

**Area Walk-By Checklist (AWC)**

Assets: P5002D001

Location: Bldg. AB Floor El. 562'-0" Room, Area<sup>1</sup> B-02, Col. G-15

**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

*All nearby equipment adequately anchored.*

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

*No degradation of anchors observed in the area.*

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

*Cable trays and conduit are too far away. Asset is protected from above by a concrete ceiling. (See Picture 6).*

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

*Asset is not close enough to other equipment to have seismic spatial interactions.*

MPS 10/4/12

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

**Area Walk-By Checklist (AWC)**

Assets: P5002D001

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Location: Bldg. AB Floor El. 562'-0" Room, Area<sup>1</sup> B-02, Col. G-15

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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

*The sprinkler system nearby has adequate anchorage, is free of brittle attachments and has no potential interactions that would cause it to rupture.*

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

*No fire hazards nearby.*

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

*There are currently workers in the area – nothing is stored improperly.*

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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

*Note that scaffold in area has been approved by PSE on 7/25/12.*

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**Comments** (Additional pages may be added as necessary)

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*None.*

MPS 10/4/12

Fermi 2 Seismic Walkdown Guideline  
Area Walk-By-Checklist

NJPR-12-0043

Sheet 3 of 3  
Status: (Y) N U

Area Walk-By Checklist (AWC)

ABB-1

ASSETS: P5002D001

Location: Bldg. AB Floor El. 562'-0" Room, Area' B-02, Col. G-15

Seismic Engineer Walkdown PSE-53 Qualified

Evaluator #1: Michael P. Sasso Date: 8/21/12

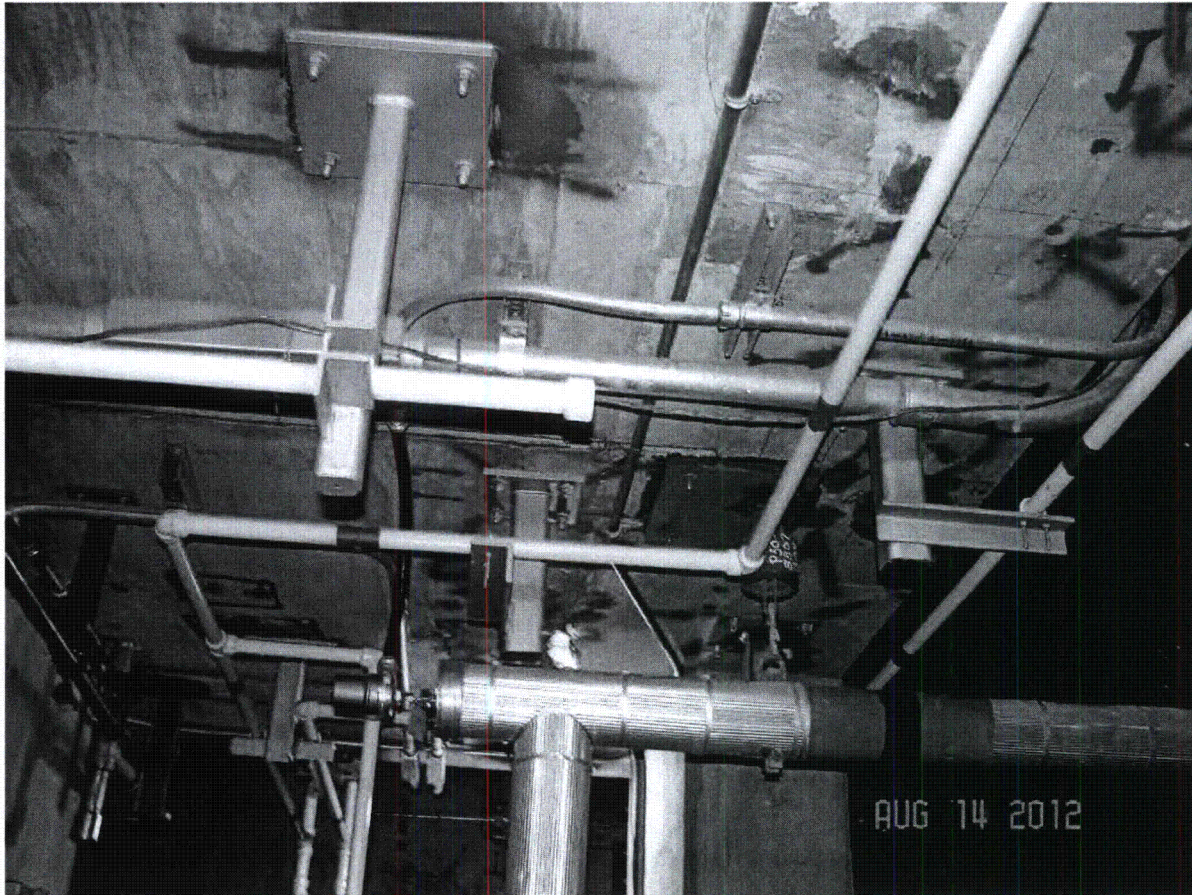
Seismic Engineer Walkdown PSE-53 Qualified

Evaluator #2: Scott Bauer Date: 8/21/12

Area Walk-By Pictures

ABB-1

Location: Bldg. AB Floor El. 562'-0" Room, Area B-02, Col. G-15



(Picture #6)

Fermi 2 Seismic Walkdown Guideline  
Area Walk-By-Checklist

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Sheet 1 of 3  
Status: Y  N  U

AB2-1

**Area Walk-By Checklist (AWC)**

Assets: *E41K805, H11P612, H11P628, H11P857, H11P870, H11P898A, H11P898B, H11P903, H11P913, H11P915, H11P923, R31K005, R3200S061A, R3200S061B*

Location: Bldg. AB Floor El. 613'-6" Room, Area<sup>1</sup> B-15, Relay 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

*Seismic bracing evident on ducts, cable trays & between cabinets.  
Cabinet welded to enclosed plates/channel which is seismically robust.*

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

*No degraded condition observed.*

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

*Lights on chains & cables. Fire wrap around cables loose in places, but not a seismic concern. Foil outer casing is light weight and would not fall or cause damage in a seismic event. HVAC mounted on seismic supports. Gatronics mounted on rigid conduit over Div. II breaker panel - See CARD 12-26630. (SEE PICTURES DSCN0071, DSCN0072) ~ DSK 10/10/12*

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

*No ceiling tiles. Lights on chains and cables have adequate rattle space. Tubes enclosed in plastic sheath. Cable tray has longitudinal bracing added.*

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

**Area Walk-By Checklist (AWC)**

Assets: E41K805, H11P612, H11P628, H11P857, H11P870, H11P898A, H11P898B, H11P903,  
H11P913, H11P915, H11P923, R31K005, R3200S061A, R3200S061B

Location: Bldg. AB Floor El. 613'-6" Room, Area<sup>1</sup> B-15, Relay Room

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

*No water pipes observed.*

(SEE PICTURE DSCN0201) ~ DJK 10/10/12

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

*Area protected by Cardox System.*

(SEE PICTURES DSCN0201, DSCN0203) ~ DJK 10/10/12

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

*Portable equipment properly restrained.*

(SEE PICTURE DSCN0073) ~ DJK 10/10/12

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

**Comments** (Additional pages may be added as necessary)

*This evaluation applied to all equipment within the relay room.*

*E41K805, H11P612, H11P628, H11P857, H11P870, H11P898A, H11P898B, H11P903, H11P913,  
H11P915, H11P923, R31K005, R3200S061A, R3200S061B*

