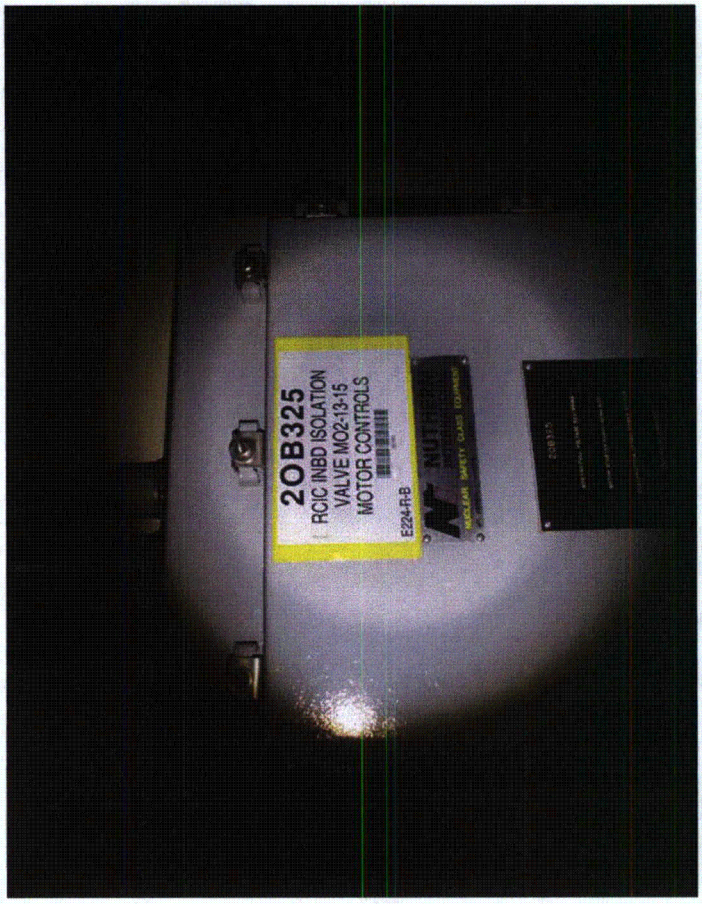
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y☒ N☐ U☐

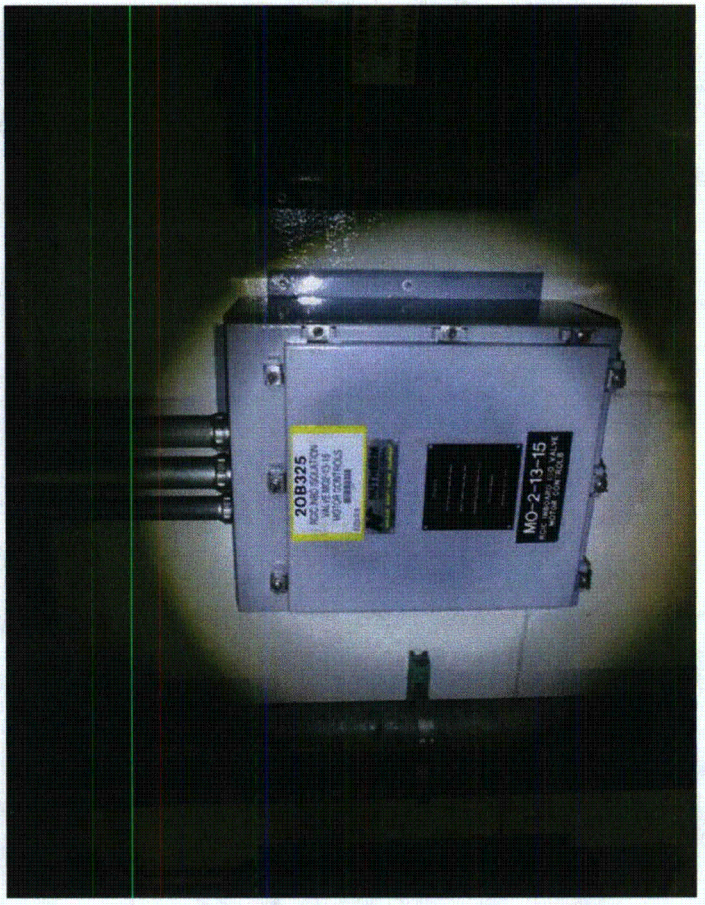
Other Adverse Conditions

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 (Additional pages may be added as necessary)
No issues identified in internal inspection. CBL 9/24/12
HO 9/29/12

Evaluated by: _____ Date: 9/12/12
Ben Fry 9/12/12


2OB325
RCIC INBD ISOLATION
VALVE MO2-13-15
MOTOR CONTROLS
E224-R-B
NUTHERM
INTERNATIONAL
NUCLEAR SAFETY CLASS EQUIPMENT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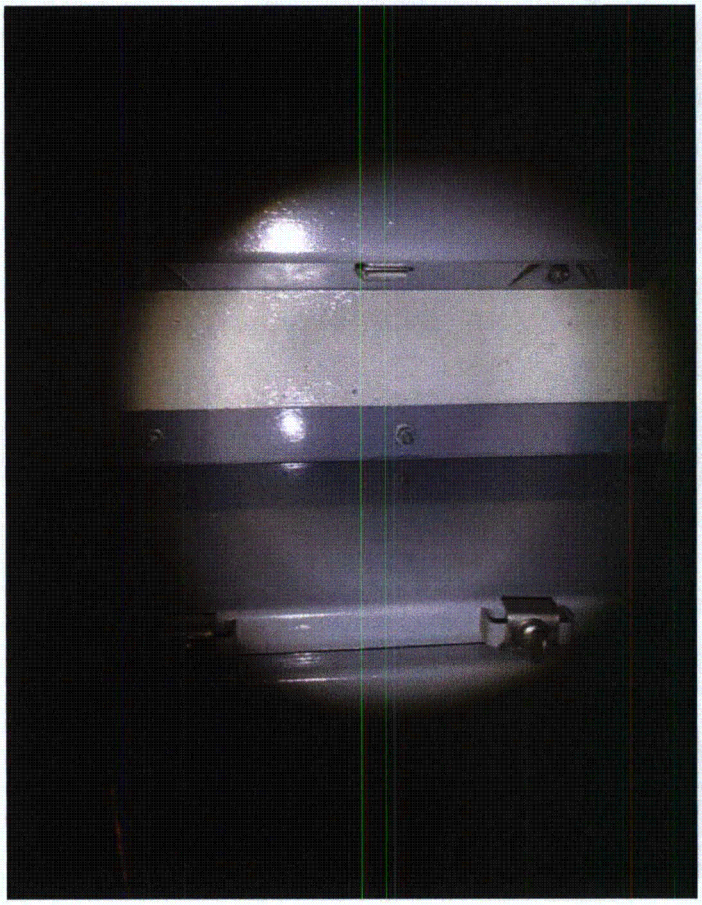
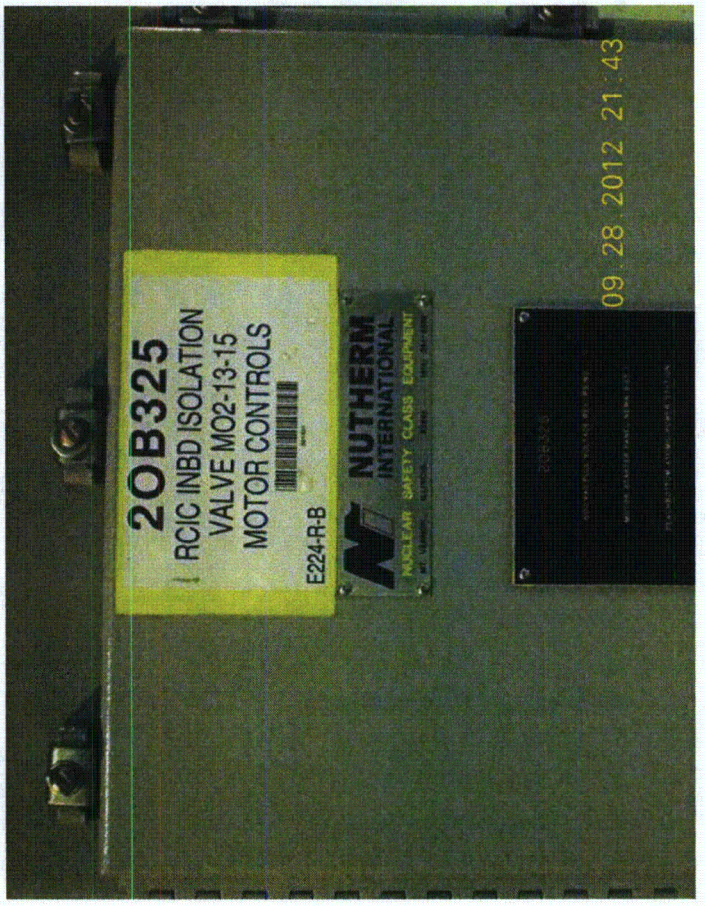
MO-2-13-15

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VALVE MO2-13-15
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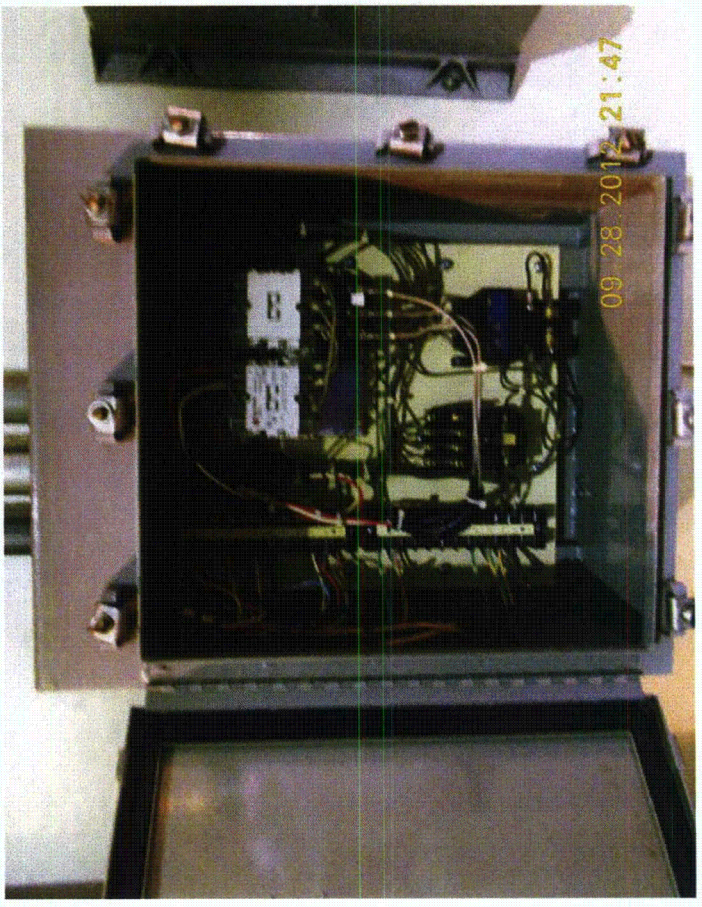
INTERNATIONAL
NUCLEAR SAFETY CLASS EQUIPMENT
09 28 2012 21:43


09 28 2012 21:47

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No. 208338 Equip. Class[12] (N) MCC

Equipment Description Remote Motor Starter MO-2-10-16D

Location: Bldg. ~~Radwaste~~ 9/12/12 SMF Turbine Floor El. 135 Room, Area Reactr MB 564

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☐

   Verified per drawing 6280-E-542-28 Rev 2

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☐

[12] Enter the equipment class name from **Appendix B:** Classes of Equipment.

Equipment ID No. 20B338 Equip. Class[12] (1) MCC

Equipment Description Remote Motor Starter MO-2-10-16D

Interaction Effects

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

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 II/I concerns.

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

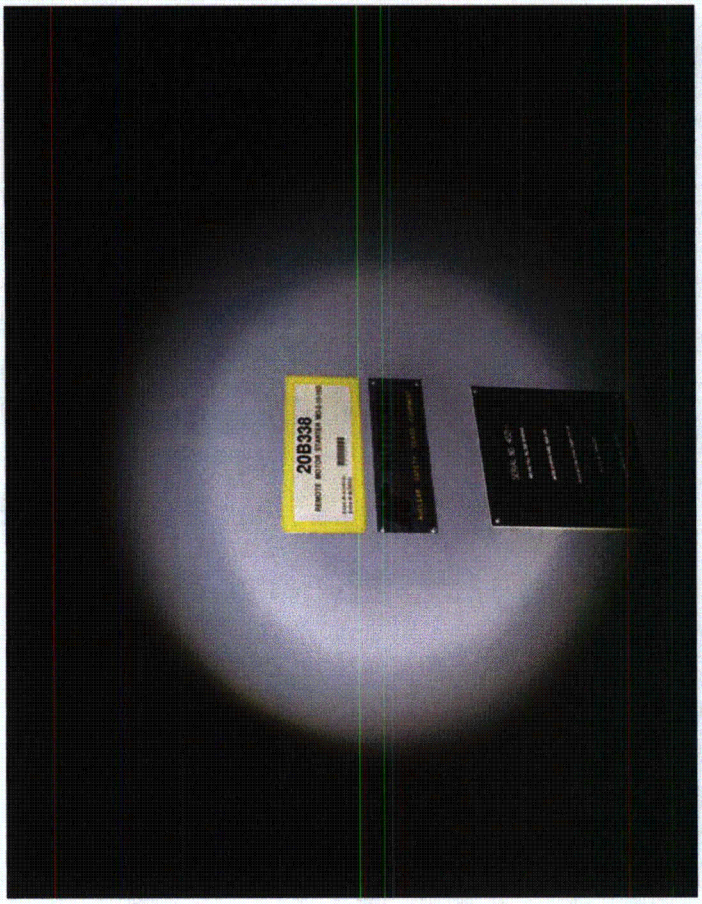
11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? Y☒ N☐ U☐

