ATTACHMENT (3)

AREA WALK-BY CHECKLISTS

C
Area Walk-By Checklists

Table C-1: Summary of Area Walk-By Check Lists Completed by Ginna Personnel			
Area Number	**Location**	**Elevation**	**Page**
17	Auxiliary Building CVCS Waste Holdup Tank Room	235'	C-2
25	Auxiliary Building, Sub-Basement, RHR Pit	219'	C-6
26a	Containment, Pressurizer Cubicle	274'-6"	C-10
26b	Containment, B RCP/SG Cubicle	252'	C-16
26c	Containment, Basement Level, North	235'-8"	C-22
26d	Containment, Intermediate Level North-East	253'-3"	C-30
26e	Containment, Post Accident Charcoal Filter Plenum	300'-4"	C-34
27	Auxiliary Building, Former Boric Acid Evaporator Room	235'	C-38

ATTACHMENT (3)
AREA WALK-BY CHECKLISTS

Status: Y ☒ N ☐ U ☐

Area Walk-By Checklist (AWC)

Location (Bldg, Elev, Room/Area): CVCS Waste Tank Room, Auxiliary Building, 235', Area 17

Instructions for Completing Checklist

This checklist may be used to document the results of the Area Walk-By near one or more SWEL items. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

1. Does anchorage of equipment in the area appear to be free of potentially adverse seismic conditions (if visible without necessarily opening cabinets)? Y ☒ N ☐ U ☐ N/A ☐

   Inspected anchorage of B CVCS waste hold-up tank only. Dose from other 2 tanks prevents complete inspection of anchorage

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

3. Based on a visual inspection from the floor, do the cable/conduit raceways and HVAC ducting appear to be free of potentially adverse seismic conditions (e.g., condition of supports is adequate and fill conditions of cable trays appear to be inside acceptable limits)? Y ☒ N ☐ U ☐ N/A ☐

4. Does it appear that the area is free of potentially adverse seismic spatial interactions with other equipment in the area (e.g., ceiling tiles and lighting)? Y ☒ N ☐ U ☐ N/A ☐

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

ATTACHMENT (3)
AREA WALK-BY CHECKLISTS

Status: Y ☒ N ☐ U ☐

Area Walk-By Checklist (AWC)

Location (Bldg, Elev, Room/Area): CVCS Waste Tank Room, Auxiliary Building, 235', Area 17

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

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

   Temporary camera and stand mounted on flat baseplate. Could topple over in seismic event. No soft targets noted

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

   Equipment in area is not credited to perform the 5 safety functions listed in EPRI 1025286. Area walk-by conducted for SFP drain down concern

Comments

Supplemental pictures taken using remote monitoring cameras to minimize dose during walkdown

Evaluated by: _____ Date: 12/10/2012

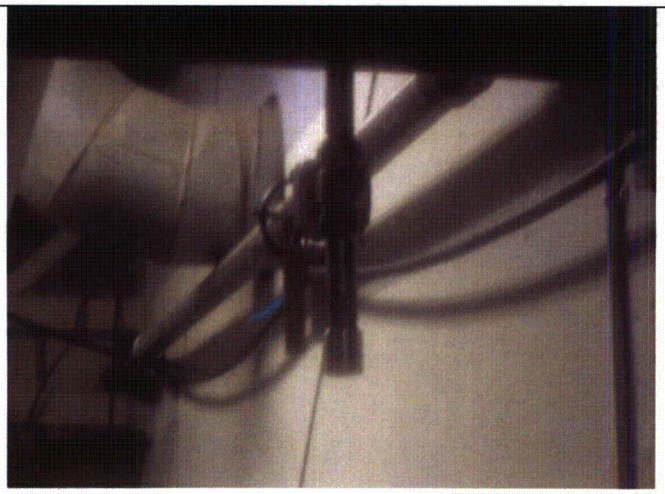
_____ Date: 12/10/2012

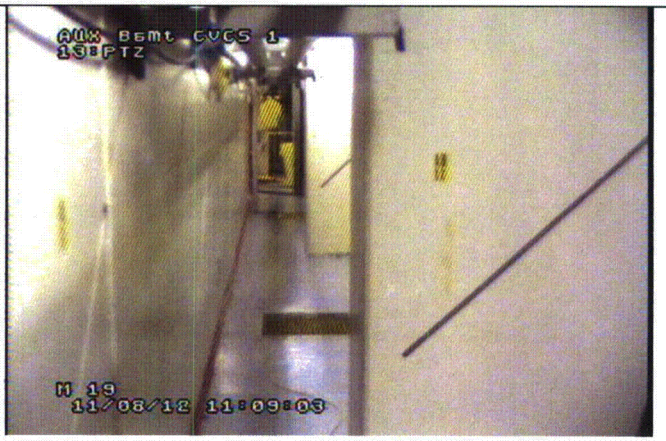
ATTACHMENT (3)
AREA WALK-BY CHECKLISTS

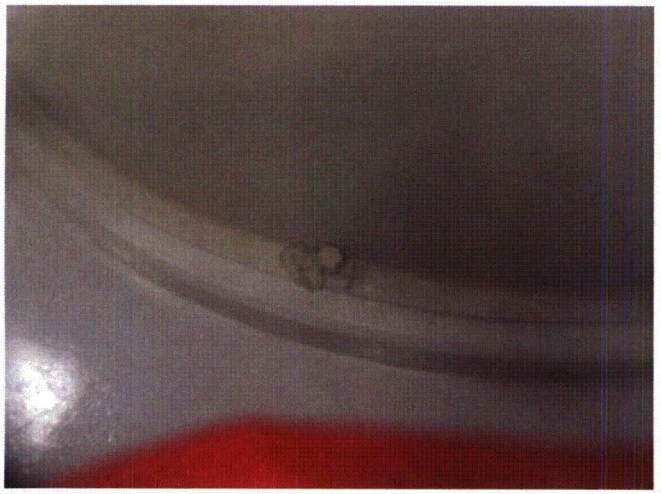
Status: Y ☒ N ☐ U ☐

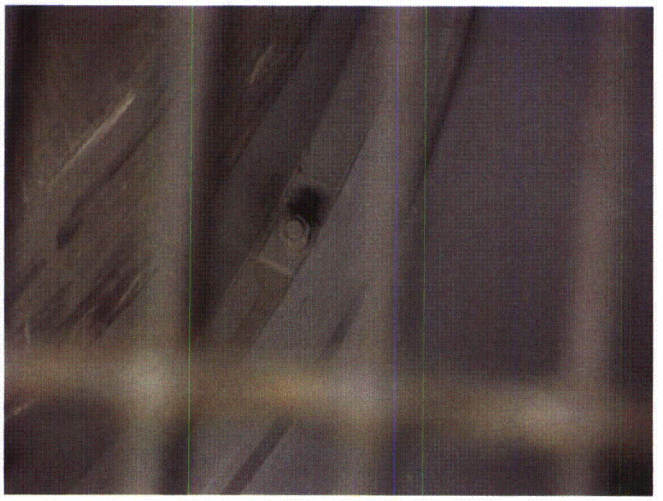
Area Walk-By Checklist (AWC)

Location (Bldg, Elev, Room/Area): CVCS Waste Tank Room, Auxiliary Building, 235', Area 17







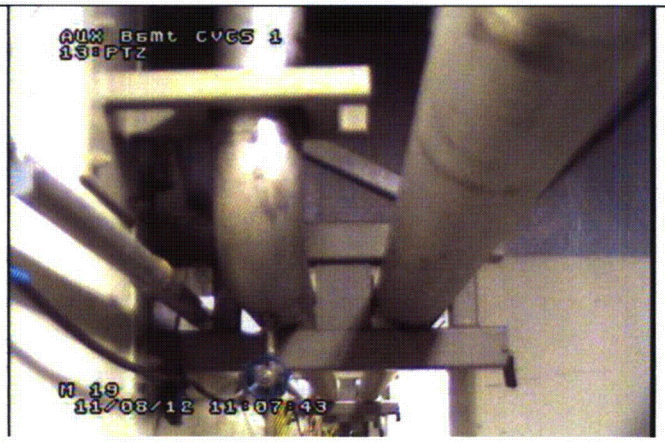


ATTACHMENT (3)
AREA WALK-BY CHECKLISTS

Status: Y ☒ N ☐ U ☐

Area Walk-By Checklist (AWC)

Location (Bldg, Elev, Room/Area): CVCS Waste Tank Room, Auxiliary Building, 235', Area 17



ATTACHMENT (3)
AREA WALK-BY CHECKLISTS

Status: Y ☐ N ☒ U ☐

Area Walk-By Checklist (AWC)

Location (Bldg, Elev, Room/Area): Auxiliary Building Sub-Basement, 219', Area 25

Instructions for Completing Checklist

This checklist may be used to document the results of the Area Walk-By near one or more SWEL items. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

1. Does anchorage of equipment in the area appear to be free of potentially adverse seismic conditions (if visible without necessarily opening cabinets)? Y ☒ N ☐ U ☐ N/A ☐

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

   More than minor surface corrosion on Unistrut mounted on floor, CR-2012-008409

3. Based on a visual inspection from the floor, do the cable/conduit raceways and HVAC ducting appear to be free of potentially adverse seismic conditions (e.g., condition of supports is adequate and fill conditions of cable trays appear to be inside acceptable limits)? Y ☒ N ☐ U ☐ N/A ☐

4. Does it appear that the area is free of potentially adverse seismic spatial interactions with other equipment in the area (e.g., ceiling tiles and lighting)? Y ☒ N ☐ U ☐ N/A ☐

   Camera tied off, lighting supported by rigid metal conduit

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

ATTACHMENT (3)
AREA WALK-BY CHECKLISTS

Status: Y ☐ N ☒ U ☐

Area Walk-By Checklist (AWC)

Location (Bldg, Elev, Room/Area): Auxiliary Building Sub-Basement, 219', Area 25

No fire suppression system in area.

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

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

   Ladders leaning on wall. Team relocated ladders to floor to minimize interaction concern. CR-2012-006918 was written

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

Comments

Evaluated by: Jeffrey Sandin Date: 12/10/2012

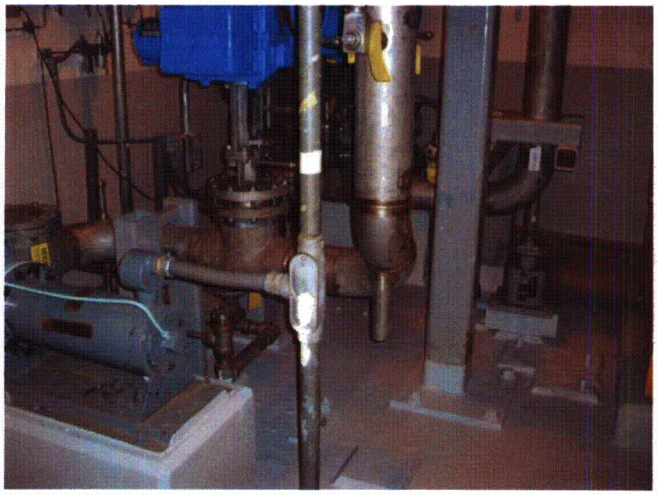
Date: 12/10/2012

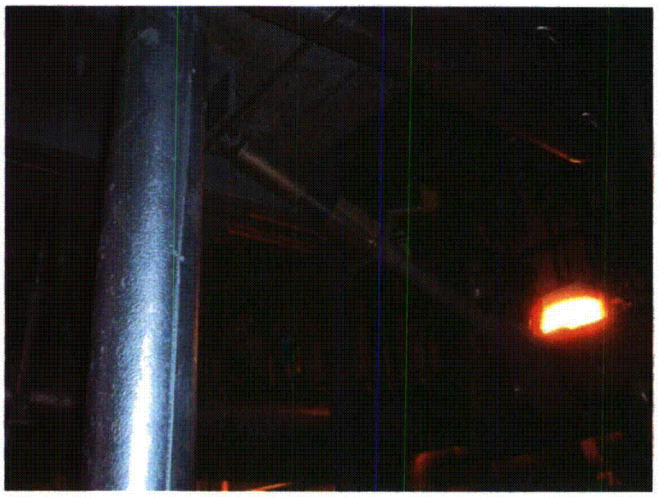
ATTACHMENT (3)
AREA WALK-BY CHECKLISTS

Status: Y ☐ N ☒ U ☐

Area Walk-By Checklist (AWC)

Location (Bldg, Elev, Room/Area): Auxiliary Building Sub-Basement, 219', Area 25



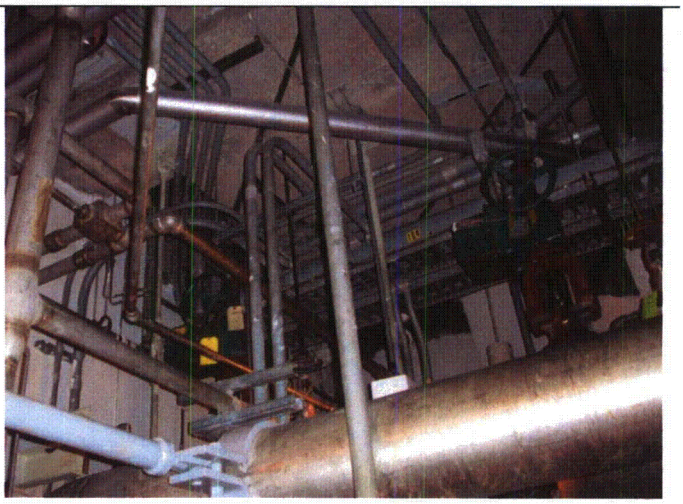


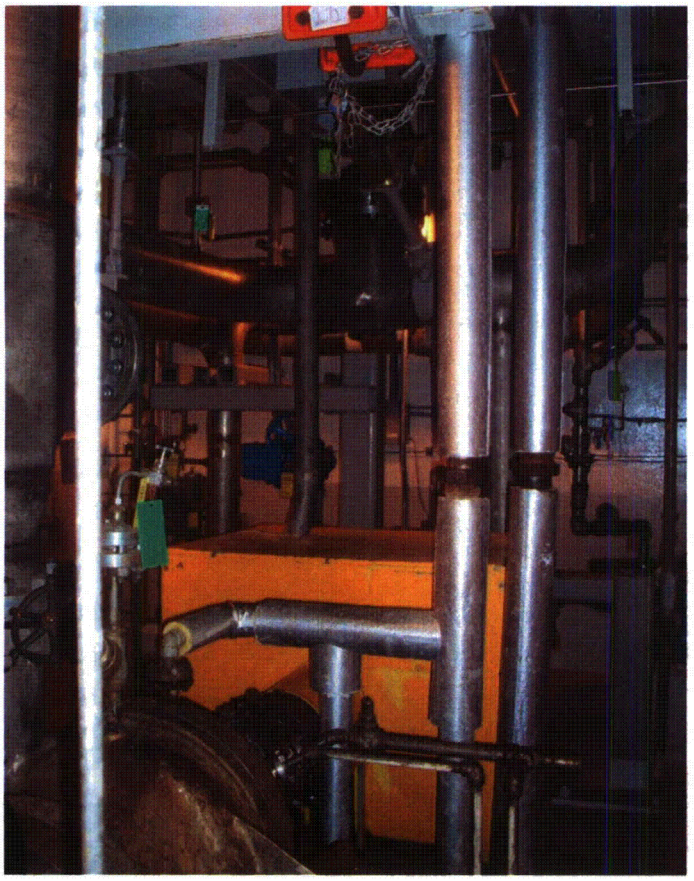
ATTACHMENT (3)
AREA WALK-BY CHECKLISTS

Status: Y ☐ N ☒ U ☐

Area Walk-By Checklist (AWC)

Location (Bldg, Elev, Room/Area): Auxiliary Building Sub-Basement, 219', Area 25





ATTACHMENT (3)
AREA WALK-BY CHECKLISTS

Status: Y ☒ N ☐ U ☐

Area Walk-By Checklist (AWC)

Location (Bldg, Elev, Room/Area): Containment, 274'-6"', Area 26a, Pressurizer Cubicle

Instructions for Completing Checklist

This checklist may be used to document the results of the Area Walk-By near one or more SWEL items. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

1. Does anchorage of equipment in the area appear to be free of potentially adverse seismic conditions (if visible without necessarily opening cabinets)? Y ☒ N ☐ U ☐ N/A ☐

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

3. Based on a visual inspection from the floor, do the cable/conduit raceways and HVAC ducting appear to be free of potentially adverse seismic conditions (e.g., condition of supports is adequate and fill conditions of cable trays appear to be inside acceptable limits)? Y ☐ N ☐ U ☐ N/A ☒

   Lack of cable trays and HVAC ducting, cubicle concrete blocks removed for maintenance, reconfigured in accordance with procedure A-3.1 for power operation.

4. Does it appear that the area is free of potentially adverse seismic spatial interactions with other equipment in the area (e.g., ceiling tiles and lighting)? Y ☒ N ☐ U ☐ N/A ☐

   Lighting fixtures supported from wall by embedded unistrut.

5. Does it appear that the area is free of potentially adverse seismic interactions that Y ☒ N ☐ U ☐ N/A ☐

Status: Y ☒ N ☐ U ☐

Area Walk-By Checklist (AWC)

Location (Bldg, Elev, Room/Area): Containment, 274'-6"', Area 26a, Pressurizer Cubicle

could cause flooding or spray in the area?

No fire suppression system in area.

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

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

   Maintenance job box and HEPA unit at top of cubicle. Removed during power operation via containment closeout procedure Handrail prevents carts from falling into cubicle. Stacked blocks may be adverse, but are installed and secured in accordance with calculation DA-CE-94-053 and A-3.1 during power operation

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

Comments

Evaluated by: Jeffrey Sandin Date: 12/10/2012

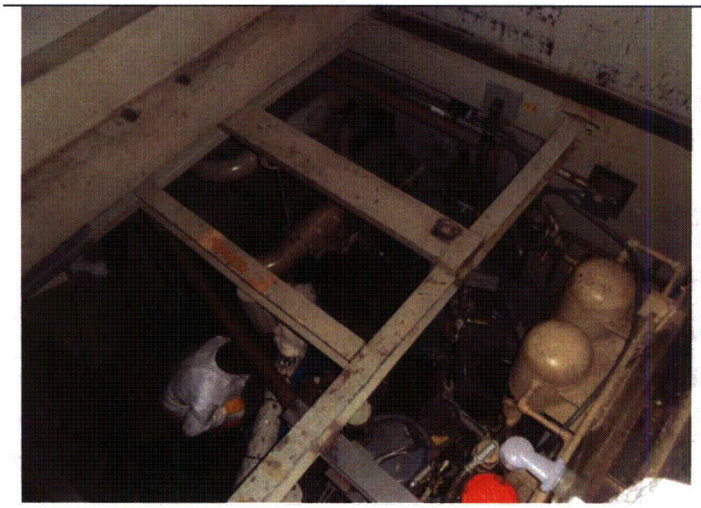
Date: 12/10/2012

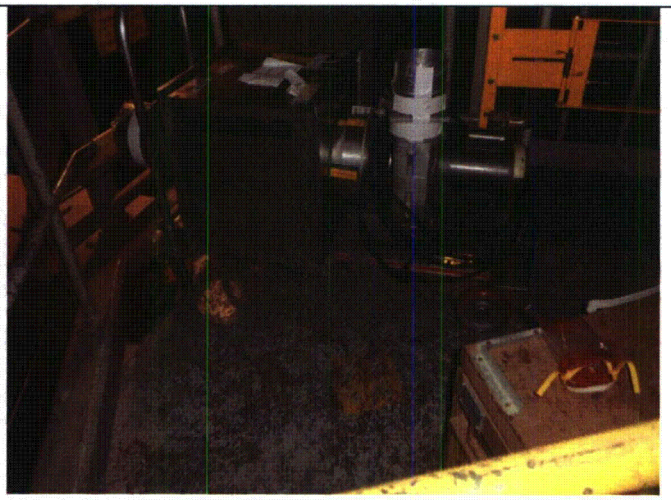
ATTACHMENT (3)
AREA WALK-BY CHECKLISTS

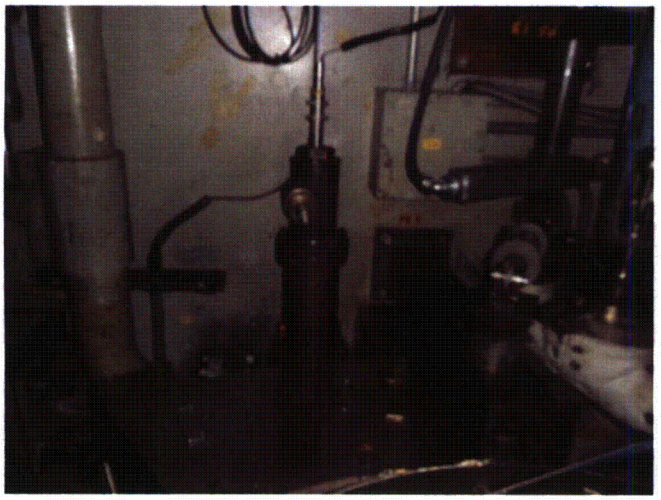
Status: Y ☒ N ☐ U ☐

Area Walk-By Checklist (AWC)

Location (Bldg, Elev, Room/Area): Containment, 274'-6"', Area 26a, Pressurizer Cubicle





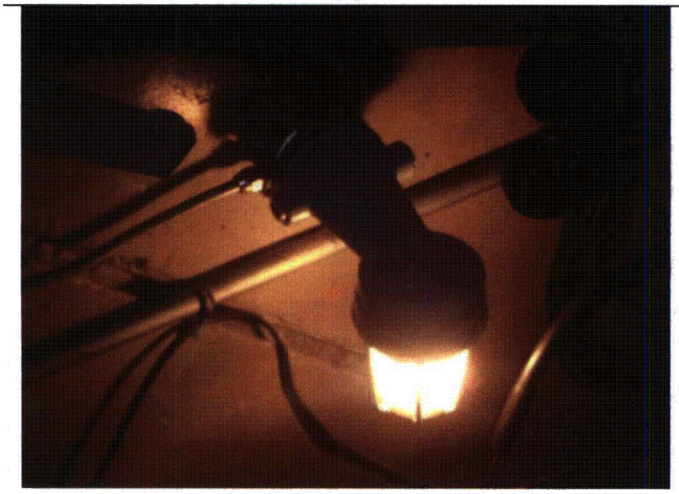


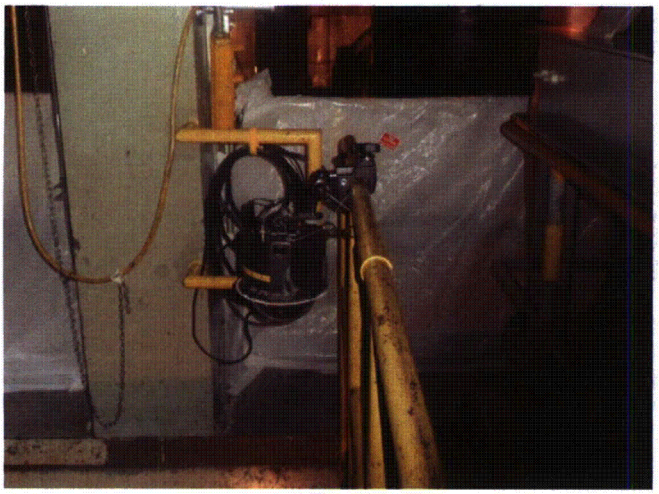
ATTACHMENT (3)
AREA WALK-BY CHECKLISTS

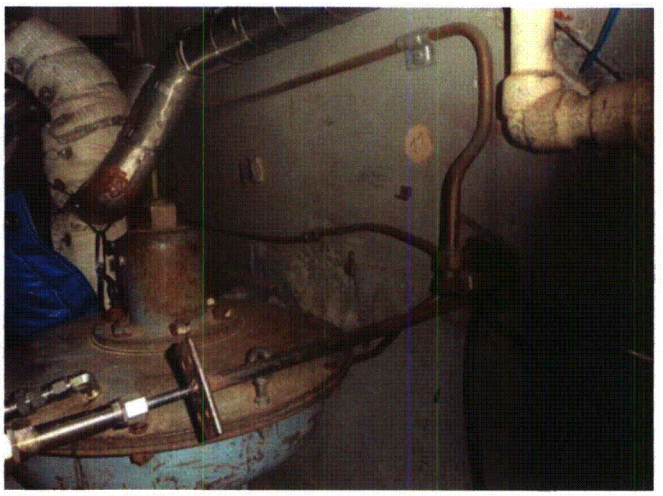
Status: Y ☒ N ☐ U ☐

Area Walk-By Checklist (AWC)

Location (Bldg, Elev, Room/Area): Containment, 274'-6"', Area 26a, Pressurizer Cubicle





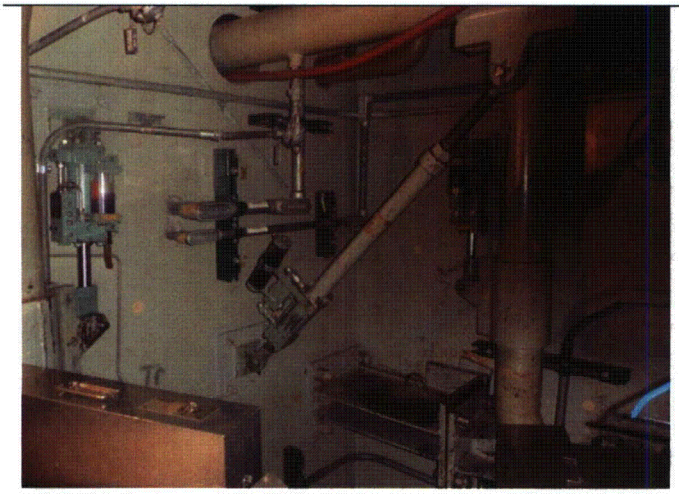


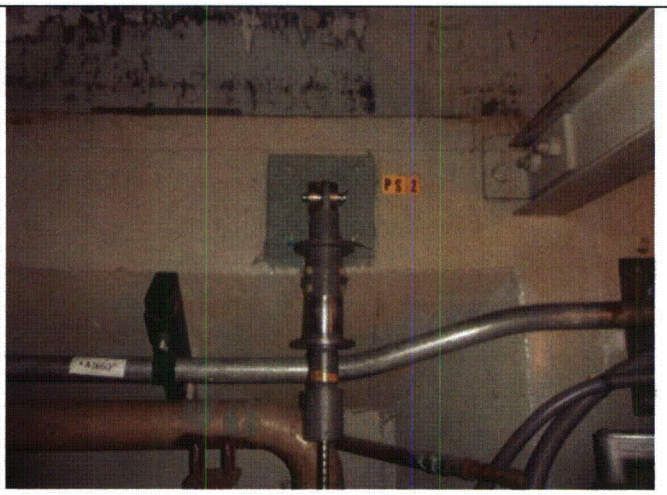
ATTACHMENT (3)
AREA WALK-BY CHECKLISTS

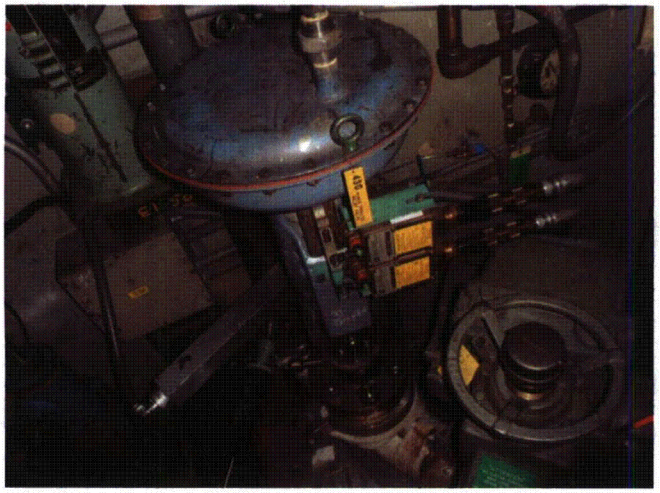
Status: Y ☒ N ☐ U ☐

Area Walk-By Checklist (AWC)

Location (Bldg, Elev, Room/Area): Containment, 274'-6"', Area 26a, Pressurizer Cubicle







ATTACHMENT (3)
AREA WALK-BY CHECKLISTS

Status: Y ☒ N ☐ U ☐

Area Walk-By Checklist (AWC)

Location (Bldg, Elev, Room/Area): Containment, 274'-6"', Area 26a, Pressurizer Cubicle

ATTACHMENT (3)
AREA WALK-BY CHECKLISTS

Status: Y ☒ N ☐ U ☐

Area Walk-By Checklist (AWC)

Location (Bldg, Elev, Room/Area): Containment, 253', Area 26b, RCP B Cubicle

Instructions for Completing Checklist

This checklist may be used to document the results of the Area Walk-By near one or more SWEL items. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

1. Does anchorage of equipment in the area appear to be free of potentially adverse seismic conditions (if visible without necessarily opening cabinets)? Y ☒ N ☐ U ☐ N/A ☐

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

3. Based on a visual inspection from the floor, do the cable/conduit raceways and HVAC ducting appear to be free of potentially adverse seismic conditions (e.g., condition of supports is adequate and fill conditions of cable trays appear to be inside acceptable limits)? Y ☒ N ☐ U ☐ N/A ☐

   Lack of cable trays, minimal ventilation ducting in room. HVAC ductwork not supported below penetrations but judged acceptable by team.

4. Does it appear that the area is free of potentially adverse seismic spatial interactions with other equipment in the area (e.g., ceiling tiles and lighting)? Y ☒ N ☐ U ☐ N/A ☐

   Lighting fixtures supported from wall by embedded unistrut.

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

   No fire suppression system in area.

6. Does it appear that the area is free of potentially adverse seismic interactions that Y ☒ N ☐ U ☐ N/A ☐

ATTACHMENT (3)
AREA WALK-BY CHECKLISTS

Status: Y ☒ N ☐ U ☐

Area Walk-By Checklist (AWC)

Location (Bldg, Elev, Room/Area): Containment, 253', Area 26b, RCP B Cubicle

could cause a fire in the area?