Fermi 2 Seismic Walkdown Guideline  
Area Walk-By-Checklist

NJPR-12-0043

Sheet 3 of 3  
Status: ~~U~~ ~~N~~ U  
JML  
10.04.2012  
AB2-1

**Area Walk-By Checklist (AWC)**

Location: Bldg. AB Floor El. 613'-06" Room, Area<sup>1</sup> RELAY ROOM, B-15

*Seismic Engineer Walkdown PSE-53 Qualified*

Evaluator #1: David G. Dickson Date: 6th August 2012

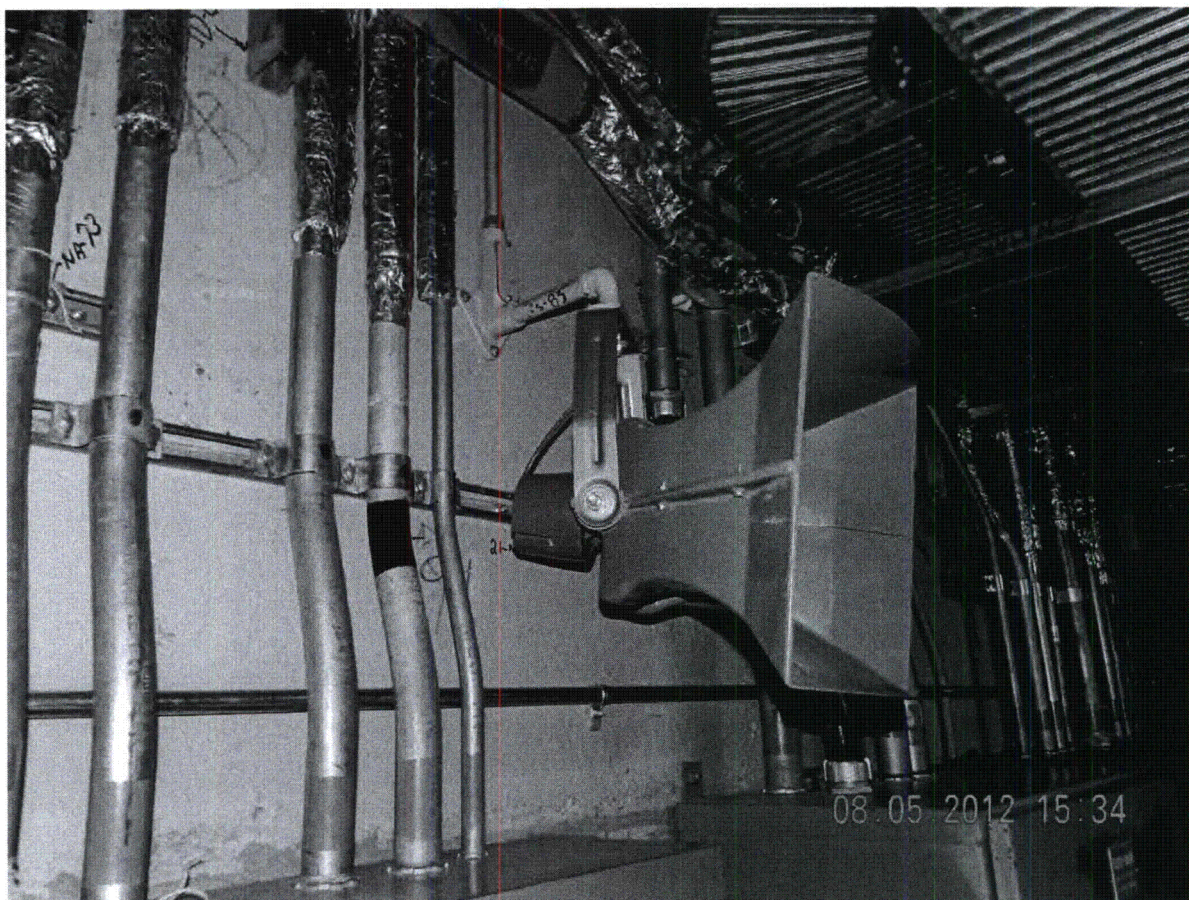
*Seismic Engineer Walkdown PSE-53 Qualified*

Evaluator #2: Joseph M. LaVera Date: 08.06.2012

Area Walk-By Pictures

AB2-1

Location: Bldg. AB Floor El. 613'-6" Room, Area B-15, Relay Room



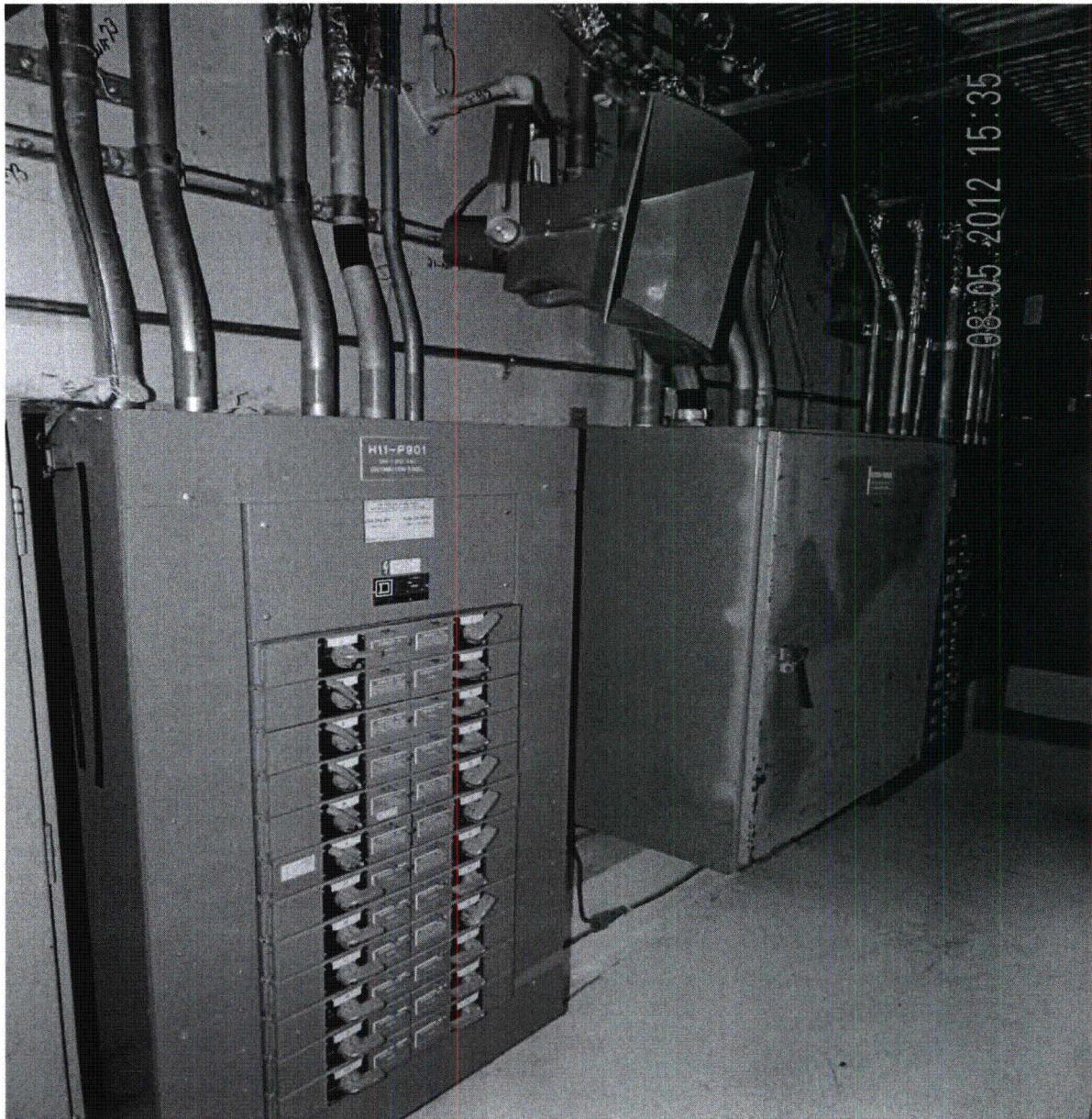
(DSCN0071)