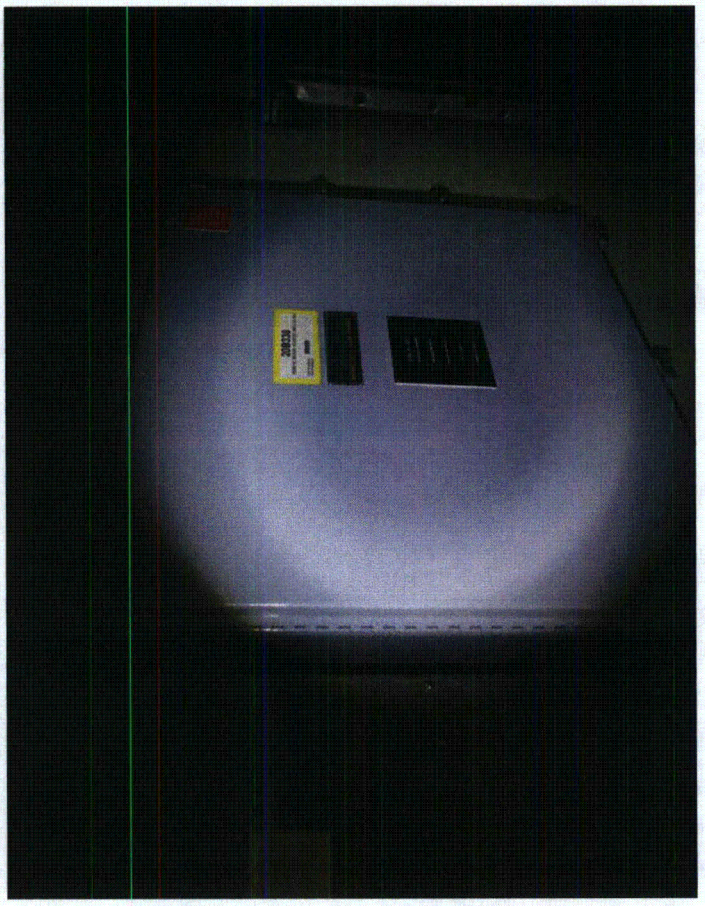
Comments (Additional pages may be added as necessary)

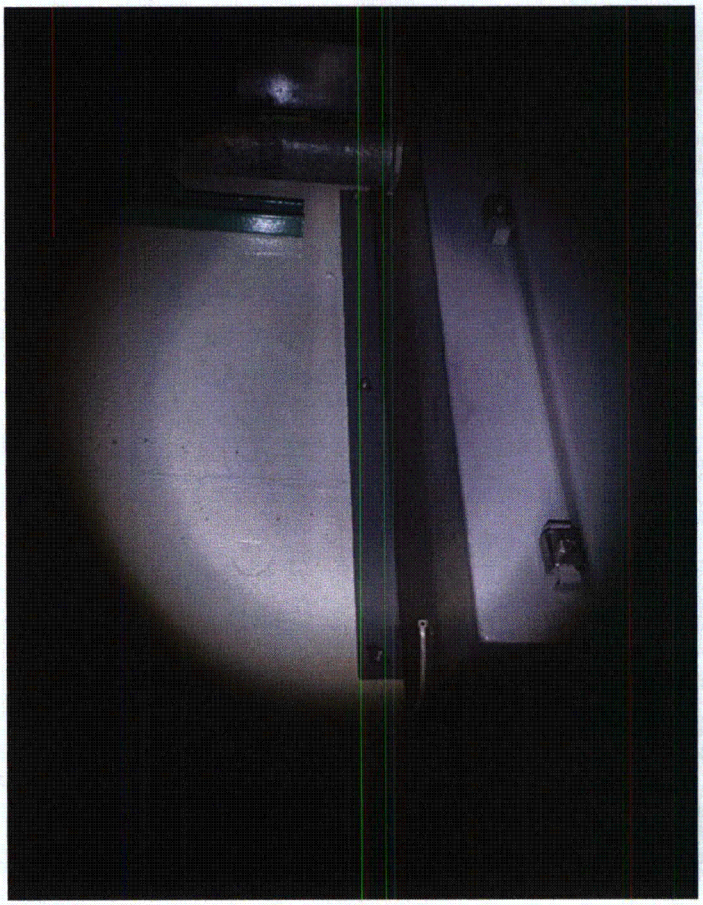
No internal inspection required because hand tools are required for disassembly. 10/3/12

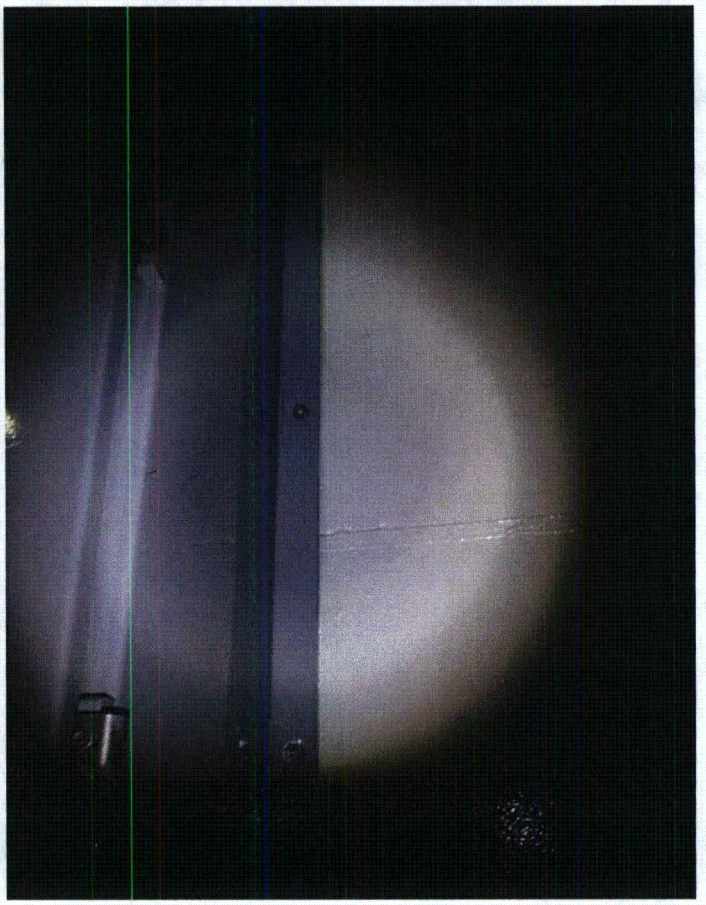
Evaluated by: _____ Date: 9/12/12

Ben _____ 9/10/12


20B338







Status: (Y) N U

Seismic Walkdown Checklist (SWC)

Equipment ID No. 20C003 Equip. Class[12] (20) Control Panels & Cabinets

Equipment Description *Reactor and Containment Cooling and Isolation*

Location: Bldg. *Turbine* Floor El. *165* Room, Area *T2-100*

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☐
   bolt is missing in 20C003-01 cabinet anchorage, IR# 1425673. MO 10/16/12
   Issue addressed in

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☐
   welding meets minimum requirement per Dwg. S-1197 Rev.0.
   (1½"-9") stitch weld. minimum 3 welds.

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

[12] Enter the equipment class name from **Appendix B:** Classes of Equipment.

Equipment ID No. 20C003 Equip. Class[12] (20) Control Panels & Cabinets

Equipment Description *Reactor and Containment Cooling and Isolation*

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☐
   MCR ceiling consistent with Calc 26-5/2-12, Revision 0.
   Calc G-106-1 could not be located. See IR 01428651.

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☐

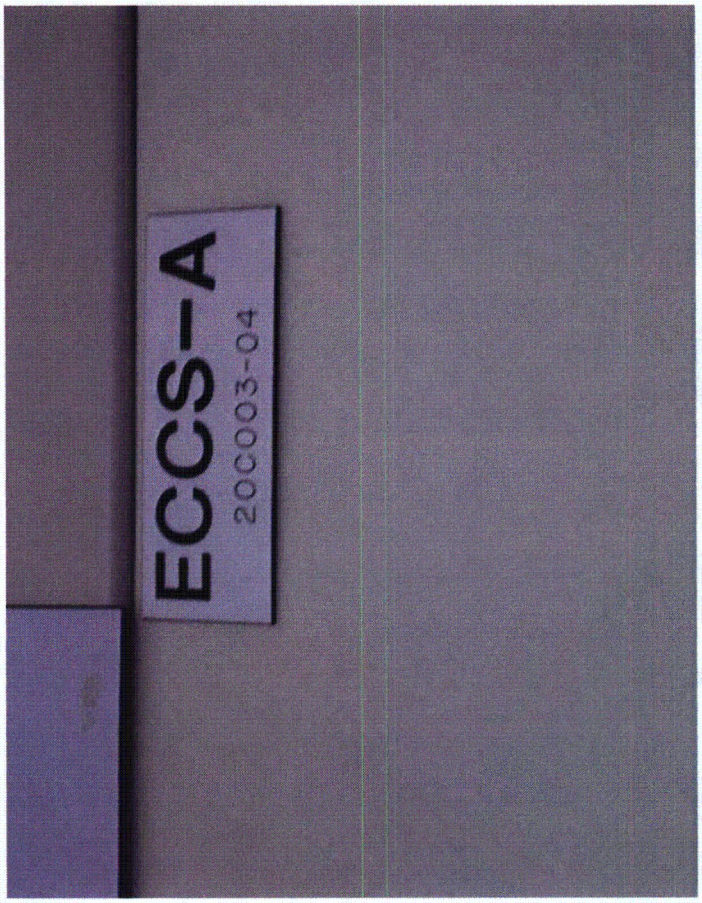
Other Adverse Conditions

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 (Additional pages may be added as necessary)

Evaluated by: [signature] Date: 10/19/12

M. Ogbaci 10/19/12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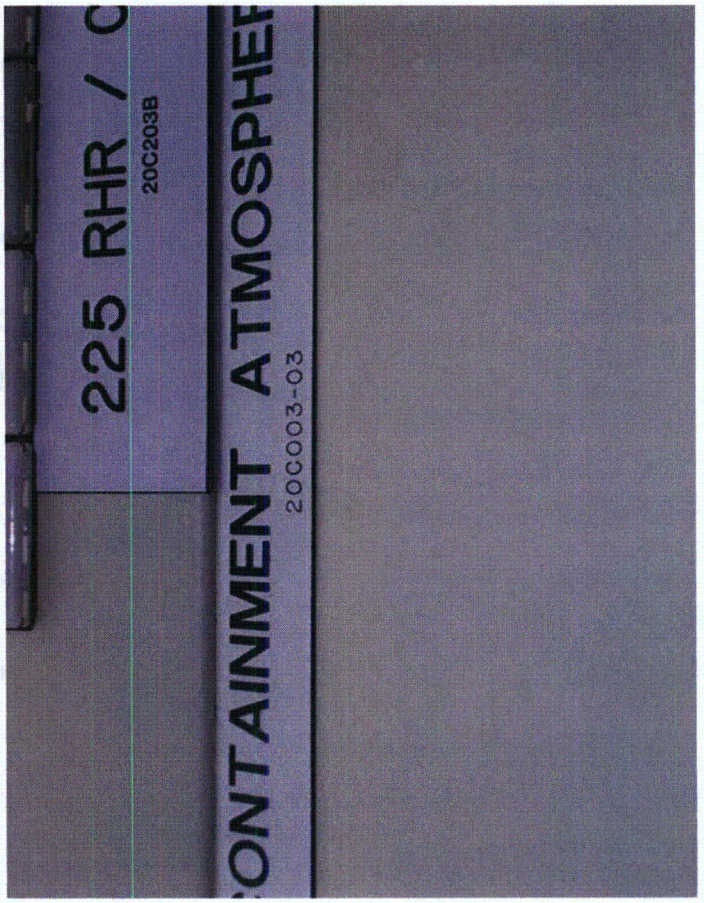
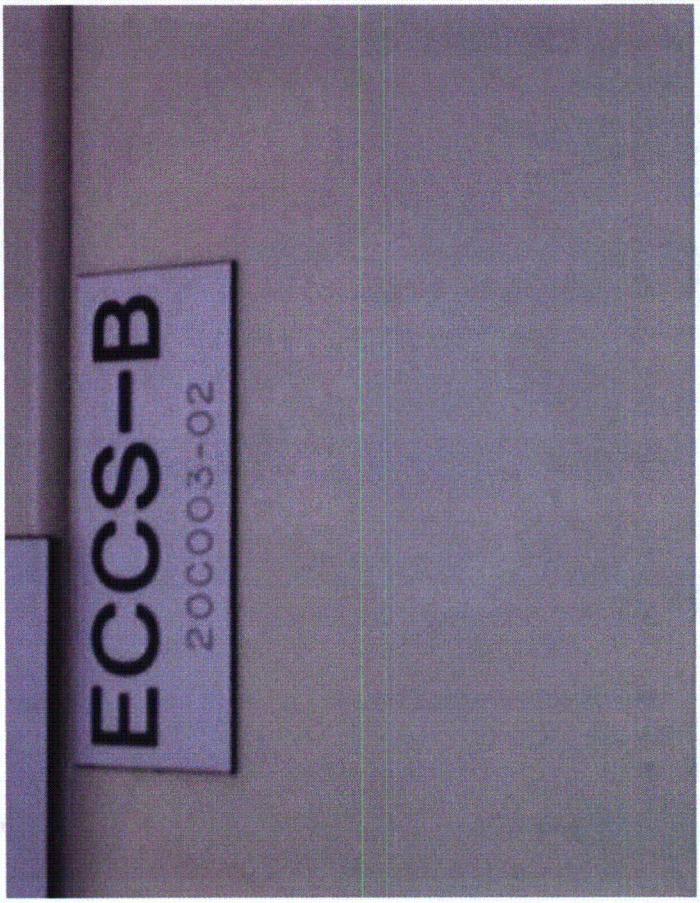
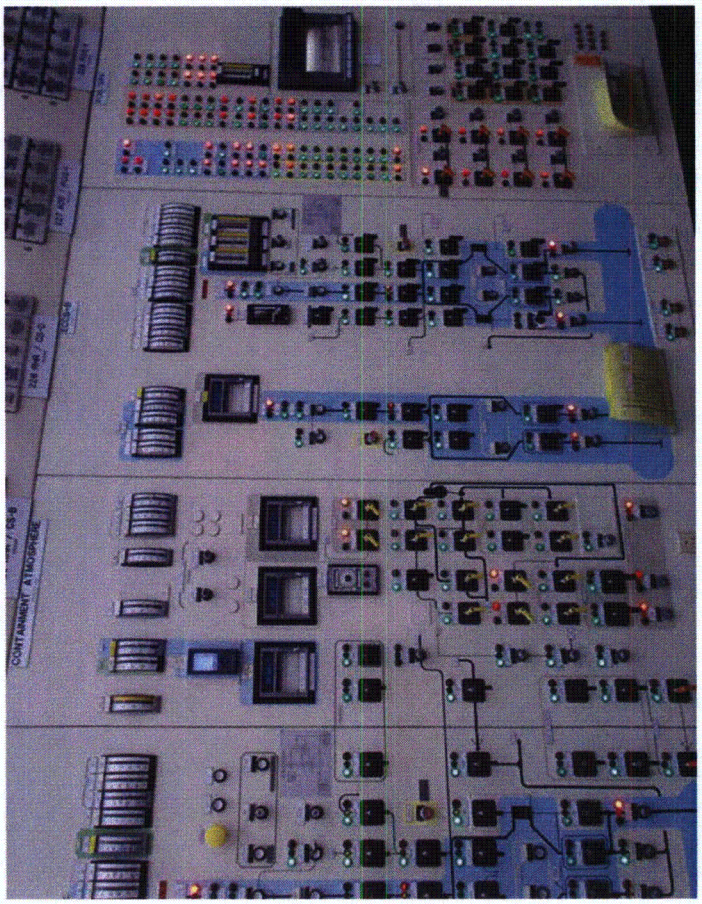
20C003-04