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

   Shielding removed per A-3.1 and stored in box, box chained to adjoining handrail

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

Comments

Evaluated by: Jeffrey Sandin Date: 12/10/2012

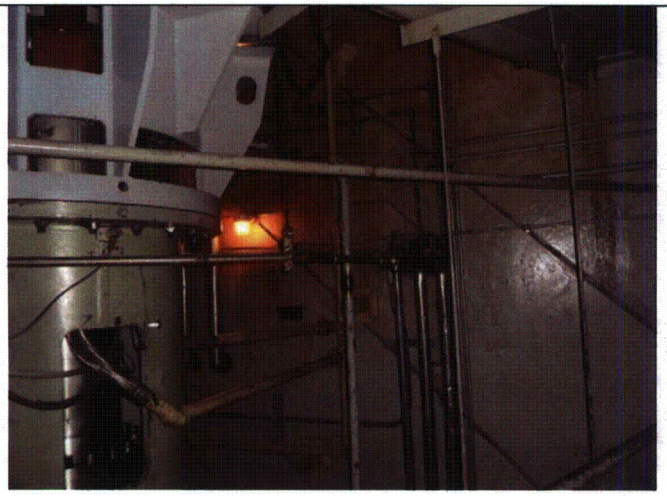
12/10/2012

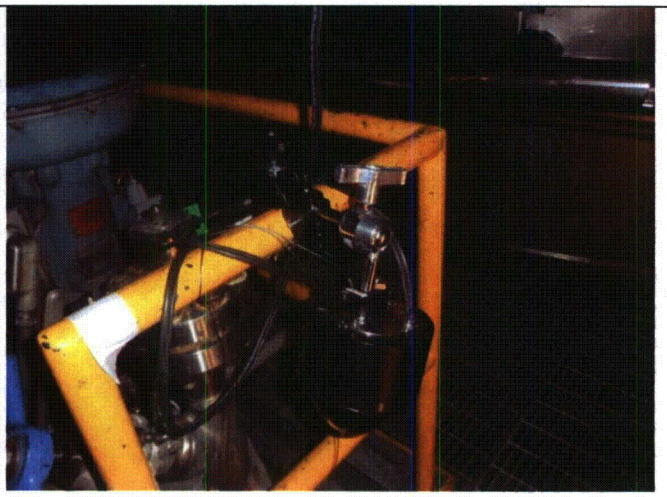
ATTACHMENT (3)
AREA WALK-BY CHECKLISTS

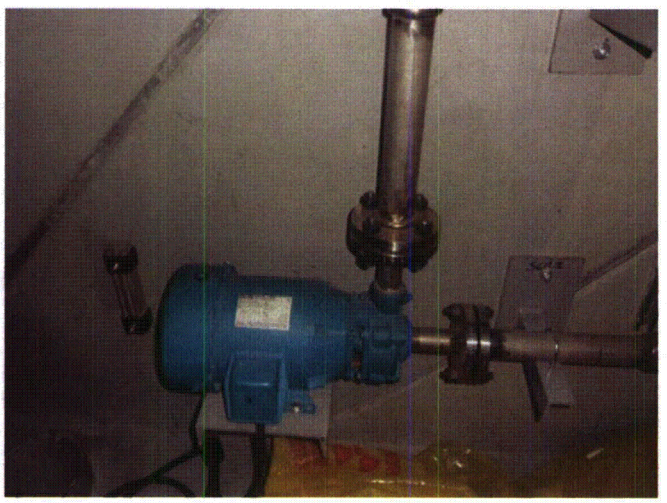
Status: Y ☒ N ☐ U ☐

Area Walk-By Checklist (AWC)

Location (Bldg, Elev, Room/Area): Containment, 253', Area 26b, RCP B Cubicle





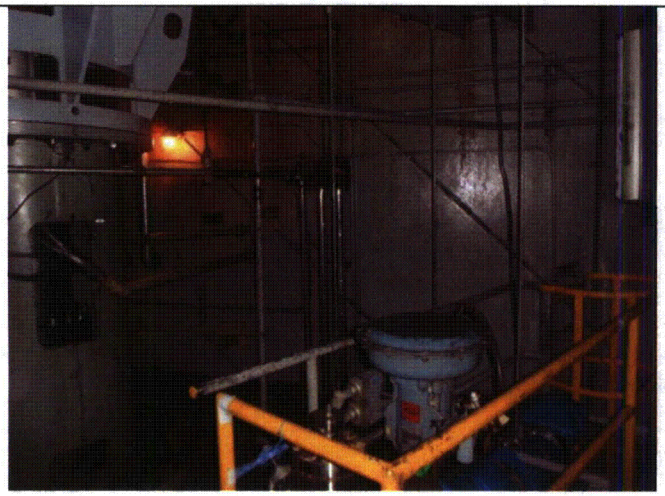


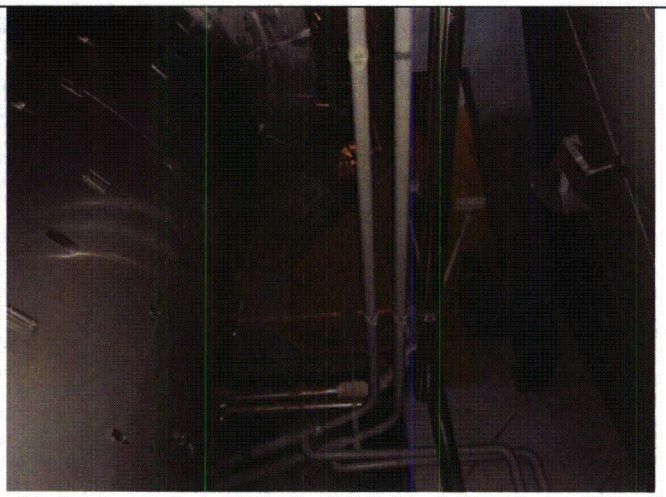
ATTACHMENT (3)
AREA WALK-BY CHECKLISTS

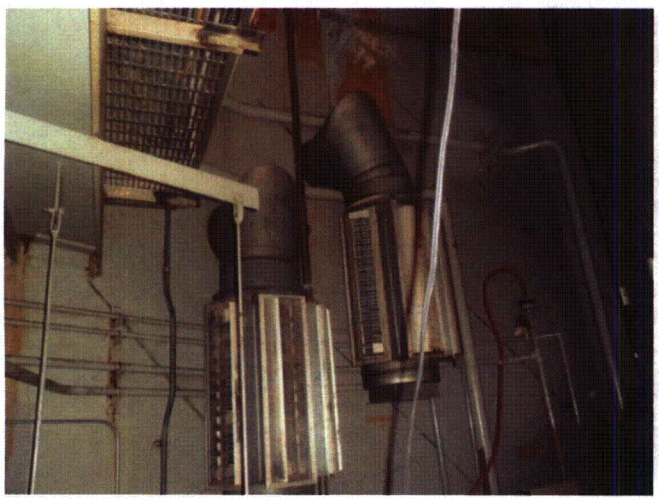
Status: Y ☒ N ☐ U ☐

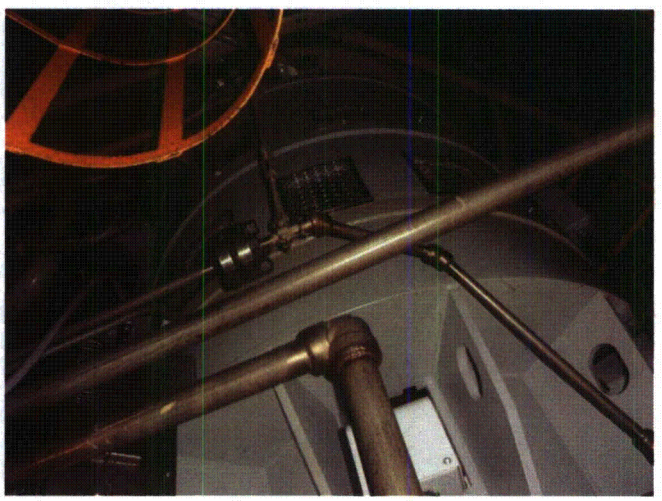
Area Walk-By Checklist (AWC)

Location (Bldg, Elev, Room/Area): Containment, 253', Area 26b, RCP B Cubicle







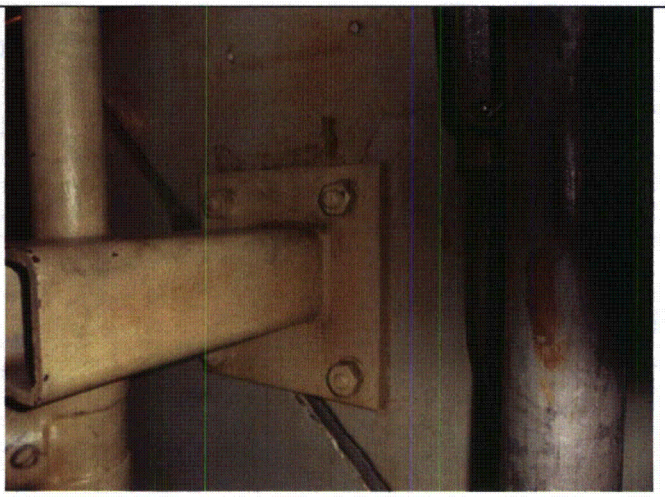


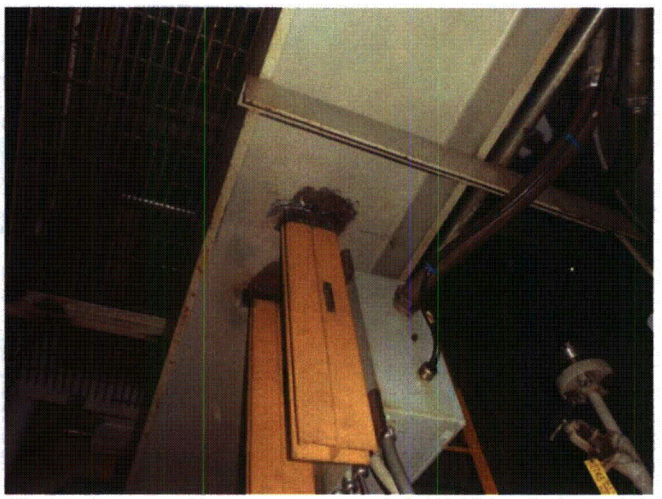
ATTACHMENT (3)
AREA WALK-BY CHECKLISTS

Status: Y ☒ N ☐ U ☐

Area Walk-By Checklist (AWC)

Location (Bldg, Elev, Room/Area): Containment, 253', Area 26b, RCP B Cubicle

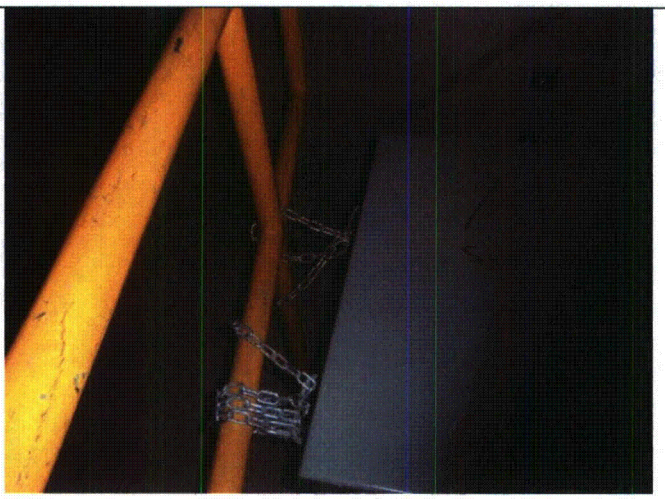


ATTACHMENT (3)
AREA WALK-BY CHECKLISTS

Status: Y ☒ N ☐ U ☐

Area Walk-By Checklist (AWC)

Location (Bldg, Elev, Room/Area): Containment, 253', Area 26b, RCP B Cubicle



ATTACHMENT (3)

AREA WALK-BY CHECKLISTS

Status: Y ☒ N ☐ U ☐

Area Walk-By Checklist (AWC)

Location (Bldg, Elev, Room/Area): Containment, 235', Area 26c, Basement Level, North

Instructions for Completing Checklist

This checklist may be used to document the results of the Area Walk-By near one or more SWEL items. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

1. Does anchorage of equipment in the area appear to be free of potentially adverse seismic conditions (if visible without necessarily opening cabinets)? Y ☒ N ☐ U ☐ N/A ☐

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

3. Based on a visual inspection from the floor, do the cable/conduit raceways and HVAC ducting appear to be free of potentially adverse seismic conditions (e.g., condition of supports is adequate and fill conditions of cable trays appear to be inside acceptable limits)? Y ☒ N ☐ U ☐ N/A ☐

   Cable trays are lightly loaded, lateral restraints provided for trays. Large ductwork suspended by rod-hangers

4. Does it appear that the area is free of potentially adverse seismic spatial interactions with other equipment in the area (e.g., ceiling tiles and lighting)? Y ☒ N ☐ U ☐ N/A ☐

   Lighting fixtures supported from wall by embedded unistrut.

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

ATTACHMENT (3)
AREA WALK-BY CHECKLISTS

Status: Y ☒ N ☐ U ☐

Area Walk-By Checklist (AWC)

Location (Bldg, Elev, Room/Area): Containment, 235', Area 26c, Basement Level, North

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

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

   Several carts, tools, scaffold components scattered about. This equipment is removed/secured via containment closeout procedure A-3.1. Scaffold components secured in seismically qualified racks during power operation.

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

Comments

Evaluated by: Jeffrey Sandin Date: 12/10/2012

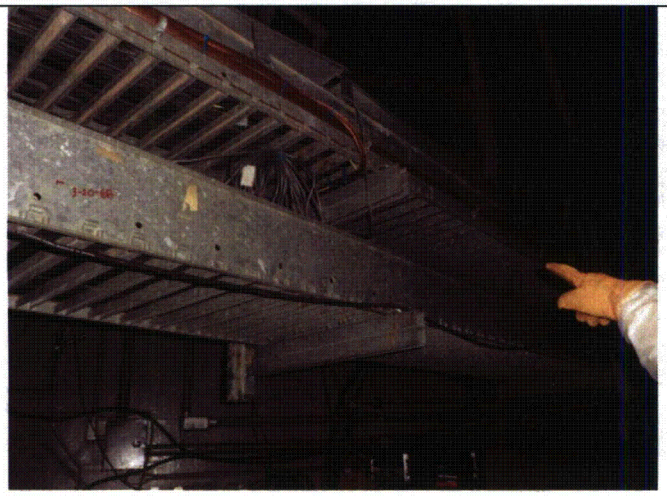
Date: 12/10/2012

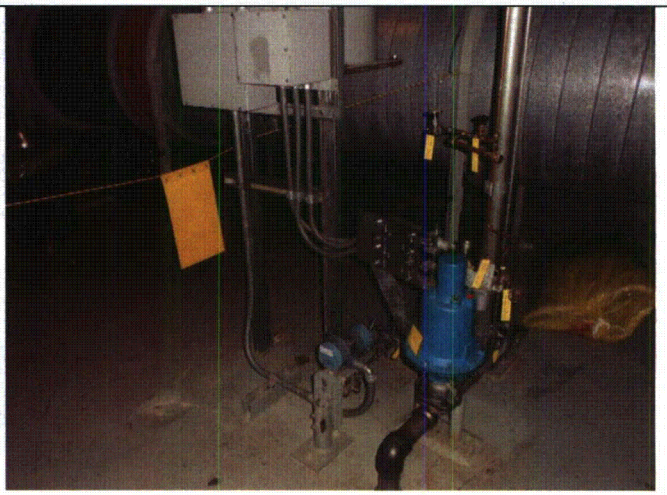
ATTACHMENT (3)
AREA WALK-BY CHECKLISTS

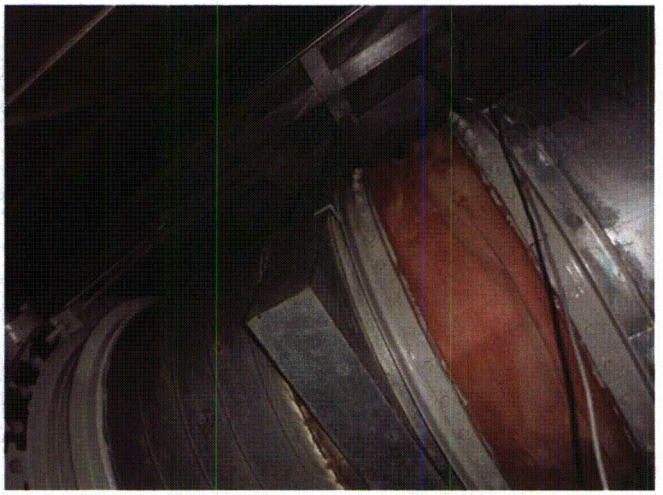
Status: Y ☒ N ☐ U ☐

Area Walk-By Checklist (AWC)

Location (Bldg, Elev, Room/Area): Containment, 235', Area 26c, Basement Level, North





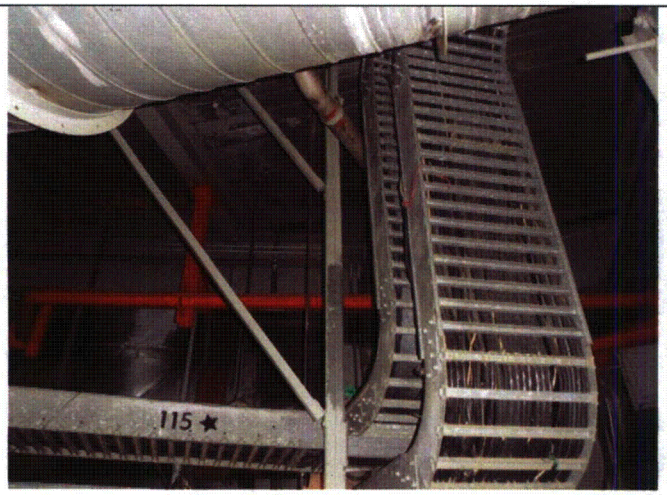


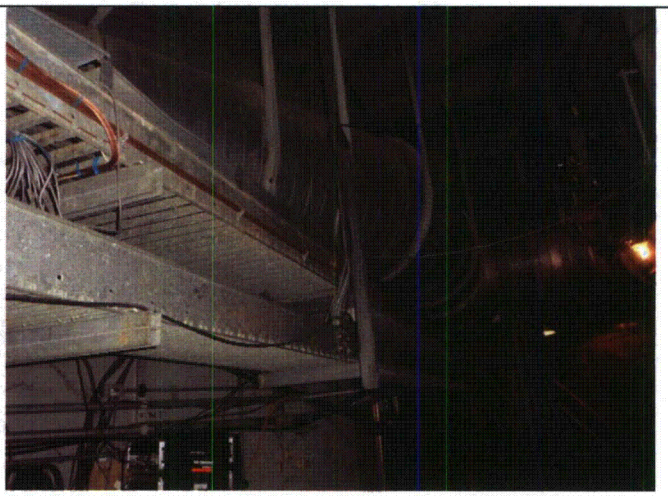
ATTACHMENT (3)
AREA WALK-BY CHECKLISTS

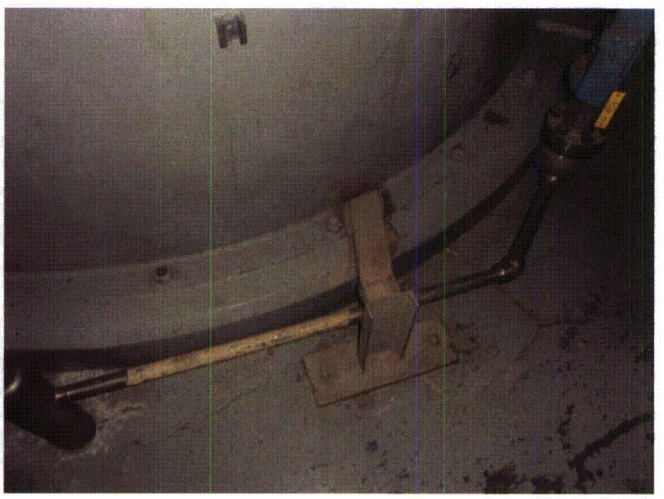
Status: Y ☒ N ☐ U ☐

Area Walk-By Checklist (AWC)

Location (Bldg, Elev, Room/Area): Containment, 235', Area 26c, Basement Level, North





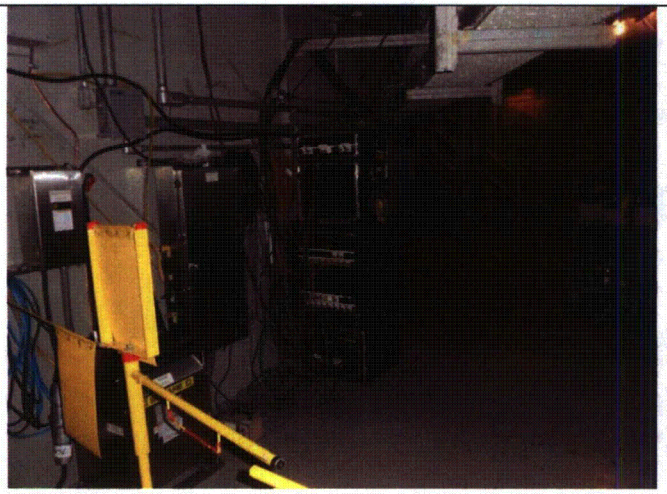


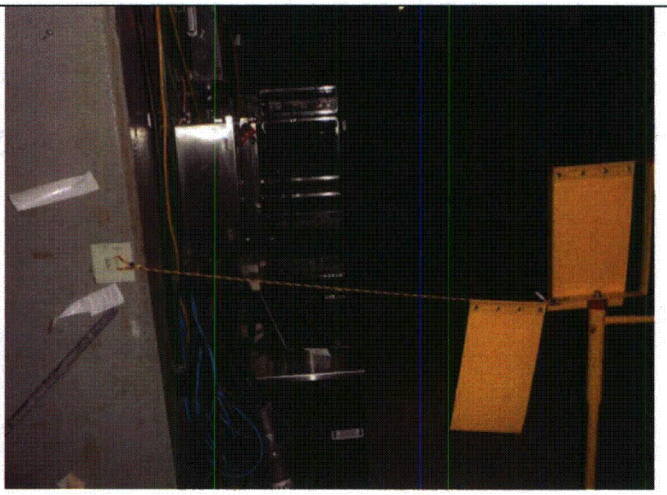
ATTACHMENT (3)
AREA WALK-BY CHECKLISTS

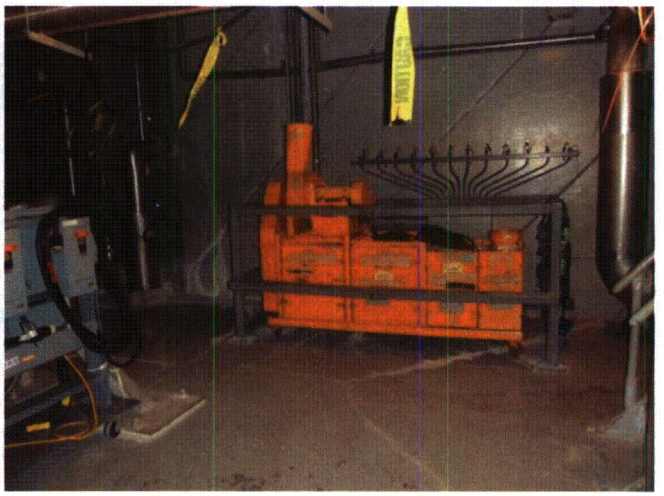
Status: Y ☒ N ☐ U ☐

Area Walk-By Checklist (AWC)

Location (Bldg, Elev, Room/Area): Containment, 235', Area 26c, Basement Level, North





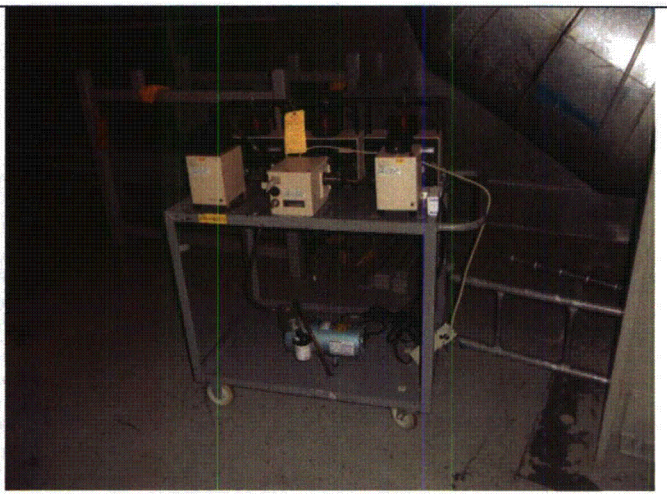


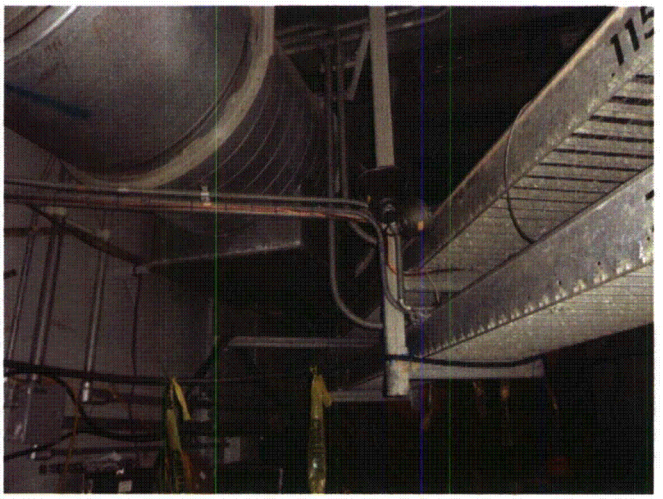
ATTACHMENT (3)
AREA WALK-BY CHECKLISTS

Status: Y ☒ N ☐ U ☐

Area Walk-By Checklist (AWC)

Location (Bldg, Elev, Room/Area): Containment, 235', Area 26c, Basement Level, North



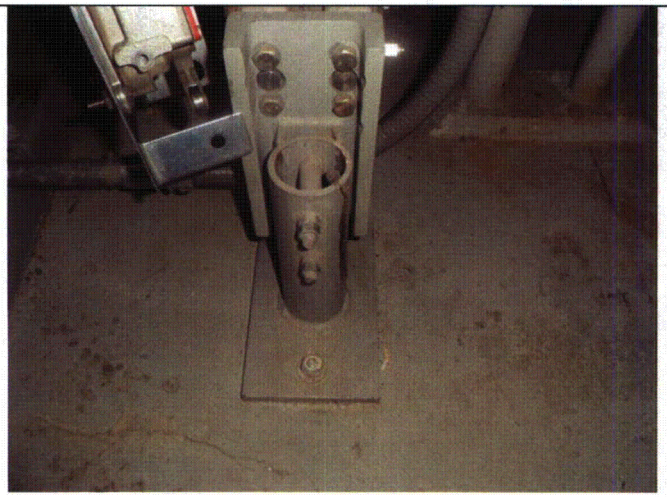


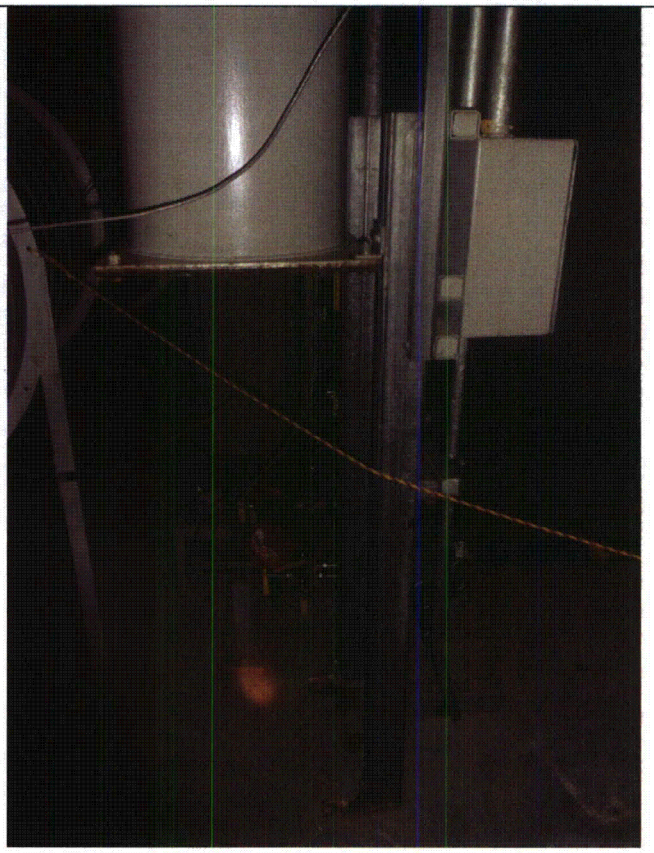
ATTACHMENT (3)
AREA WALK-BY CHECKLISTS

Status: Y ☒ N ☐ U ☐

Area Walk-By Checklist (AWC)

Location (Bldg, Elev, Room/Area): Containment, 235', Area 26c, Basement Level, North