Area Walk-By Pictures

AB2-1

Location: Bldg. AB Floor El. 613'-6" Room, Area B-15, Relay Room



(DSCN0072)

Area Walk-By Pictures

AB2-1

Location: Bldg. AB Floor El. 613'-6" Room, Area B-15, Relay Room

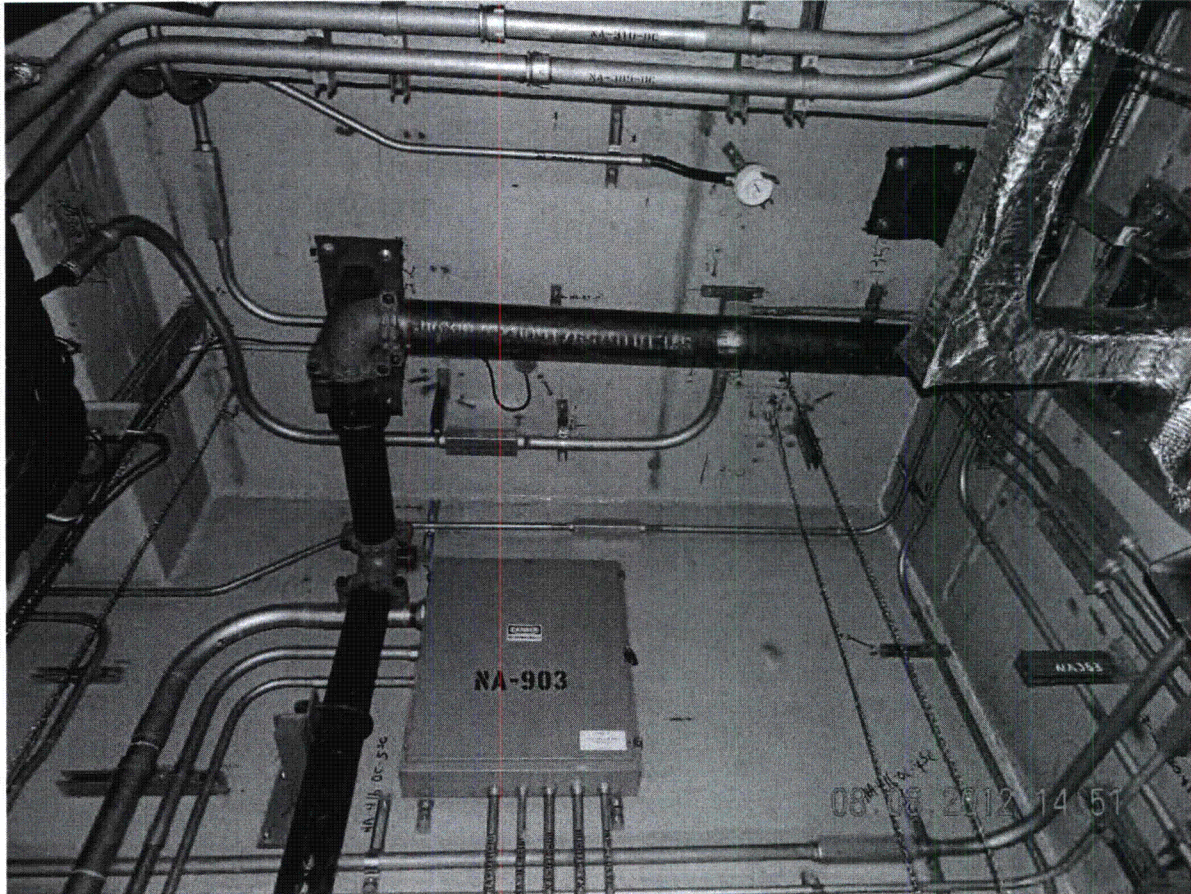


(DSCN0073)

Area Walk-By Pictures

AB2-1

Location: Bldg. AB Floor El. 613'-6" Room, Area B-15, Relay Room



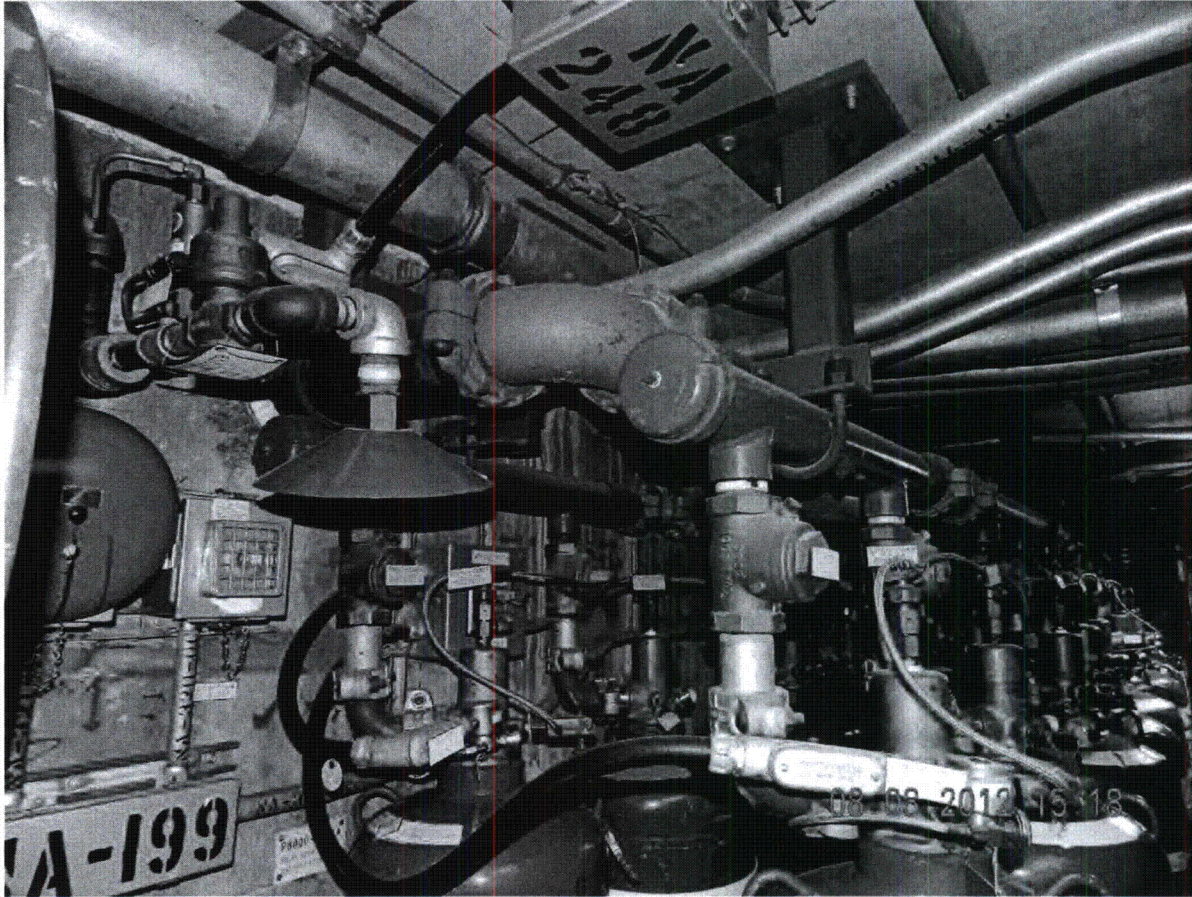
(DSCN0201)

"Halon Piping above, Ref. Dwg. M-5327"

Area Walk-By Pictures

AB2-1

Location: Bldg. AB Floor El. 613'-6" Room, Area B-15, Relay Room



(DSCN0203)