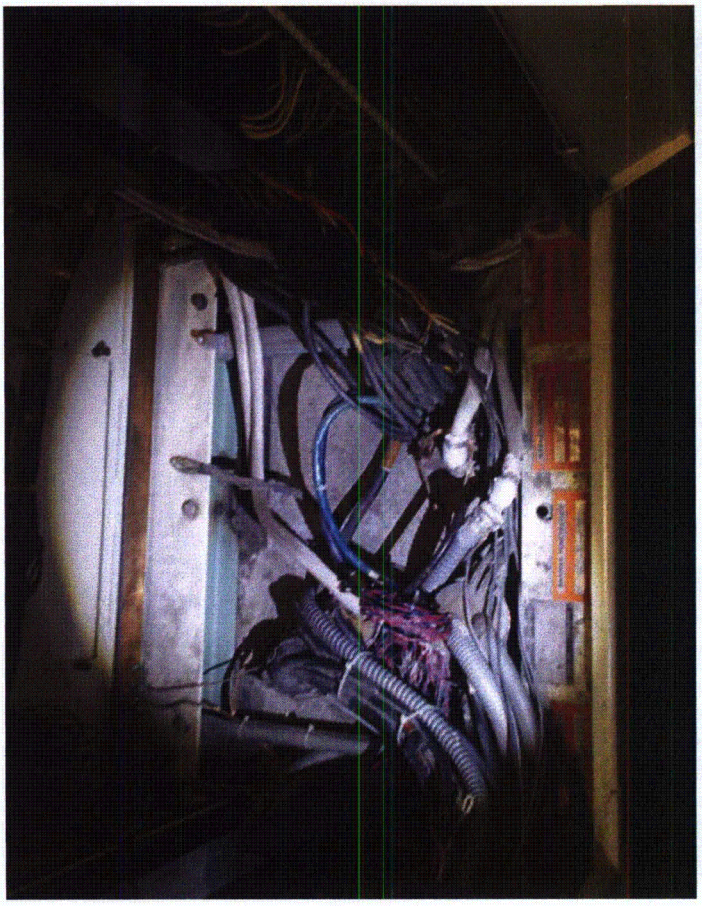

225 RHR /
20C203B
ONTAINMENT ATMOSPHE
20C003-03

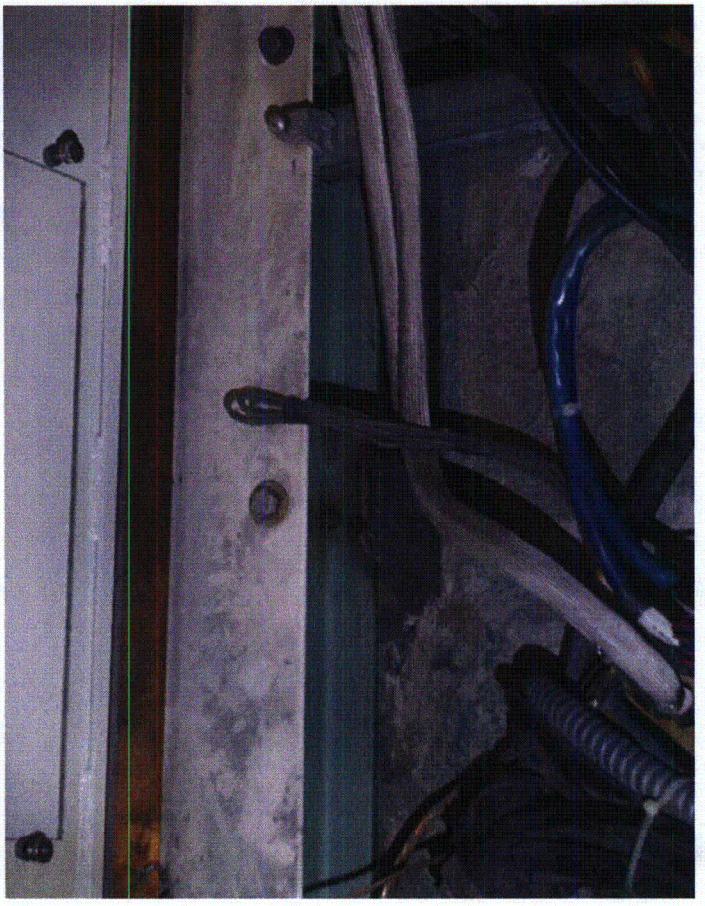

ECCS-B
20C003-02

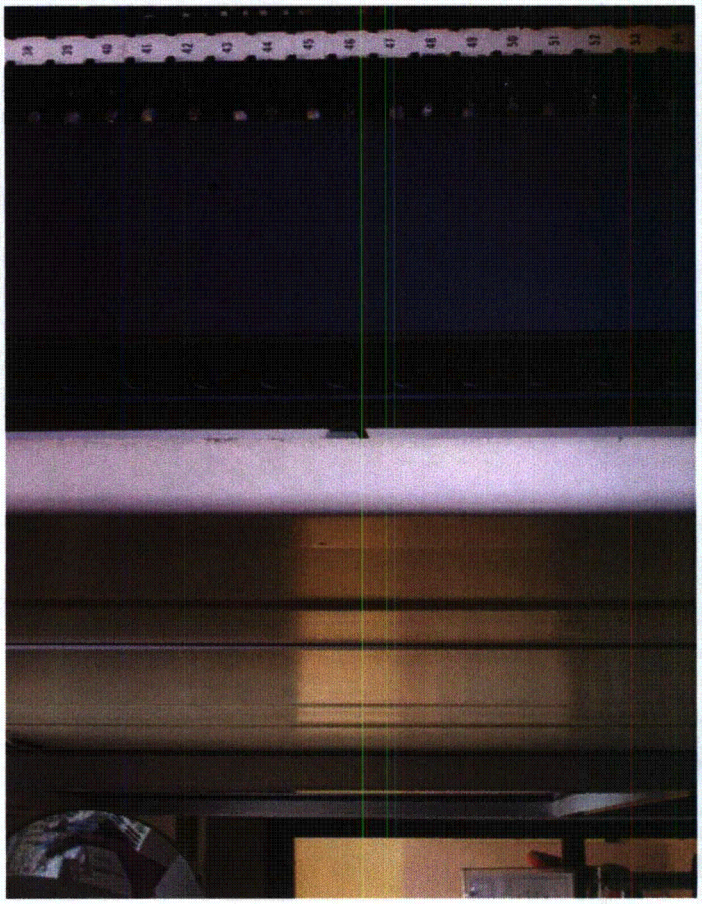

PCIS/SRV
20C003-01
A RHR SAMPLE LINE
OUTBD
C042 B8
I

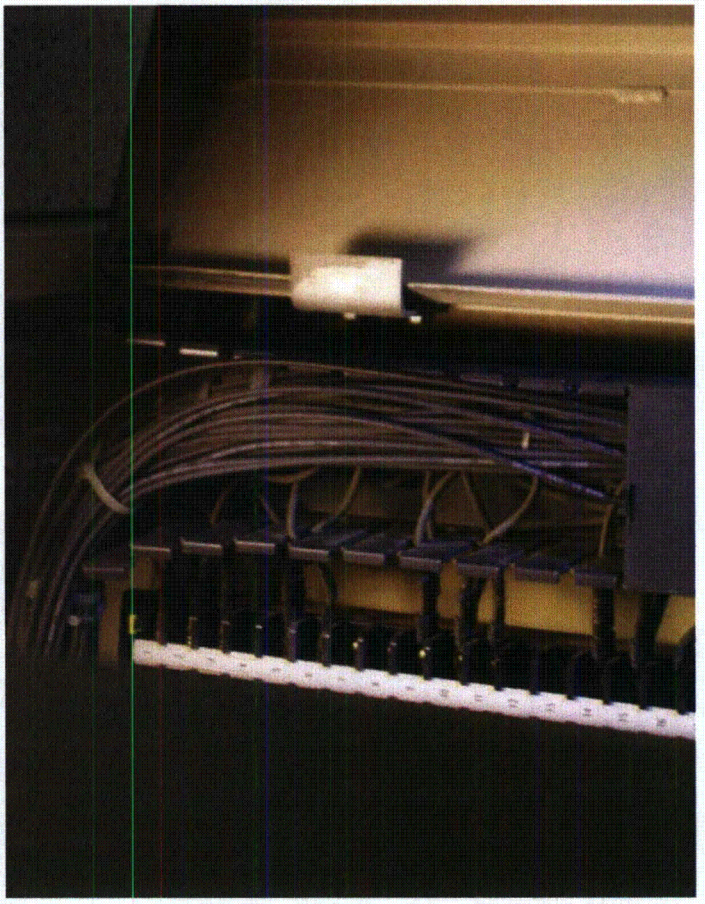
Equipment ID: 20C003

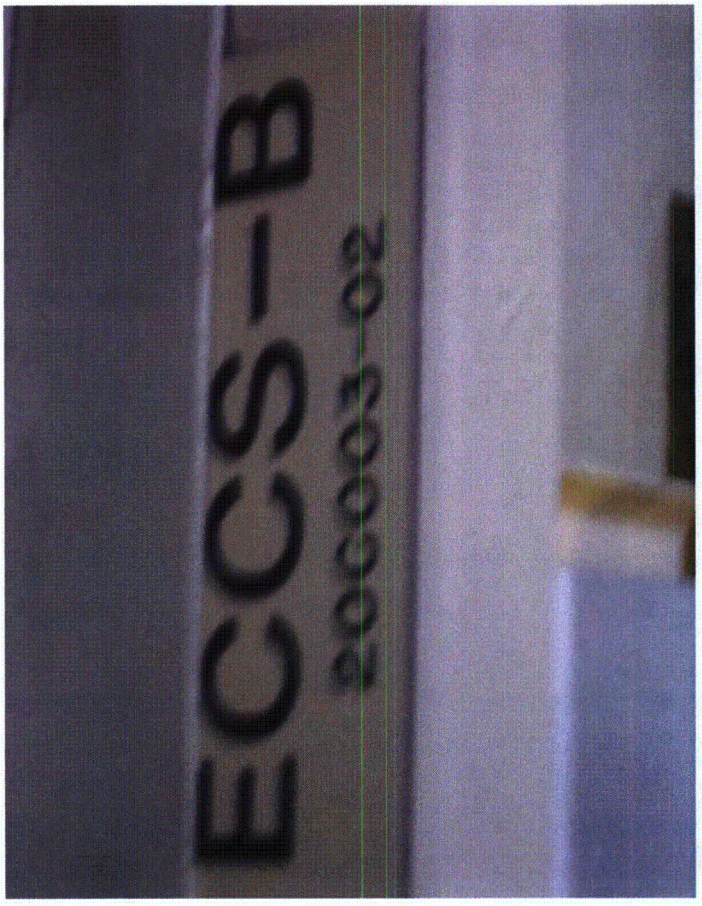








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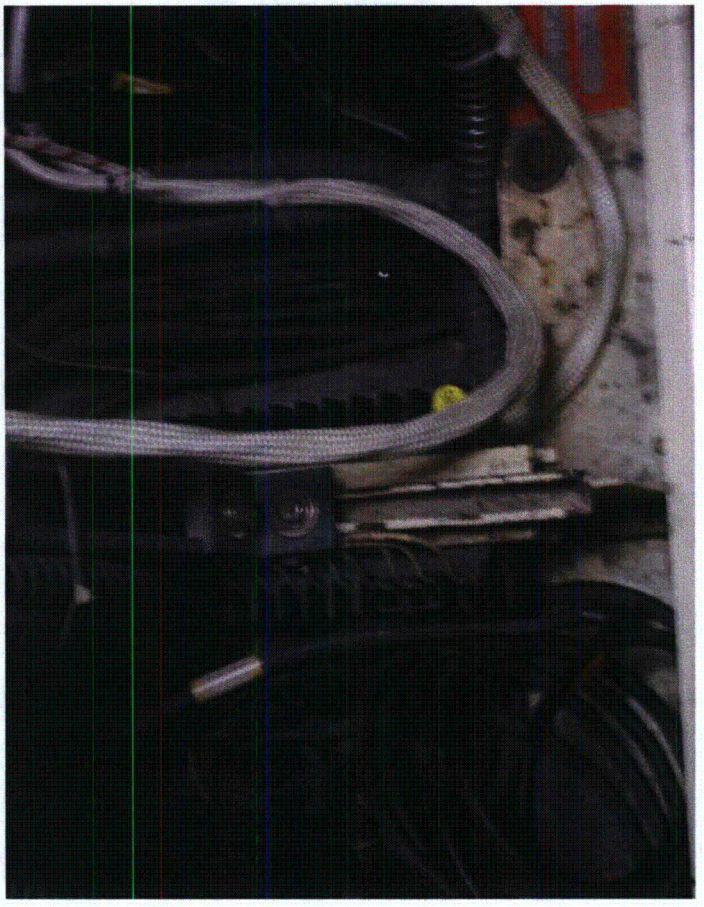
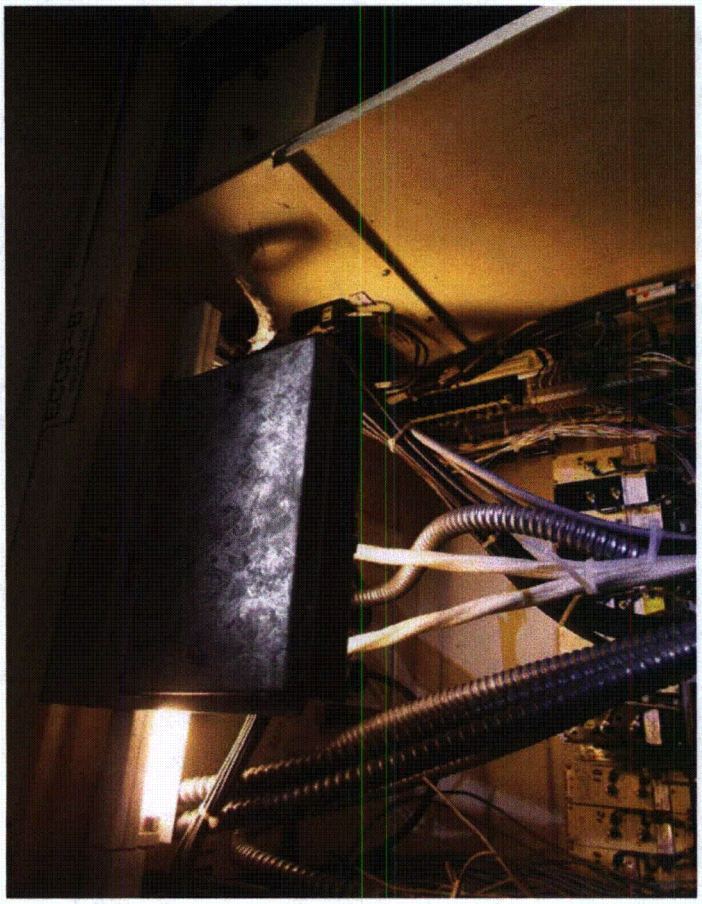
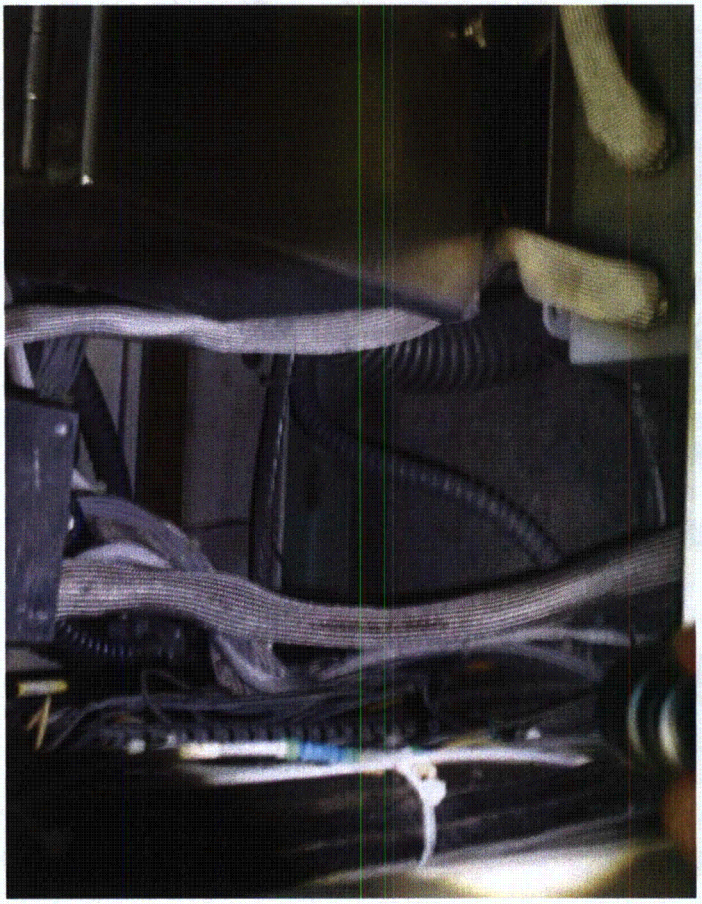
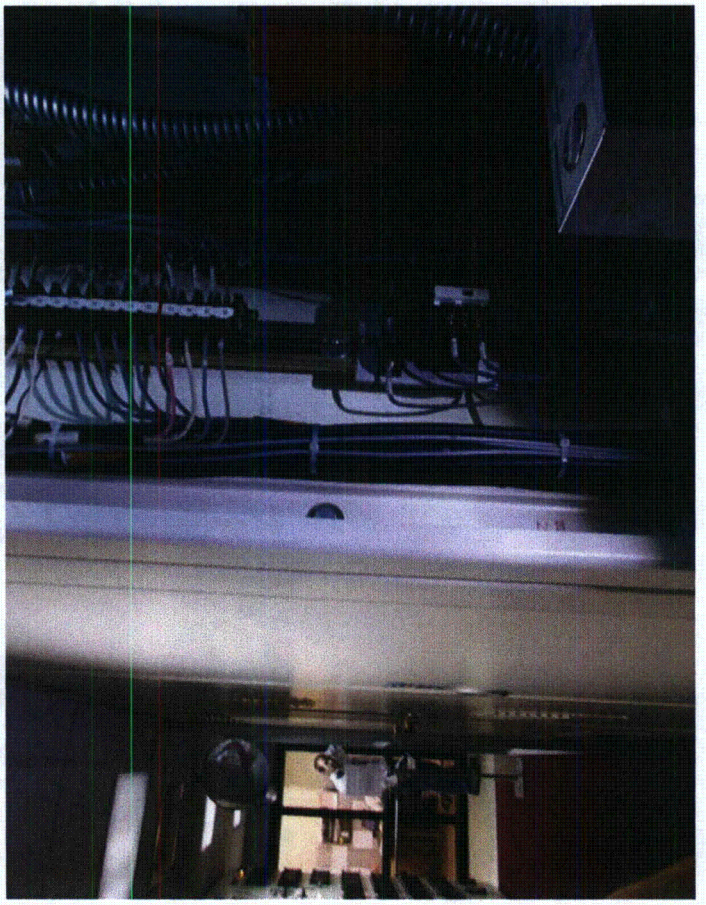
20003-02

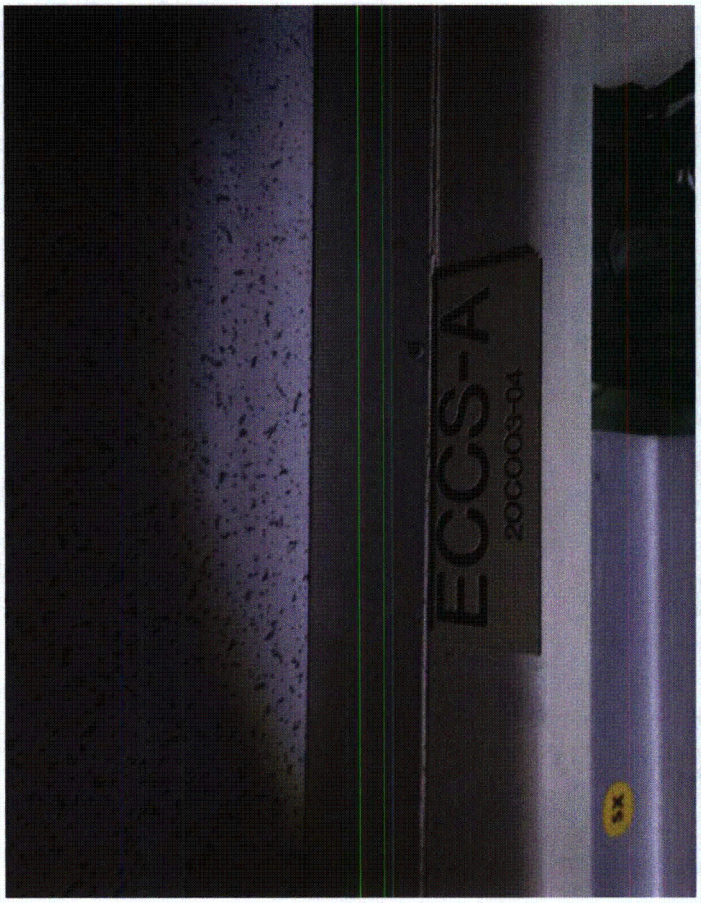





TAINMENT ATMOS
20C003-03



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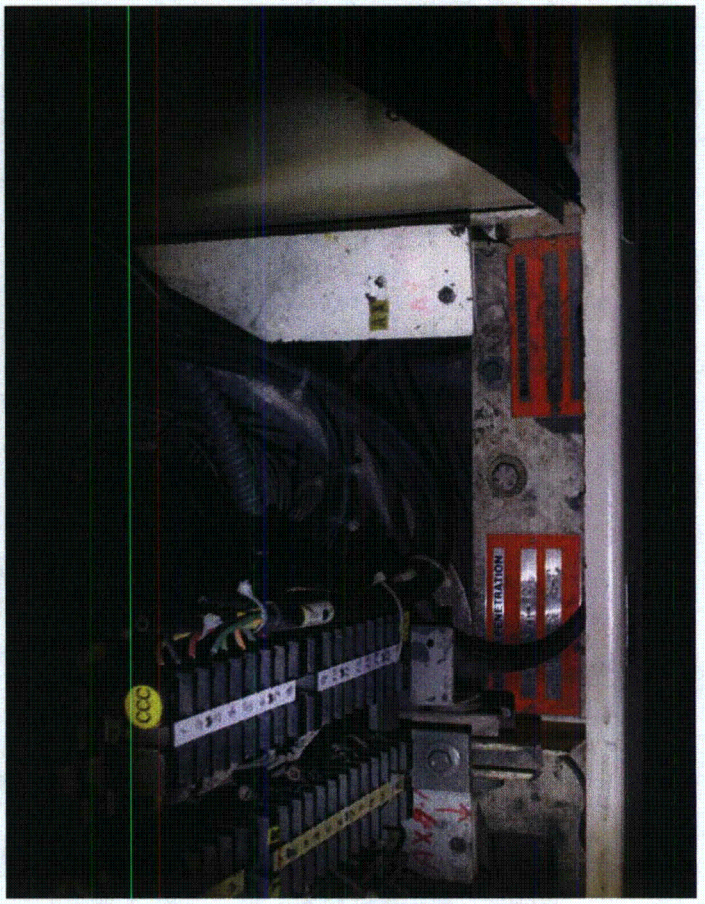
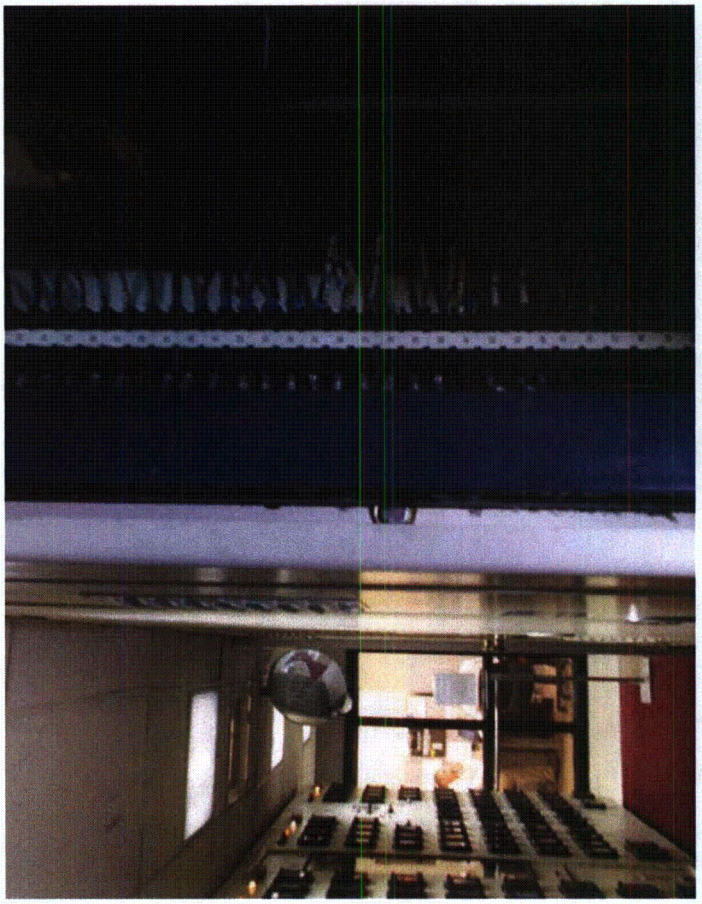
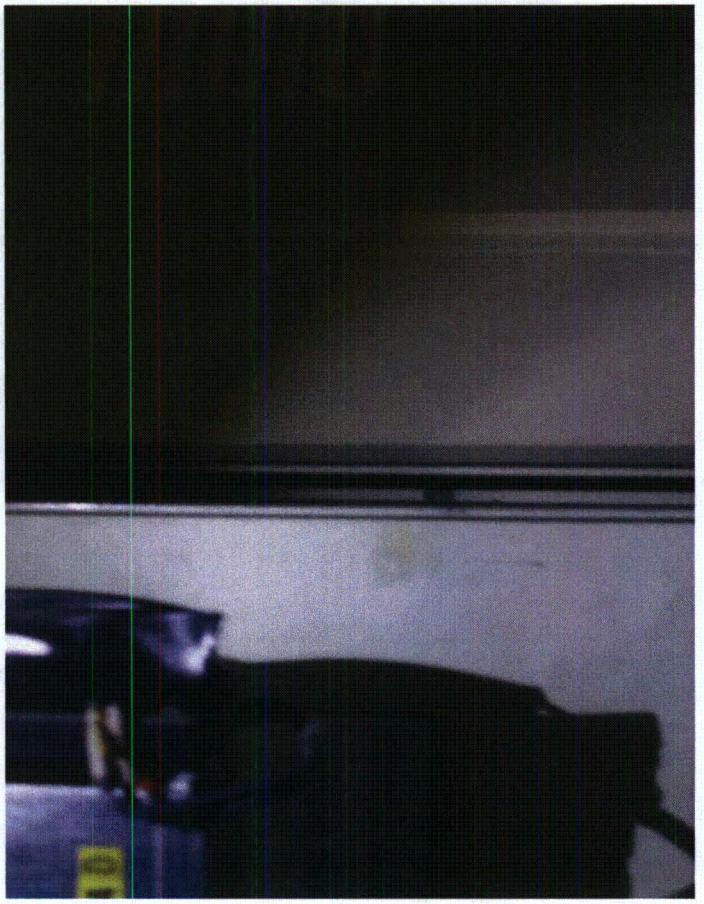






Equipment ID: 20C003

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No. 20C004C Equip. Class[12] (20) Control Panels & Cabinets

Equipment Description *RCIC Control Panel*

Location: Bldg. *Turbine* Floor El. *165* Room, Area *T2-100*

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☐

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☐
   Embedded channel in Concrete. No 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 verified to Drawing S-497, Rev. 0.

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

[12] Enter the equipment class name from **Appendix B:** Classes of Equipment.

Equipment ID No. 20C004C Equip. Class[12] (20) Control Panels & Cabinets

Equipment Description *RCIC Control Panel*

Interaction Effects

7. Are soft targets free from impact by nearby equipment or structures? Y☒ N☐ U☐ N/A☐
~~No soft targets outside of cabinet~~ MO 8/31/12

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☐
Damage from falling tiles not credible.
MCR ceiling consistent with calc 20-5/2-12, Revision 0, Calc G-106-1 could not be located. See IR 01428651.