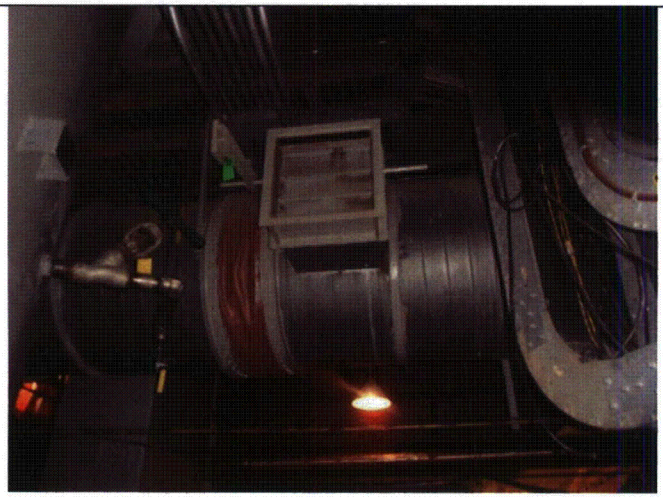


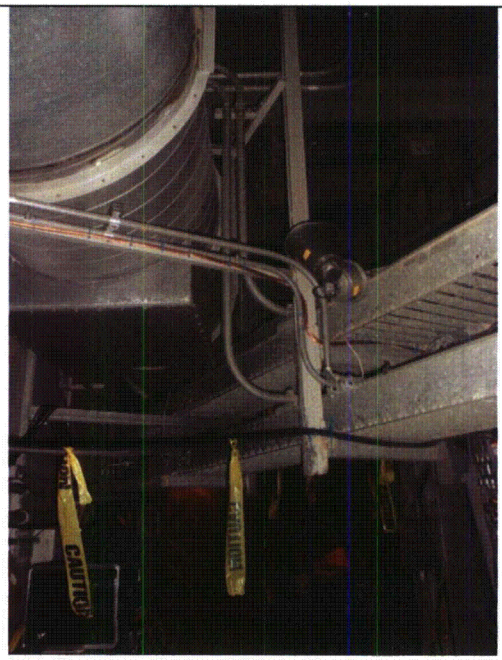
ATTACHMENT (3)
AREA WALK-BY CHECKLISTS

Status: Y ☒ N ☐ U ☐

Area Walk-By Checklist (AWC)

Location (Bldg, Elev, Room/Area): Containment, 235', Area 26c, Basement Level, North





ATTACHMENT (3)

AREA WALK-BY CHECKLISTS

Status: Y ☒ N ☐ U ☐

Area Walk-By Checklist (AWC)

Location (Bldg, Elev, Room/Area): Containment, 253', Area 26d, Intermediate Level North-East

Instructions for Completing Checklist

This checklist may be used to document the results of the Area Walk-By near one or more SWEL items. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

1. Does anchorage of equipment in the area appear to be free of potentially adverse seismic conditions (if visible without necessarily opening cabinets)? Y ☒ N ☐ U ☐ N/A ☐

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

3. Based on a visual inspection from the floor, do the cable/conduit raceways and HVAC ducting appear to be free of potentially adverse seismic conditions (e.g., condition of supports is adequate and fill conditions of cable trays appear to be inside acceptable limits)? Y ☒ N ☐ U ☐ N/A ☐

4. Does it appear that the area is free of potentially adverse seismic spatial interactions with other equipment in the area (e.g., ceiling tiles and lighting)? Y ☒ N ☐ U ☐ N/A ☐

   Abandoned heating unit, identified under SWC for 8608A. No adverse condition noted

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

ATTACHMENT (3)
AREA WALK-BY CHECKLISTS

Status: Y ☒ N ☐ U ☐

Area Walk-By Checklist (AWC)

Location (Bldg, Elev, Room/Area): Containment, 253', Area 26d, Intermediate Level North-East

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

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

   Laundry bag & barrel, removed from containment prior to startup, via containment closeout procedure A-3.1

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

Comments

Evaluated by: Jeffrey Sandin Date: 12/10/2012

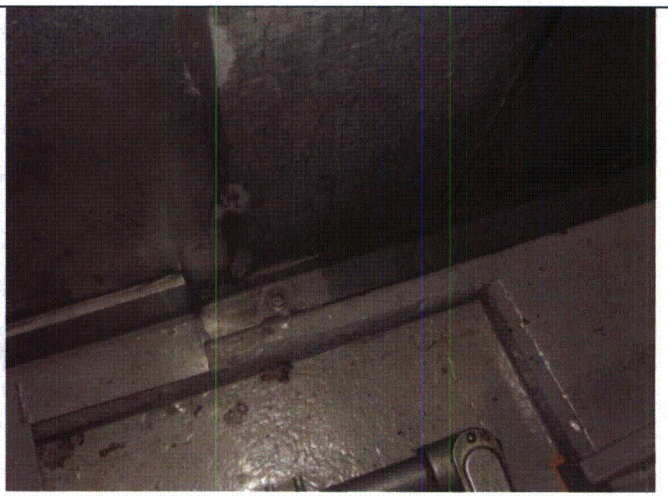
Date: 12/10/2012

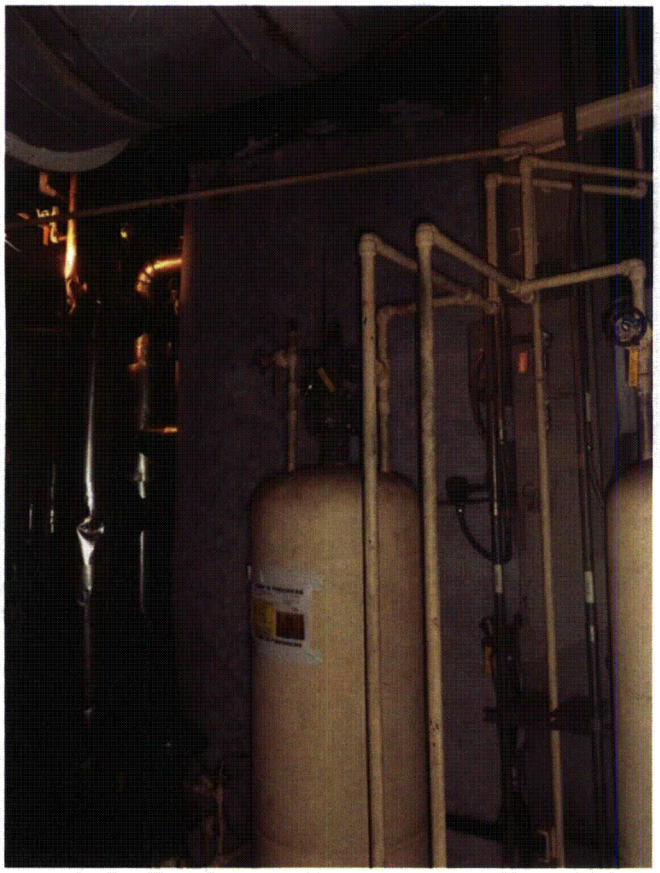
ATTACHMENT (3)
AREA WALK-BY CHECKLISTS

Status: Y ☒ N ☐ U ☐

Area Walk-By Checklist (AWC)

Location (Bldg, Elev, Room/Area): Containment, 253', Area 26d, Intermediate Level North-East



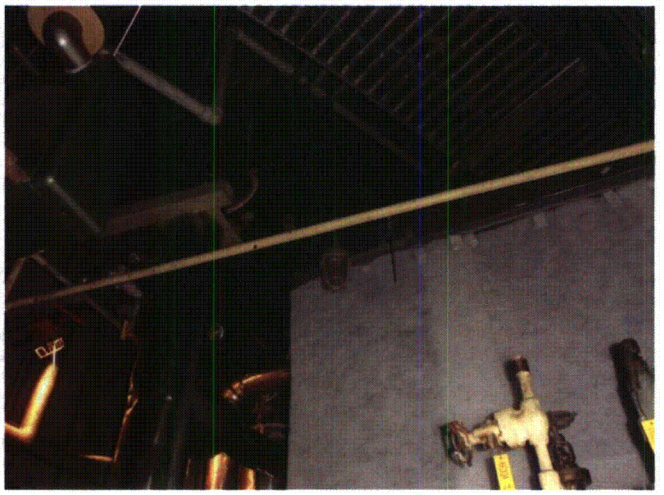


ATTACHMENT (3)
AREA WALK-BY CHECKLISTS

Status: Y ☒ N ☐ U ☐

Area Walk-By Checklist (AWC)

Location (Bldg, Elev, Room/Area): Containment, 253', Area 26d, Intermediate Level North-East



ATTACHMENT (3)
AREA WALK-BY CHECKLISTS

Status: Y ☒ N ☐ U ☐

Area Walk-By Checklist (AWC)

Location (Bldg, Elev, Room/Area): Containment, 300'-4", Area 26e, Post Accident Charcoal Filter Platform

Instructions for Completing Checklist

This checklist may be used to document the results of the Area Walk-By near one or more SWEL items. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

1. Does anchorage of equipment in the area appear to be free of potentially adverse seismic conditions (if visible without necessarily opening cabinets)? Y ☒ N ☐ U ☐ N/A ☐

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

3. Based on a visual inspection from the floor, do the cable/conduit raceways and HVAC ducting appear to be free of potentially adverse seismic conditions (e.g., condition of supports is adequate and fill conditions of cable trays appear to be inside acceptable limits)? Y ☒ N ☐ U ☐ N/A ☐

4. Does it appear that the area is free of potentially adverse seismic spatial interactions with other equipment in the area (e.g., ceiling tiles and lighting)? Y ☒ N ☐ U ☐ N/A ☐

   Cantilever lights could be interaction, no soft targets in area

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

ATTACHMENT (3)
AREA WALK-BY CHECKLISTS

Status: Y ☒ N ☐ U ☐

Area Walk-By Checklist (AWC)

Location (Bldg, Elev, Room/Area): Containment, 300'-4", Area 26e, Post Accident Charcoal Filter Platform

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

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

   Ladder on platform, removed from containment via containment closeout procedure. Scaffold is seismically qualified permanently installed plant modification. Scaffold is anchored to platform

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

Comments

Evaluated by: Jeffrey Sandin Date: 12/10/2012

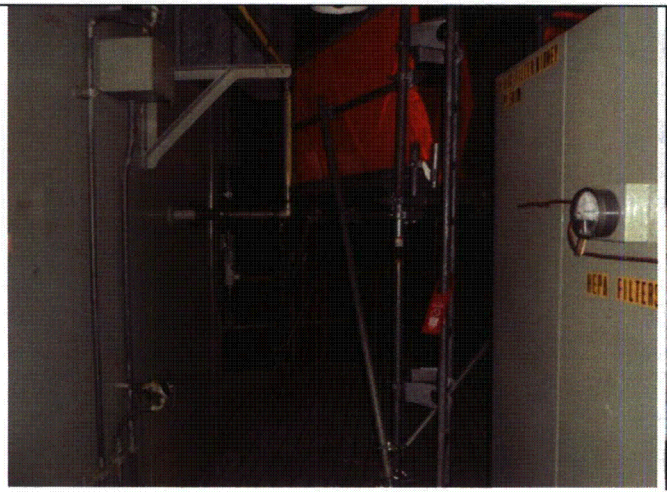
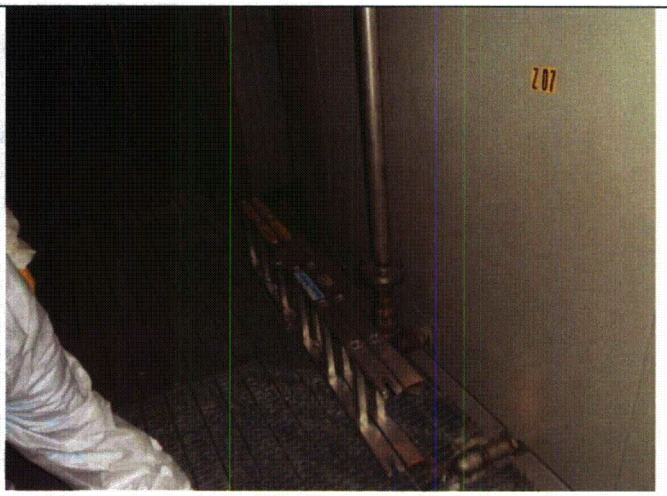
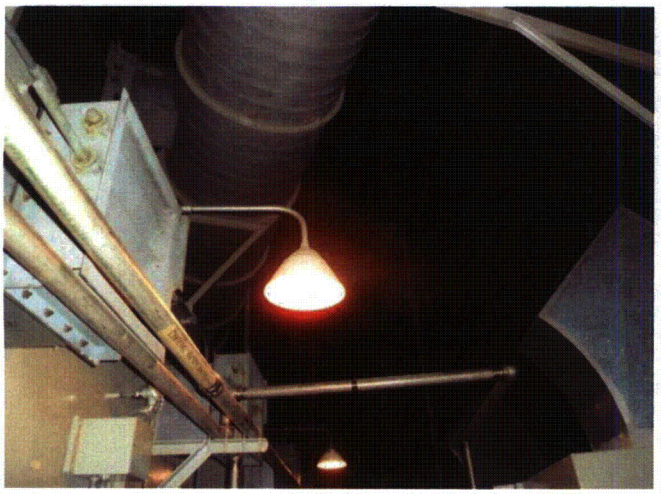
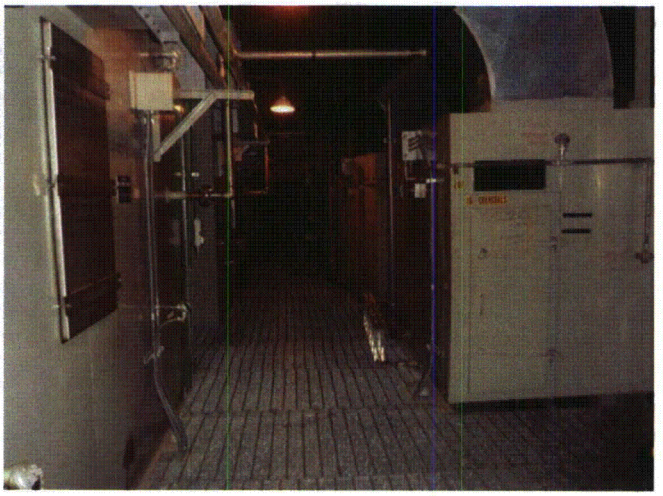
12/10/2012

ATTACHMENT (3)
AREA WALK-BY CHECKLISTS

Status: Y ☒ N ☐ U ☐

Area Walk-By Checklist (AWC)

Location (Bldg, Elev, Room/Area): Containment, 300'-4", Area 26e, Post Accident Charcoal Filter Platform

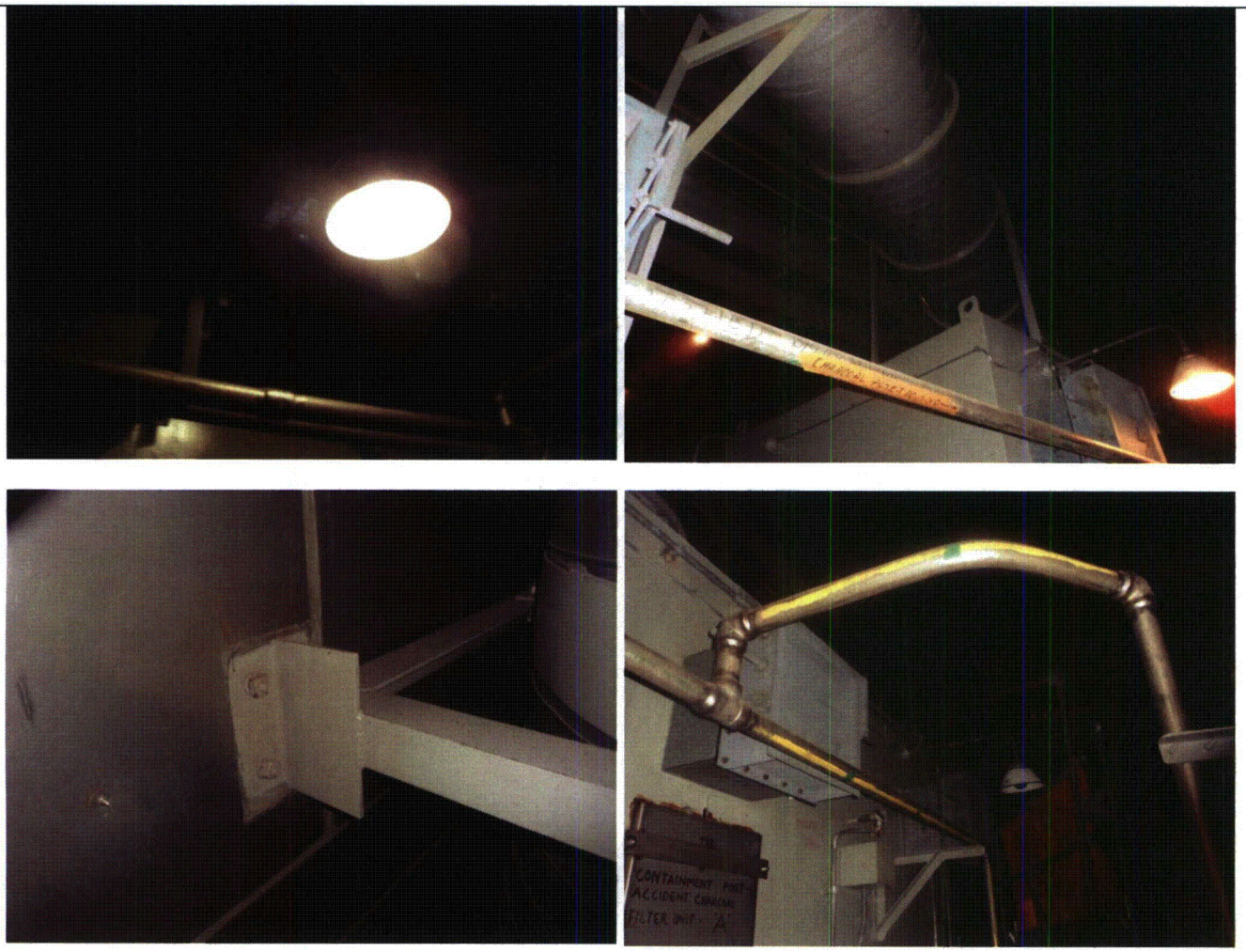





ATTACHMENT (3)
AREA WALK-BY CHECKLISTS

Status: Y ☒ N ☐ U ☐

Area Walk-By Checklist (AWC)

Location (Bldg, Elev, Room/Area): Containment, 300'-4", Area 26e, Post Accident Charcoal Filter Platform



ATTACHMENT (3)
AREA WALK-BY CHECKLISTS

Status: Y ☒ N ☐ U ☐

Area Walk-By Checklist (AWC)

Location (Bldg, Elev, Room/Area): Area 27 –Auxiliary Building, 235', Former Boric Acid Evaporator Room

Instructions for Completing Checklist

This checklist may be used to document the results of the Area Walk-By near one or more SWEL items. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

1. Does anchorage of equipment in the area appear to be free of potentially adverse seismic conditions (if visible without necessarily opening cabinets)? Y ☒ N ☐ U ☐ N/A ☐

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

3. Based on a visual inspection from the floor, do the cable/conduit raceways and HVAC ducting appear to be free of potentially adverse seismic conditions (e.g., condition of supports is adequate and fill conditions of cable trays appear to be inside acceptable limits)? Y ☒ N ☐ U ☐ N/A ☐

4. Does it appear that the area is free of potentially adverse seismic spatial interactions with other equipment in the area (e.g., ceiling tiles and lighting)? Y ☒ N ☐ U ☐ N/A ☐

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

ATTACHMENT (3)
AREA WALK-BY CHECKLISTS

Status: Y ☒ N ☐ U ☐

Area Walk-By Checklist (AWC)

Location (Bldg, Elev, Room/Area): Area 27 –Auxiliary Building, 235', Former Boric Acid Evaporator Room

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

   Compressed bottles are argon gas(non flammable) and are secured at 2 points of bottle.

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

   Scaffolding barrier removed from area, however carts are stored in the area. Seismic qualified equipment is mounted on a platform approximately 2' above floor, so it is not adverse. Cabinet closest to camera is not connected to plant equipment at this time.

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

Comments

Evaluated by: Jeffrey Sandin Date: 12/10/2012

12/10/2012

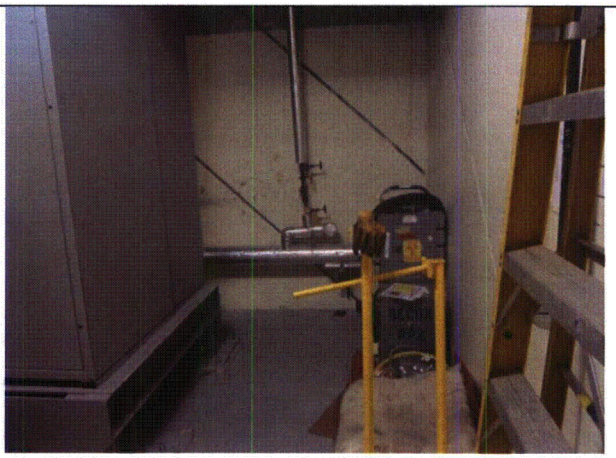
Pictures:

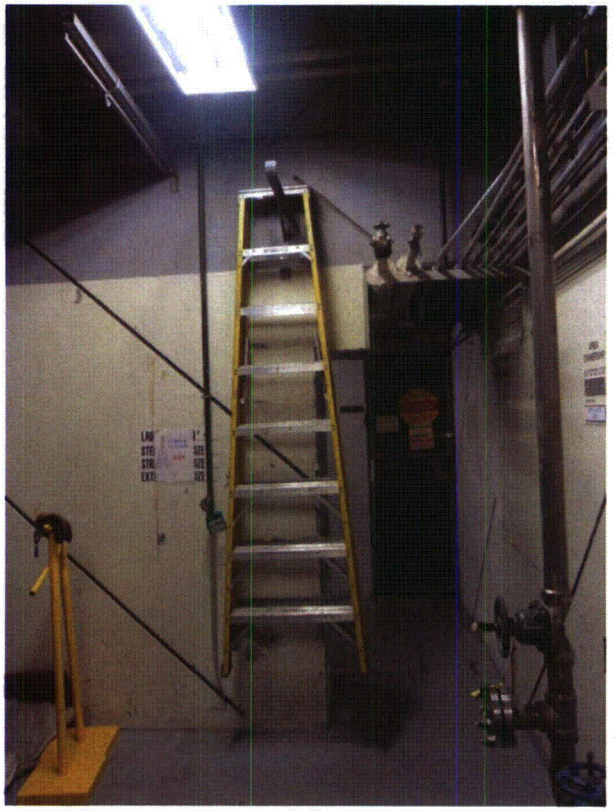
ATTACHMENT (3)
AREA WALK-BY CHECKLISTS

Status: Y ☒ N ☐ U ☐

Area Walk-By Checklist (AWC)

Location (Bldg, Elev, Room/Area): Area 27 –Auxiliary Building, 235', Former Boric Acid Evaporator Room



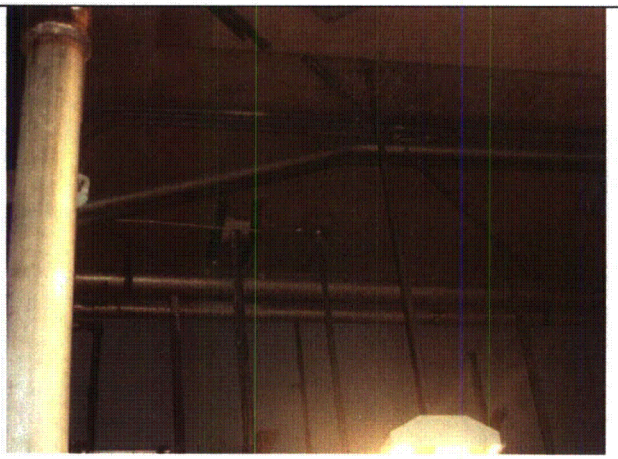


ATTACHMENT (3)
AREA WALK-BY CHECKLISTS

Status: Y ☒ N ☐ U ☐

Area Walk-By Checklist (AWC)

Location (Bldg, Elev, Room/Area): Area 27 –Auxiliary Building, 235', Former Boric Acid Evaporator Room



ATTACHMENT (4)

SWCs FOR SUPPLEMENTAL INTERNAL INSPECTIONS OF ELECTRICAL CABINETS

D

SWC's for Supplemental Internal Inspections of Electrical Cabinets

Table D-1: Summary of Supplemental Internal Inspections Completed by Ginna

Equipment Class	Component ID	Description	Page
1	MS@V3505A (42/3505A)	MOTOR STARTER FOR MOV-3505A	D-2
14	ACPDPAB10	PRESSURIZER HEATERS AC POWER DISTRIBUTION PANEL 1A1 (480 VAC)	D-5
14	DCPDPCB01A	DC DISTRIBUTION PANEL (BATTERY A MAIN DISCONNECT PANEL)	D-18
14	DCPDPCB02A	DC POWER DISTRIBUTION PANEL CB 02 A (MAIN FUSE CAB A)	D-22
14	DCPDPCB03A	DC POWER DISTRIBUTION PANEL CB 03 A (MAIN DC PNL 1A)	D-25
16	BYCA	BATTERY CHARGER A	D-10
16	BYCA1	BATTERY CHARGER A1	D-13
16	INVTCVTA	INVERTER INVTA / CONSTANT VOLTAGE TRANSFORMER CVTA CABINET	D-29
20	MCB	MAIN CONTROL BOARD	D-34
20	R1	REACTOR PROTECTION INSTRUMENT RACK CHANNEL 1 RED 1	D-39
20	RA2	AUXILIARY RELAY RACK 2	D-46
20	SA	SAFETY INJECTION/AUX COOLANT RACK	D-51
20	SAFWPCIP	STANDBY AUXILIARY FEEDWATER PUMP C INSTRUMENT PANEL	D-59
20	SIA1	SAFEGUARDS INITIATION RACK A1	D-64
20	Y1	REACTOR PROTECTION INSTRUMENT RACK CHANNEL 4 YELLOW 1	D-68

ATTACHMENT (4)

SUPPLEMENTAL INTERNAL INSPECTIONS OF ELECTRICAL CABINETS

Status: Y ☒ N ☐ U ☐

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 42/3505A

Equipment Class: (1) Motor Control Centers

Equipment Description: MOTOR STARTER FOR MOV-3505A

Project: Ginna SWEL 1 (Supplemental Internal Inspection of Cabinet)

Location (Bldg, Elev, Room/Area): Intermediate Building, 278.00 ft, Area 16

Manufacturer/Model:

Instructions for Completing Checklist

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

Anchorage

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

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

   Heads of 2 expansion anchors for concrete block are visible in the back of the box behind the wires.

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 ☐

   No cracks visible in block surrounding the box

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 ☒

ATTACHMENT (4)

SUPPLEMENTAL INTERNAL INSPECTIONS OF ELECTRICAL CABINETS

Status: Y ☒ N ☐ U ☐

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 42/3505A

Equipment Class: (1) Motor Control Centers

Equipment Description: MOTOR STARTER FOR MOV-3505A

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

Interaction Effects

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

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 972-5I, 972-6I and 972-7I were seismically qualified per DA-CE-98-095

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 adverse seismic conditions that could adversely affect the safety functions of the equipment? Y ☒ N ☐ U ☐

Comments

Evaluated by: Jeffrey Sandin Date: 12/10/2012

12/10/2012

ATTACHMENT (4)

SUPPLEMENTAL INTERNAL INSPECTIONS OF ELECTRICAL CABINETS

Status: Y ☒ N ☐ U ☐

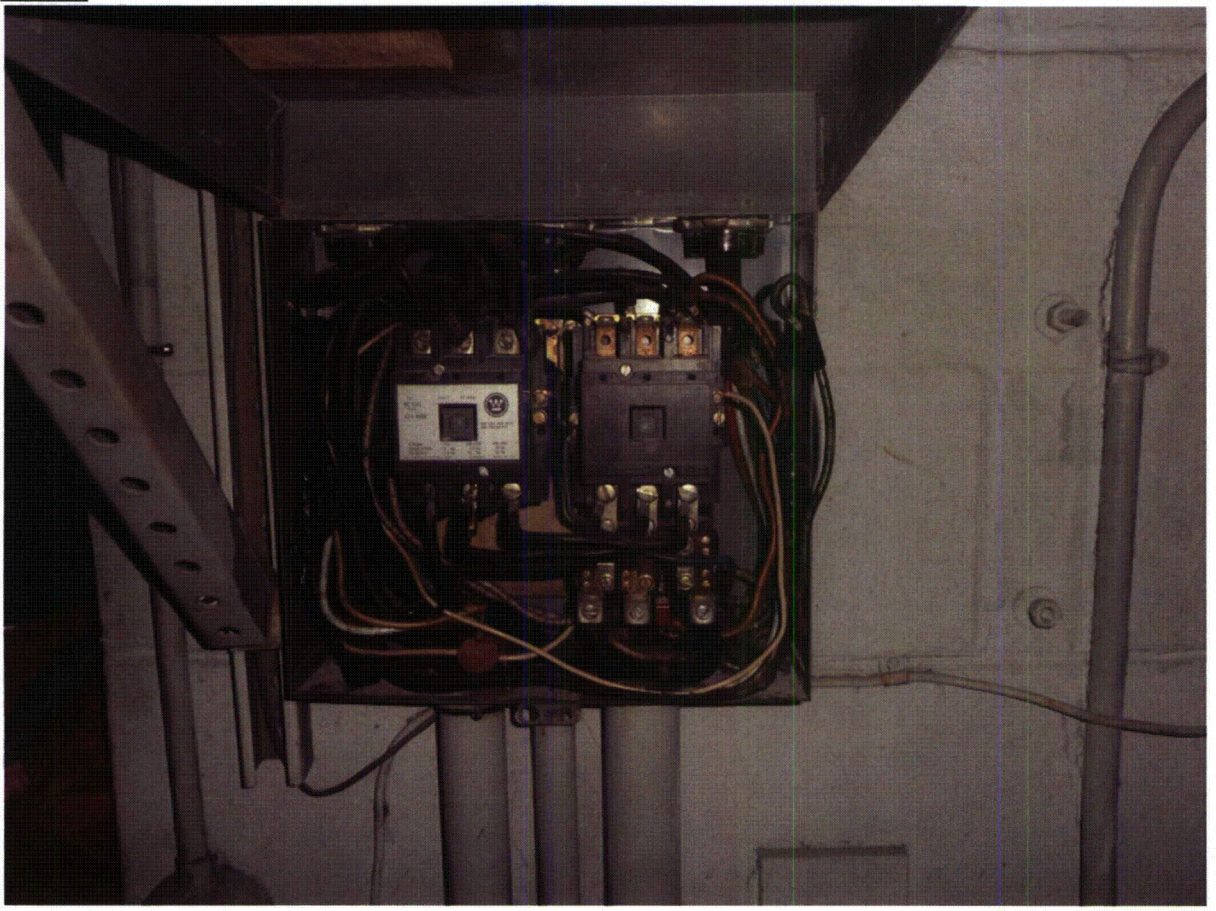
Seismic Walkdown Checklist (SWC)

Equipment ID No.: 42/3505A

Equipment Class: (1) Motor Control Centers

Equipment Description: MOTOR STARTER FOR MOV-3505A

Photos



ATTACHMENT (4)

SUPPLEMENTAL INTERNAL INSPECTIONS OF ELECTRICAL CABINETS

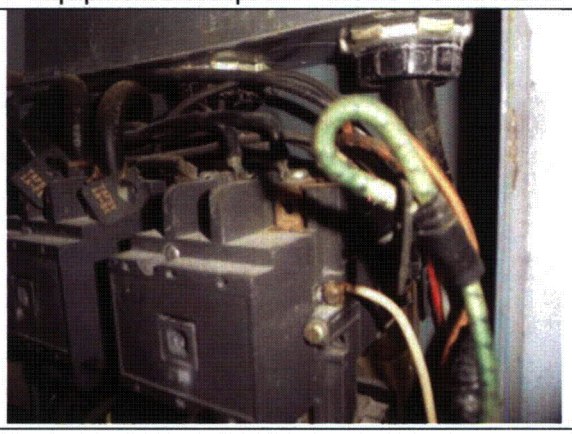
Status: Y ☒ N ☐ U ☐

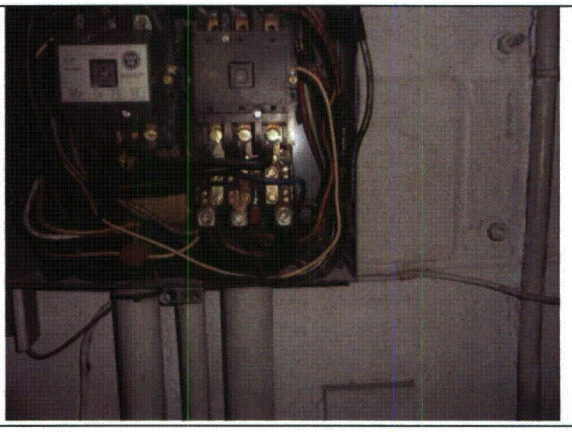
Seismic Walkdown Checklist (SWC)

Equipment ID No.: 42/3505A

Equipment Class: (1) Motor Control Centers

Equipment Description: MOTOR STARTER FOR MOV-3505A





Status: Y ☒ N ☐ U ☐

Seismic Walkdown Checklist (SWC)

Equipment ID No.: ACPDPAB10

Equipment Class: (14) Distribution Panels

Equipment Description: PRESSURIZER HEATERS AC POWER DISTRIBUTION PANEL 1A1 (480 VAC)

Project: Ginna SWEL 1 (Supplemental Internal Inspection of Cabinet)

Location (Bldg, Elev, Room/Area): Auxiliary Building, 253.00 ft, Area 21

Manufacturer/Model:

Instructions for Completing Checklist

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

Anchorage

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

   N/A Supplemental inspection of cabinet internals. Anchorage is external to the cabinet and was inspected under previous Seismic Walkdown Report

ATTACHMENT (4)

SUPPLEMENTAL INTERNAL INSPECTIONS OF ELECTRICAL CABINETS

Status: Y ☒ N ☐ U ☐

Seismic Walkdown Checklist (SWC)

Equipment ID No.: ACPDPAB10

Equipment Class: (14) Distribution Panels

Equipment Description: PRESSURIZER HEATERS AC POWER DISTRIBUTION PANEL 1A1 (480 VAC)

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

   N/A Supplemental inspection of cabinet internals.