**Area Walk-By Checklist (AWC)**

Assets: H21P100, H21P624, H21P628, R1400S050 & R3200S062

Location: Bldg. AB Floor El. 613'-6" Room, Area<sup>1</sup> B-11, Div. I Switchgear 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

*Anchorage is robust and acceptable. Wall mounted cabinets and equipment are supported by unistrut strips anchored to the wall.*

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

*Where welds are outside cabinets and visible, they are free of degradation.*

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

*Overhead cable trays have adequate seismic clearances. HVAC duct and tray supports are all robust. Trays have longitudinal bracing. Seismic clearance between asset R1400S001C and HVAC duct on west side of asset is 4". Per Dwg. M-5433, Rev. B (posting TCEDP 26116, Date 06/94), a minimum clearance of 6" is required (see Photo DSCN 0319). Initiated CARD 12-27959.*

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

*No ceiling tiles in the area. With one exception, lights are supported by cables and chains. Light fixture to and south of asset R1400S001C has one chain detached (see Photo DSCN 0323). Fixture is resting against stiffener on nearby HVAC duct. Cable is supporting fixture where chain is detached. CARD 12-27093 was initiated to correct condition.*

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

JMC

Fermi 2 Seismic Walkdown Guideline  
Area Walk-By-Checklist

NJPR-12-0043

Sheet 2 of 3  
Status: Y  N  U

AB2-2

**Area Walk-By Checklist (AWC)**

Assets: H21P100, H21P624, H21P628, R1400S050 & R3200S062

Location: Bldg. AB Floor El. 613'-6" Room, Area<sup>1</sup> B-11, Div. I Switchgear Room

5. Does it appear that the area is free of potentially adverse seismic interactions that could cause flooding or spray in the area? Y  N  U  N/A   
*Water supply to air handling unit is robustly supported. The air unit is inside a berm with a floor drain.*

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   
*There are no flammable gas cylinders or combustible materials 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   
*Tool boxes tied off. Other portable items are properly secured or stored in enclosures.*

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   
*Reviewed adequacy of brackets securing portable fire extinguishers to concrete walls and columns (see Photo DSCN 0330). Determined bracket was evaluated and found adequate in Calc. DC-3277 Vol. II, Rev. 0.*

Comments (Additional pages may be added as necessary)

*Block walls NE & SW corners of switchgear room are seismically restrained by structural angles at concrete walls. Refer to Calc. No.'s DC-0841, Rev. D; and DC-4479, Rev. B, for analysis of walls and restraints.*

JML

Fermi 2 Seismic Walkdown Guideline  
Area Walk-By-Checklist

NJPR-12-0043

Sheet 3 of 3  
Status: Y  N  JML  
09.18.2012

Area Walk-By Checklist (AWC)

AB2-2

Assets: ~~H21P100, H21P624, H21P628, R1400S050 & R3200S062~~

Location: Bldg. ~~H21-P100~~ Floor El. 613'-6" Room, Area SWITCHGEAR ROOM DIVI (B-11)  
~~AB~~ ~~09/25/12~~

Seismic Engineer Walkdown PSE-53 Qualified

Evaluator #1: David F. Dickson Date: 8/14/2012

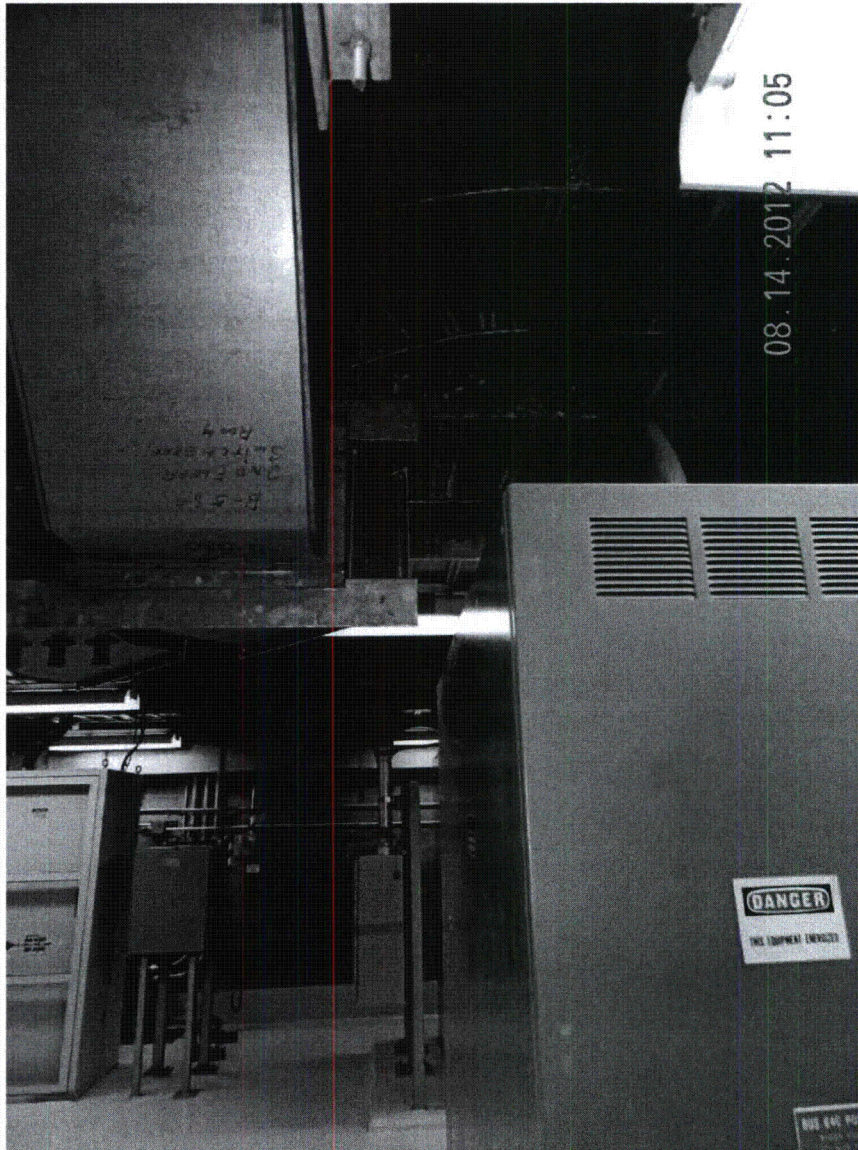
Seismic Engineer Walkdown PSE-53 Qualified

Evaluator #2: Joseph M. Kellum Date: 08/14/2012

Area Walk-By Pictures

AB2-2

Location: Bldg. AB Floor El. 613'-6" Room, Area B-11, Div. I Switchgear Room



(Photo DSCN 0319)