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☐

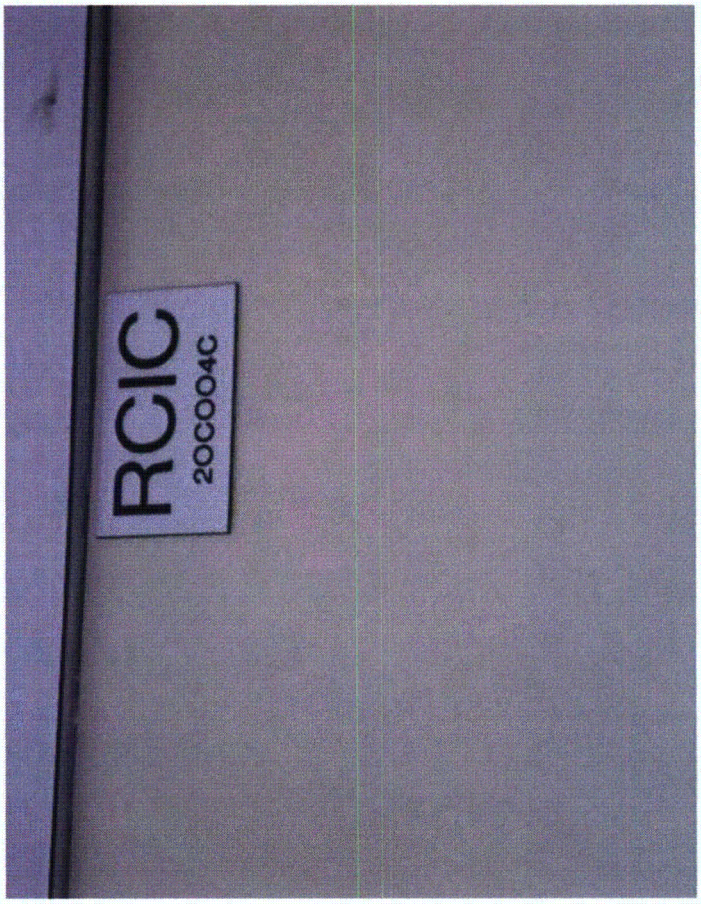
Other Adverse Conditions

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

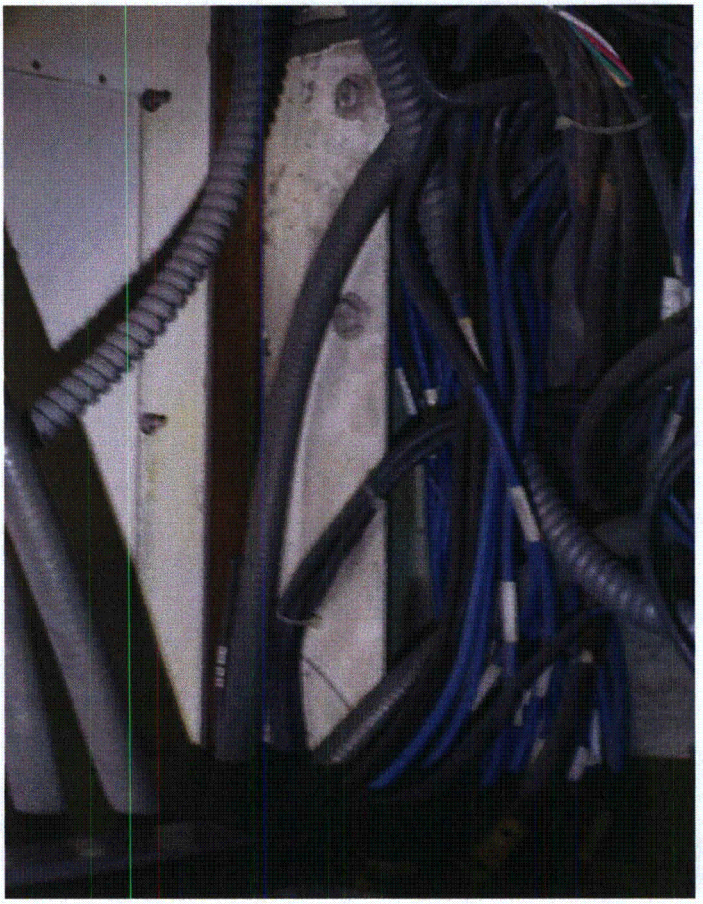
Comments (Additional pages may be added as necessary)

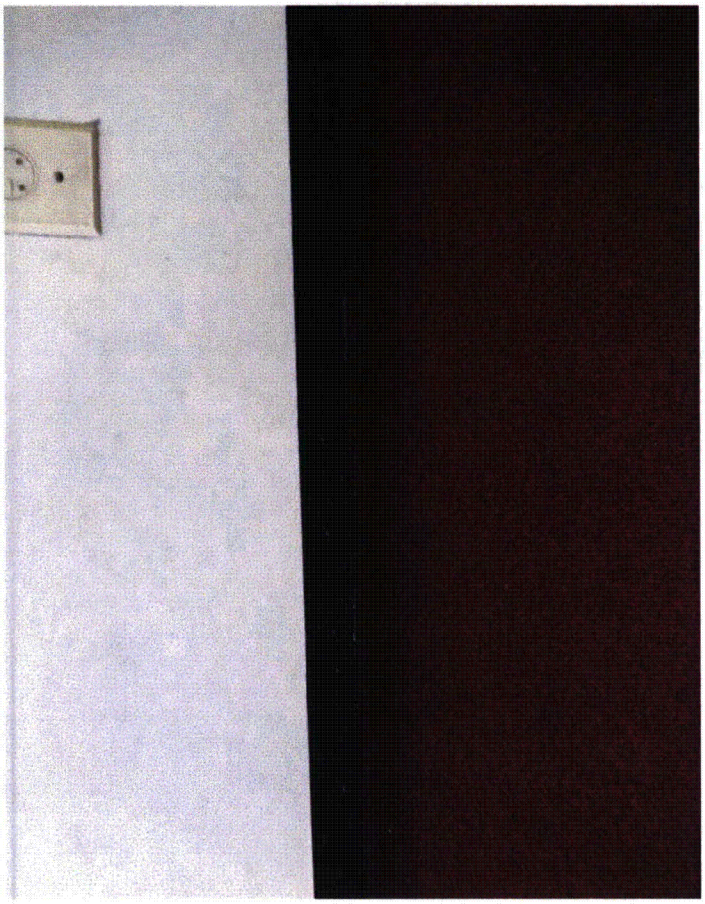
Evaluated by: Ben Jay Date: 10/19/12

M. Oghbaei 10/19/12


RCIC
20C004C


RCIC
20C004C





Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No. 20C005A Equip. Class[12] (20) Control Panels & Cabinets

Equipment Description *Reactor Manual Control Panel*

Location: Bldg. *Turbine* Floor El. *165* Room, Area ***T2-100***

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☐

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☐

   Anchorage confirmed per S-1197 sheet 1 of 3, Rev 0, and sheet 2 of 3, Rev 0.

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

[12] Enter the equipment class name from **Appendix B:** Classes of Equipment.

Equipment ID No. 20C005A Equip. Class[12] (20) Control Panels & Cabinets

Equipment Description *Reactor Manual Control Panel*

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☐
   MCR ceiling consistent with Calc 26-5/2-12, Revision 0, Calc G-106-1 could not be located. See IR 01428651.

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☐

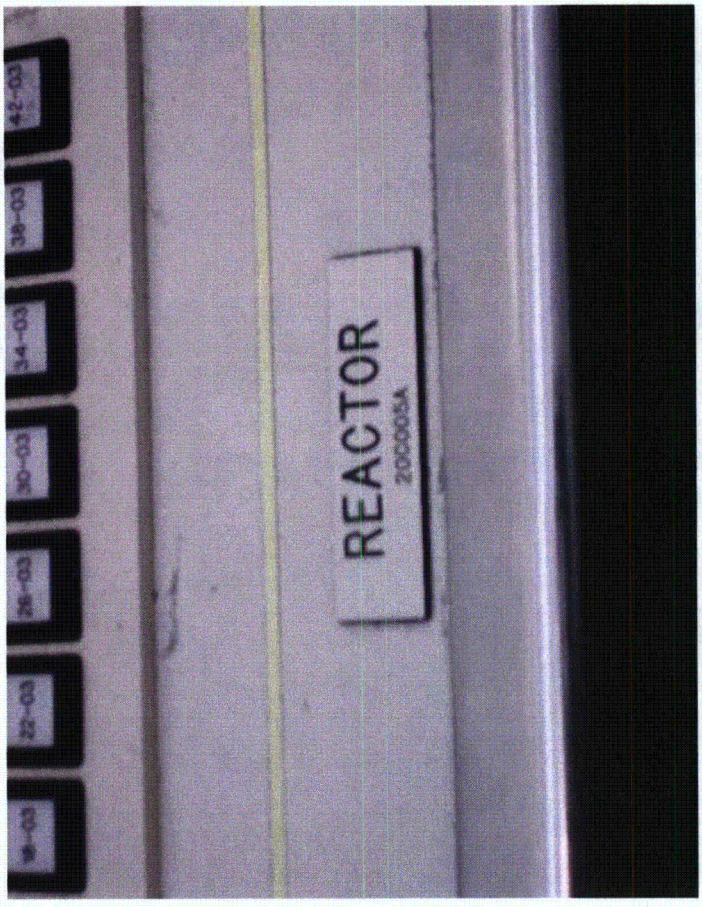
Other Adverse Conditions

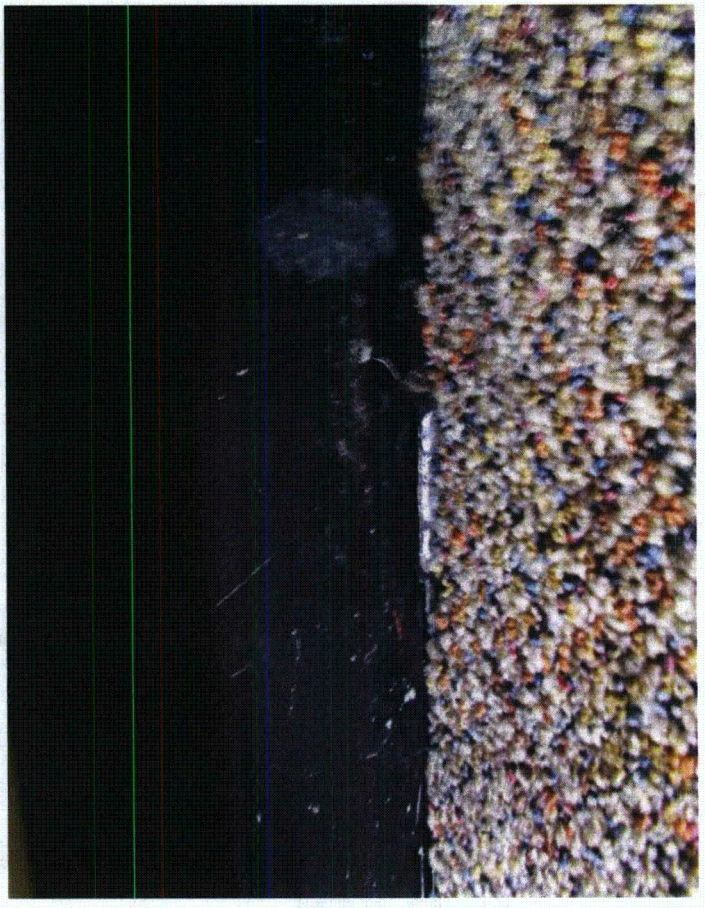
11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? Y☒ N☐ U☐
    No bolting present at connection to adjacent cabinet. Review of design documentation indicated that bolting is not credited.

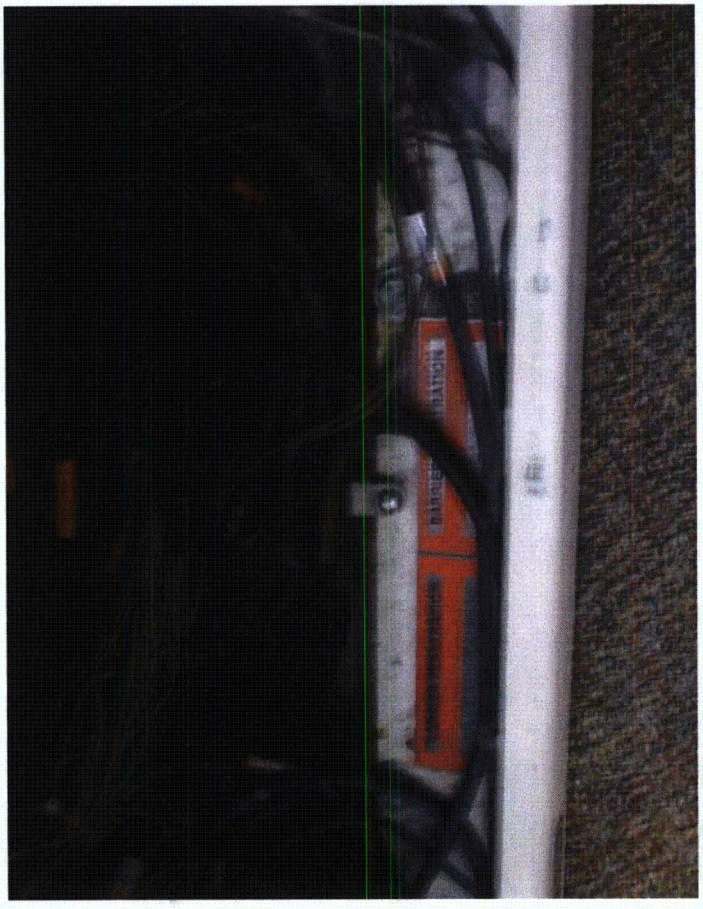
Comments (Additional pages may be added as necessary)

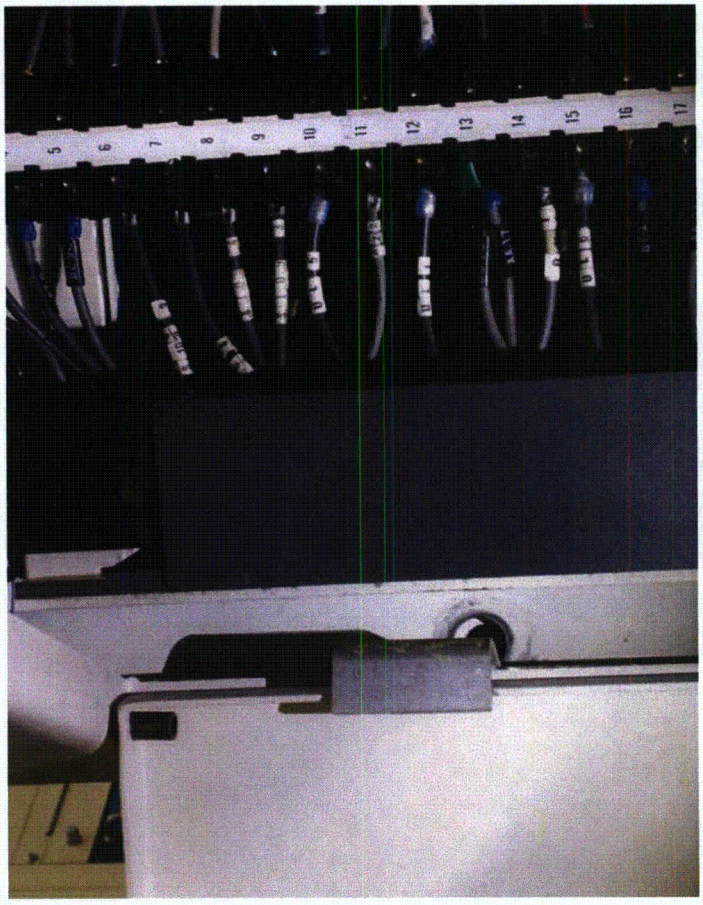
Evaluated by: [signature] Date: 10/19/12