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

   N/A Supplemental inspection of cabinet internals.

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

   N/A Supplemental inspection of cabinet internals.

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 ☐

   N/A Supplemental inspection of cabinet internals.

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

   N/A Supplemental inspection of cabinet internals.

Interaction Effects

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

   N/A Supplemental inspection of cabinet internals.

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 ☐

   N/A Supplemental inspection of cabinet internals.

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

ATTACHMENT (4)

SUPPLEMENTAL INTERNAL INSPECTIONS OF ELECTRICAL CABINETS

Status: Y ☒ N ☐ U ☐

Seismic Walkdown Checklist (SWC)

Equipment ID No.: ACPDPAB10

Equipment Class: (14) Distribution Panels

Equipment Description: PRESSURIZER HEATERS AC POWER DISTRIBUTION PANEL 1A1 (480 VAC)

N/A Supplemental inspection of cabinet internals.

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

    N/A Supplemental inspection of cabinet internals.

Other Adverse Conditions

11. Have you looked for and found no adverse seismic conditions that could adversely affect the safety functions of the equipment? Y ☒ N ☐ U ☐
    Supplemental internal inspection: Cabinet contains circuit breakers, unable to inspect further without disassembly or removal of power.

Comments

Evaluated by: Jeffrey Sandin Date: 12/10/2012

12/10/2012

Photos

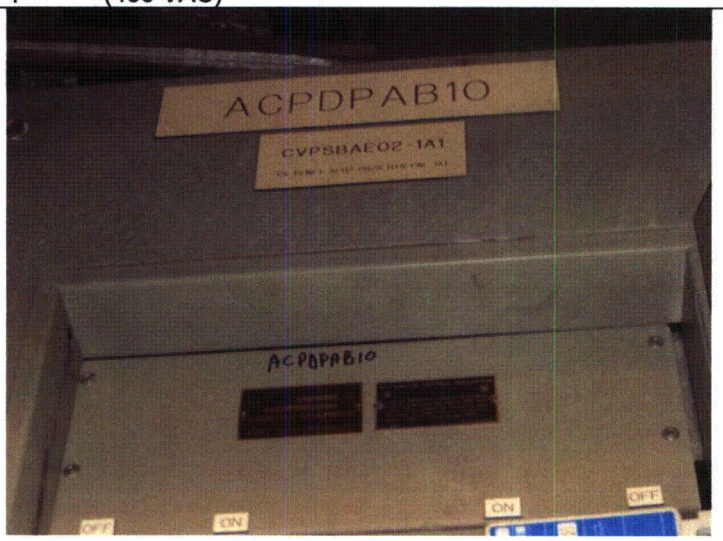
ATTACHMENT (4)

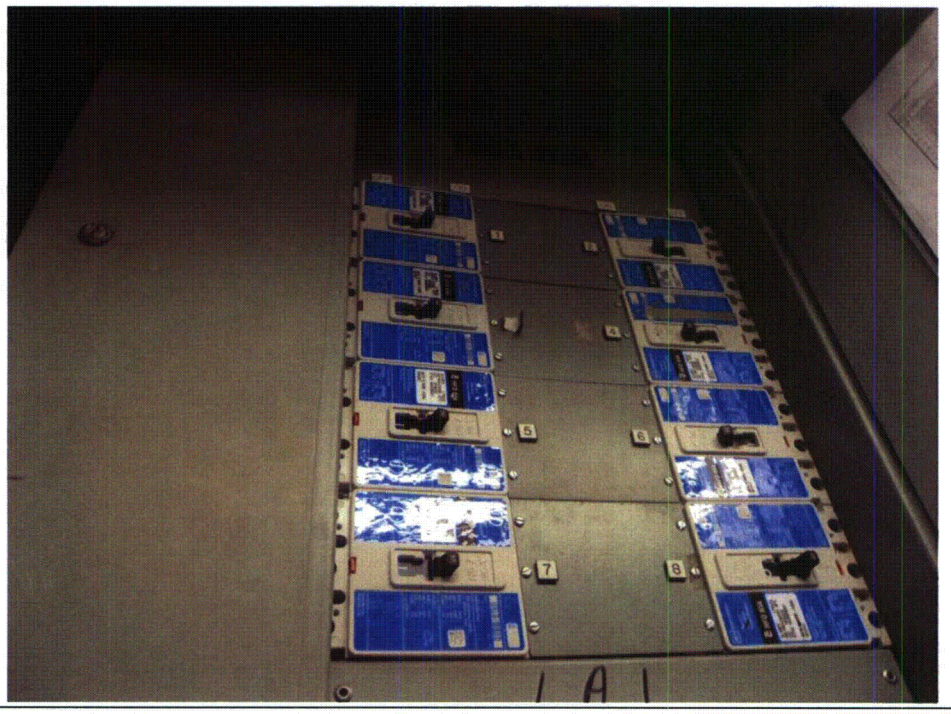
SUPPLEMENTAL INTERNAL INSPECTIONS OF ELECTRICAL CABINETS

Status: Y ☒ N ☐ U ☐

Seismic Walkdown Checklist (SWC)

Equipment ID No.:	ACPDPAB10
Equipment Class:	(14) Distribution Panels
Equipment Description:	PRESSURIZER HEATERS AC POWER DISTRIBUTION PANEL 1A1 (480 VAC)





ATTACHMENT (4)

SUPPLEMENTAL INTERNAL INSPECTIONS OF ELECTRICAL CABINETS

Status: Y ☒ N ☐ U ☐

Seismic Walkdown Checklist (SWC)

Equipment ID No.:	ACPDPAB10
Equipment Class:	(14) Distribution Panels
Equipment Description:	PRESSURIZER HEATERS AC POWER DISTRIBUTION PANEL 1A1 (480 VAC)

ATTACHMENT (4)

SUPPLEMENTAL INTERNAL INSPECTIONS OF ELECTRICAL CABINETS

Status: Y ☒ N ☐ U ☐

Seismic Walkdown Checklist (SWC)

Equipment ID No.: BYCA

Equipment Class: (16) Battery Chargers and Inverters

Equipment Description: BATTERY CHARGER 1

Project: Ginna SWEL 1 (Supplemental Internal Inspection of Cabinet)

Location (Bldg, Elev, Room/Area): Control Building, 253.00 ft, Area 01

Manufacturer/Model:

Instructions for Completing Checklist

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

Anchorage

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

   N/A Supplemental inspection of cabinet internals. Anchorage is external to the cabinet and was inspected under previous Seismic Walkdown Report

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

   N/A Supplemental inspection of cabinet internals.

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

   N/A Supplemental inspection of cabinet internals.

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

   N/A Supplemental inspection of cabinet internals.

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 ☐

   N/A Supplemental inspection of cabinet internals.

ATTACHMENT (4)

SUPPLEMENTAL INTERNAL INSPECTIONS OF ELECTRICAL CABINETS

Status: Y ☒ N ☐ U ☐

Seismic Walkdown Checklist (SWC)

Equipment ID No.: BYCA

Equipment Class: (16) Battery Chargers and Inverters

Equipment Description: BATTERY CHARGER 1

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y ☐ N ☐ U ☐
   N/A Supplemental inspection of cabinet internals.

Interaction Effects

7. Are soft targets free from impact by nearby equipment or structures? Y ☐ N ☐ U ☐ N/A ☐
   N/A Supplemental inspection of cabinet internals.

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 ☐
   N/A Supplemental inspection of cabinet internals.

9. Do attached lines have adequate flexibility to avoid damage? Y ☐ N ☐ U ☐ N/A ☐
   N/A Supplemental inspection of cabinet internals.

10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y ☐ N ☐ U ☐
    N/A Supplemental inspection of cabinet internals.

Other Adverse Conditions

11. Have you looked for and found no adverse seismic conditions that could adversely affect the safety functions of the equipment? Y ☒ N ☐ U ☐
    Supplemental internal inspection: Recently replaced, well-routed cabinet, no internal modifications noted. Inspected live, same model as BYCA1

Comments

Evaluated by: Jeffrey Sandin Date: 12/10/2012

12/10/2012

ATTACHMENT (4)

SUPPLEMENTAL INTERNAL INSPECTIONS OF ELECTRICAL CABINETS

Status: Y ☒ N ☐ U ☐

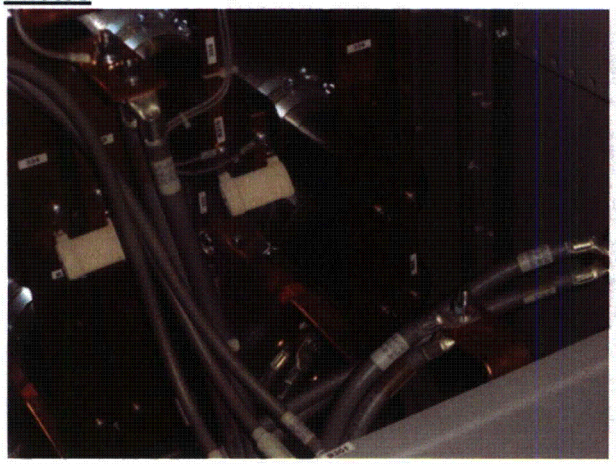
Seismic Walkdown Checklist (SWC)

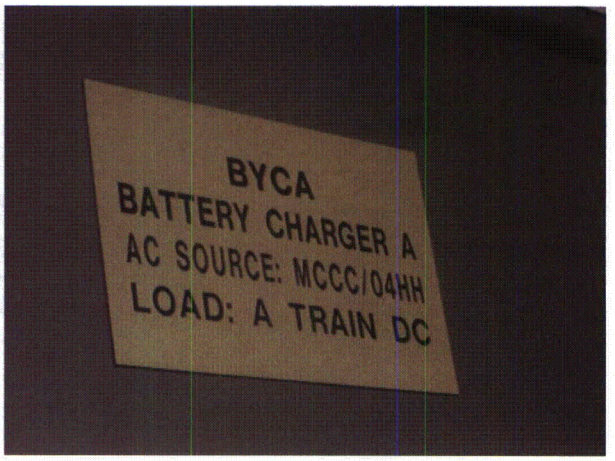
Equipment ID No.: BYCA

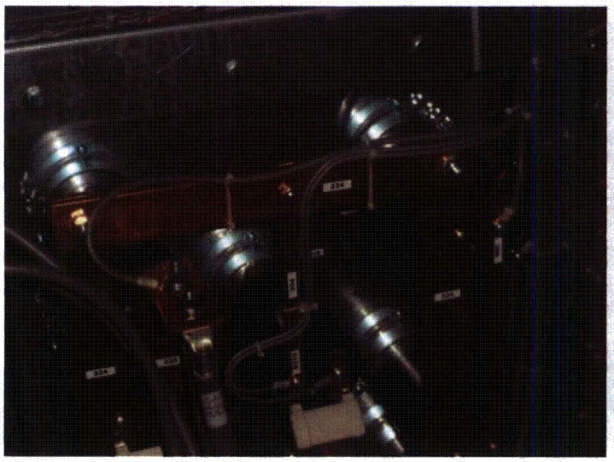
Equipment Class: (16) Battery Chargers and Inverters

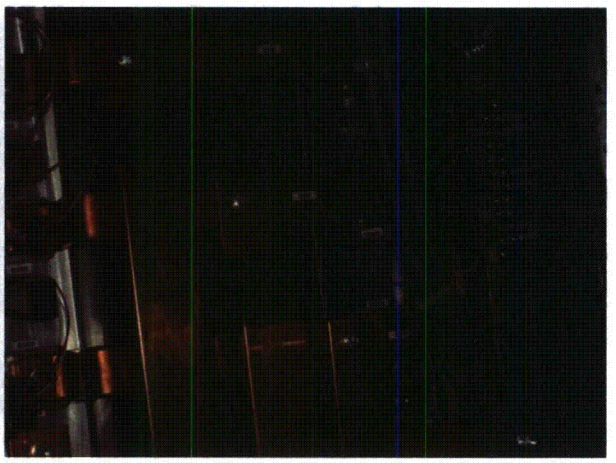
Equipment Description: BATTERY CHARGER 1

Photos









ATTACHMENT (4)

SUPPLEMENTAL INTERNAL INSPECTIONS OF ELECTRICAL CABINETS

Status: Y ☒ N ☐ U ☐

Seismic Walkdown Checklist (SWC)

Equipment ID No.: BYCA1

Equipment Class: (16) Battery Chargers and Inverters

Equipment Description: BATTERY CHARGER A1

Project: Ginna SWEL 1 (Supplemental Internal Inspection of Cabinet)

Location (Bldg, Elev, Room/Area): Control Building, 253.00 ft, Area 01

Manufacturer/Model:

Instructions for Completing Checklist

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

Anchorage

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

   N/A Supplemental inspection of cabinet internals. Anchorage is external to the cabinet and was inspected under previous Seismic Walkdown Report

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

   N/A Supplemental inspection of cabinet internals.

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

   N/A Supplemental inspection of cabinet internals.

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

   N/A Supplemental inspection of cabinet internals.

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 ☐

   N/A Supplemental inspection of cabinet internals.

ATTACHMENT (4)

SUPPLEMENTAL INTERNAL INSPECTIONS OF ELECTRICAL CABINETS

Status: Y ☒ N ☐ U ☐

Seismic Walkdown Checklist (SWC)

Equipment ID No.: BYCA1

Equipment Class: (16) Battery Chargers and Inverters

Equipment Description: BATTERY CHARGER A1

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y ☐ N ☐ U ☐
   N/A Supplemental inspection of cabinet internals.

Interaction Effects

7. Are soft targets free from impact by nearby equipment or structures? Y ☐ N ☐ U ☐ N/A ☐
   N/A Supplemental inspection of cabinet internals.

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 ☐
   N/A Supplemental inspection of cabinet internals.

9. Do attached lines have adequate flexibility to avoid damage? Y ☐ N ☐ U ☐ N/A ☐
   N/A Supplemental inspection of cabinet internals.

10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y ☐ N ☐ U ☐
    N/A Supplemental inspection of cabinet internals.

Other Adverse Conditions

11. Have you looked for and found no adverse seismic conditions that could adversely affect the safety functions of the equipment? Y ☒ N ☐ U ☐
    Supplemental internal inspection: Recently replaced, well-routed cabinet, no internal modifications noted. Inspected live, same model as BYCA

Comments

Evaluated by: Jeffrey Sandin Date: 12/10/2012

12/10/2012

ATTACHMENT (4)

SUPPLEMENTAL INTERNAL INSPECTIONS OF ELECTRICAL CABINETS

Status: Y ☒ N ☐ U ☐

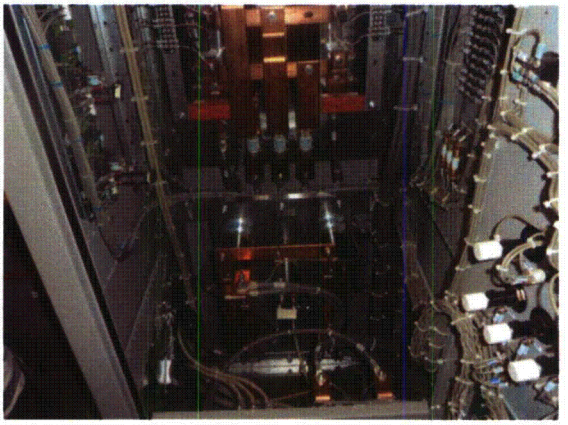
Seismic Walkdown Checklist (SWC)

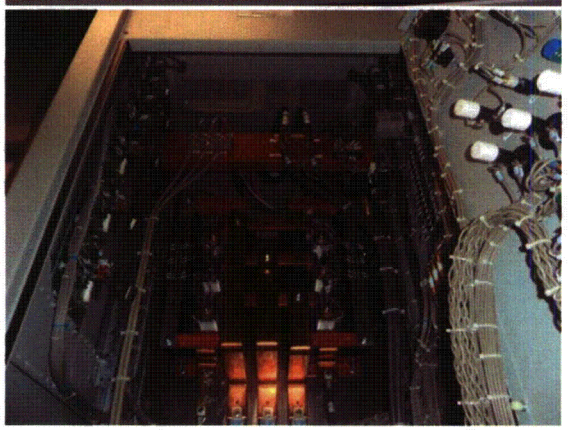
Equipment ID No.: BYCA1

Equipment Class: (16) Battery Chargers and Inverters

Equipment Description: BATTERY CHARGER A1

Photos





ATTACHMENT (4)

SUPPLEMENTAL INTERNAL INSPECTIONS OF ELECTRICAL CABINETS

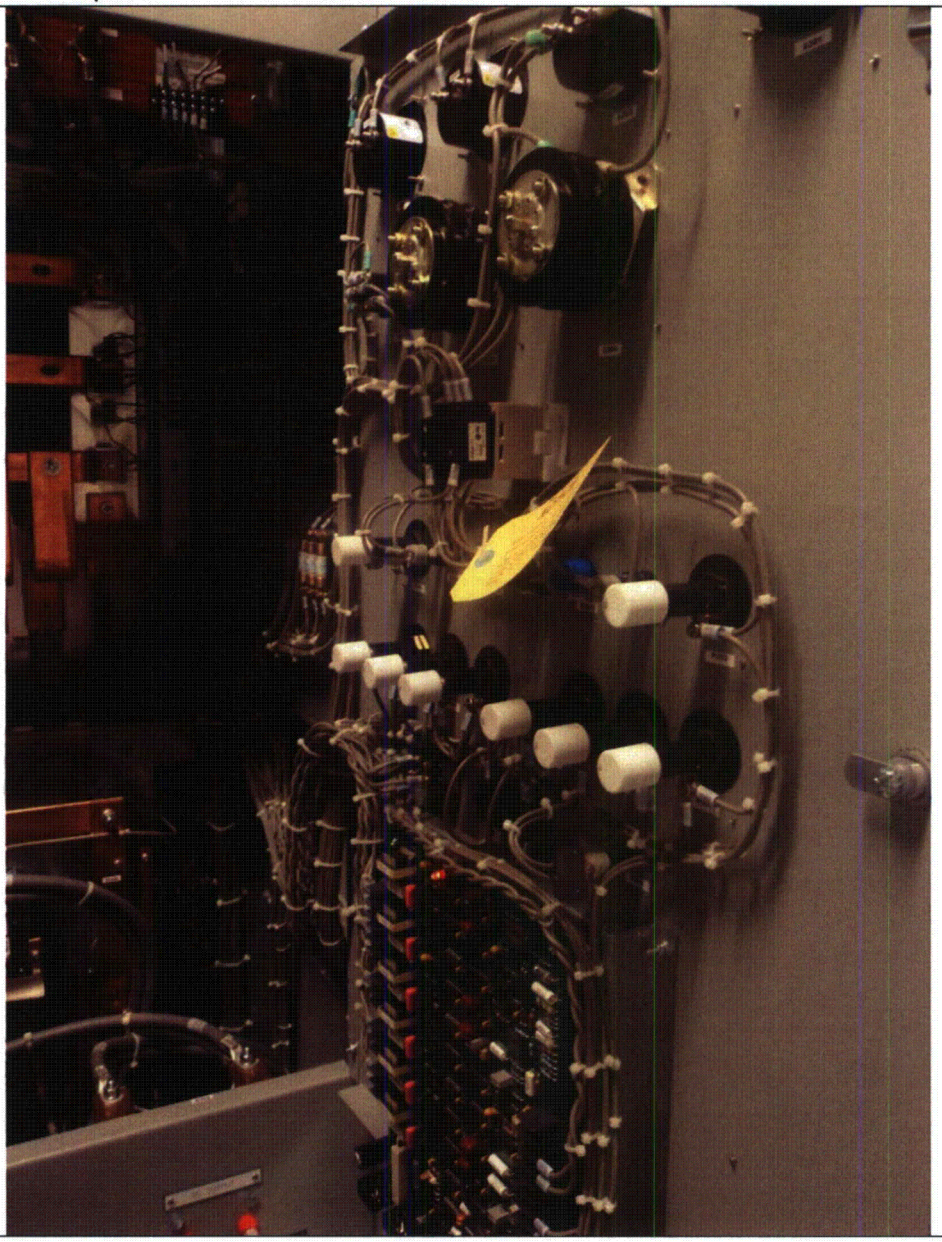
Status: Y ☒ N ☐ U ☐

Seismic Walkdown Checklist (SWC)

Equipment ID No.: BYCA1

Equipment Class: (16) Battery Chargers and Inverters

Equipment Description: BATTERY CHARGER A1



ATTACHMENT (4)

SUPPLEMENTAL INTERNAL INSPECTIONS OF ELECTRICAL CABINETS

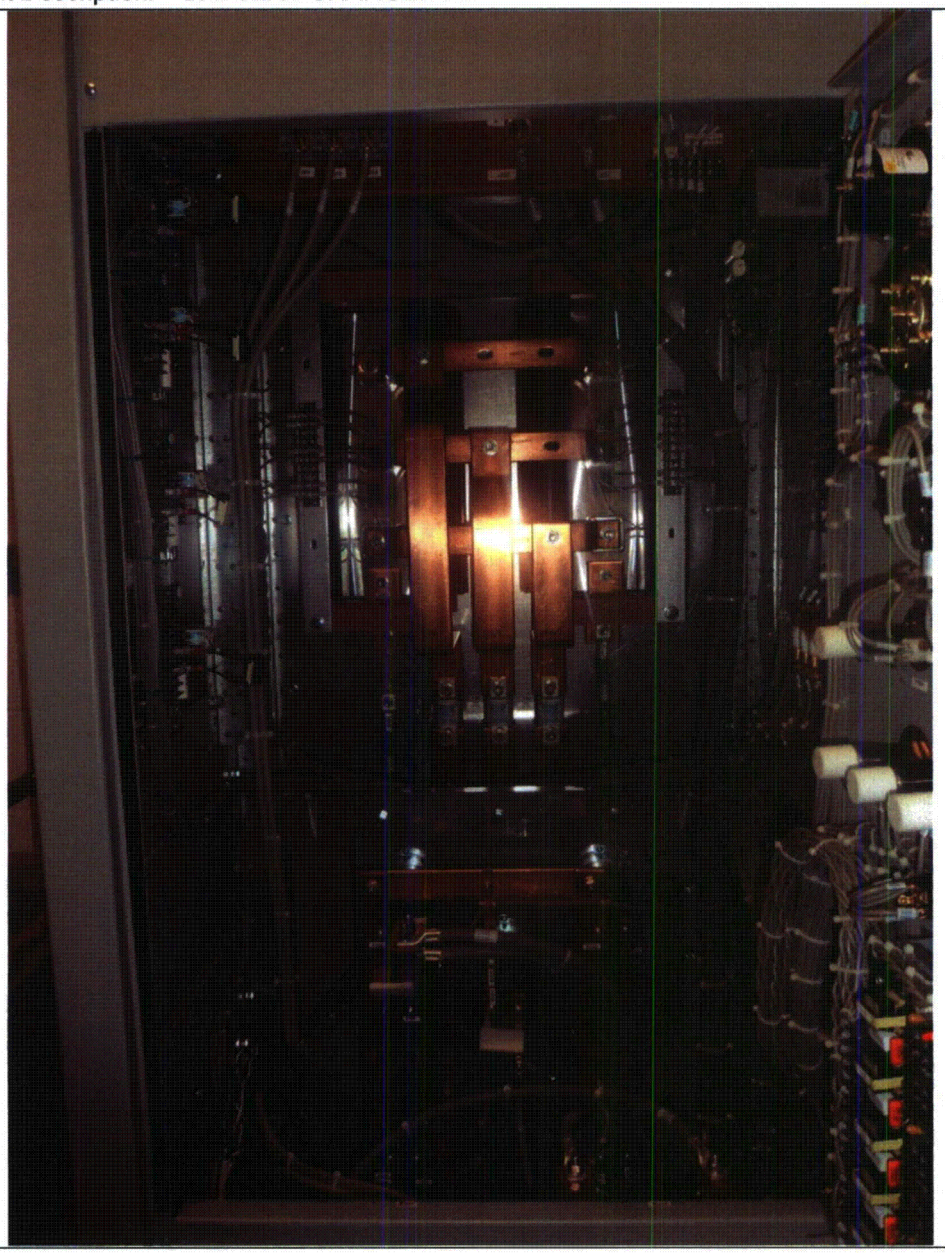
Status: Y ☒ N ☐ U ☐

Seismic Walkdown Checklist (SWC)

Equipment ID No.: BYCA1

Equipment Class: (16) Battery Chargers and Inverters

Equipment Description: BATTERY CHARGER A1



ATTACHMENT (4)

SUPPLEMENTAL INTERNAL INSPECTIONS OF ELECTRICAL CABINETS

Status: Y ☒ N ☐ U ☐

Seismic Walkdown Checklist (SWC)

Equipment ID No.: DCPDPCB01A

Equipment Class: (14) Distribution Panels

Equipment Description: DC DISTRIBUTION PANEL (BATTERY A MAIN DISCONNECT PANEL)

Project: Ginna SWEL 1 (Supplemental Internal Inspection of Cabinet)

Location (Bldg, Elev, Room/Area): Control Building, 253.00 ft, Area 01

Manufacturer/Model:

Instructions for Completing Checklist

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

Anchorage

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

   N/A Supplemental inspection of cabinet internals. Internal cabinet anchorage is not credited in seismic analysis of cabinet mounting.

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

   N/A Supplemental inspection of cabinet internals.

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

   N/A Supplemental inspection of cabinet internals.

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

   N/A Supplemental inspection of cabinet internals.

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 ☐

   N/A Supplemental inspection of cabinet internals.

ATTACHMENT (4)

SUPPLEMENTAL INTERNAL INSPECTIONS OF ELECTRICAL CABINETS

Status: Y ☒ N ☐ U ☐

Seismic Walkdown Checklist (SWC)

Equipment ID No.: DCPDPCB01A

Equipment Class: (14) Distribution Panels

Equipment Description: DC DISTRIBUTION PANEL (BATTERY A MAIN DISCONNECT PANEL)

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y ☐ N ☐ U ☐
   N/A Supplemental inspection of cabinet internals.

Interaction Effects

7. Are soft targets free from impact by nearby equipment or structures? Y ☐ N ☐ U ☐ N/A ☐
   N/A Supplemental inspection of cabinet internals.

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 ☐
   N/A Supplemental inspection of cabinet internals.

9. Do attached lines have adequate flexibility to avoid damage? Y ☐ N ☐ U ☐ N/A ☐
   N/A Supplemental inspection of cabinet internals.