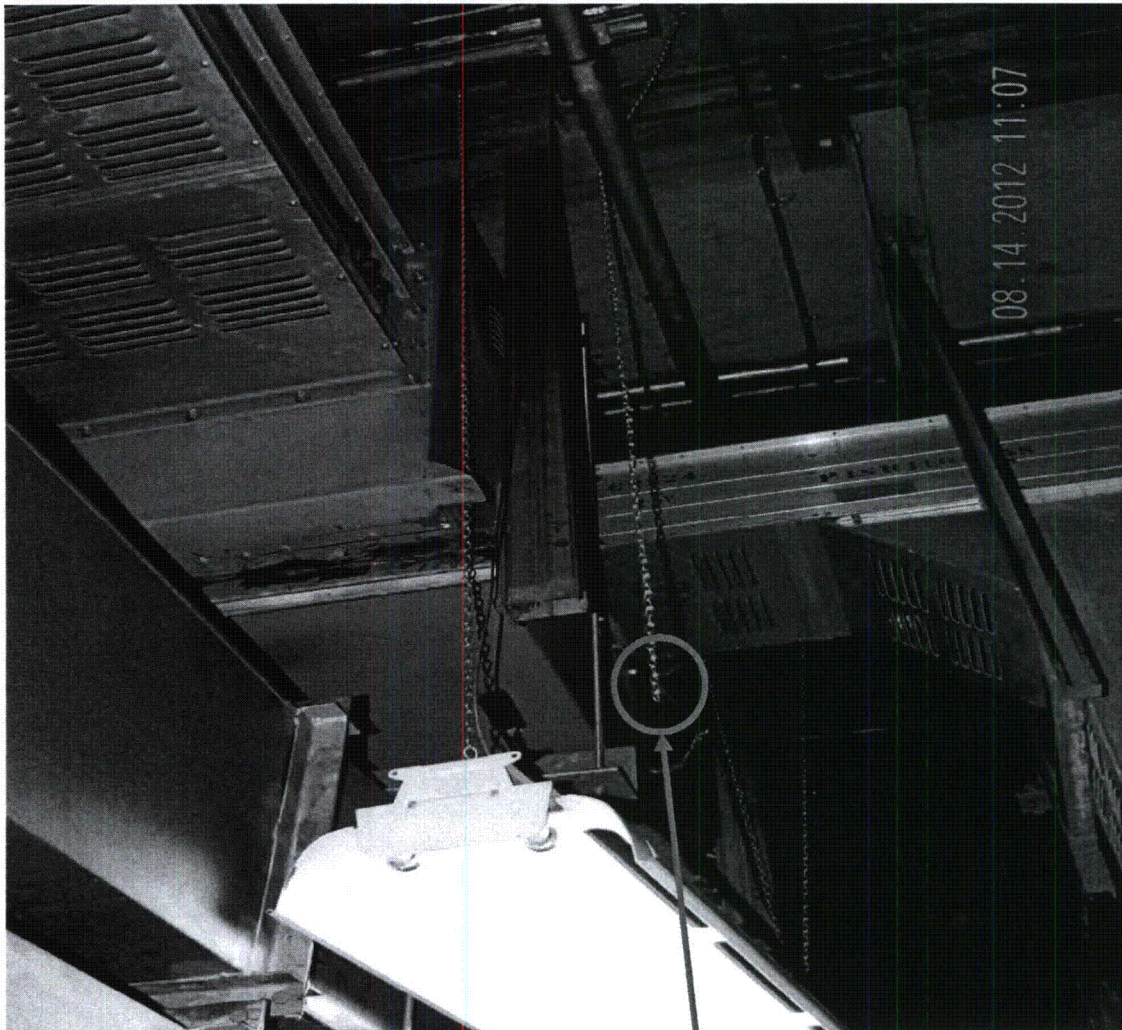
Seismic Gap between HVAC Duct and Cabinet R1400S001C



Area Walk-By Pictures

AB2-2

Location: Bldg. AB Floor El. 613'-6" Room, Area B-11, Div. I Switchgear Room



(Photo DSCN 0323)

Detached Light Chain by R1400S001C

Area Walk-By Pictures

AB2-2

Location: Bldg. AB Floor El. 613'-6" Room, Area B-11, Div. I Switchgear Room



(Photo DSCN 0330)

Fire Extinguisher Mounting Bracket

**Area Walk-By Checklist (AWC)**

Assets: R3200S004

Location: Bldg. AB Floor El. 643'-6" Room, Area<sup>1</sup> Battery Room (B-22W)

**Instructions for Completing Checklist**

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

*Cabinets R3200S008A, R3200S011 and R3200S008B on frame anchored to floor. 3/8"Ø anchors with 1½" of thread extended above washer – acceptable see drawing E-2833-10. (See Photo DSCN0144)*

JAM  
10/11/12

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

*Area is clean.*

*(See Photo DSCN0143 and DSCN0144)*

JAM  
10/11/12

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

*HVAC duct – could not verify hangers covered with silver insulation/fire wrap – NOTE: duct is wall-mounted and at such a height & distance from the battery racks that the HVAC system does not pose a seismic risk. Lights have plastic covers and chain with cable, emergency light fixture appears adequate*

*(See Photo DSCN0131, DSCN0134, DSCN0138 and DSCN0139)*

JAM  
10/11/12

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

*Lights have plastic covers and chain with cable, emergency lights acceptable – robust.*

*(See Photo DSCN0134, DSCN0139 and DSCN0140)*

JAM  
10/11/12

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

**Area Walk-By Checklist (AWC)**

Assets: R3200S004

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Location: Bldg. AB Floor El. 643'-6" Room, Area<sup>1</sup> Battery Room (B-22W)

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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 pipe in this 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   
*No combustible items.*

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   
*All equipment and cabinets are tied back. Area is clean.*

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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

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**Comments** (Additional pages may be added as necessary)

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*A green cable was observed entering an open conduit into the floor. Cable restraints or penetration seals could not be verified. However, the installation is in accordance with drawing E-2833-10 and was installed in accordance with EDP-26959. The installation is acceptable.*

Fermi 2 Seismic Walkdown Guideline  
Area Walk-By-Checklist

NJPR-12-0043

Sheet 3 of 3  
Status:  Y  N  U

Area Walk-By Checklist (AWC)

ASSETS: R3200S004

AB3-1

Location: Bldg. AB Floor El. 643'-6" Room, Area<sup>1</sup> BATTERY ROOM DIV II (B-22W)