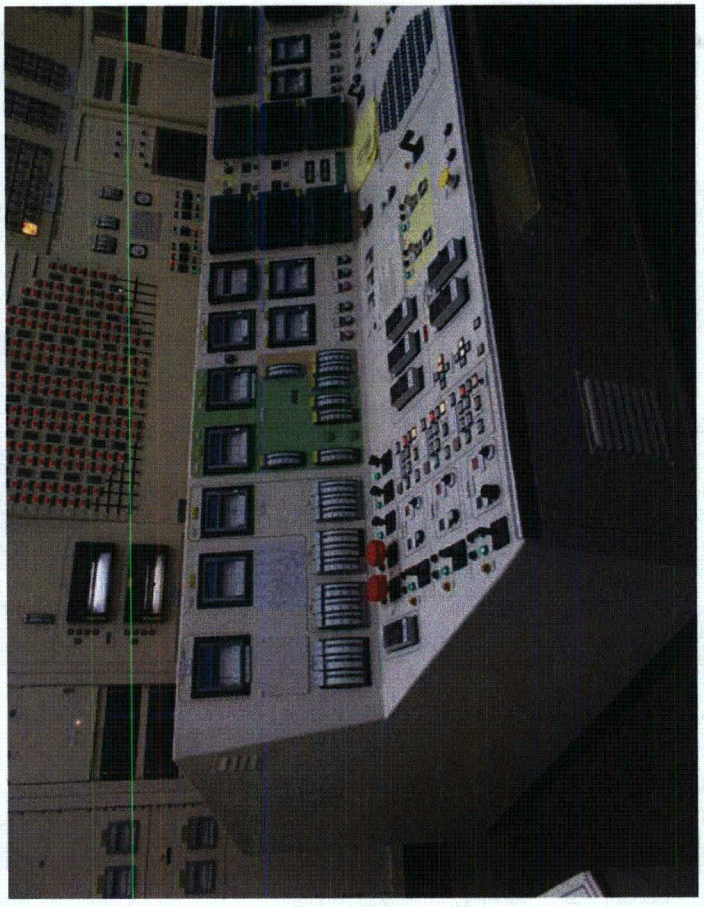
M. Oghbaei 10/19/12

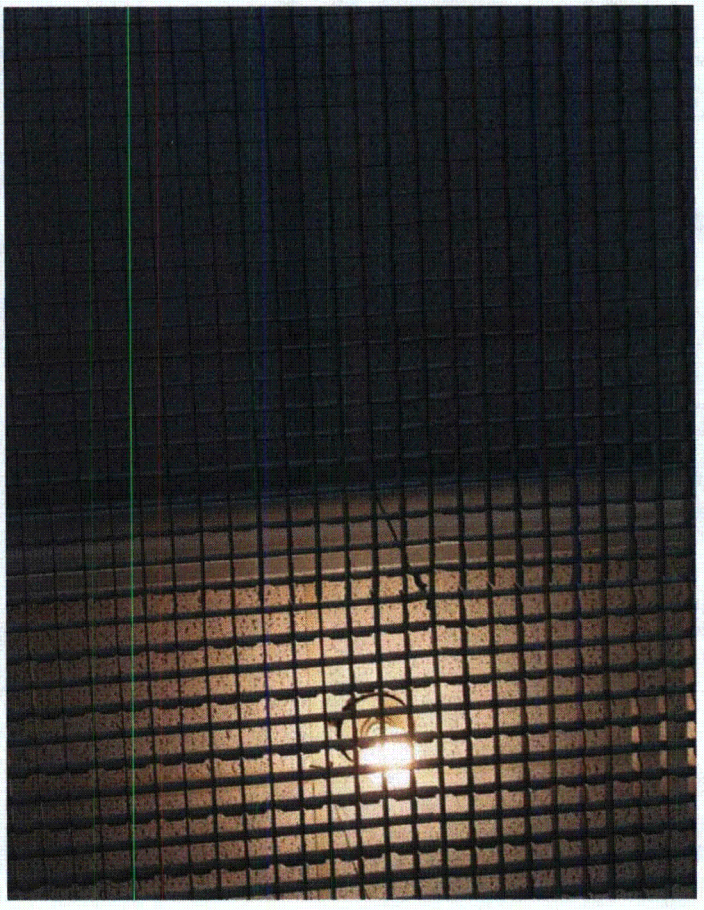

REACTOR
20C005A



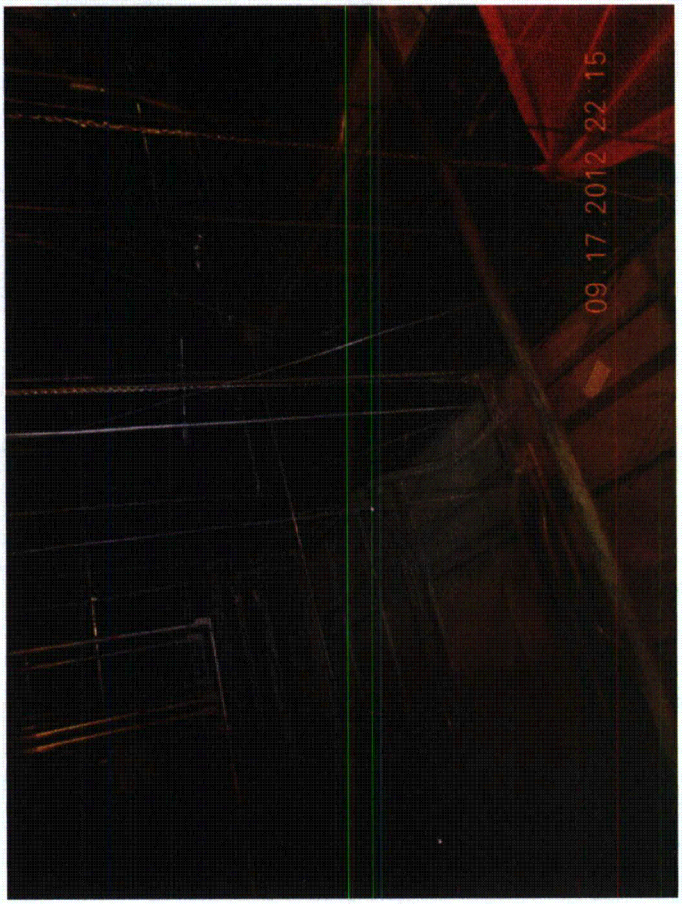








Equipment ID: 20C005A



Status: (Y) N U

Seismic Walkdown Checklist (SWC)

Equipment ID No. 20C006C Equip. Class[12] (20) Control Panels & Cabinets

Equipment Description *Main Control Room Console*

Location: Bldg. *Turbine* Floor El. *165* Room, Area *T2-100*

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☐

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☐
   Embedded channel in concrete. No crack 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 confirmed per S-1197 sheet 1 of 3, rev 0, and sheet 2 of 3, rev 0.

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

[12] Enter the equipment class name from **Appendix B:** Classes of Equipment.

Equipment ID No. 20C006C Equip. Class[12] (20) Control Panels & Cabinets

Equipment Description *Main Control Room Console*

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☐
   MCR ceiling consistent with Calc 26-5/2-12, Revision 0. Calc 6-106-1 could not be located. See IR 01428651.

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☐

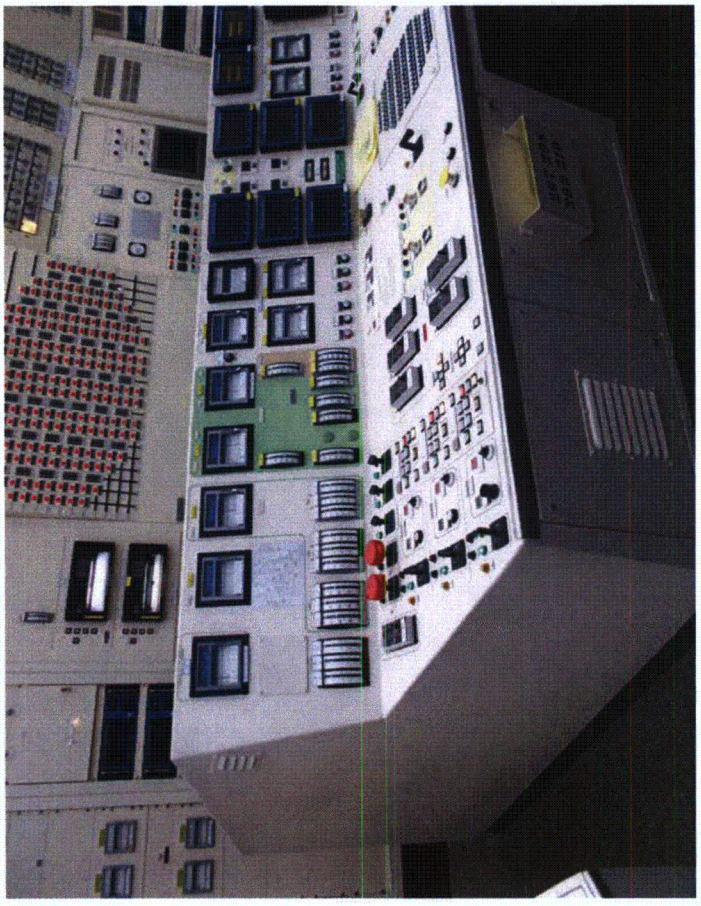
Other Adverse Conditions

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 (Additional pages may be added as necessary)

Evaluated by: _____ Date: 10/19/12

M. Ogbaci 10/19/12



Status: (Y) N U

Seismic Walkdown Checklist (SWC)

Equipment ID No. 20C39 Equip. Class[12] (20) Control Panels & Cabinets

Equipment Description ~~Accident Monitoring Instrumentation Panel~~ HPCI Relay Cabinet MO 9/25/12

Location: Bldg. *Turbine* Floor El. *150* Room, Area *T2-81*

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☐

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☐
   stitch fillet welded to embedded channel. Concrete adjacent to embedded channel free of 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☐
   stitch weld verified to drawing S-1198, Rev. 0
   cabinet bolted to adjacent cabinets.

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☒ N☐ U☐
   Cabinet was opened for walkdown inspection.

[12] Enter the equipment class name from **Appendix B:** Classes of Equipment.

Equipment ID No. 20C39 Equip. Class[12] (20) Control Panels & Cabinets

Equipment Description ~~Accident Monitoring Instrumentation Panel~~ HPCI Relay Cabinet MO 9/25/12

Interaction Effects

7. Are soft targets free from impact by nearby equipment or structures? Y☒ N☐ U☐ N/A☐
   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☐
   Flourescent light fixture hard mounted. Damage from falling flourescent bulbs not credible. No ceiling tiles.
   No masonry walls.

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☐

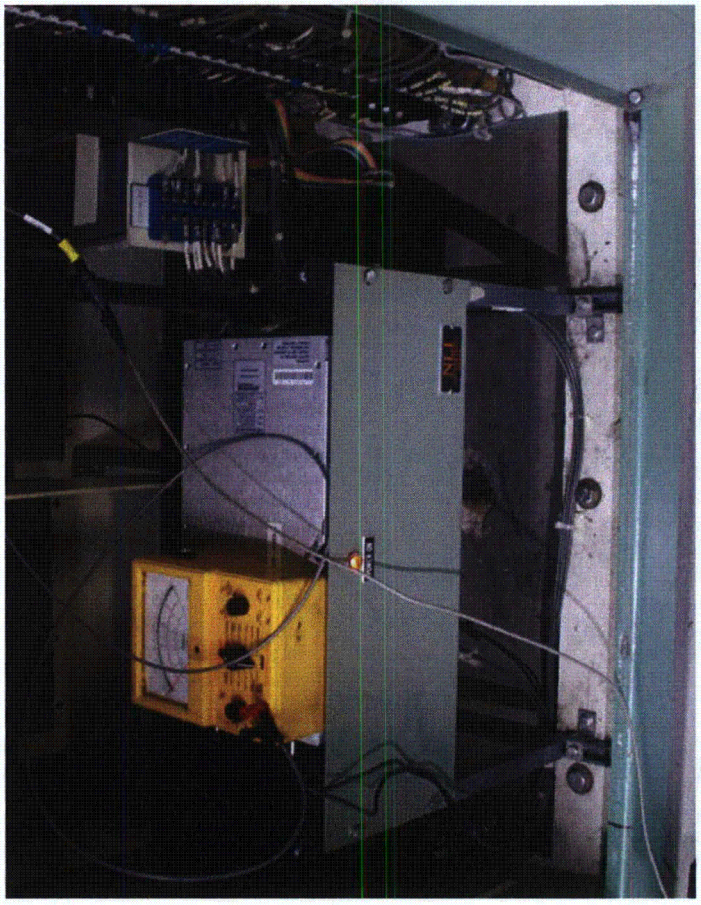
Comments (Additional pages may be added as necessary)