10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y ☐ N ☐ U ☐
    N/A Supplemental inspection of cabinet internals.

Other Adverse Conditions

11. Have you looked for and found no adverse seismic conditions that could adversely affect the safety functions of the equipment? Y ☒ N ☐ U ☐
    Supplemental internal inspection: Cabinet contains single disconnect switch, clean cabinet. Internal anchorage not verified as it is not credited in seismic analysis of cabinet mounting

Comments

Evaluated by: Jeffrey Sandin Date: 12/10/2012

12/10/2012

ATTACHMENT (4)

SUPPLEMENTAL INTERNAL INSPECTIONS OF ELECTRICAL CABINETS

Status: Y ☒ N ☐ U ☐

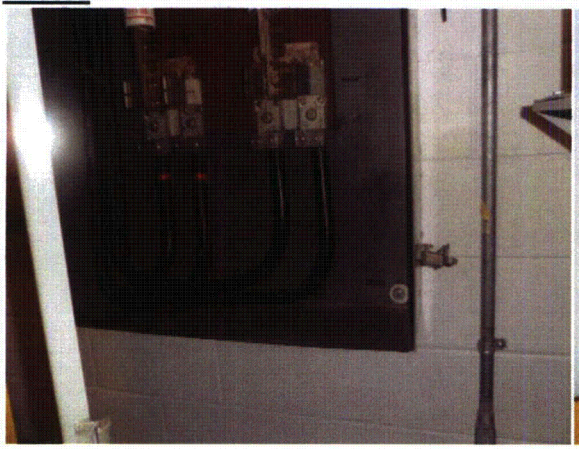
Seismic Walkdown Checklist (SWC)

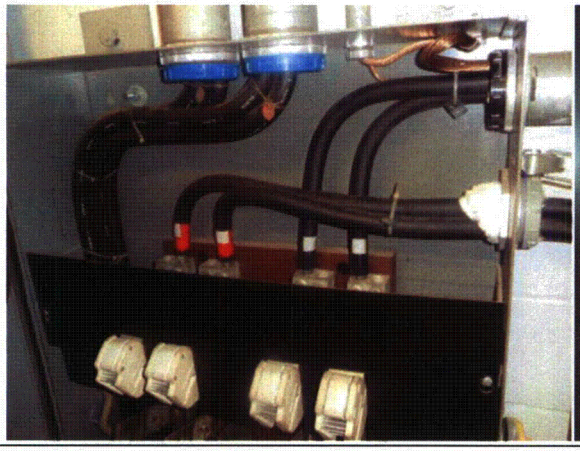
Equipment ID No.: DCPDPCB01A

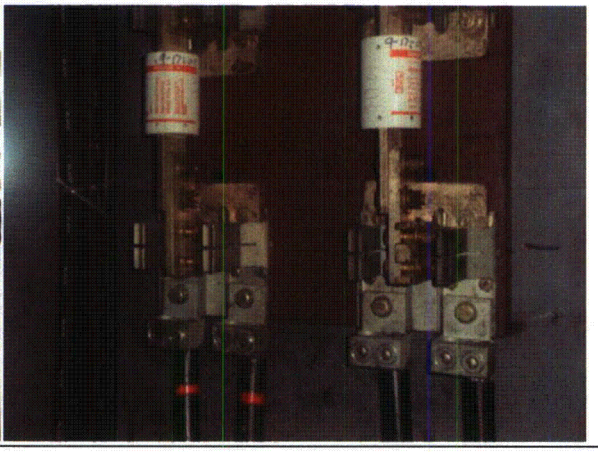
Equipment Class: (14) Distribution Panels

Equipment Description: DC DISTRIBUTION PANEL (BATTERY A MAIN DISCONNECT PANEL)

Photos







ATTACHMENT (4)

SUPPLEMENTAL INTERNAL INSPECTIONS OF ELECTRICAL CABINETS

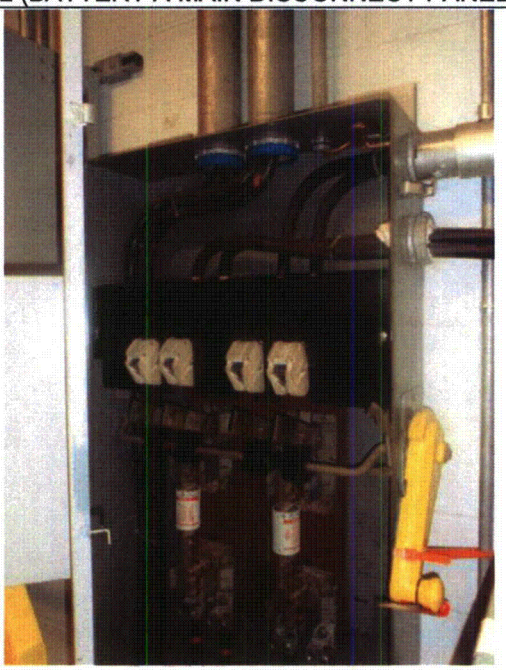
Status: Y ☒ N ☐ U ☐

Seismic Walkdown Checklist (SWC)

Equipment ID No.: DCPDPCB01A

Equipment Class: (14) Distribution Panels

Equipment Description: DC DISTRIBUTION PANEL (BATTERY A MAIN DISCONNECT PANEL)



ATTACHMENT (4)

SUPPLEMENTAL INTERNAL INSPECTIONS OF ELECTRICAL CABINETS

Status: Y ☒ N ☐ U ☐

Seismic Walkdown Checklist (SWC)

Equipment ID No.: DCPDPCB02A

Equipment Class: (14) Distribution Panels

Equipment Description: DC POWER DISTRIBUTION PANEL CB 02 A (MAIN FUSE CAB A)

Project: Ginna SWEL 1 (Supplemental Internal Inspection of Cabinet)

Location (Bldg, Elev, Room/Area): Control Building, 253.00 ft, Area 01

Manufacturer/Model:

Instructions for Completing Checklist

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

Anchorage

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

   N/A Supplemental inspection of cabinet internals. Anchorage is external to the cabinet and was inspected under previous Seismic Walkdown Report

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

   N/A Supplemental inspection of cabinet internals.

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

   N/A Supplemental inspection of cabinet internals.

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

   N/A Supplemental inspection of cabinet internals.

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 ☐

   N/A Supplemental inspection of cabinet internals.

ATTACHMENT (4)

SUPPLEMENTAL INTERNAL INSPECTIONS OF ELECTRICAL CABINETS

Status: Y ☒ N ☐ U ☐

Seismic Walkdown Checklist (SWC)

Equipment ID No.: DCPDPCB02A

Equipment Class: (14) Distribution Panels

Equipment Description: DC POWER DISTRIBUTION PANEL CB 02 A (MAIN FUSE CAB A)

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y ☐ N ☐ U ☐
   N/A Supplemental inspection of cabinet internals.

Interaction Effects

7. Are soft targets free from impact by nearby equipment or structures? Y ☐ N ☐ U ☐ N/A ☐
   N/A Supplemental inspection of cabinet internals.

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 ☐
   N/A Supplemental inspection of cabinet internals.

9. Do attached lines have adequate flexibility to avoid damage? Y ☐ N ☐ U ☐ N/A ☐
   N/A Supplemental inspection of cabinet internals.

10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y ☐ N ☐ U ☐
    N/A Supplemental inspection of cabinet internals.

Other Adverse Conditions

11. Have you looked for and found no adverse seismic conditions that could adversely affect the safety functions of the equipment? Y ☒ N ☐ U ☐
    Supplemental internal inspection: Cabinet contains fusible disconnects, unable to inspect further without disassembly or removal of power.

Comments

Evaluated by: Jeffrey Sandin Date: 12/10/2012

12/10/2012

ATTACHMENT (4)

SUPPLEMENTAL INTERNAL INSPECTIONS OF ELECTRICAL CABINETS

Status: Y ☒ N ☐ U ☐

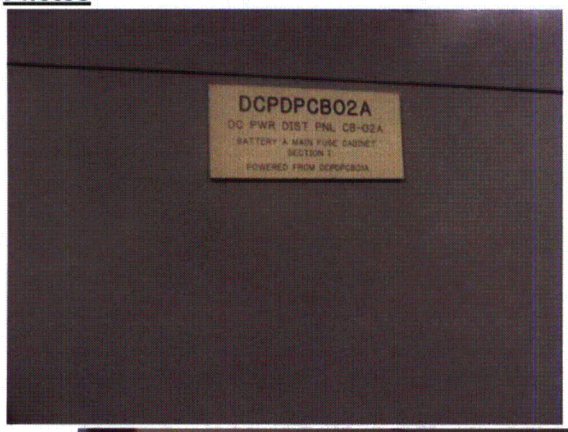
Seismic Walkdown Checklist (SWC)

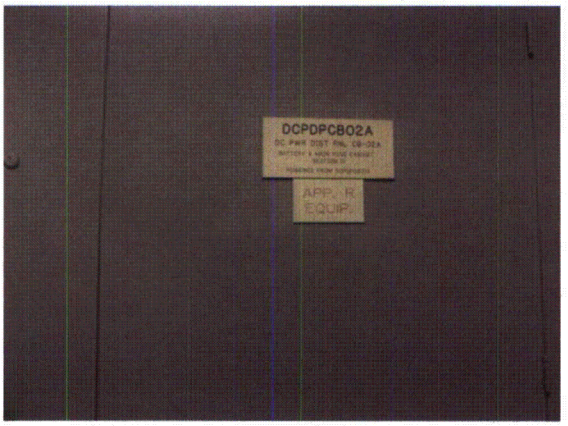
Equipment ID No.: DCPDPCB02A

Equipment Class: (14) Distribution Panels

Equipment Description: DC POWER DISTRIBUTION PANEL CB 02 A (MAIN FUSE CAB A)

Photos





ATTACHMENT (4)

SUPPLEMENTAL INTERNAL INSPECTIONS OF ELECTRICAL CABINETS

Status: Y ☒ N ☐ U ☐

Seismic Walkdown Checklist (SWC)

Equipment ID No.: DCPDPCB03A

Equipment Class: (14) Distribution Panels

Equipment Description: DC POWER DISTRIBUTION PANEL CB 03 A (MAIN DC PNL 1A)

Project: Ginna SWEL 1 (Supplemental Internal Inspection of Cabinet)

Location (Bldg, Elev, Room/Area): Control Building, 253.00 ft, Area 01

Manufacturer/Model:

Instructions for Completing Checklist

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

Anchorage

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

   N/A Supplemental inspection of cabinet internals. Anchorage is external to the cabinet and was inspected under previous Seismic Walkdown Report

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

   N/A Supplemental inspection of cabinet internals.

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

   N/A Supplemental inspection of cabinet internals.

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

   N/A Supplemental inspection of cabinet internals.

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 ☐

   N/A Supplemental inspection of cabinet internals.

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

ATTACHMENT (4)

SUPPLEMENTAL INTERNAL INSPECTIONS OF ELECTRICAL CABINETS

Status: Y ☒ N ☐ U ☐

Seismic Walkdown Checklist (SWC)

Equipment ID No.: DCPDPCB02A

Equipment Class: (14) Distribution Panels

Equipment Description: DC POWER DISTRIBUTION PANEL CB 02 A (MAIN FUSE CAB A)

N/A Supplemental inspection of cabinet internals.

Interaction Effects

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

   N/A Supplemental inspection of cabinet internals.

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 ☐

   N/A Supplemental inspection of cabinet internals.

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

   N/A Supplemental inspection of cabinet internals.

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

    N/A Supplemental inspection of cabinet internals.

Other Adverse Conditions

11. Have you looked for and found no adverse seismic conditions that could adversely affect the safety functions of the equipment? Y ☒ N ☐ U ☐
    Supplemental internal inspection: Cabinet contains fusible disconnects, unable to inspect further without disassembly or removal of power.

Comments

Evaluated by: Jeffrey Sandin Date: 12/10/2012

12/10/2012

ATTACHMENT (4)

SUPPLEMENTAL INTERNAL INSPECTIONS OF ELECTRICAL CABINETS

Status: Y ☒ N ☐ U ☐

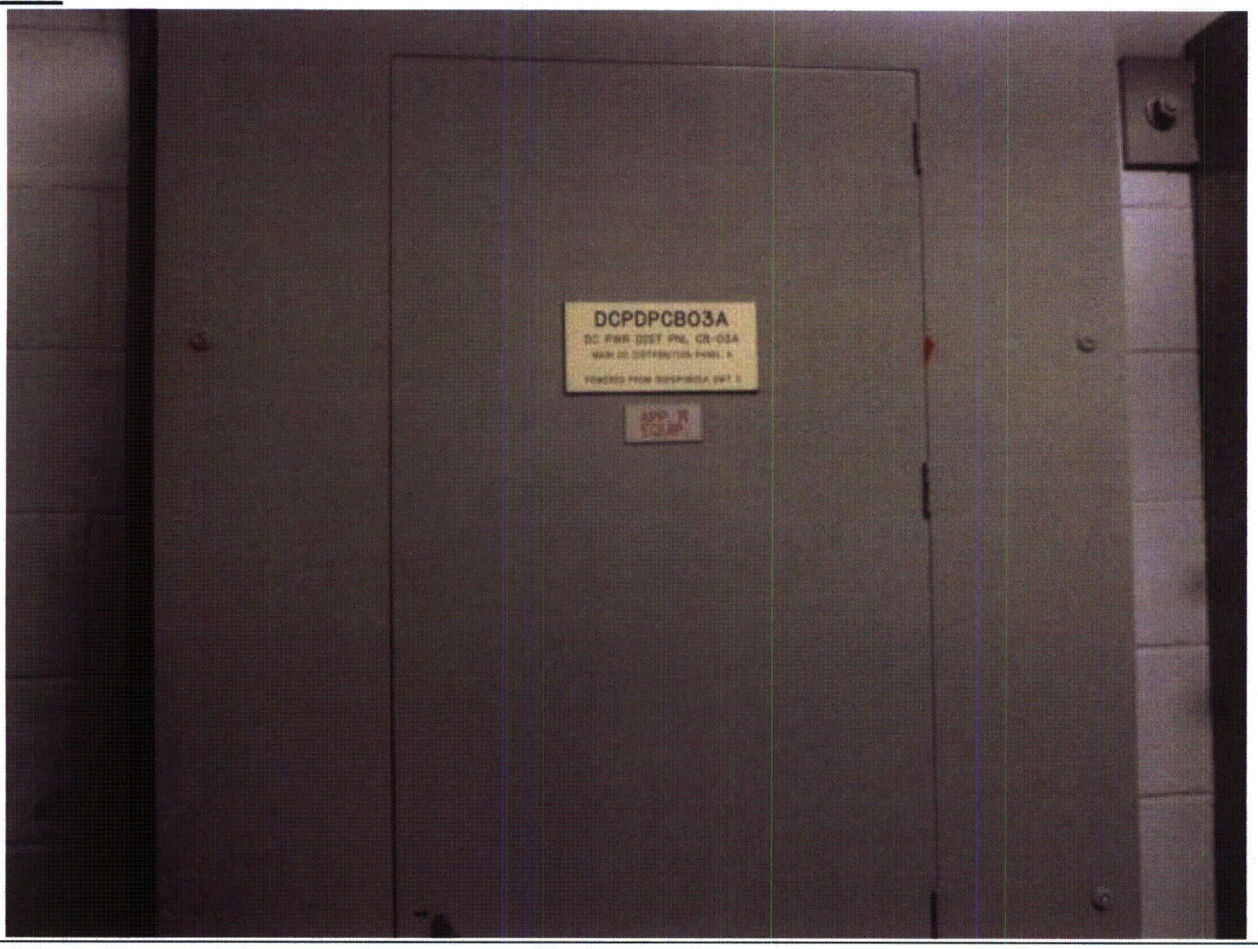
Seismic Walkdown Checklist (SWC)

Equipment ID No.: DCPDPCB02A

Equipment Class: (14) Distribution Panels

Equipment Description: DC POWER DISTRIBUTION PANEL CB 02 A (MAIN FUSE CAB A)

Photos



ATTACHMENT (4)

SUPPLEMENTAL INTERNAL INSPECTIONS OF ELECTRICAL CABINETS

Status: Y ☒ N ☐ U ☐

Seismic Walkdown Checklist (SWC)

Equipment ID No.: DCPDPCB02A

Equipment Class: (14) Distribution Panels

Equipment Description: DC POWER DISTRIBUTION PANEL CB 02 A (MAIN FUSE CAB A)

ATTACHMENT (4)

SUPPLEMENTAL INTERNAL INSPECTIONS OF ELECTRICAL CABINETS

Status: Y ☒ N ☐ U ☐

Seismic Walkdown Checklist (SWC)

Equipment ID No.: INVTCVTA

Equipment Class: (16) Battery Chargers and Inverters

Equipment Description: INVERTER INVTA / CONSTANT VOLTAGE TRANSFORMER CVTA CABINET

Project: Ginna SWEL 1 (Supplemental Internal Inspection of Cabinet)

Location (Bldg, Elev, Room/Area): Control Building, 253.00 ft, Area 01

Manufacturer/Model:

Instructions for Completing Checklist

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

Anchorage

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

   N/A Supplemental inspection of cabinet internals. Anchorage is external to the cabinet and was inspected under previous Seismic Walkdown Report

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

   N/A Supplemental inspection of cabinet internals.

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

   N/A Supplemental inspection of cabinet internals.

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

   N/A Supplemental inspection of cabinet internals.

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 ☐

   N/A Supplemental inspection of cabinet internals.

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

ATTACHMENT (4)

SUPPLEMENTAL INTERNAL INSPECTIONS OF ELECTRICAL CABINETS

Status: Y ☒ N ☐ U ☐

Seismic Walkdown Checklist (SWC)

Equipment ID No.: DCPDPCB02A

Equipment Class: (14) Distribution Panels

Equipment Description: DC POWER DISTRIBUTION PANEL CB 02 A (MAIN FUSE CAB A)

N/A Supplemental inspection of cabinet internals.

Interaction Effects

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

   N/A Supplemental inspection of cabinet internals.

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 ☐

   N/A Supplemental inspection of cabinet internals.

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

   N/A Supplemental inspection of cabinet internals.

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

    N/A Supplemental inspection of cabinet internals.

Other Adverse Conditions

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

    Supplemental internal inspection: Recently replaced, well-routed cabinet, no internal modifications noted. Inspected live, maintenance performed on unit during inspection

Comments

Evaluated by: Jeffrey Sandin Date: 12/10/2012

Jeff Allen 12/10/2012

ATTACHMENT (4)

SUPPLEMENTAL INTERNAL INSPECTIONS OF ELECTRICAL CABINETS

Status: Y ☒ N ☐ U ☐

Seismic Walkdown Checklist (SWC)

Equipment ID No.: DCPDPCB02A

Equipment Class: (14) Distribution Panels

Equipment Description: DC POWER DISTRIBUTION PANEL CB 02 A (MAIN FUSE CAB A)

Photos

ATTACHMENT (4)

SUPPLEMENTAL INTERNAL INSPECTIONS OF ELECTRICAL CABINETS

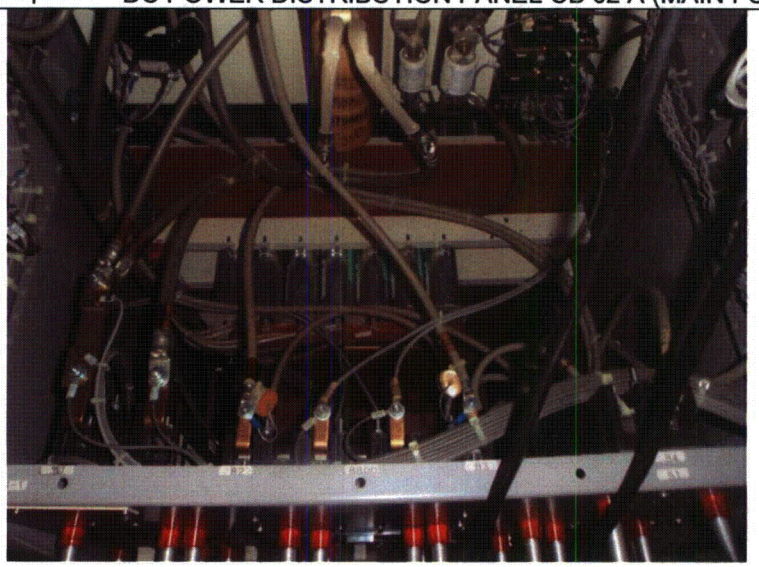
Status: Y ☒ N ☐ U ☐

Seismic Walkdown Checklist (SWC)

Equipment ID No.: DCPDPCB02A

Equipment Class: (14) Distribution Panels

Equipment Description: DC POWER DISTRIBUTION PANEL CB 02 A (MAIN FUSE CAB A)



ATTACHMENT (4)

SUPPLEMENTAL INTERNAL INSPECTIONS OF ELECTRICAL CABINETS

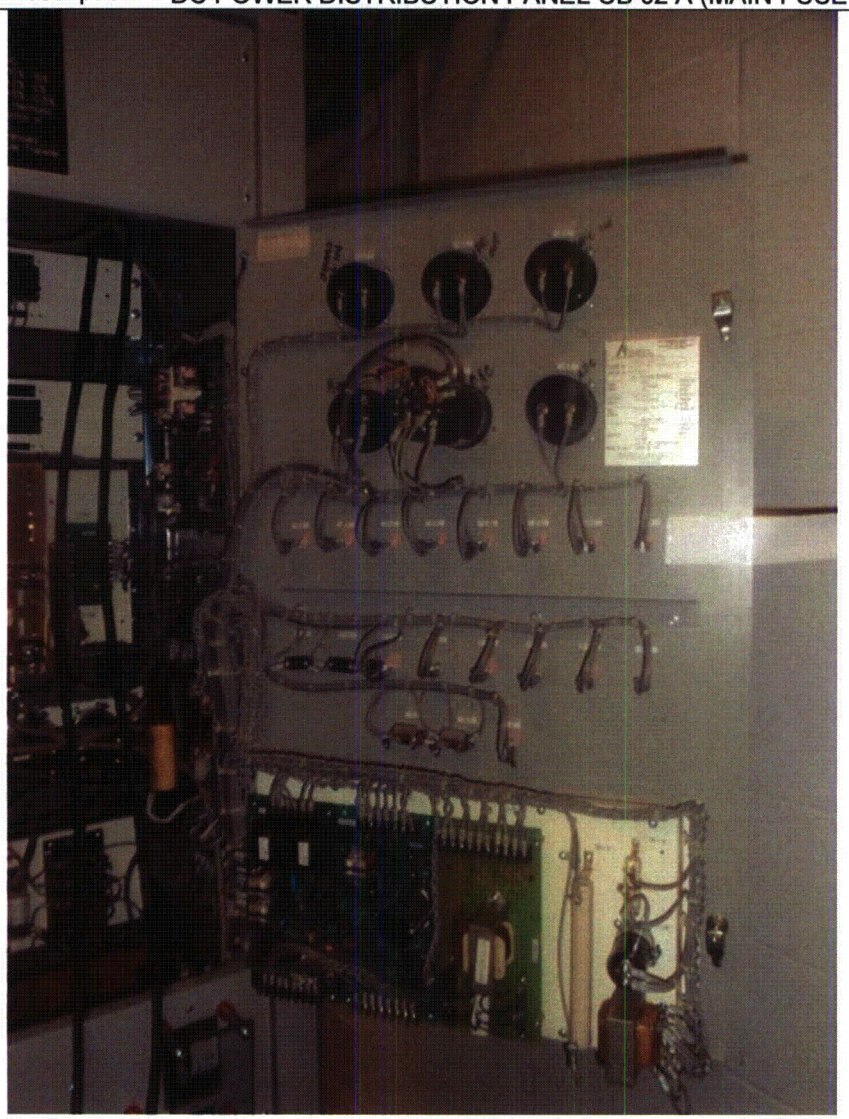
Status: Y ☒ N ☐ U ☐

Seismic Walkdown Checklist (SWC)

Equipment ID No.: DCPDPCB02A

Equipment Class: (14) Distribution Panels

Equipment Description: DC POWER DISTRIBUTION PANEL CB 02 A (MAIN FUSE CAB A)



ATTACHMENT (4)

SUPPLEMENTAL INTERNAL INSPECTIONS OF ELECTRICAL CABINETS

Status: Y ☒ N ☐ U ☐

Seismic Walkdown Checklist (SWC)

Equipment ID No.: MCB

Equipment Class: (20) Instrumentation and Control Panels and Cabinets

Equipment Description: MAIN CONTROL BOARD

Project: Ginna SWEL 1 (Supplemental Internal Inspection of Cabinet)

Location (Bldg, Elev, Room/Area): Control Building, 289.00 ft, Area 04

Manufacturer/Model:

Instructions for Completing Checklist

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

Anchorage

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

   N/A Supplemental inspection of cabinet internals. Anchorage is external to the cabinet and was inspected under previous Seismic Walkdown Report

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

   N/A Supplemental inspection of cabinet internals.

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

   N/A Supplemental inspection of cabinet internals.

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

   N/A Supplemental inspection of cabinet internals.

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 ☐

   N/A Supplemental inspection of cabinet internals.

ATTACHMENT (4)

SUPPLEMENTAL INTERNAL INSPECTIONS OF ELECTRICAL CABINETS

Status: Y ☒ N ☐ U ☐

Seismic Walkdown Checklist (SWC)

Equipment ID No.: MCB

Equipment Class: (20) Instrumentation and Control Panels and Cabinets

Equipment Description: MAIN CONTROL BOARD

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y ☐ N ☐ U ☐
   N/A Supplemental inspection of cabinet internals.

Interaction Effects

7. Are soft targets free from impact by nearby equipment or structures? Y ☐ N ☐ U ☐ N/A ☐
   N/A Supplemental inspection of cabinet internals.

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 ☐
   N/A Supplemental inspection of cabinet internals.

9. Do attached lines have adequate flexibility to avoid damage? Y ☐ N ☐ U ☐ N/A ☐
   N/A Supplemental inspection of cabinet internals.

10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y ☐ N ☐ U ☐
    N/A Supplemental inspection of cabinet internals.