Seismic Engineer Walkdown PSE-53 Qualified

Evaluator #1: David G. Dickins Date: 8/8/2012

Seismic Engineer Walkdown PSE-53 Qualified

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

Area Walk-By Pictures

AB3-1

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

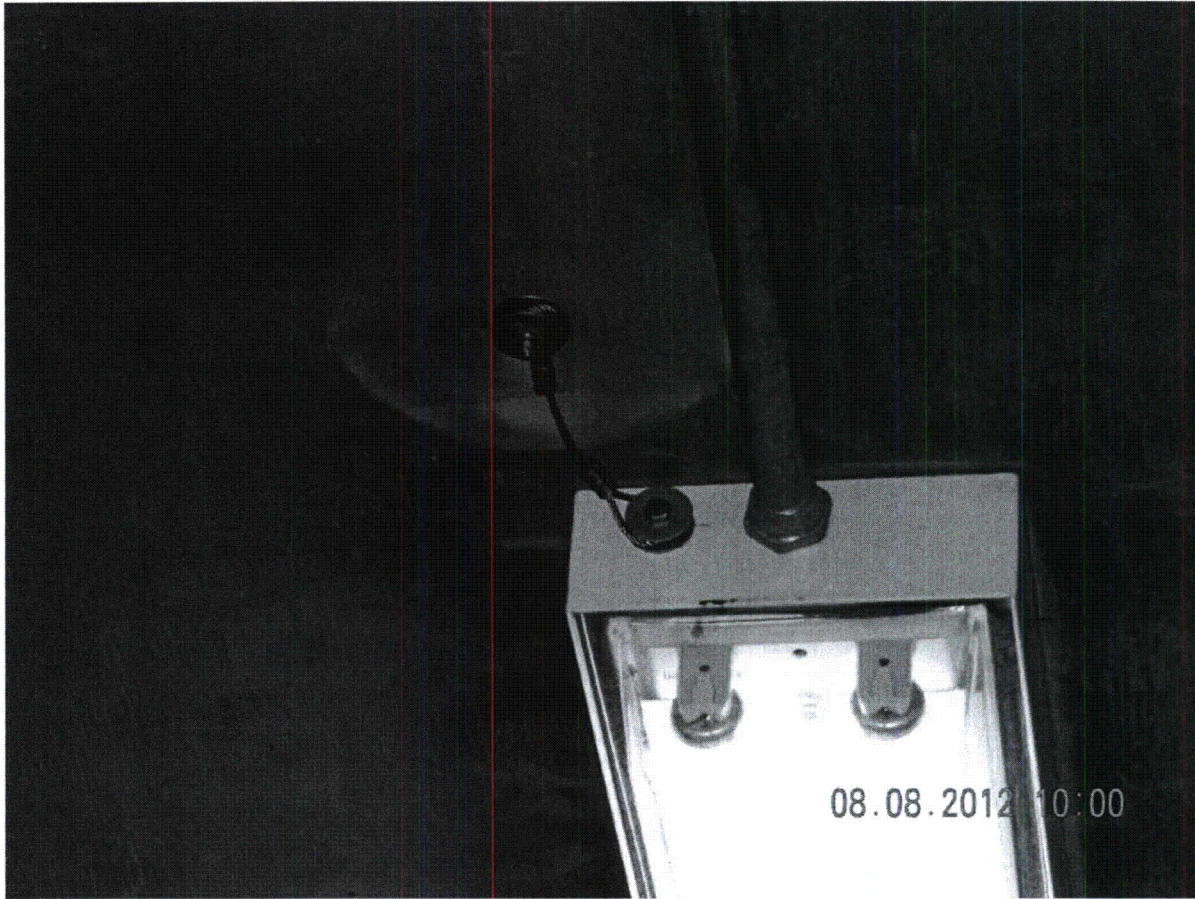


(DSCN0131)

Area Walk-By Pictures

AB3-1

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

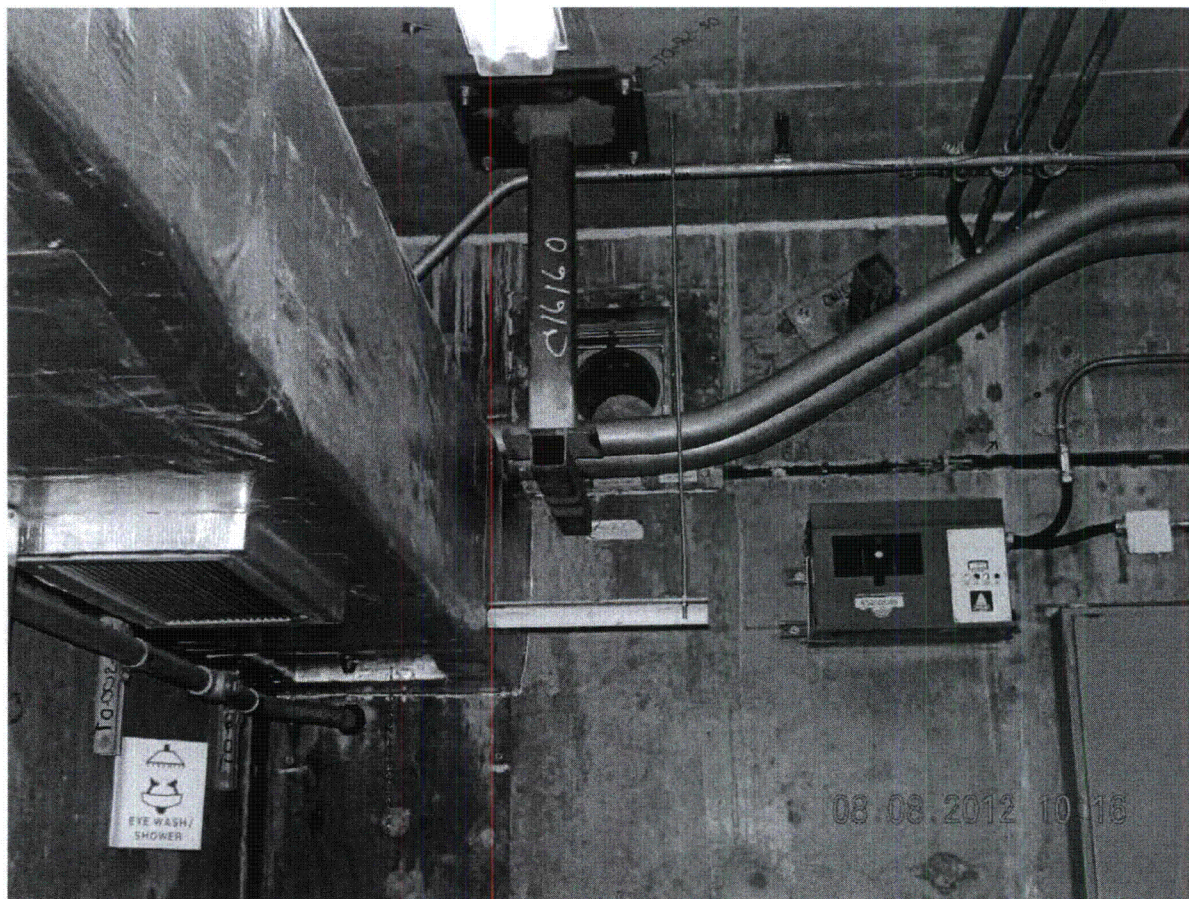


(DSCN0134)

Area Walk-By Pictures

AB3-1

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



(DSCN0138)



Area Walk-By Pictures

AB3-1

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



(DSCN0139)

Area Walk-By Pictures

AB3-1

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



(DSCN0140)

Area Walk-By Pictures

AB3-1

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

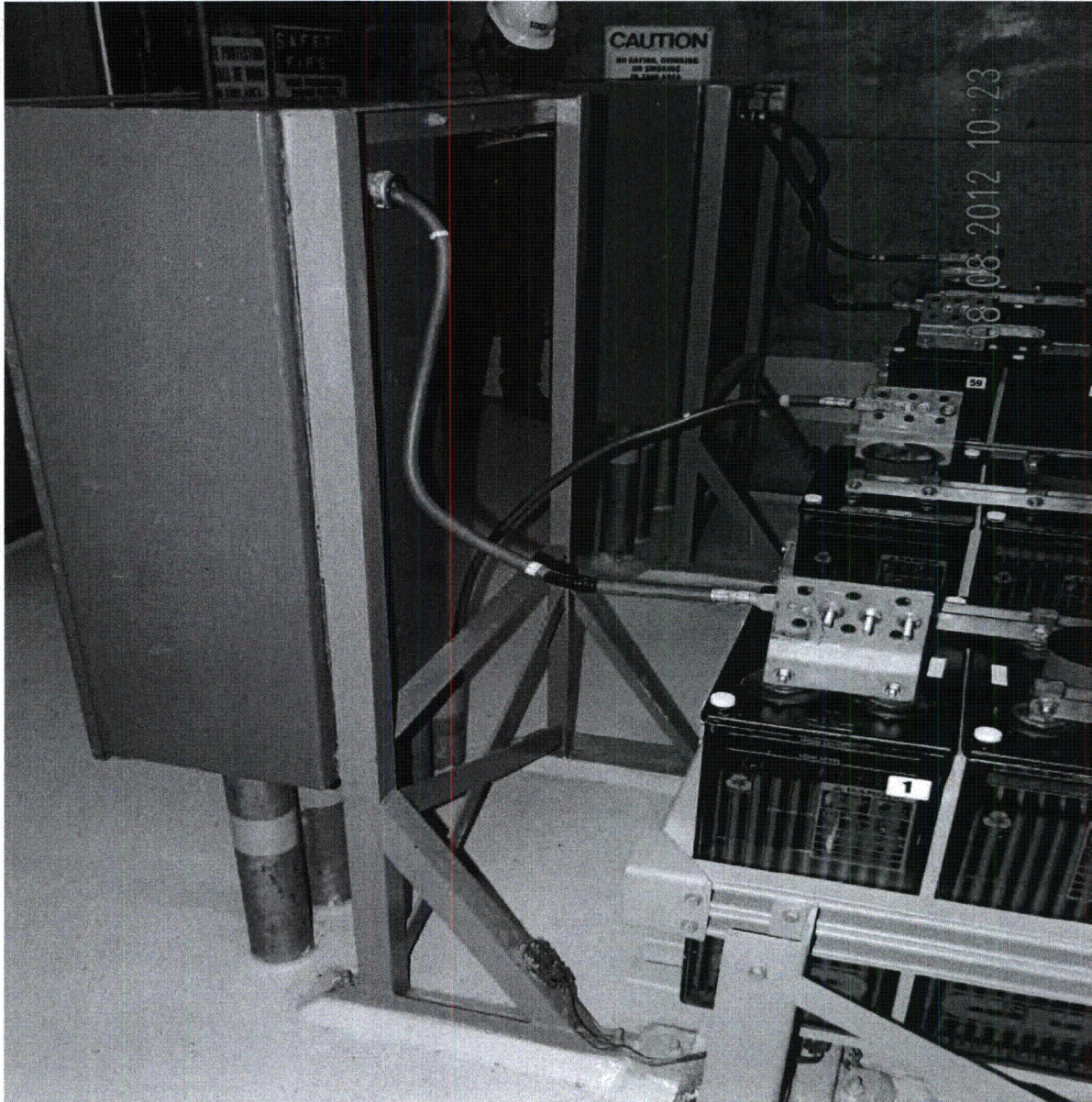


(DSCN0143)