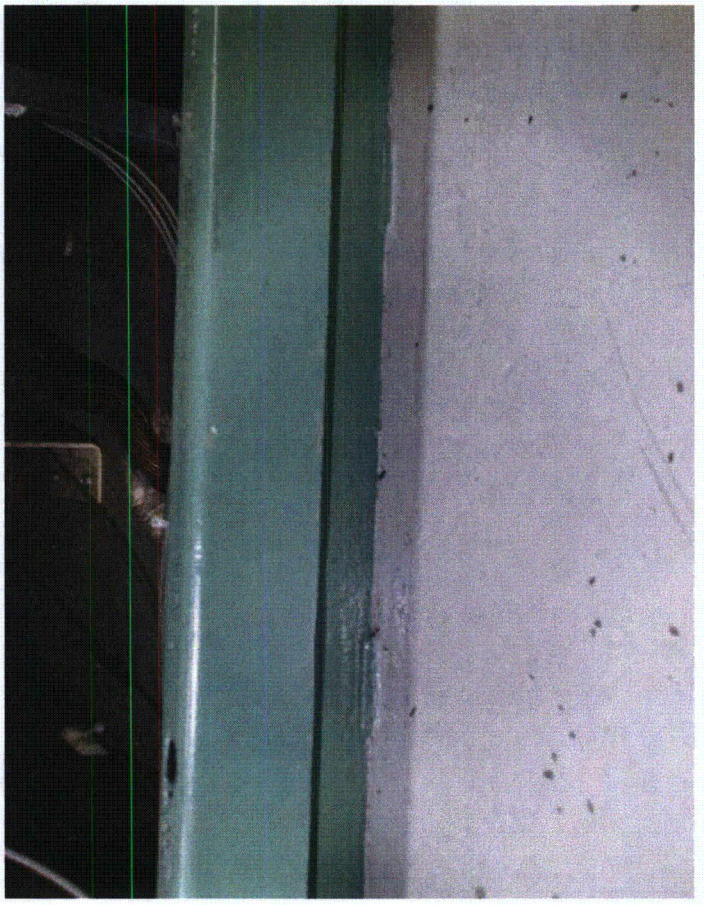
Evaluated by: Ben Jay Date: 8/29/12

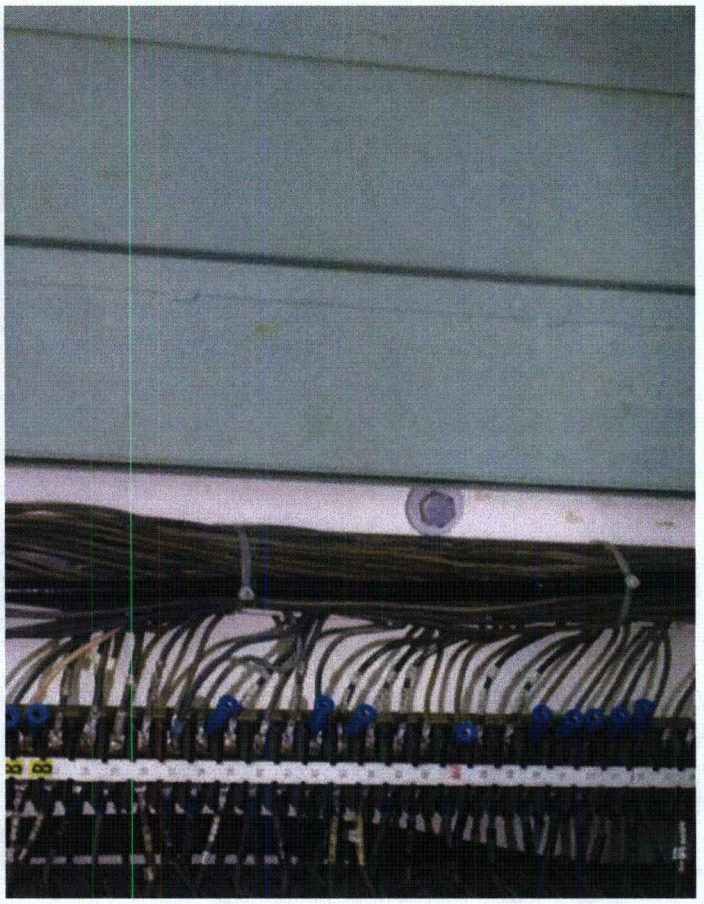
M. J. Bacin 8/29/12

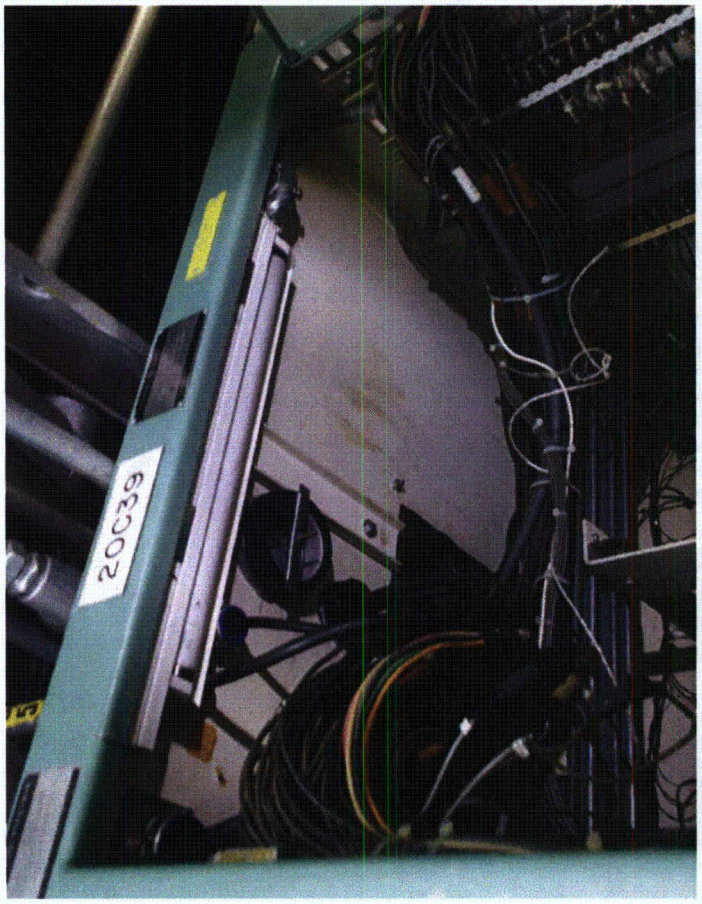

20C39


NOTICE








20C39


20C39
HPCI RELAYS
ESS II


NOTICE

Status: (Y) N U

Seismic Walkdown Checklist (SWC)

Equipment ID No. 20C722A Equip. Class[12] (20) Control Panels & Cabinets

Equipment Description *Accident Monitoring Instrumentation Panel*

Location: Bldg. *Turbine* Floor El. *150* Room, Area *T2-81*

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☐

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

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☒ N☐ U☐ N/A☐
   ~~plugs~~ Plug welds to embedded channel and no cracks in adjacent concrete
   8/29/12

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☐
   Plug welds consistent with drawing S-1198, Rev. 0.

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☒ N☐ U☐
   Cabinet welded at top to adjacent cabinet.

[12] Enter the equipment class name from **Appendix B:** Classes of Equipment.

Equipment ID No. 20C722A Equip. Class[12] (20) Control Panels & Cabinets

Equipment Description *Accident Monitoring Instrumentation Panel*

Interaction Effects

7. Are soft targets free from impact by nearby equipment or structures? Y☒ N☐ U☐ N/A☐
   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☐
   Flourescent lighting is hard mounted. Damage to component from falling Flourescent bulbs is not credible.
   No ceiling tiles, no masonry block walls.

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 (Additional pages may be added as necessary)

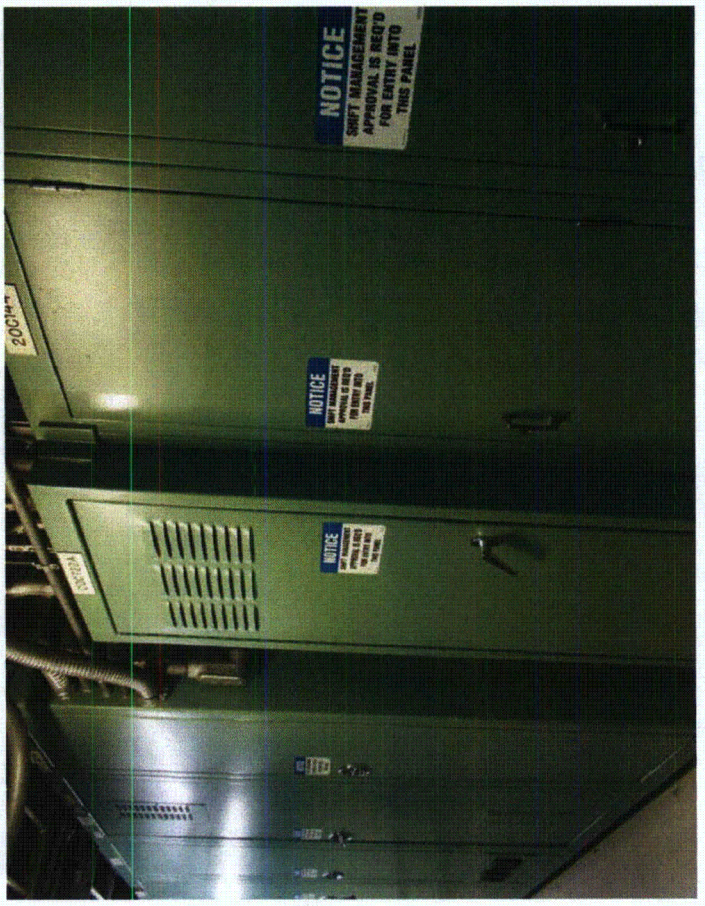
IPEEE - Adjacent cabinets will be tied together front and back. Table will be blocked and located so tipping will not cause impact. Cushoning will be provided between adjacent non-safety cabinets and impact loading will be evaluated.

Cabinet welded to adjacent cabinet.

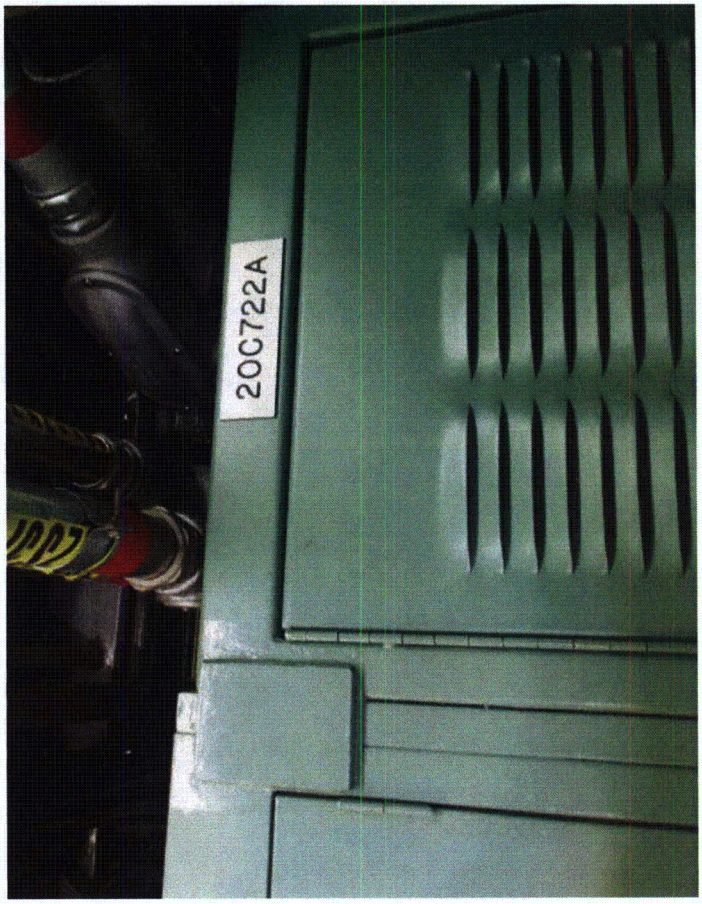
Evaluated by: Ben Fay Date: 8/29/12

M. Gallace 8/29/12

Equipment ID: 20C722A



Equipment ID: 20C722A



Status: (Y) N U

Seismic Walkdown Checklist (SWC)

Equipment ID No. 20C87 Equip. Class[12] (18) Instruments on Racks / Not on Racks

Equipment Description *HPCI Instrument Rack*

Location: Bldg. *Reactor* Floor El. *88* Room, Area ***R2-15***

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☐

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☐

[12] Enter the equipment class name from **Appendix B:** Classes of Equipment.

Equipment ID No. 20C87 Equip. Class[12] (18) Instruments on Racks / Not on Racks

Equipment Description *HPCI Instrument Rack*

Interaction Effects

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

~~No soft targets~~ gw 9/17/2012

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☐

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 (Additional pages may be added as necessary)

N/A

Evaluated by: James Wiggin Date: 9/17/2012

9/17/2012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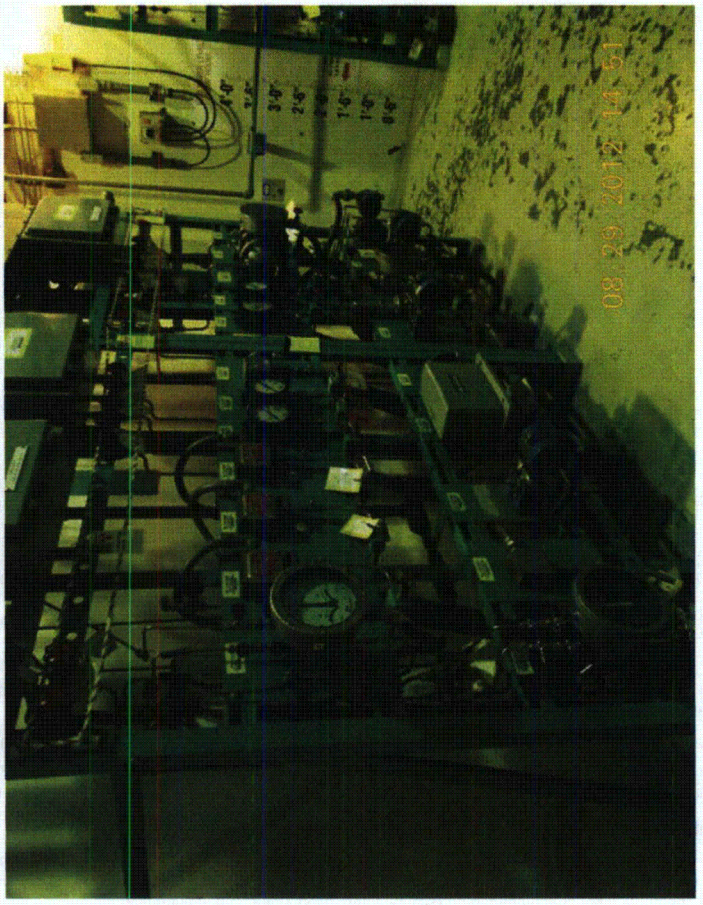
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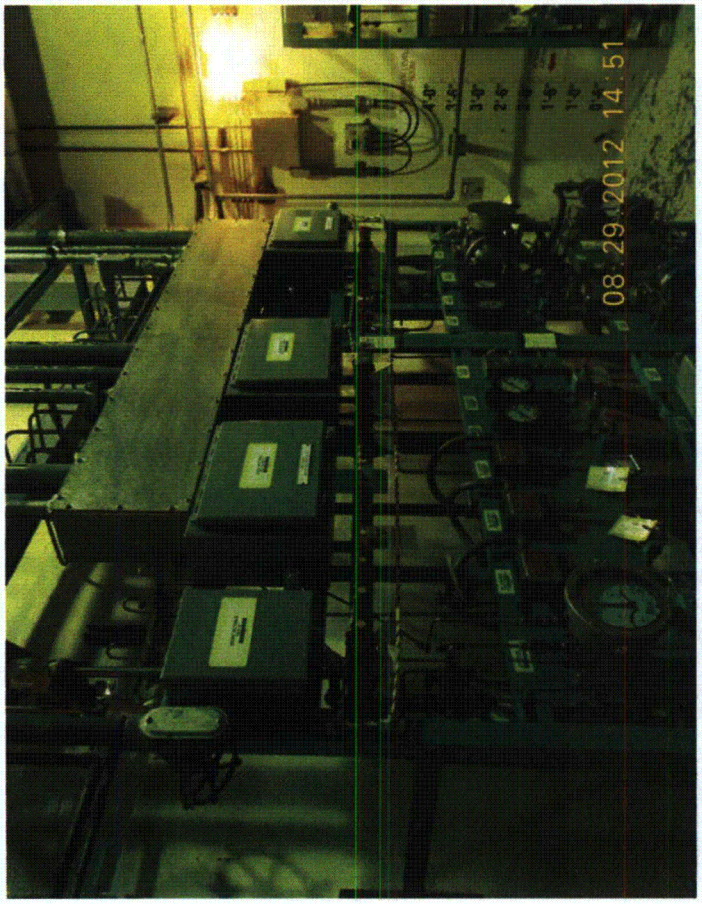
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Status: (Y) N U

Seismic Walkdown Checklist (SWC)

Equipment ID No. 20C95 Equip. Class[12] (18) Instruments on Racks / Not on Racks

Equipment Description *RCIC Instrument Rack*

Location: Bldg. *Reactor* Floor El. *88* Room, Area *R2-15*

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☐

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

gmr 9/17/2012

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☒ N☒ U☐ N/A☐
Crack near wall support judged acceptable based on other nearby wall support and inherent support from numerous conduits feeding instrument rack.