Other Adverse Conditions

11. Have you looked for and found no adverse seismic conditions that could adversely affect the safety functions of the equipment? Y ☒ N ☐ U ☐
    Cantilever strip chart recorders and similar controllers and instruments cantilevered from front and rear faces of the board. Cantilever recorders previously evaluated under SQUG walkdown. No missing hardware noted on these recorders

Comments

Evaluated by: Jeffrey Sandin Date: 12/10/2012

12/10/2012

ATTACHMENT (4)

SUPPLEMENTAL INTERNAL INSPECTIONS OF ELECTRICAL CABINETS

Status: Y ☒ N ☐ U ☐

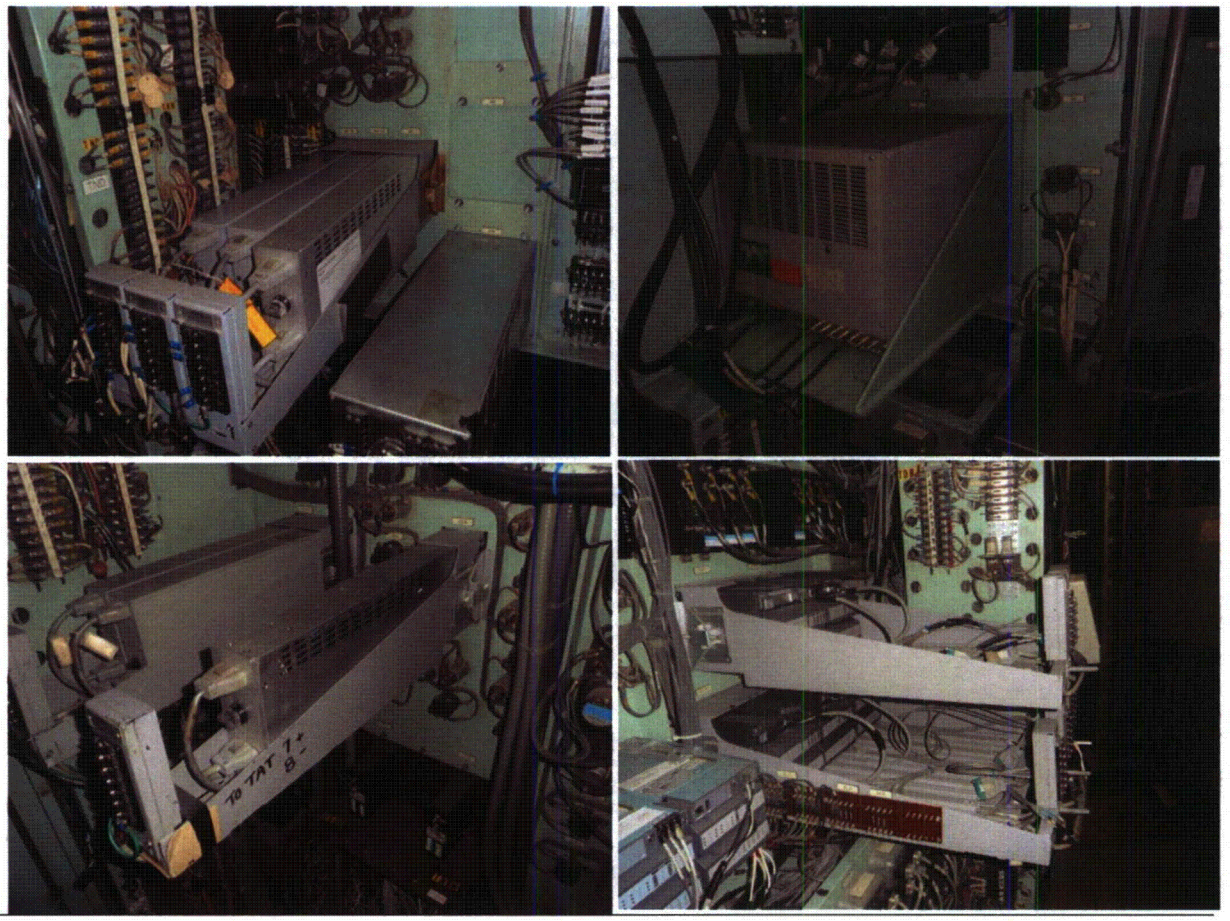
Seismic Walkdown Checklist (SWC)

Equipment ID No.: MCB

Equipment Class: (20) Instrumentation and Control Panels and Cabinets

Equipment Description: MAIN CONTROL BOARD

Photos



ATTACHMENT (4)

SUPPLEMENTAL INTERNAL INSPECTIONS OF ELECTRICAL CABINETS

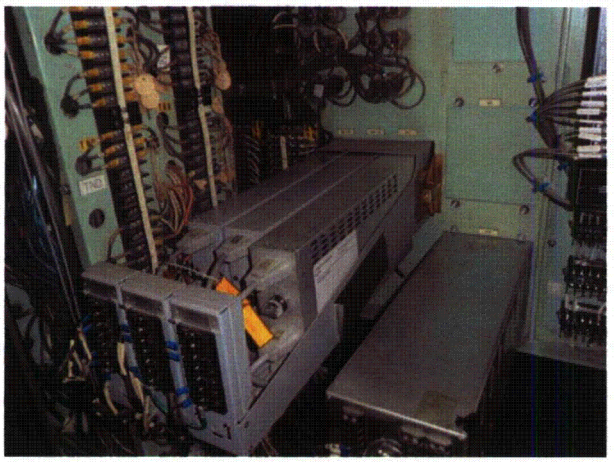
Status: Y ☒ N ☐ U ☐

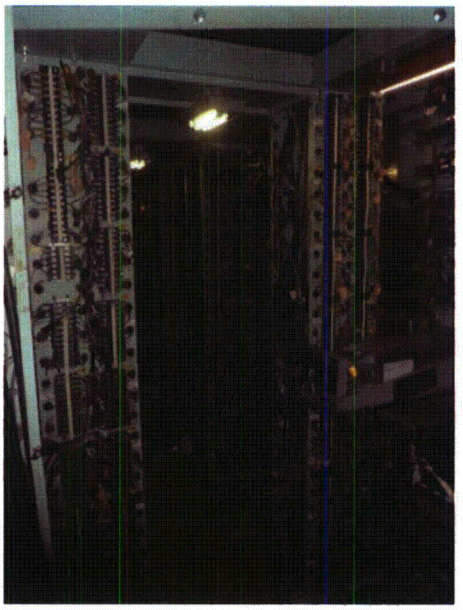
Seismic Walkdown Checklist (SWC)

Equipment ID No.: MCB

Equipment Class: (20) Instrumentation and Control Panels and Cabinets

Equipment Description: MAIN CONTROL BOARD





ATTACHMENT (4)

SUPPLEMENTAL INTERNAL INSPECTIONS OF ELECTRICAL CABINETS

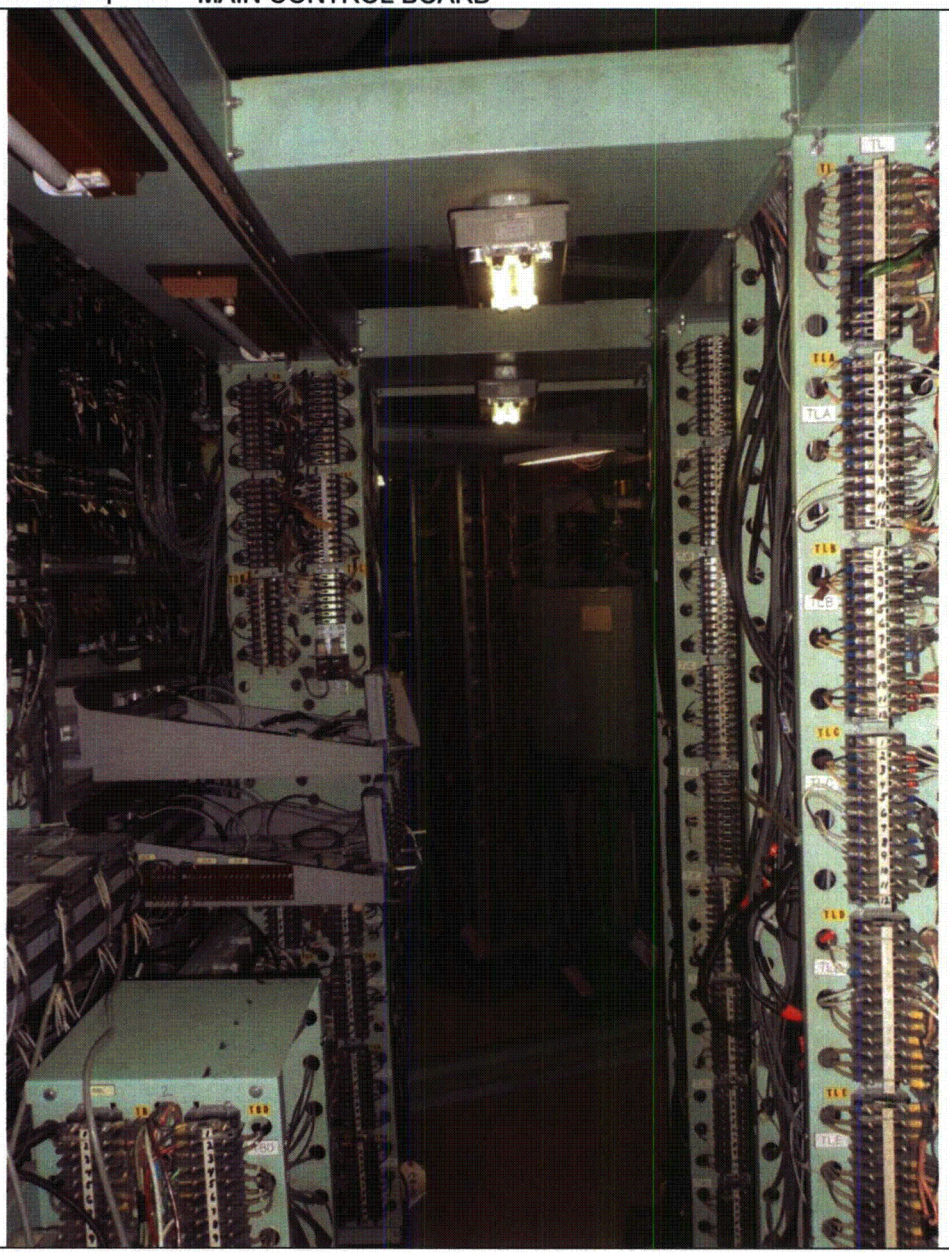
Status: Y ☒ N ☐ U ☐

Seismic Walkdown Checklist (SWC)

Equipment ID No.: MCB

Equipment Class: (20) Instrumentation and Control Panels and Cabinets

Equipment Description: MAIN CONTROL BOARD



ATTACHMENT (4)

SUPPLEMENTAL INTERNAL INSPECTIONS OF ELECTRICAL CABINETS

Status: Y ☐ N ☒ U ☐

Seismic Walkdown Checklist (SWC)

Equipment ID No.: R1

Equipment Class: (20) Instrumentation and Control Panels and Cabinets

Equipment Description: REACTOR PROTECTION INSTRUMENT RACK CHANNEL 1 RED 1

Project: Ginna SWEL 1 (Supplemental Internal Inspection of Cabinet)

Location (Bldg, Elev, Room/Area): Control Building, 289.00 ft, Area 04

Manufacturer/Model:

Instructions for Completing Checklist

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

Anchorage

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

   N/A Supplemental inspection of cabinet internals. Anchorage is external to the cabinet and was inspected under previous Seismic Walkdown Report

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

   N/A Supplemental inspection of cabinet internals.

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

   N/A Supplemental inspection of cabinet internals.

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

   N/A Supplemental inspection of cabinet internals.

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 ☐

   N/A Supplemental inspection of cabinet internals.

ATTACHMENT (4)

SUPPLEMENTAL INTERNAL INSPECTIONS OF ELECTRICAL CABINETS

Status: Y ☐ N ☒ U ☐

Seismic Walkdown Checklist (SWC)

Equipment ID No.: R1

Equipment Class: (20) Instrumentation and Control Panels and Cabinets

Equipment Description: REACTOR PROTECTION INSTRUMENT RACK CHANNEL 1 RED 1

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y ☐ N ☐ U ☐
   N/A Supplemental inspection of cabinet internals.

Interaction Effects

7. Are soft targets free from impact by nearby equipment or structures? Y ☐ N ☐ U ☐ N/A ☐
   N/A Supplemental inspection of cabinet internals.

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 ☐
   N/A Supplemental inspection of cabinet internals.

9. Do attached lines have adequate flexibility to avoid damage? Y ☐ N ☐ U ☐ N/A ☐
   N/A Supplemental inspection of cabinet internals.

10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y ☐ N ☐ U ☐
    N/A Supplemental inspection of cabinet internals.

Other Adverse Conditions

11. Have you looked for and found no adverse seismic conditions that could adversely affect the safety functions of the equipment? Y ☐ N ☒ U ☐
    Supplemental internal inspection: Inspected live during performance of maintenance, controllers on front of rack, terminal deck in rear. Components LQ-426, TT-405A-1, TM-405-0 each missing one of the front screws, CR-2012-008208 written

Comments

Evaluated by: Jeffrey Sandin Date: 12/10/2012

12/10/2012

ATTACHMENT (4)

SUPPLEMENTAL INTERNAL INSPECTIONS OF ELECTRICAL CABINETS

Status: Y ☐ N ☒ U ☐

Seismic Walkdown Checklist (SWC)

Equipment ID No.: R1

Equipment Class: (20) Instrumentation and Control Panels and Cabinets

Equipment Description: REACTOR PROTECTION INSTRUMENT RACK CHANNEL 1 RED 1

Photos

ATTACHMENT (4)

SUPPLEMENTAL INTERNAL INSPECTIONS OF ELECTRICAL CABINETS

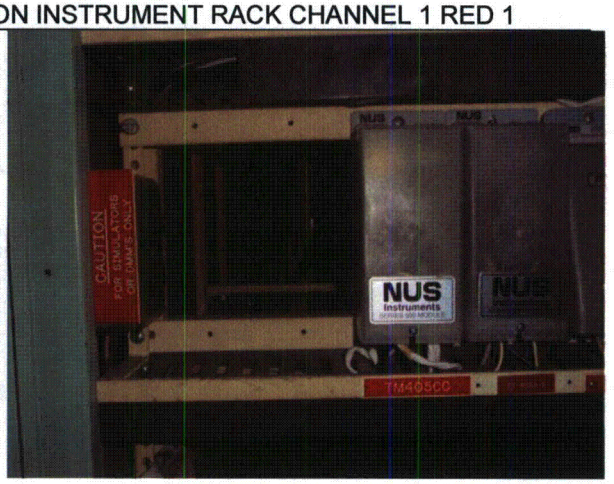
Status: Y ☐ N ☒ U ☐

Seismic Walkdown Checklist (SWC)

Equipment ID No.: R1

Equipment Class: (20) Instrumentation and Control Panels and Cabinets

Equipment Description: REACTOR PROTECTION INSTRUMENT RACK CHANNEL 1 RED 1



ATTACHMENT (4)

SUPPLEMENTAL INTERNAL INSPECTIONS OF ELECTRICAL CABINETS

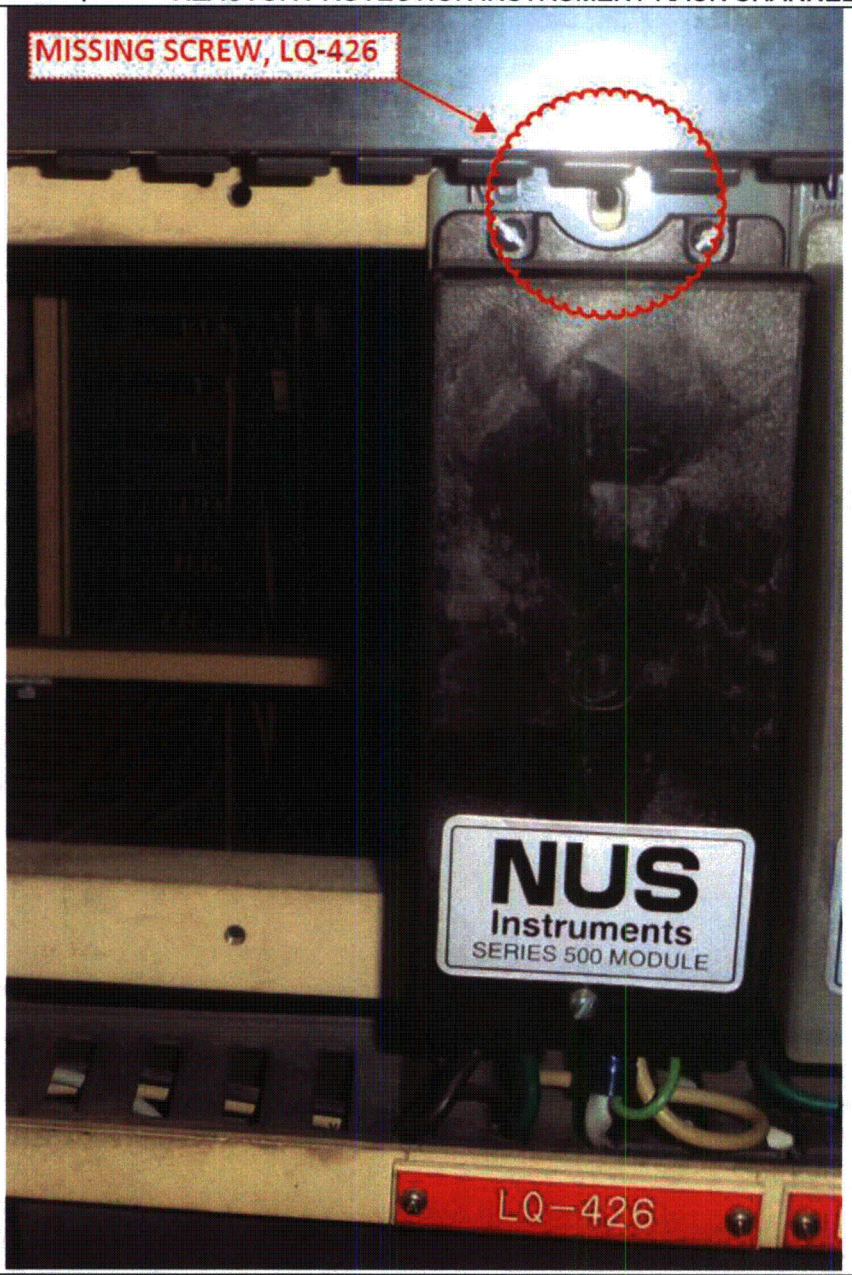
Status: Y ☐ N ☒ U ☐

Seismic Walkdown Checklist (SWC)

Equipment ID No.: R1

Equipment Class: (20) Instrumentation and Control Panels and Cabinets

Equipment Description: REACTOR PROTECTION INSTRUMENT RACK CHANNEL 1 RED 1



ATTACHMENT (4)

SUPPLEMENTAL INTERNAL INSPECTIONS OF ELECTRICAL CABINETS

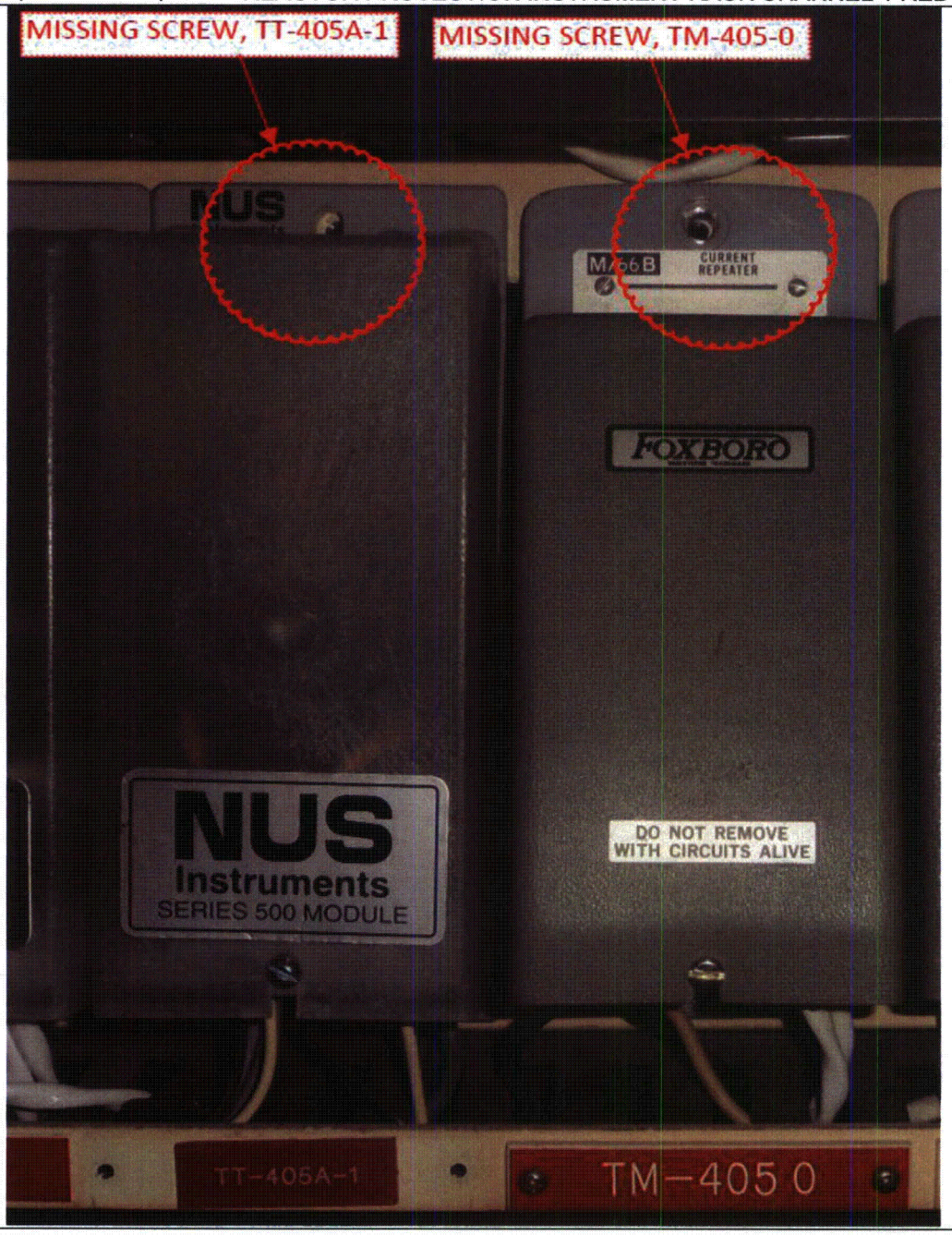
Status: Y ☐ N ☒ U ☐

Seismic Walkdown Checklist (SWC)

Equipment ID No.: R1

Equipment Class: (20) Instrumentation and Control Panels and Cabinets

Equipment Description: REACTOR PROTECTION INSTRUMENT RACK CHANNEL 1 RED 1



ATTACHMENT (4)

SUPPLEMENTAL INTERNAL INSPECTIONS OF ELECTRICAL CABINETS

Status: Y ☐ N ☒ U ☐

Seismic Walkdown Checklist (SWC)

Equipment ID No.: R1

Equipment Class: (20) Instrumentation and Control Panels and Cabinets

Equipment Description: REACTOR PROTECTION INSTRUMENT RACK CHANNEL 1 RED 1

ATTACHMENT (4)

SUPPLEMENTAL INTERNAL INSPECTIONS OF ELECTRICAL CABINETS

Status: Y ☒ N ☐ U ☐

Seismic Walkdown Checklist (SWC)

Equipment ID No.: RA2

Equipment Class: (20) Instrumentation and Control Panels and Cabinets

Equipment Description: AUXILIARY RELAY RACK 2

Project: Ginna SWEL 1 (Supplemental Internal Inspection of Cabinet)

Location (Bldg, Elev, Room/Area): Control Building, 271.00 ft, Area 03

Manufacturer/Model:

Instructions for Completing Checklist

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

Anchorage

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

   N/A Supplemental inspection of cabinet internals. Anchorage is external to the cabinet and was inspected under previous Seismic Walkdown Report

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

   N/A Supplemental inspection of cabinet internals.

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

   N/A Supplemental inspection of cabinet internals.

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

   N/A Supplemental inspection of cabinet internals.

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 ☐

   N/A Supplemental inspection of cabinet internals.

ATTACHMENT (4)

SUPPLEMENTAL INTERNAL INSPECTIONS OF ELECTRICAL CABINETS

Status: Y ☒ N ☐ U ☐

Seismic Walkdown Checklist (SWC)

Equipment ID No.: RA2

Equipment Class: (20) Instrumentation and Control Panels and Cabinets

Equipment Description: AUXILIARY RELAY RACK 2

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y ☐ N ☐ U ☐
   N/A Supplemental inspection of cabinet internals.

Interaction Effects

7. Are soft targets free from impact by nearby equipment or structures? Y ☐ N ☐ U ☐ N/A ☐
   N/A Supplemental inspection of cabinet internals.

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 ☐
   N/A Supplemental inspection of cabinet internals.

9. Do attached lines have adequate flexibility to avoid damage? Y ☐ N ☐ U ☐ N/A ☐
   N/A Supplemental inspection of cabinet internals.

10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y ☐ N ☐ U ☐
    N/A Supplemental inspection of cabinet internals.

Other Adverse Conditions

11. Have you looked for and found no adverse seismic conditions that could adversely affect the safety functions of the equipment? Y ☒ N ☐ U ☐
    Supplemental internal inspection: Inspected live, no adverse conditions noted.

Comments

Evaluated by: Jeffrey Sandin Date: 12/10/2012

Jeffrey Sandin 12/10/2012

ATTACHMENT (4)

SUPPLEMENTAL INTERNAL INSPECTIONS OF ELECTRICAL CABINETS

Status: Y ☒ N ☐ U ☐

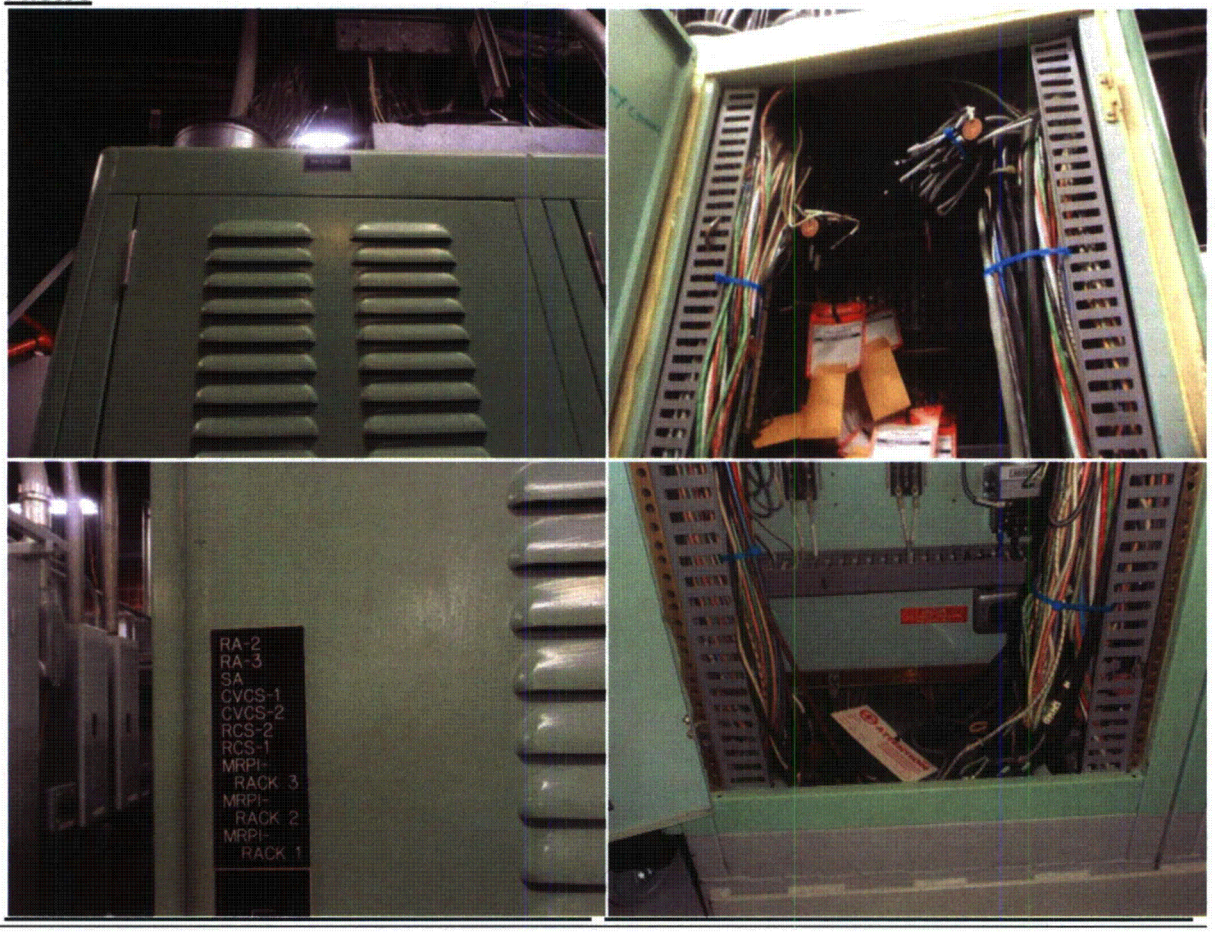
Seismic Walkdown Checklist (SWC)

Equipment ID No.: RA2

Equipment Class: (20) Instrumentation and Control Panels and Cabinets

Equipment Description: AUXILIARY RELAY RACK 2

Photos



ATTACHMENT (4)

SUPPLEMENTAL INTERNAL INSPECTIONS OF ELECTRICAL CABINETS

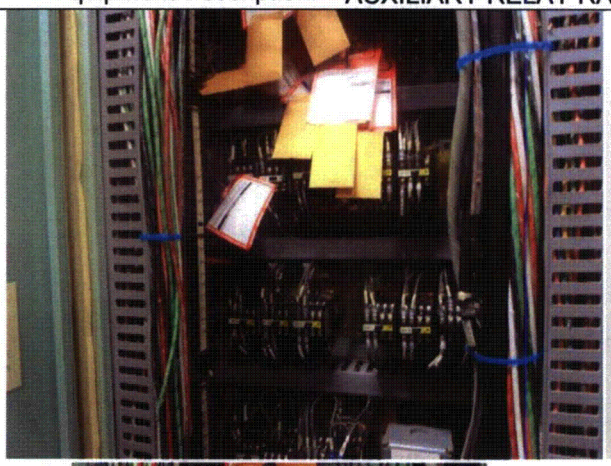
Status: Y ☒ N ☐ U ☐

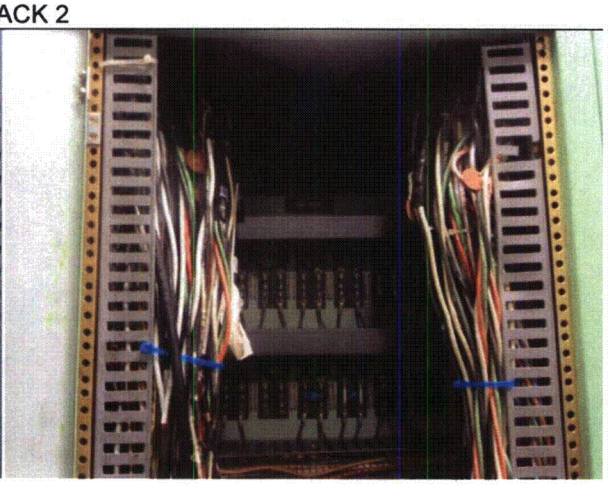
Seismic Walkdown Checklist (SWC)

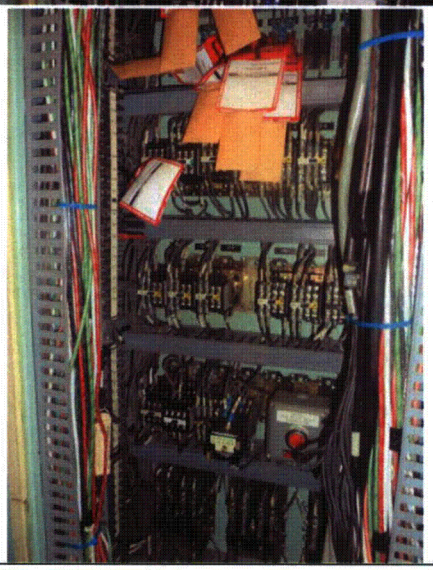
Equipment ID No.: RA2

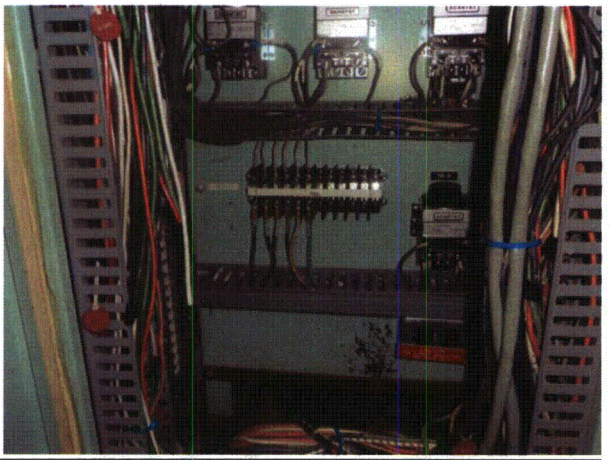
Equipment Class: (20) Instrumentation and Control Panels and Cabinets

Equipment Description: AUXILIARY RELAY RACK 2









ATTACHMENT (4)

SUPPLEMENTAL INTERNAL INSPECTIONS OF ELECTRICAL CABINETS

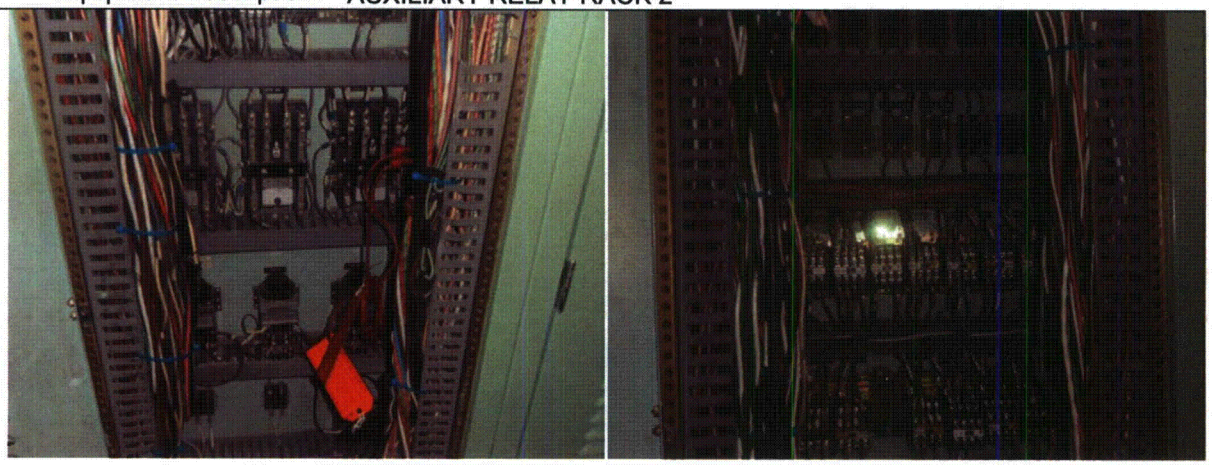
Status: Y ☒ N ☐ U ☐

Seismic Walkdown Checklist (SWC)

Equipment ID No.: RA2

Equipment Class: (20) Instrumentation and Control Panels and Cabinets

Equipment Description: AUXILIARY RELAY RACK 2



ATTACHMENT (4)

SUPPLEMENTAL INTERNAL INSPECTIONS OF ELECTRICAL CABINETS

Status: Y ☐ N ☒ U ☐

Seismic Walkdown Checklist (SWC)

Equipment ID No.: SA

Equipment Class: (20) Instrumentation and Control Panels and Cabinets

Equipment Description: AUXILIARY RELAY RACK 2

Project: Ginna SWEL 1 (Supplemental Internal Inspection of Cabinet)

Location (Bldg, Elev, Room/Area): Control Building, 271.00 ft, Area 03

Manufacturer/Model:

Instructions for Completing Checklist

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

Anchorage

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

   N/A Supplemental inspection of cabinet internals. Anchorage is external to the cabinet and was inspected under previous Seismic Walkdown Report

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

   N/A Supplemental inspection of cabinet internals.