Area Walk-By Pictures

AB3-1

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



(DSCN0144)

Fermi 2 Seismic Walkdown Guideline  
Area Walk-By-Checklist

NJPR-12-0043

Sheet 1 of 3  
Status:  Y  N  U  
AB3-2

**Area Walk-By Checklist (AWC)**

Assets: R3200S016

Location: Bldg. AB Floor El. 643'-6" Room, Area<sup>1</sup> B-20, DIV II Switchgear Room

**Instructions for Completing Checklist**

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

*All items above cabinet, copper pipe, tube track and HVAC ducts appear seismically supported. Copper pipe connected to valves P50F701 & P50F377, part of instrument air system.  
(See Photo DSCN0209, DSCN0210 and DSCN0224)*

JAM  
10/11/12

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

*Adjacent fire wall anchored to the floor. Adjacent Div. I cabinet anchored to the floor. Air handling unit T4100B033 approximately 15" from R3200S016 evidence of corrosion at the base. Corrosion is minor, and condensation moisture issues are being addressed by placement of absorbent socks at condensation location.  
(See Photo DSCN0209, DSCN0208, DSCN0217 and DSCN0224)*

JAM  
10/11/12

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

*HVAC ducts are seismically supported. Instrument air tube-track and copper header pipe is seismically supported.  
(See Photo DSCN0210)*

JAM  
10/11/12

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

*No ceiling tiles in this area. Lights hung with chain and redundant wire.*

*(See Photo DSCN0211)*

JAM  
10/11/12

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

JAM

Fermi 2 Seismic Walkdown Guideline  
Area Walk-By-Checklist

NJPR-12-0043

Sheet 2 of 3  
Status  Y  N  U

AB3-2

**Area Walk-By Checklist (AWC)**

Assets: R3200S016

Location: Bldg. AB Floor El. 643'-6" Room, Area<sup>1</sup> B-20, DIV II Switchgear Room

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

*Cooling water flow and return pipes for T4100B033 appear seismically supported and acceptable. Fire protection is CO<sub>2</sub>.*

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

*Area is clean.*

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

*Small desk, mop & bucket are restrained.*

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

Comments (Additional pages may be added as necessary)

*None.*

Fermi 2 Seismic Walkdown Guideline  
Area Walk-By-Checklist

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Sheet 3 of 3  
Status: (Y) N U

AB3-2

Area Walk-By Checklist (AWC)