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☐

[12] Enter the equipment class name from **Appendix B:** Classes of Equipment.

Equipment ID No. 20C95 Equip. Class[12] (18) Instruments on Racks / Not on Racks

Equipment Description *RCIC Instrument Rack*

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☐

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☐

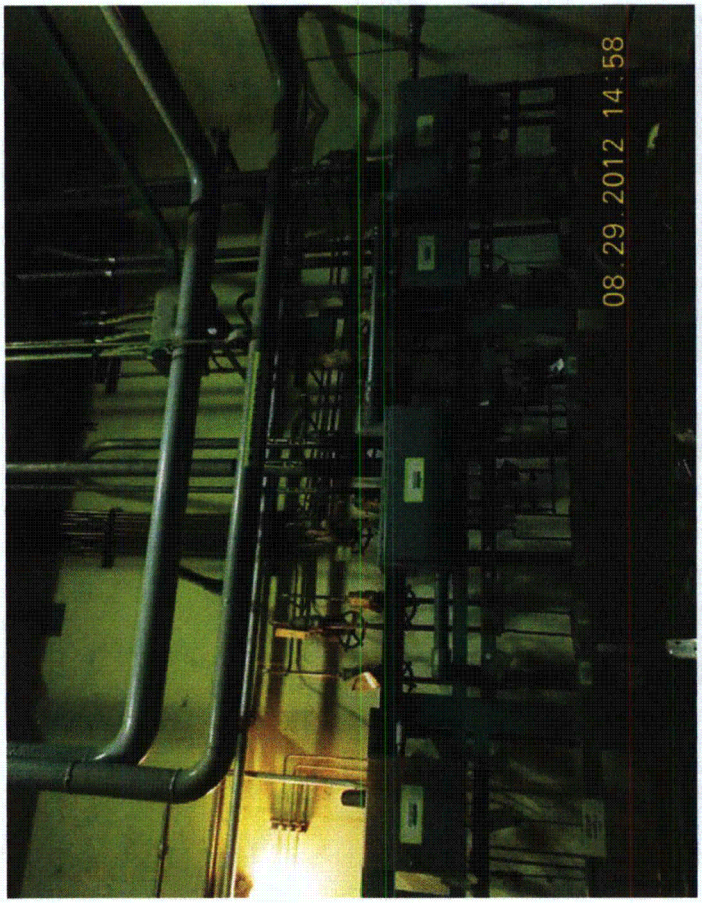
Comments (Additional pages may be added as necessary)

N/A

Evaluated by: James Wiggins Date: 9/17/2012

9/17/2012

Equipment ID: 20C095

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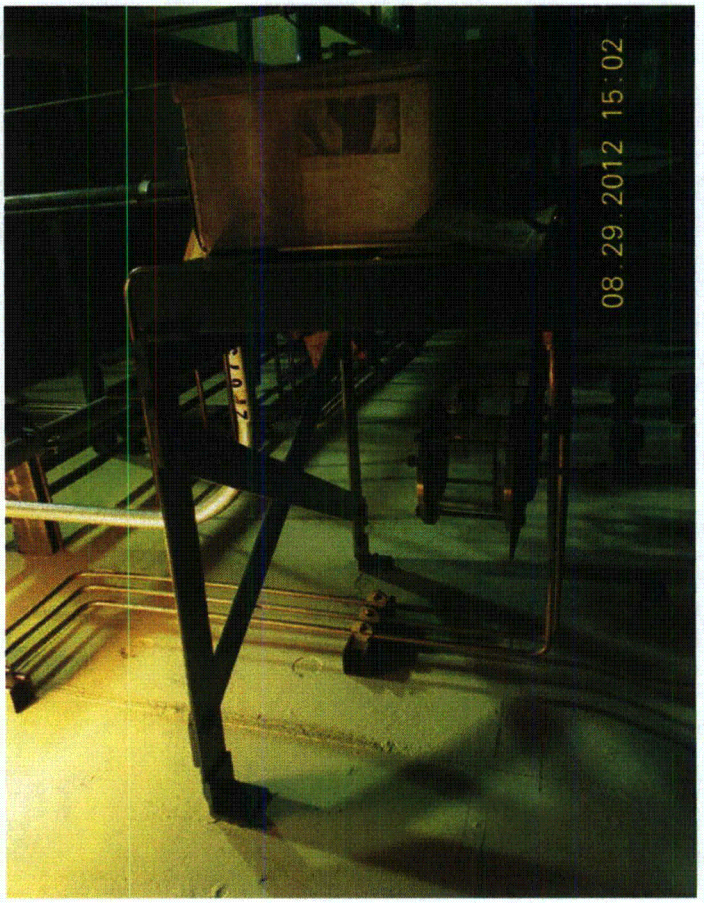
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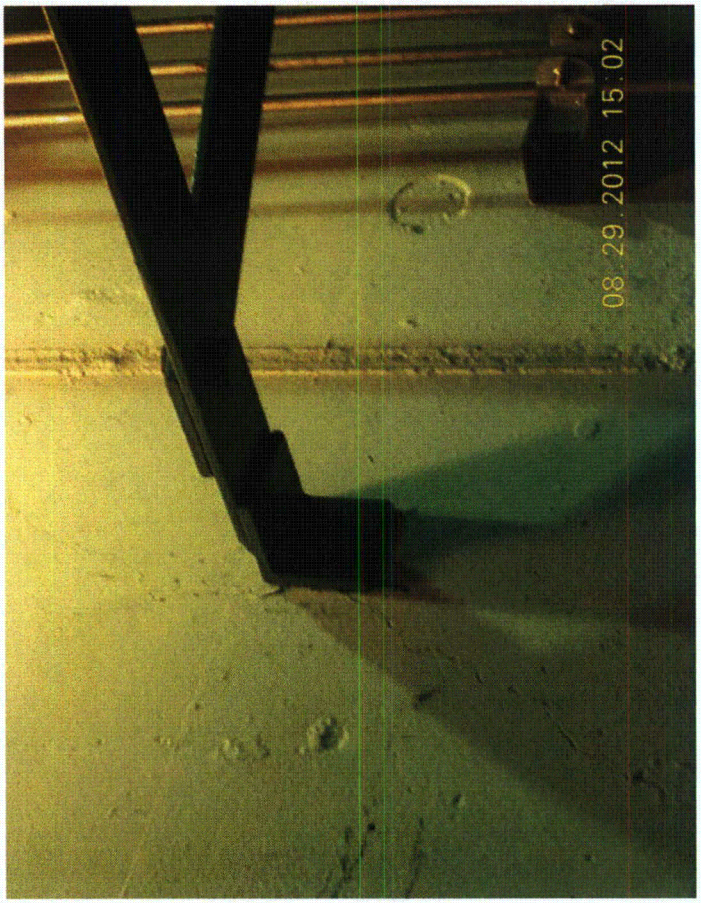
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Status: (Y) N U

Seismic Walkdown Checklist (SWC)

Equipment ID No. 20D37 Equip. Class[12] (16) Battery Chargers and Inverters

Equipment Description *Static Inverter*

Location: Bldg. *Turbine* Floor El. *135* Room, Area *T2-73*

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☐

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☐

[12] Enter the equipment class name from **Appendix B:** Classes of Equipment.

Equipment ID No. 20D37 Equip. Class[12] (16) Battery Chargers and Inverters

Equipment Description *Static Inverter*

Interaction Effects

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

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☐
   · Several cable trays overhead, but all properly loaded and anchored

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☐

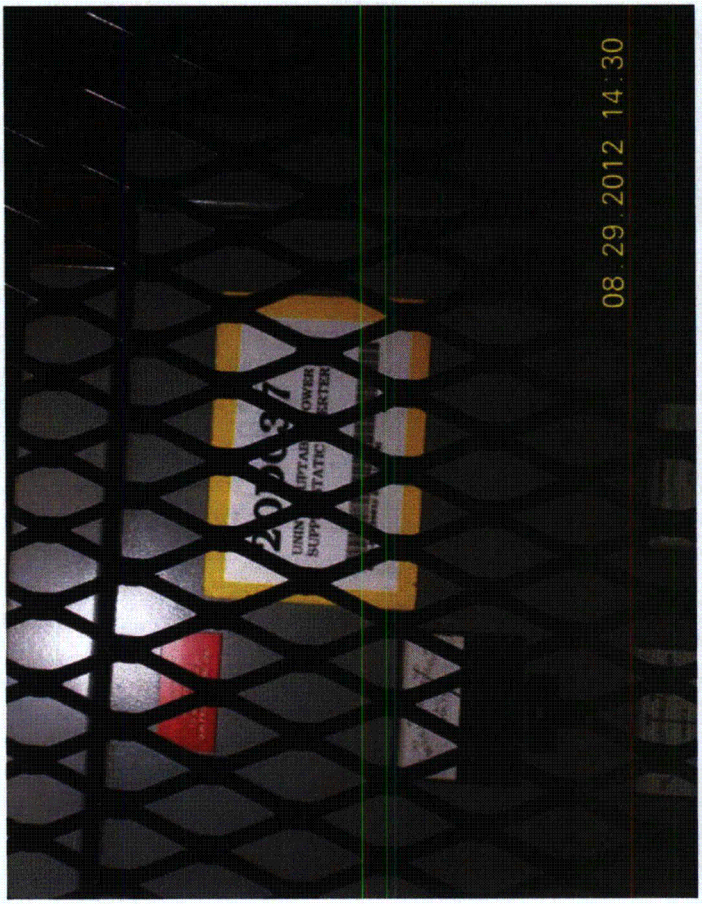
Other Adverse Conditions

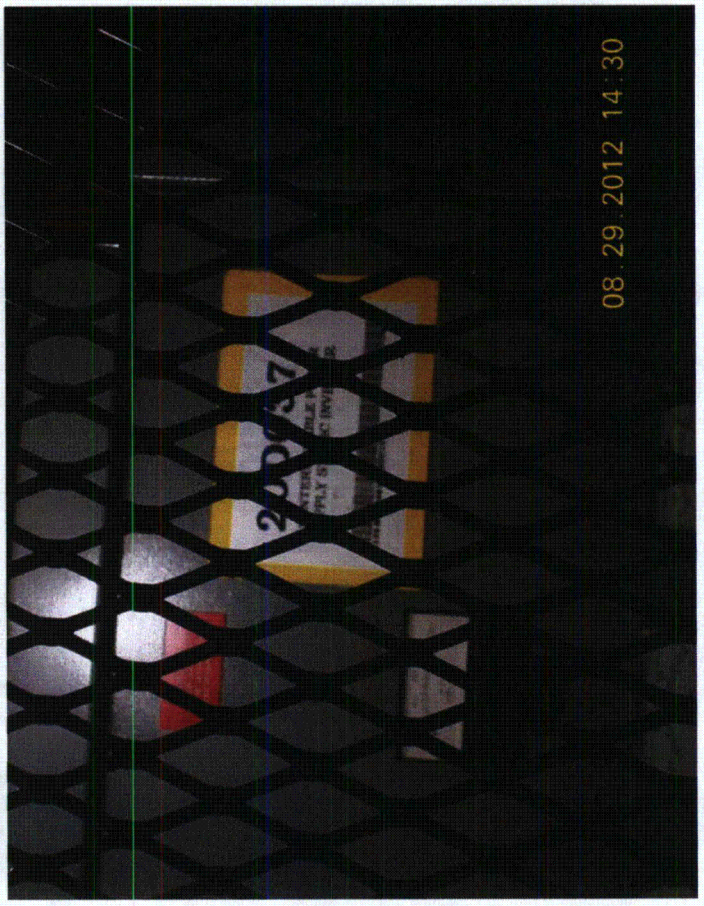
11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? Y☒ N☐ U☐

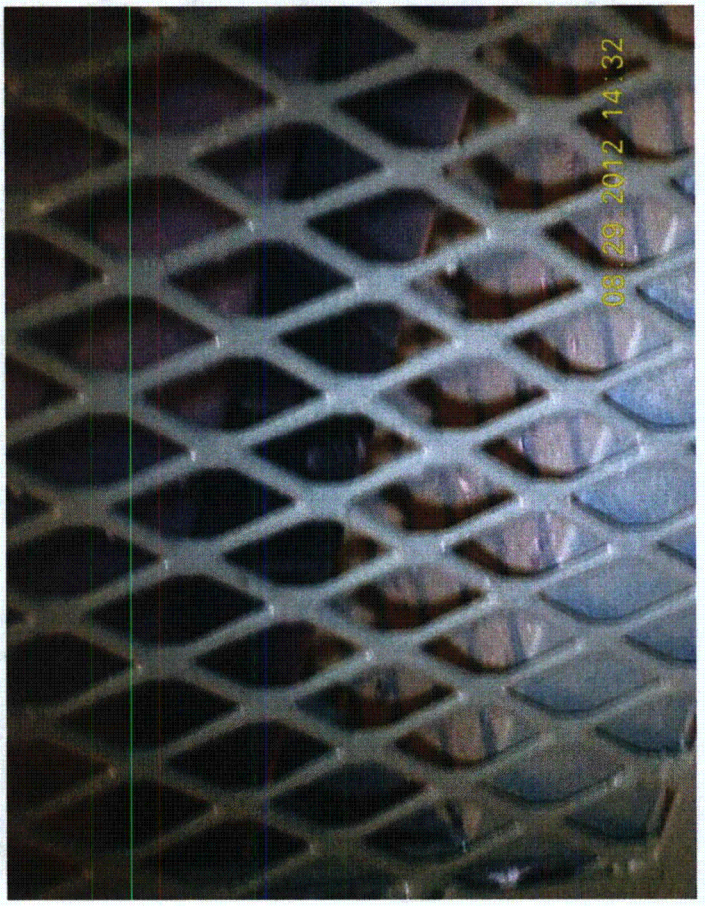
Comments (Additional pages may be added as necessary)
IPEEE: protective cage built around component including drip shield

Evaluated by: James Wiggin Date: 9/17/2012
X Gt 9/17/2012

Equipment ID: 20D037







Equipment ID: 20D037