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

   N/A Supplemental inspection of cabinet internals.

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

   N/A Supplemental inspection of cabinet internals.

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 ☐

   N/A Supplemental inspection of cabinet internals.

ATTACHMENT (4)

SUPPLEMENTAL INTERNAL INSPECTIONS OF ELECTRICAL CABINETS

Status: Y ☐ N ☒ U ☐

Seismic Walkdown Checklist (SWC)

Equipment ID No.: SA

Equipment Class: (20) Instrumentation and Control Panels and Cabinets

Equipment Description: AUXILIARY RELAY RACK 2

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y ☐ N ☐ U ☐
   N/A Supplemental inspection of cabinet internals.

Interaction Effects

7. Are soft targets free from impact by nearby equipment or structures? Y ☐ N ☐ U ☐ N/A ☐
   N/A Supplemental inspection of cabinet internals.

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 ☐
   N/A Supplemental inspection of cabinet internals.

9. Do attached lines have adequate flexibility to avoid damage? Y ☐ N ☐ U ☐ N/A ☐
   N/A Supplemental inspection of cabinet internals.

10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y ☐ N ☐ U ☐
    N/A Supplemental inspection of cabinet internals.

Other Adverse Conditions

11. Have you looked for and found no adverse seismic conditions that could adversely affect the safety functions of the equipment? Y ☐ N ☒ U ☐
    Supplemental internal inspection: Inspected live, one of two screws missing from module TM-630. CR-2012-008208 initiated

Comments

Evaluated by: Jeffrey Sandin Date: 12/10/2012

12/10/2012

ATTACHMENT (4)

SUPPLEMENTAL INTERNAL INSPECTIONS OF ELECTRICAL CABINETS

Status: Y ☐ N ☒ U ☐

Seismic Walkdown Checklist (SWC)

Equipment ID No.: SA

Equipment Class: (20) Instrumentation and Control Panels and Cabinets

Equipment Description: AUXILIARY RELAY RACK 2

Photos

ATTACHMENT (4)

SUPPLEMENTAL INTERNAL INSPECTIONS OF ELECTRICAL CABINETS

Status: Y ☐ N ☒ U ☐

Seismic Walkdown Checklist (SWC)

Equipment ID No.: SA

Equipment Class: (20) Instrumentation and Control Panels and Cabinets

Equipment Description: AUXILIARY RELAY RACK 2

ATTACHMENT (4)

SUPPLEMENTAL INTERNAL INSPECTIONS OF ELECTRICAL CABINETS

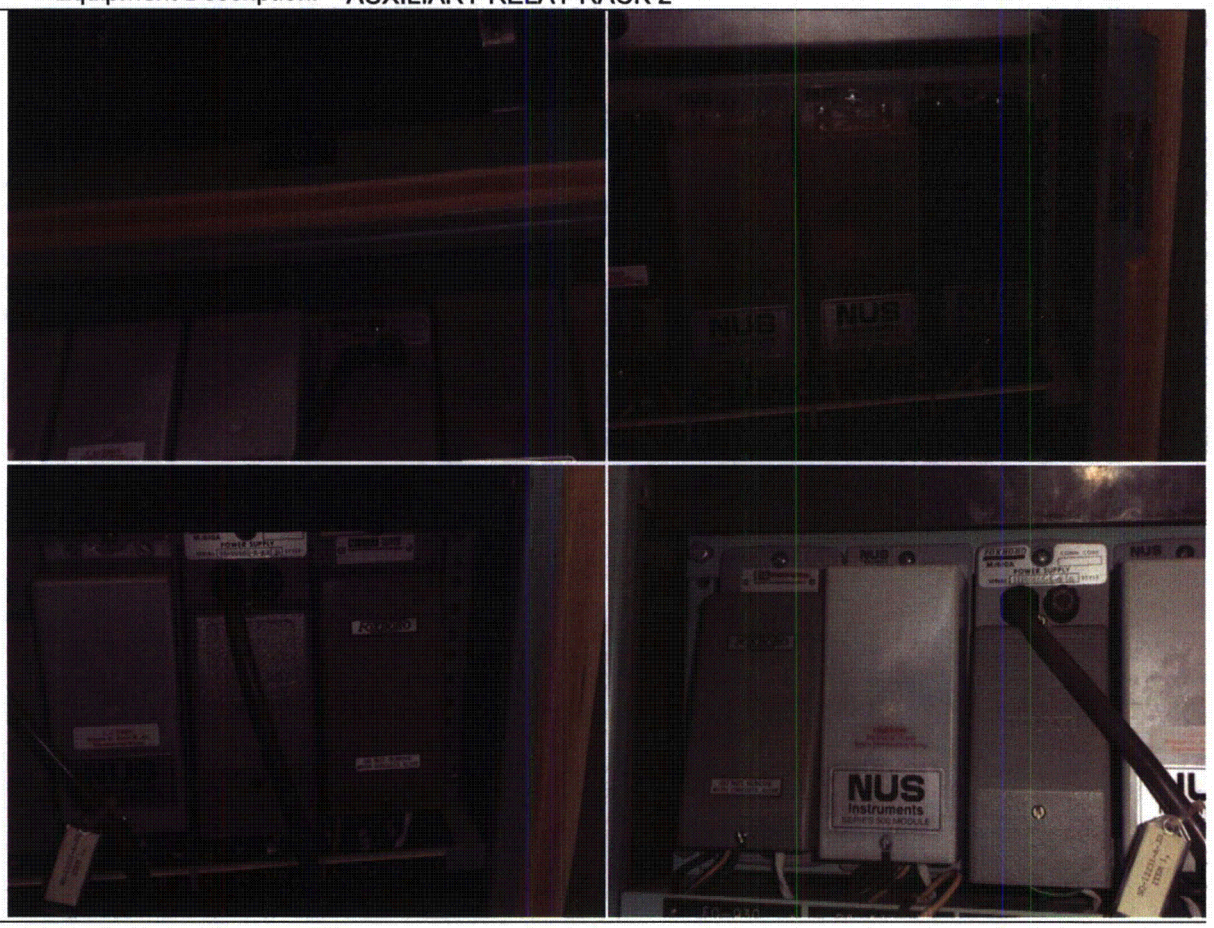
Status: Y ☐ N ☒ U ☐

Seismic Walkdown Checklist (SWC)

Equipment ID No.: SA

Equipment Class: (20) Instrumentation and Control Panels and Cabinets

Equipment Description: AUXILIARY RELAY RACK 2



ATTACHMENT (4)

SUPPLEMENTAL INTERNAL INSPECTIONS OF ELECTRICAL CABINETS

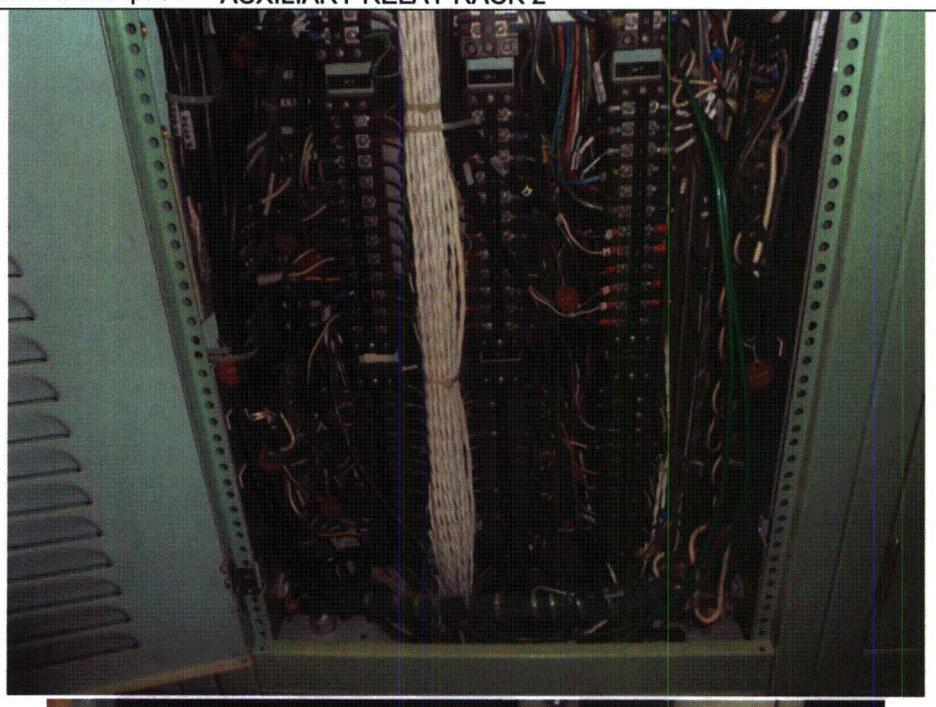
Status: Y ☐ N ☒ U ☐

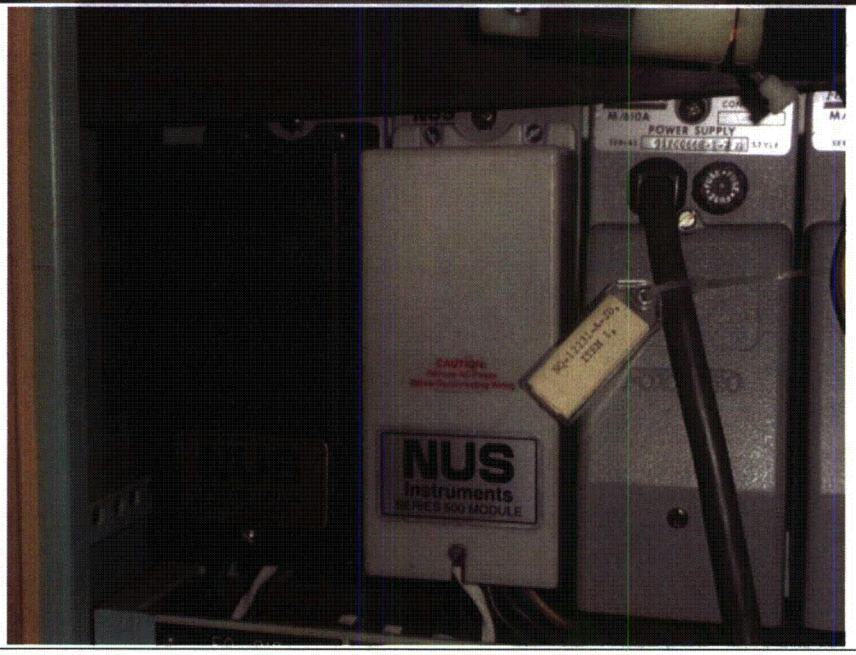
Seismic Walkdown Checklist (SWC)

Equipment ID No.: SA

Equipment Class: (20) Instrumentation and Control Panels and Cabinets

Equipment Description: AUXILIARY RELAY RACK 2





ATTACHMENT (4)

SUPPLEMENTAL INTERNAL INSPECTIONS OF ELECTRICAL CABINETS

Status: Y ☐ N ☒ U ☐

Seismic Walkdown Checklist (SWC)

Equipment ID No.: SA

Equipment Class: (20) Instrumentation and Control Panels and Cabinets

Equipment Description: AUXILIARY RELAY RACK 2

ATTACHMENT (4)

SUPPLEMENTAL INTERNAL INSPECTIONS OF ELECTRICAL CABINETS

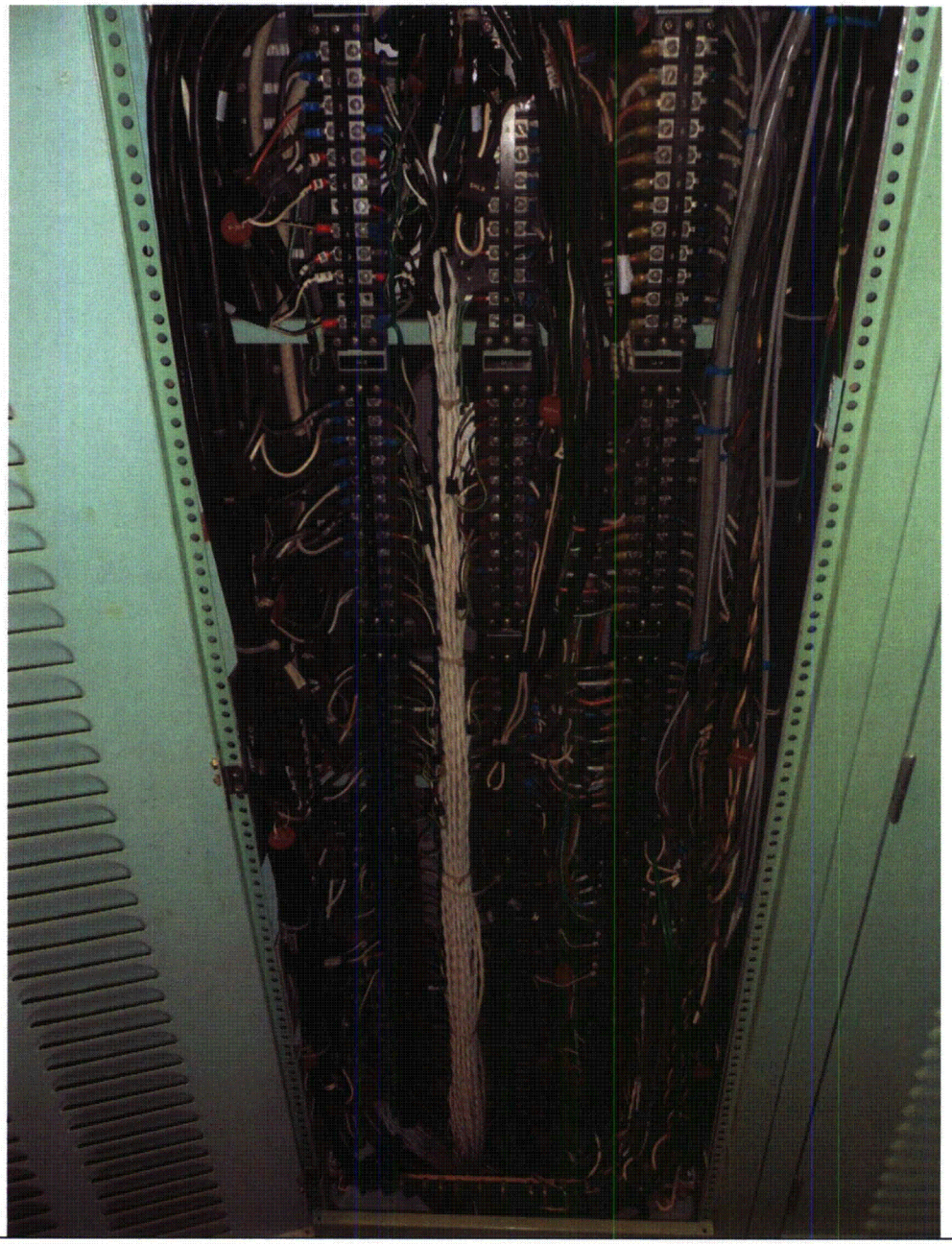
Status: Y ☐ N ☒ U ☐

Seismic Walkdown Checklist (SWC)

Equipment ID No.: SA

Equipment Class: (20) Instrumentation and Control Panels and Cabinets

Equipment Description: AUXILIARY RELAY RACK 2



ATTACHMENT (4)

SUPPLEMENTAL INTERNAL INSPECTIONS OF ELECTRICAL CABINETS

Status: Y ☒ N ☐ U ☐

Seismic Walkdown Checklist (SWC)

Equipment ID No.: SAFWPCIP

Equipment Class: (20) Instrumentation and Control Panels and Cabinets

Equipment Description: Standby Auxiliary Feedwater Pump C Instrument Panel

Project: Ginna SWEL 1 (Supplemental Internal Inspection of Cabinet)

Location (Bldg, Elev, Room/Area): Auxiliary Feedwater, 271.00 ft, Area 14

Manufacturer/Model:

Instructions for Completing Checklist

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

Anchorage

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

   N/A Supplemental inspection of cabinet internals. Anchorage is external to the cabinet and was inspected under previous Seismic Walkdown Report

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

   N/A Supplemental inspection of cabinet internals.

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

   N/A Supplemental inspection of cabinet internals.

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

   N/A Supplemental inspection of cabinet internals.

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 ☐

ATTACHMENT (4)

SUPPLEMENTAL INTERNAL INSPECTIONS OF ELECTRICAL CABINETS

Status: Y ☒ N ☐ U ☐

Seismic Walkdown Checklist (SWC)

Equipment ID No.: SAFWPCIP

Equipment Class: (20) Instrumentation and Control Panels and Cabinets

Equipment Description: Standby Auxiliary Feedwater Pump C Instrument Panel

N/A Supplemental inspection of cabinet internals.

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y ☐ N ☐ U ☐
   N/A Supplemental inspection of cabinet internals.

Interaction Effects

7. Are soft targets free from impact by nearby equipment or structures? Y ☐ N ☐ U ☐ N/A ☐
   N/A Supplemental inspection of cabinet internals.

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 ☐
   N/A Supplemental inspection of cabinet internals.

9. Do attached lines have adequate flexibility to avoid damage? Y ☐ N ☐ U ☐ N/A ☐
   N/A Supplemental inspection of cabinet internals.

10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y ☐ N ☐ U ☐
    N/A Supplemental inspection of cabinet internals.

Other Adverse Conditions

11. Have you looked for and found no adverse seismic conditions that could adversely affect the safety functions of the equipment? Y ☒ N ☐ U ☐
    Relatively empty cabinet, no components mounted to door, no modifications to cabinet noted. All components mounted to unistrut structural frame inside cabinet.

Comments

Evaluated by: Jeffrey Sandin Date: 12/10/2012

ATTACHMENT (4)

SUPPLEMENTAL INTERNAL INSPECTIONS OF ELECTRICAL CABINETS

Status: Y ☒ N ☐ U ☐

Seismic Walkdown Checklist (SWC)

Equipment ID No.: SAFWPCIP

Equipment Class: (20) Instrumentation and Control Panels and Cabinets

Equipment Description: Standby Auxiliary Feedwater Pump C Instrument Panel

12/10/2012

Photos

ATTACHMENT (4)

SUPPLEMENTAL INTERNAL INSPECTIONS OF ELECTRICAL CABINETS

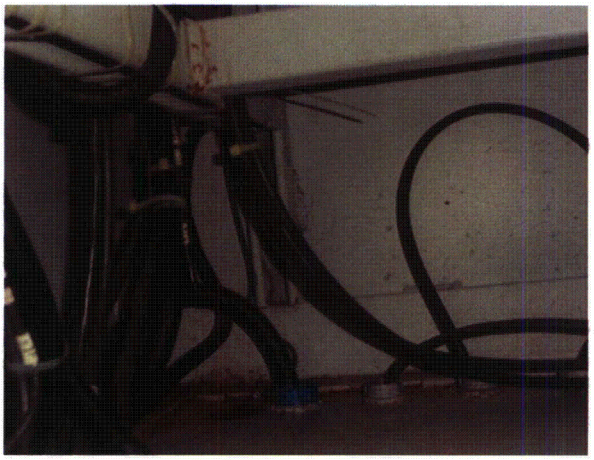
Status: Y ☒ N ☐ U ☐

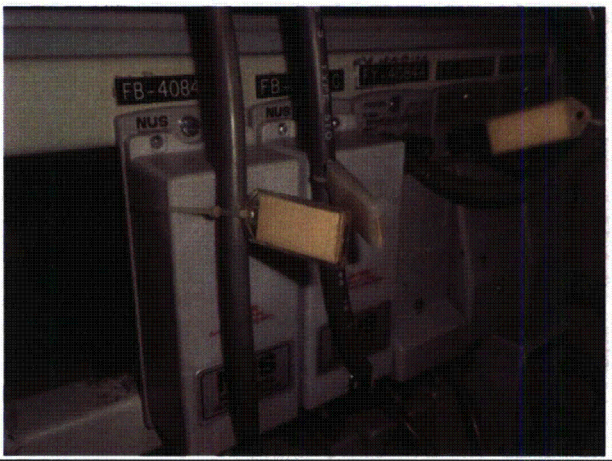
Seismic Walkdown Checklist (SWC)

Equipment ID No.: SAFWPCIP

Equipment Class: (20) Instrumentation and Control Panels and Cabinets

Equipment Description: Standby Auxiliary Feedwater Pump C Instrument Panel





ATTACHMENT (4)

SUPPLEMENTAL INTERNAL INSPECTIONS OF ELECTRICAL CABINETS

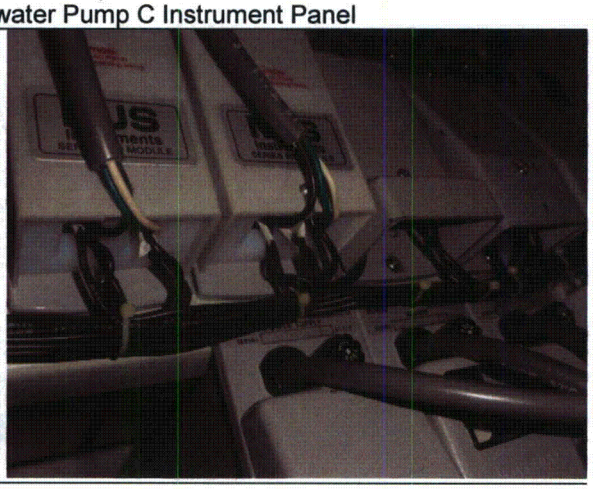
Status: Y ☒ N ☐ U ☐

Seismic Walkdown Checklist (SWC)

Equipment ID No.: SAFWPCIP

Equipment Class: (20) Instrumentation and Control Panels and Cabinets

Equipment Description: Standby Auxiliary Feedwater Pump C Instrument Panel



ATTACHMENT (4)

SUPPLEMENTAL INTERNAL INSPECTIONS OF ELECTRICAL CABINETS

Status: Y ☒ N ☐ U ☐

Seismic Walkdown Checklist (SWC)

Equipment ID No.: SIA1

Equipment Class: (20) Instrumentation and Control Panels and Cabinets

Equipment Description: SAFEGUARDS INITIATION RACK A1

Project: Ginna SWEL 1

Location (Bldg, Elev, Room/Area): Control Building, 271.00 ft, Area 03

Manufacturer/Model:

Instructions for Completing Checklist

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

Anchorage

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

   N/A Supplemental inspection of cabinet internals. Anchorage is external to the cabinet and was inspected under previous Seismic Walkdown Report

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

   N/A Supplemental inspection of cabinet internals.

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

   N/A Supplemental inspection of cabinet internals.

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

   N/A Supplemental inspection of cabinet internals.

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 ☐

   N/A Supplemental inspection of cabinet internals.

ATTACHMENT (4)

SUPPLEMENTAL INTERNAL INSPECTIONS OF ELECTRICAL CABINETS

Status: Y ☒ N ☐ U ☐

Seismic Walkdown Checklist (SWC)

Equipment ID No.: SIA1

Equipment Class: (20) Instrumentation and Control Panels and Cabinets

Equipment Description: SAFEGUARDS INITIATION RACK A1

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y ☐ N ☐ U ☐
   N/A Supplemental inspection of cabinet internals.

Interaction Effects

7. Are soft targets free from impact by nearby equipment or structures? Y ☐ N ☐ U ☐ N/A ☐
   N/A Supplemental inspection of cabinet internals.

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 ☐
   N/A Supplemental inspection of cabinet internals.

9. Do attached lines have adequate flexibility to avoid damage? Y ☐ N ☐ U ☐ N/A ☐
   N/A Supplemental inspection of cabinet internals.

10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y ☐ N ☐ U ☐
    N/A Supplemental inspection of cabinet internals.

Other Adverse Conditions

11. Have you looked for and found no adverse seismic conditions that could adversely affect the safety functions of the equipment? Y ☒ N ☐ U ☐
    Supplemental internal inspection: Inspected live, front door is lightly loaded with original equipment

Comments

Evaluated by: Jeffrey Sandin Date: 12/10/2012

12/10/2012

ATTACHMENT (4)

SUPPLEMENTAL INTERNAL INSPECTIONS OF ELECTRICAL CABINETS

Status: Y ☒ N ☐ U ☐

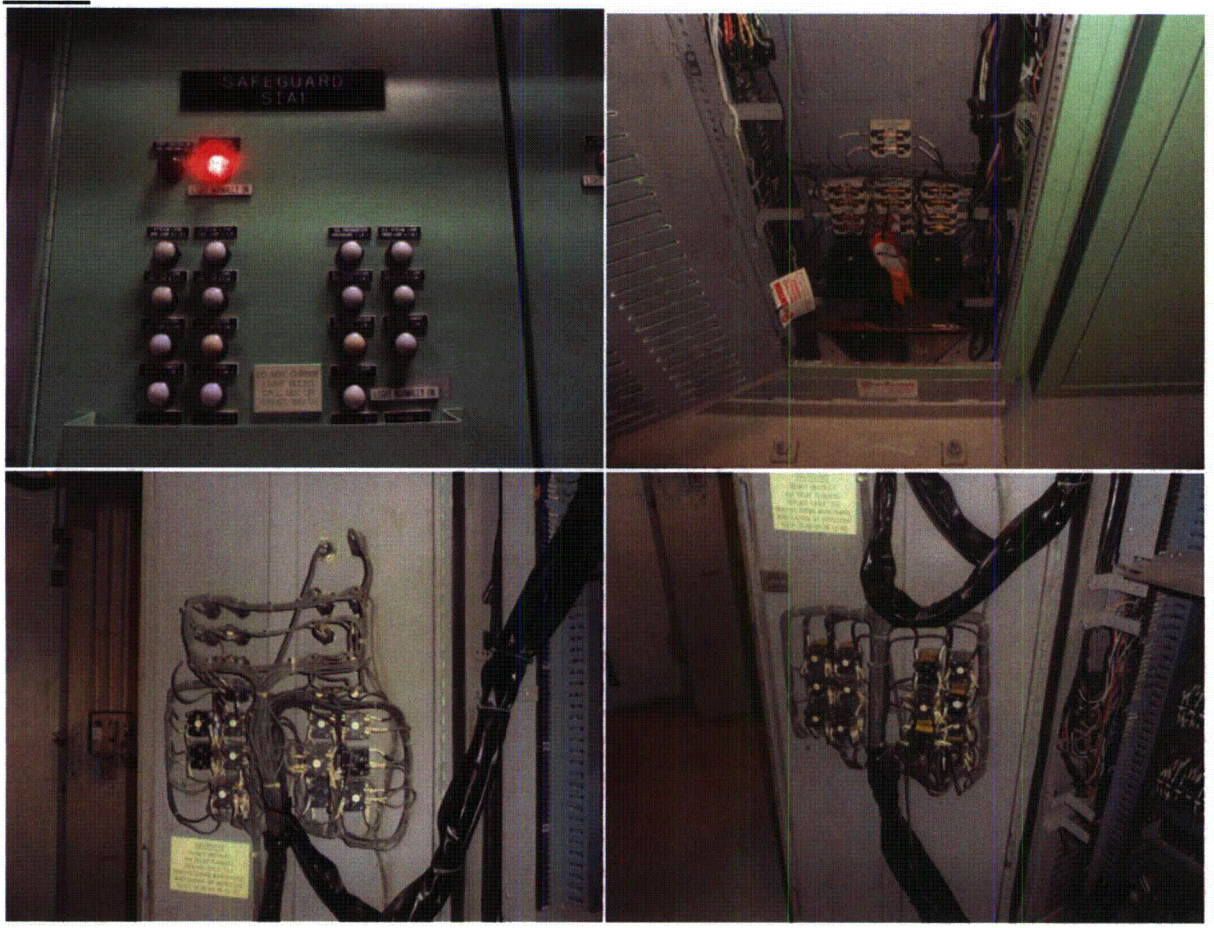
Seismic Walkdown Checklist (SWC)

Equipment ID No.: SIA1

Equipment Class: (20) Instrumentation and Control Panels and Cabinets

Equipment Description: SAFEGUARDS INITIATION RACK A1

Photos



ATTACHMENT (4)

SUPPLEMENTAL INTERNAL INSPECTIONS OF ELECTRICAL CABINETS

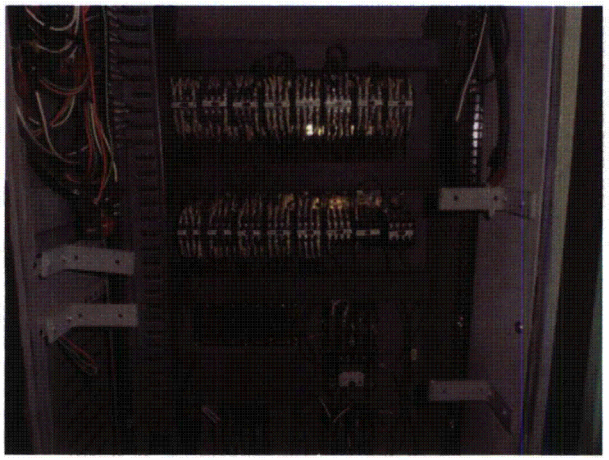
Status: Y ☒ N ☐ U ☐

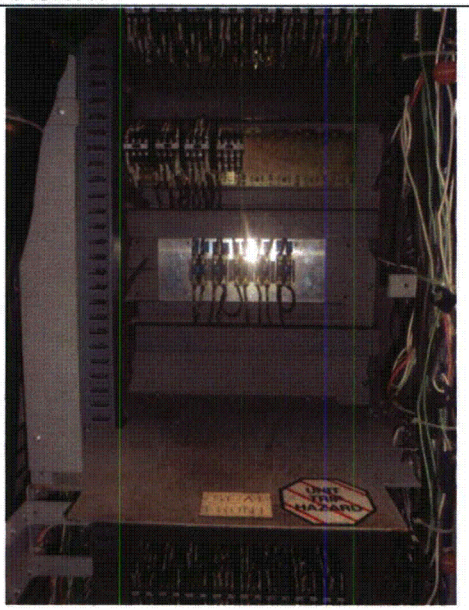
Seismic Walkdown Checklist (SWC)

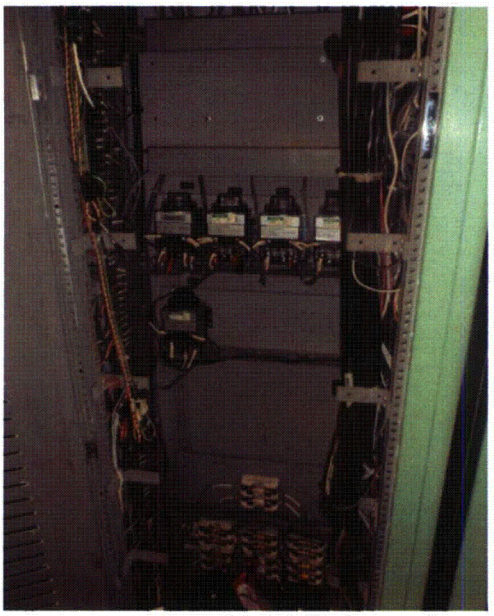
Equipment ID No.: SIA1

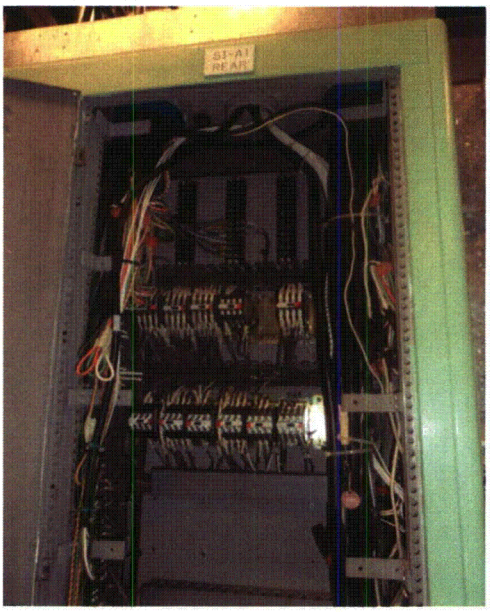
Equipment Class: (20) Instrumentation and Control Panels and Cabinets

Equipment Description: SAFEGUARDS INITIATION RACK A1









ATTACHMENT (4)

SUPPLEMENTAL INTERNAL INSPECTIONS OF ELECTRICAL CABINETS

Status: Y ☐ N ☒ U ☐

Seismic Walkdown Checklist (SWC)

Equipment ID No.: Y1

Equipment Class: (20) Instrumentation and Control Panels and Cabinets

Equipment Description: REACTOR PROTECTION INSTRUMENT RACK CHANNEL 4 YELLOW 1

Project: Ginna SWEL 1 (Supplemental Internal Inspection of Cabinet)

Location (Bldg, Elev, Room/Area): Control Building, 289.00 ft, Area 04

Manufacturer/Model:

Instructions for Completing Checklist

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

Anchorage

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

   N/A Supplemental inspection of cabinet internals. Anchorage is external to the cabinet and was inspected under previous Seismic Walkdown Report.

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

   N/A Supplemental inspection of cabinet internals.

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

   N/A Supplemental inspection of cabinet internals.

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

   N/A Supplemental inspection of cabinet internals.

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 ☐

   N/A Supplemental inspection of cabinet internals.

ATTACHMENT (4)

SUPPLEMENTAL INTERNAL INSPECTIONS OF ELECTRICAL CABINETS

Status: Y ☒ N ☐ U ☐

Seismic Walkdown Checklist (SWC)

Equipment ID No.: SIA1

Equipment Class: (20) Instrumentation and Control Panels and Cabinets

Equipment Description: SAFEGUARDS INITIATION RACK A1

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y ☐ N ☐ U ☐
   N/A Supplemental inspection of cabinet internals.

Interaction Effects

7. Are soft targets free from impact by nearby equipment or structures? Y ☐ N ☐ U ☐ N/A ☐
   N/A Supplemental inspection of cabinet internals.

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 ☐
   N/A Supplemental inspection of cabinet internals.

9. Do attached lines have adequate flexibility to avoid damage? Y ☐ N ☐ U ☐ N/A ☐
   N/A Supplemental inspection of cabinet internals.

10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y ☐ N ☐ U ☐
    N/A Supplemental inspection of cabinet internals.

Other Adverse Conditions

11. Have you looked for and found no adverse seismic conditions that could adversely affect the safety functions of the equipment? Y ☐ N ☒ U ☐
    Supplemental internal inspection: Inspected live during performance of maintenance, controllers on front of rack, terminal deck in rear. Missing screw on terminal deck, CR-2012-008137 written

Comments

Evaluated by: Jeffrey Sandin Date: 12/10/2012

12/10/2012

ATTACHMENT (4)

SUPPLEMENTAL INTERNAL INSPECTIONS OF ELECTRICAL CABINETS

Status: Y ☒ N ☐ U ☐

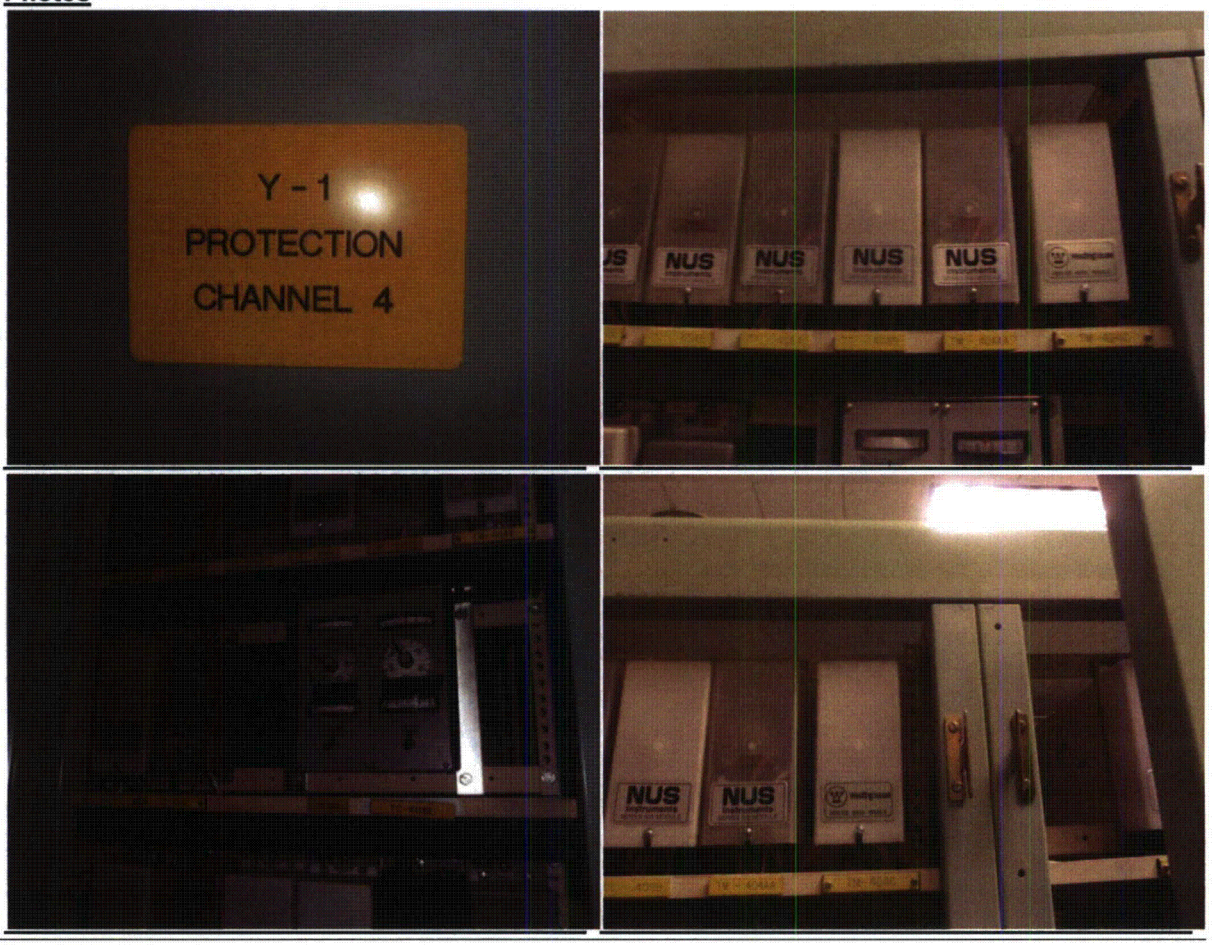
Seismic Walkdown Checklist (SWC)

Equipment ID No.: SIA1

Equipment Class: (20) Instrumentation and Control Panels and Cabinets

Equipment Description: SAFEGUARDS INITIATION RACK A1

Photos



ATTACHMENT (4)

SUPPLEMENTAL INTERNAL INSPECTIONS OF ELECTRICAL CABINETS

Status: Y ☒ N ☐ U ☐

Seismic Walkdown Checklist (SWC)

Equipment ID No.: SIA1

Equipment Class: (20) Instrumentation and Control Panels and Cabinets

Equipment Description: SAFEGUARDS INITIATION RACK A1

ATTACHMENT (4)

SUPPLEMENTAL INTERNAL INSPECTIONS OF ELECTRICAL CABINETS

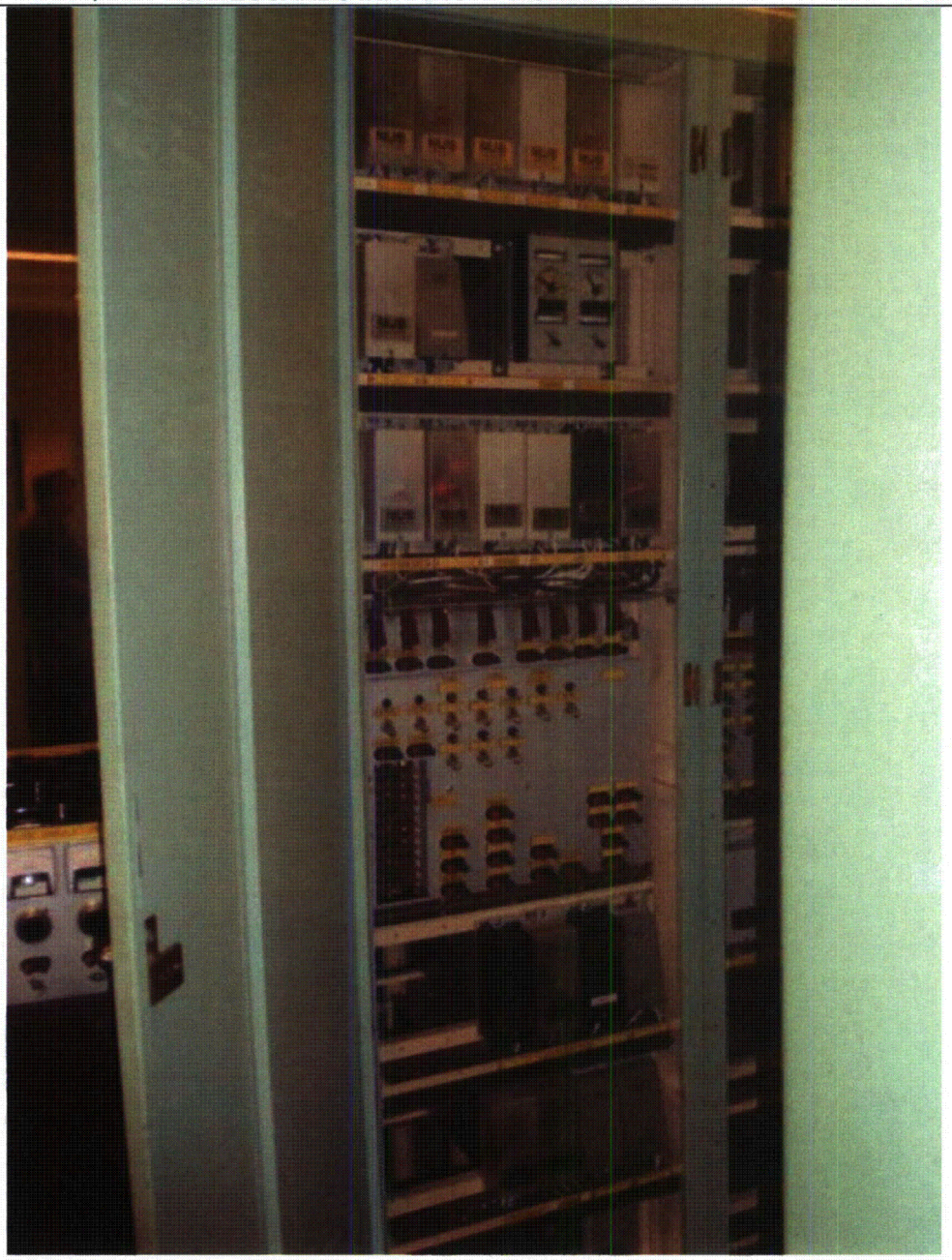
Status: Y ☒ N ☐ U ☐

Seismic Walkdown Checklist (SWC)

Equipment ID No.: SIA1

Equipment Class: (20) Instrumentation and Control Panels and Cabinets

Equipment Description: SAFEGUARDS INITIATION RACK A1



ATTACHMENT (4)

SUPPLEMENTAL INTERNAL INSPECTIONS OF ELECTRICAL CABINETS

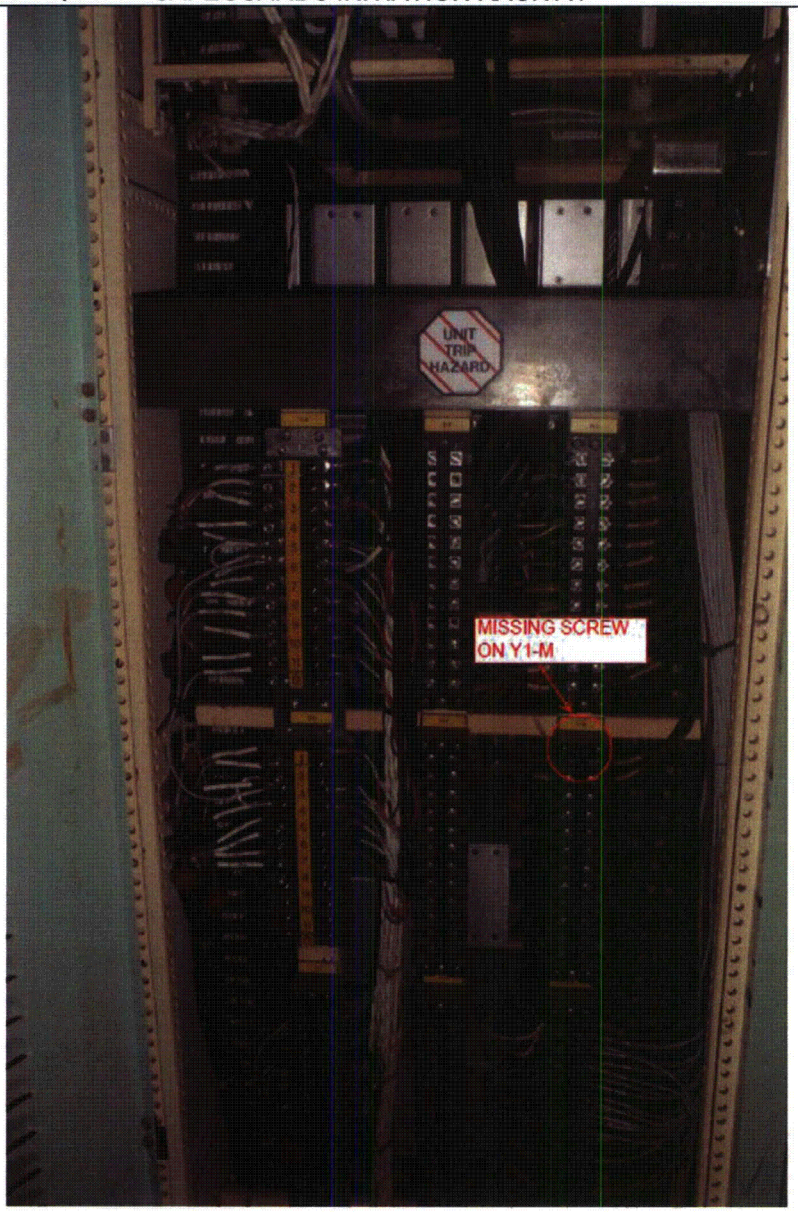
Status: Y ☒ N ☐ U ☐

Seismic Walkdown Checklist (SWC)

Equipment ID No.: SIA1

Equipment Class: (20) Instrumentation and Control Panels and Cabinets

Equipment Description: SAFEGUARDS INITIATION RACK A1



April 2, 1999

U. S. Nuclear Regulatory Commission
Washington, DC 20555

ATTENTION: Document Control Desk

SUBJECT: Calvert Cliffs Nuclear Power Plant
Unit Nos. 1 & 2; Docket Nos. 50-317 & 50-318
First Annual Amendment to Application for License Renewal

REFERENCE: (a) Letter from Mr. C. H. Cruse (BGE) to NRC Document Control Desk, dated April 8, 1998, "Application for License Renewal"

Reference (a) forwarded Baltimore Gas and Electric Company's (BGE's) application for the renewal of the operating license for Calvert Cliffs Nuclear Power Plant Units 1 and 2. Included herein, Attachment (1) provides the first annual amendment to the BGE License Renewal Application (LRA), as required by 10 CFR Part 54.

Attachment (1) covers BGE LRA Attachment (1) Appendix A Chapters 2.1 through 6.4 and Appendix B, Updated Final Safety Analysis Report Supplement, as required by 10 CFR 54.21, "Contents of application - technical information," subpart (b). Attachment (1) also contains changes to the BGE LRA stemming from recent interactions with Nuclear Regulatory Commission staff and is arranged by Chapter, with the Chapter numbers corresponding to the BGE LRA. Attachment (1) items are categorized as either: (1) Request for additional information clarification; (2) plant modifications; (3) Integrated Plant Assessment changes; or (4) errata. In some cases, there were no changes required for a Chapter of the BGE LRA.

- Page 5.6-16, remove the second and third sentences in the second paragraph (Discovery) under Group 2 - Methods to Manage Aging;
- Page 5.6-17, delete the paragraph at the bottom of the page that continues at the top of the next page;
- Page 5.6-18, delete this page entirely;
- Page 5.6-19, delete the first paragraph;
- Page 5.6-20, delete the third bullet item;
- Page 5.6-21, delete the fifth row item for CCNPP M-571G-1(2) in Table 5.6-3.

Chapter 5.7 - Diesel Fuel Oil System

No changes to this Chapter of the BGE LRA are required for the annual amendment.

Chapter 5.8 - Emergency Diesel Generator System

No changes to this Chapter of the BGE LRA are required for the annual amendment.

Chapter 5.9 - Feedwater System

No changes to this Chapter of the BGE LRA are required for the annual amendment.

Chapter 5.10 - Fire Protection System

Errata

- Page 5.10-1, replace the second sentence under 5.10.1 - Scoping, to state the following:

  "All components required for FP in 26 of these systems are included within their respective SR system or structural AMR or in a commodity evaluation, hence they are fully addressed in other Chapters of the BGE LRA."

Chapter 5.11A - Auxiliary Building Heating and Ventilation System

Errata

The following changes reflect the addition of heating and ventilation (H&V) equipment that was inadvertently removed from the scope of the Auxiliary Building H&V System AMR.

- Page 5.11A-10, in Table 5.11-2, add a "✓(2)" under the column for device type DAMP for "Elastomer Degradation" and "Wear."
- Page 5.11A-17, add the words "and preventative maintenance procedures" after the words "Routine system walkdowns" in the first sentence of the first paragraph under the title, Discovery."
- Page 5.11A-18, add the following to the top of the page:

  Preventive Maintenance Program

  The Calvert Cliffs Nuclear Power Plant (CCNPP) Preventive Maintenance (PM) Program has been established to maintain plant equipment, structures, systems, and components in a reliable condition for normal operation and emergency use, minimization of equipment failure, and extension of equipment and plant life. The program covers all PM activities for nuclear power

plant structures and equipment within the plant, including the Auxiliary Building H&V System components within the scope of license renewal. [Reference 17] Guidelines drawn from industry experience and utility best practices were used in the development and enhancement of this program.

Calvert Cliffs MPM01159, Inspect/Lubricate Spent Fuel Pool Exhaust Fan Filter Bypass Damper, is currently performed every 6 months with Repetitive Task 00322003, which directs the user to inspect the damper gasket material for signs of deterioration. [References 18, 19] This inspection would discover elastomer degradation and/or wear of the damper seal gasket material if it were occurring. Corrective actions are taken in accordance with the CCNPP Corrective Actions Program.

The plant maintenance program has numerous levels of management review, all the way down to the specific implementation procedures. For example, there are specific responsibilities assigned to BGE personnel for evaluating and upgrading the PM Program. [Reference 17] The PM Program has also undergone evaluation by the NRC as part of their routine licensee assessment activities. These assessments and controls provide reasonable assurance that the PM Program will continue to be an effective method of managing the effects of elastomer degradation and wear for the damper gasket seals.

- Page 5.11A-18, add the following bullet under the Group 2 Demonstration of Aging Management:
  - Existing routine PM activities to periodically inspect the Spent Fuel Pool Exhaust Fan Filter Bypass Dampers will provide reasonable assurance that the effects of elastomer degradation and wear on the damper gasket seals would be detected.
- Page 5.11A-21, add the following to Table 5.11A-3:

Table 5.11A-3

AGING MANAGEMENT PROGRAMS FOR THE PRIMARY CONTAINMENT H&V SYSTEM

	Program	Credited For
Existing	CCNPP Preventive Maintenance Program • Preventive Maintenance Checklist MPM01159 with Repetitive Tasks 00322003	• Discovery and management of the effects of elastomer degradation and wear of damper seals (Group 2)

- Page 5.11A-22, add the following to the reference section:

17. CCNPP Administrative Procedure MN-1-102, "Preventive Maintenance Program," Revision 5, September 27, 1996
18. CCNPP Preventive Maintenance Checklist MPM01159, "Inspect/Lubricate Spent Fuel Pool Exhaust Fan Filter Bypass Damper," Revision 0, January 08, 1992
19. CCNPP Repetitive Task 00322003, "Inspect/Lubricate 11/12 Spent Fuel Pool Exhaust Fan Charcoal Filter Bypass Dampers"

TABLE 5.11A-2

POTENTIAL AND PLAUSIBLE ARDMs FOR THE AUXILIARY BUILDING H&V SYSTEM

	Auxiliary Building H&V System Device Types								
Potential ARDMs	DAMP	DUCT	FAN	FL	GD	HD	HV	HX	PDI
Cavitation Erosion									
Corrosion Fatigue									
Crevice Corrosion		√ (1)						√ (1)	
Dynamic Loading			√ (3)						
Erosion Corrosion									
Fatigue									
Fouling									
Galvanic Corrosion									
General Corrosion		√ (1)						√ (1)	
Hydrogen Damage									
Intergranular Attack									
Microbiologically-Induced Corrosion									
Particulate Wear Erosion									
Pitting		√ (1)						√ (1)	
Radiation Damage									
Elastomer degradation		√ (2)			√ (2)	√ (2)			
Selective Leaching									
Stress Corrosion Cracking									
Stress Relaxation									
Thermal Embrittlement									
Wear		√ (2)			√ (2)	√ (2)			

√ - indicates that the ARDM is plausible for component(s) within the device type
(#) - Indicates the Group in which this device type/ARDM combination is evaluated

Note: Not every component within the device types listed here may be susceptible to a given ARDM. This is because components within a device type are not always fabricated from the same materials or subjected to the same environments. Exceptions for each device type will be indicated in the aging management section for each ARDM discussed in this report.

The following is a discussion of the aging management demonstration process for each group identified above. It is presented by group and includes a discussion on materials and environment, aging mechanism effects, methods to manage aging, aging management program(s), and aging management demonstration.

Group 1 (crevice corrosion, general corrosion, and pitting for duct and heat exchangers) - Materials and Environment

Group 1 is comprised of components that are potentially exposed to moist air and condensation. These include the ducting where the steel materials are exposed to the potentially moist air. The duct, fittings,

Elastomer degradation and wear are plausible for the flexible collars since the elastomers will degrade at the joints in the HVAC equipment due to relative motion between vibrating equipment, pressure variations and turbulence, and exposure to temperature changes and oxygen. These stressors will result in eventual tearing of the boot. Elastomer degradation and wear are plausible for damper seals because the neoprene will degrade due to relative motion between the blade and sleeve during damper operation and exposure to temperature changes and oxygen. These stressors will result in eventual breakdown of the seal. [Reference 2, Attachment 6s] If left unmanaged, elastomer degradation and wear could eventually result in the loss of pressure boundary integrity of the duct flexible collars and damper seals under CLB design loading conditions.

Group 2 (elastomer degradation and wear for non-metallic duct and damper parts) - Methods to Manage Aging

Mitigation: Elastomer degradation can be mitigated by utilizing materials that are less susceptible to heat and oxygen. Wear can be mitigated by minimizing operation of the dampers to slow degradation of the seating surfaces, which leads to a loss of leak tightness. [Reference 2, Attachment 7s]

Discovery: Periodic visual inspections can be performed for the Group 2 equipment to detect the effects of elastomer degradation and wear. Degradation of the flexible collars can be detected through periodic system walkdowns because the collars are readily accessible. Degradation of damper seals can be detected through continued inspections and walkdowns. If significant degradation is discovered, the flexible collars or damper seals can be repaired or replaced as appropriate. [Reference 2, Attachment 8]

Group 2 (elastomer degradation and wear for non-metallic duct and damper parts) - Aging Management Program(s)

Mitigation: The system was designed to minimize vibration by using equipment support isolators and equipment-to-duct isolators, such as the flexible collars. Changes to materials or to system operating practices are not deemed necessary to mitigate the effects of these ARDMs. Implementing the discovery methods discussed below are adequate methods to manage these ARDMs. Since there are no additional methods beyond these design features for mitigating elastomer degradation and wear, there are no programs credited with mitigating the aging effects due to these ARDMs. [Reference 2, Attachment 6s and 8]

Discovery:

Routine system walkdowns would discover elastomer degradation and wear of the duct flexible collars and possibly of the damper seals. To assure that degradation of the damper seals is not threatening the capability of the dampers to provide the pressure boundary function they will be included in a new ARDI Program.

System Walkdowns

Procedure MN-1-319 provides for discovery of the effects of elastomer degradation and wear by providing for system walkdowns that include visual inspections, reporting the walkdown results, and initiating corrective action. Under this program, inspection items typically related to aging management include identifying poor housekeeping conditions (such as degraded paint), and identifying system and equipment stress or abuse (such as excessive vibrations, bent or broken component supports, etc.). Signs of cracking

ATTACHMENT (5)

REGULATORY COMMITMENTS CONTAINED IN THIS CORRESPONDENCE

ATTACHMENT (5)

REGULATORY COMMITMENTS CONTAINED IN THIS CORRESPONDENCE

The following table identifies actions committed to in this document by R.E. Ginna Nuclear Power Plant. Any other statements in this submittal are provided for information purposes and are not considered to be regulatory commitments.

REGULATORY COMMITMENT	DUE DATE
Submit seismic walkdown results to the NRC for supplemental internal inspections of DGAEC and FOXDGA1 as part of the response to the Fukushima Recommendation 2.3 Request for Information.	July 31, 2013
Submit seismic walkdown results to the NRC for supplemental internal inspections of MCCC and Bus14 as part of the response to the Fukushima recommendation 2.3 Request for Information.	January 31, 2016