ASSETS: R32005016

B-20,

Location: Bldg. AB Floor El. 643'-6" Room, Area' DIV II SWITCHGEAR ROOM

Seismic Engineer Walkdown PSE-53 Qualified

Evaluator #1: David C Dickson

Date: 8/9/2012

Seismic Engineer Walkdown PSE-53 Qualified

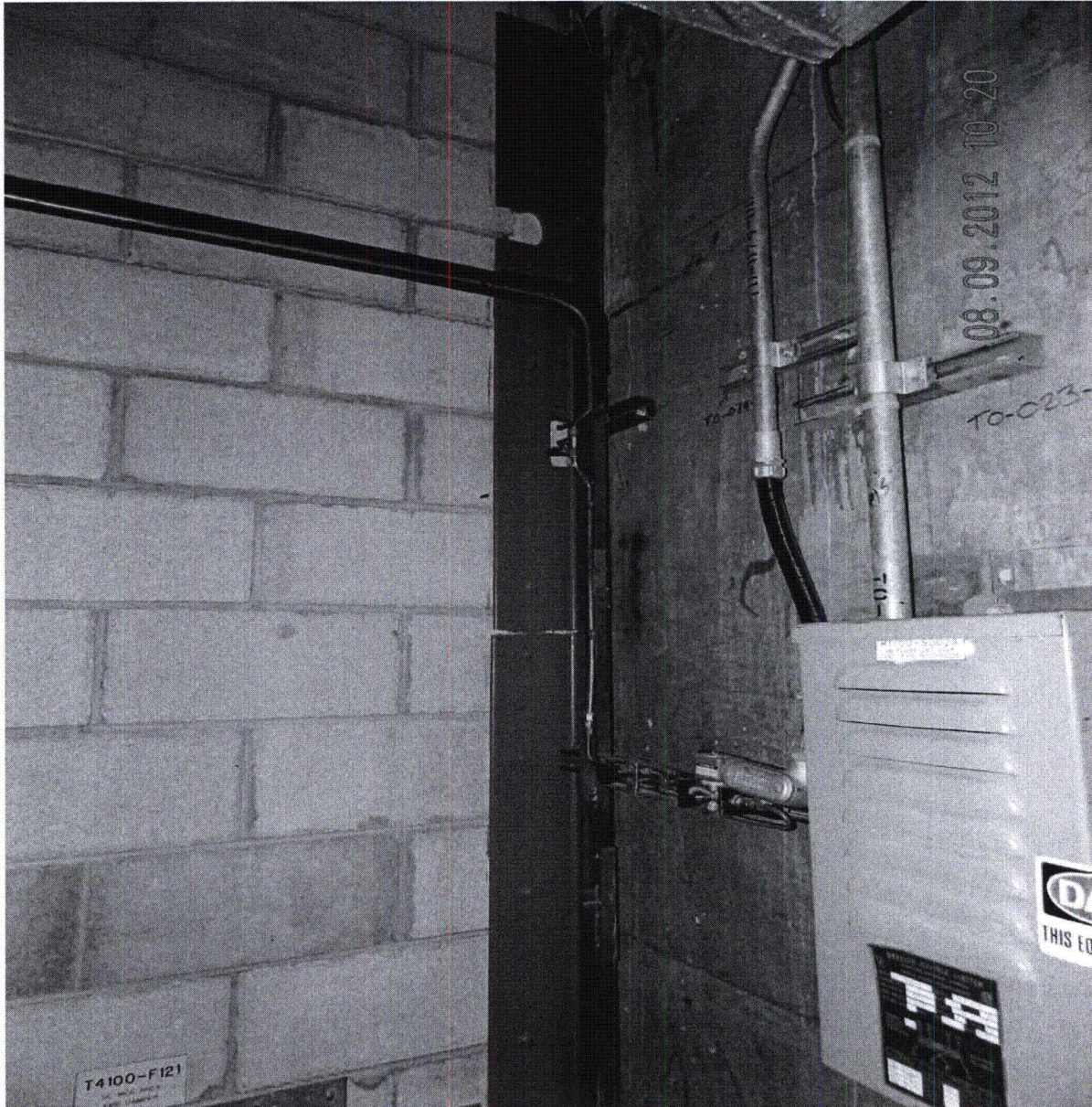
Evaluator #2: Joseph M. New

Date: 08/09/2012

Area Walk-By Pictures

AB3-2

Location: Bldg. AB Floor El. 643'-6" Room, Area B-20, Div. II Switchgear Room



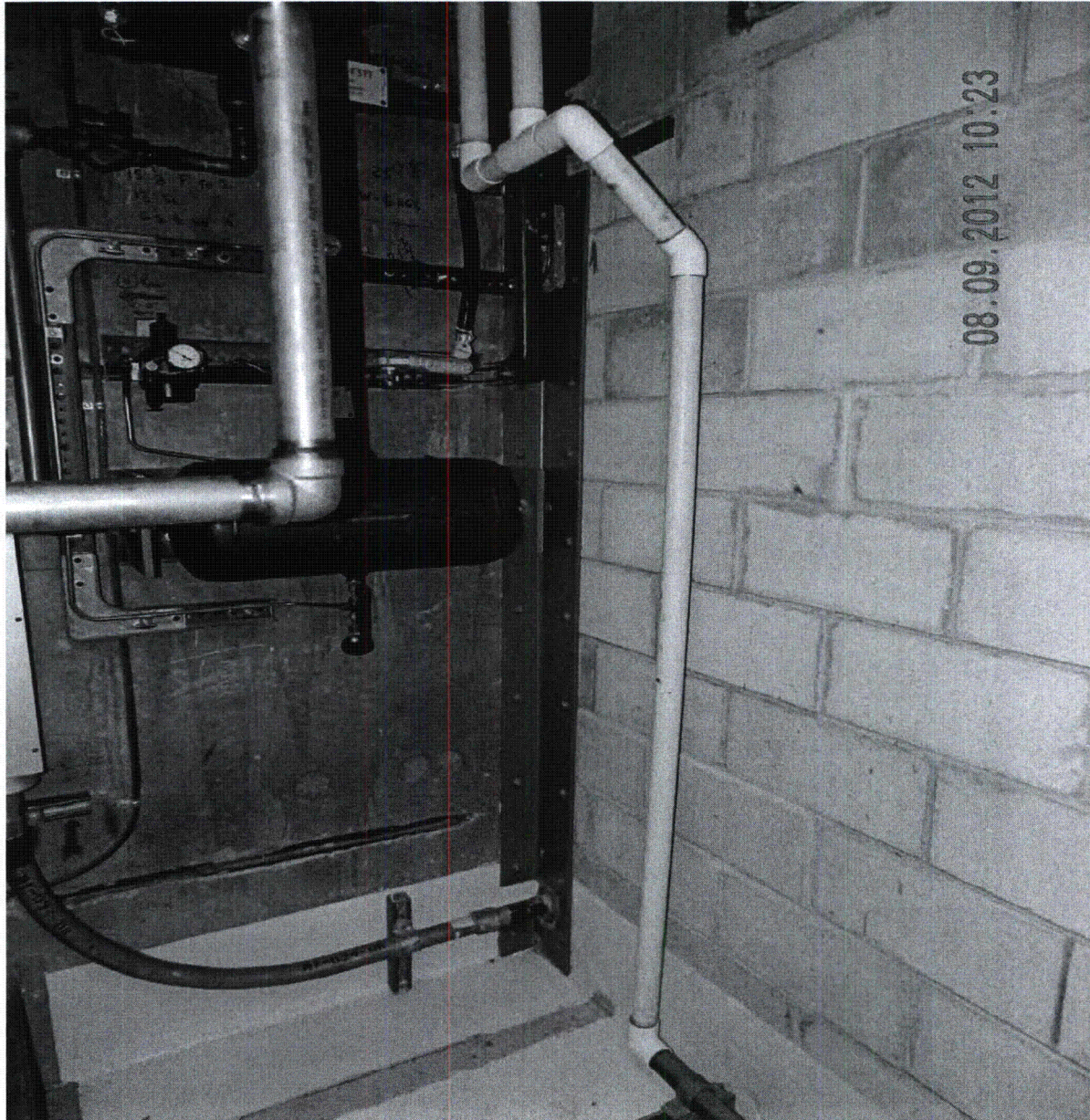
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Area Walk-By Pictures

AB3-2

Location: Bldg. AB Floor El. 643'-6" Room, Area B-20, Div. II Switchgear Room

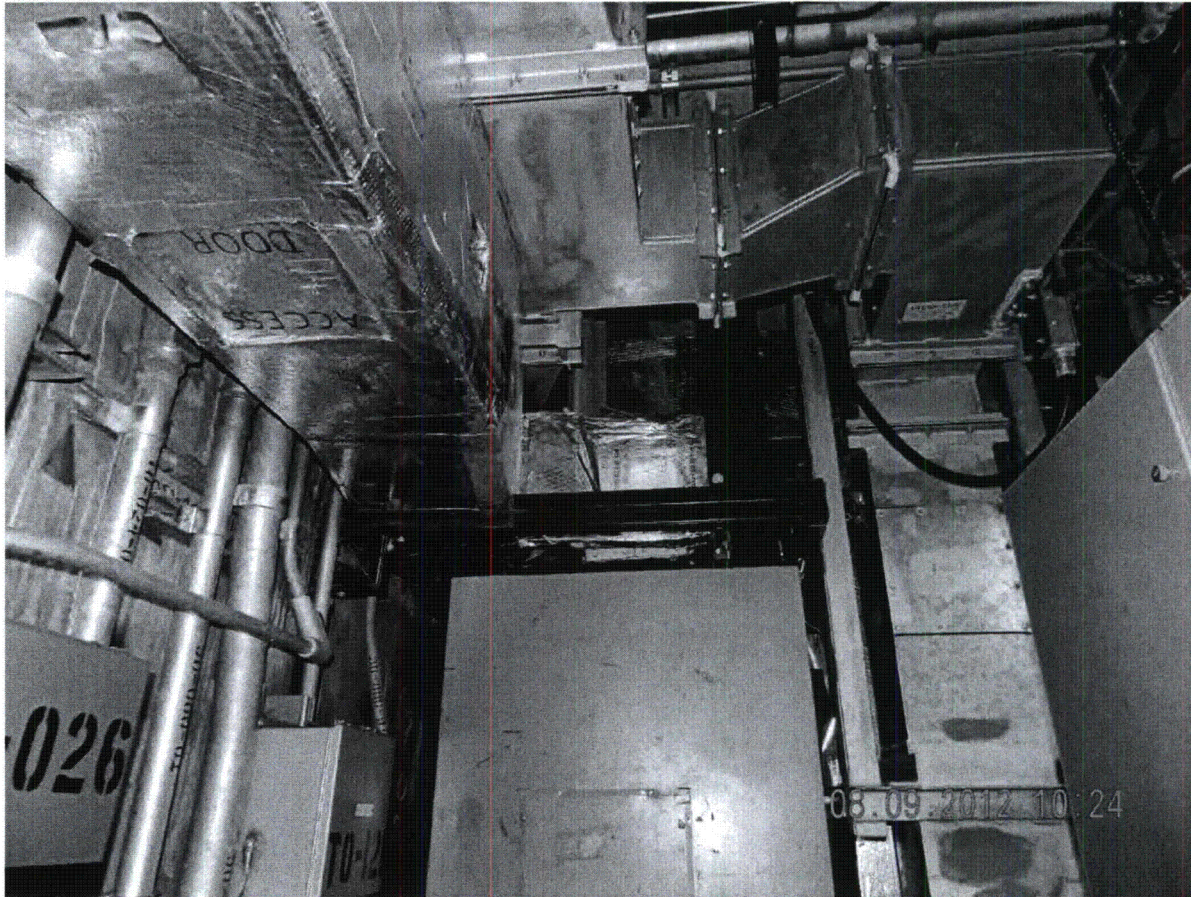


(DSCN0209)

Area Walk-By Pictures

AB3-2

Location: Bldg. AB Floor El. 643'-6" Room, Area B-20, Div. II Switchgear Room

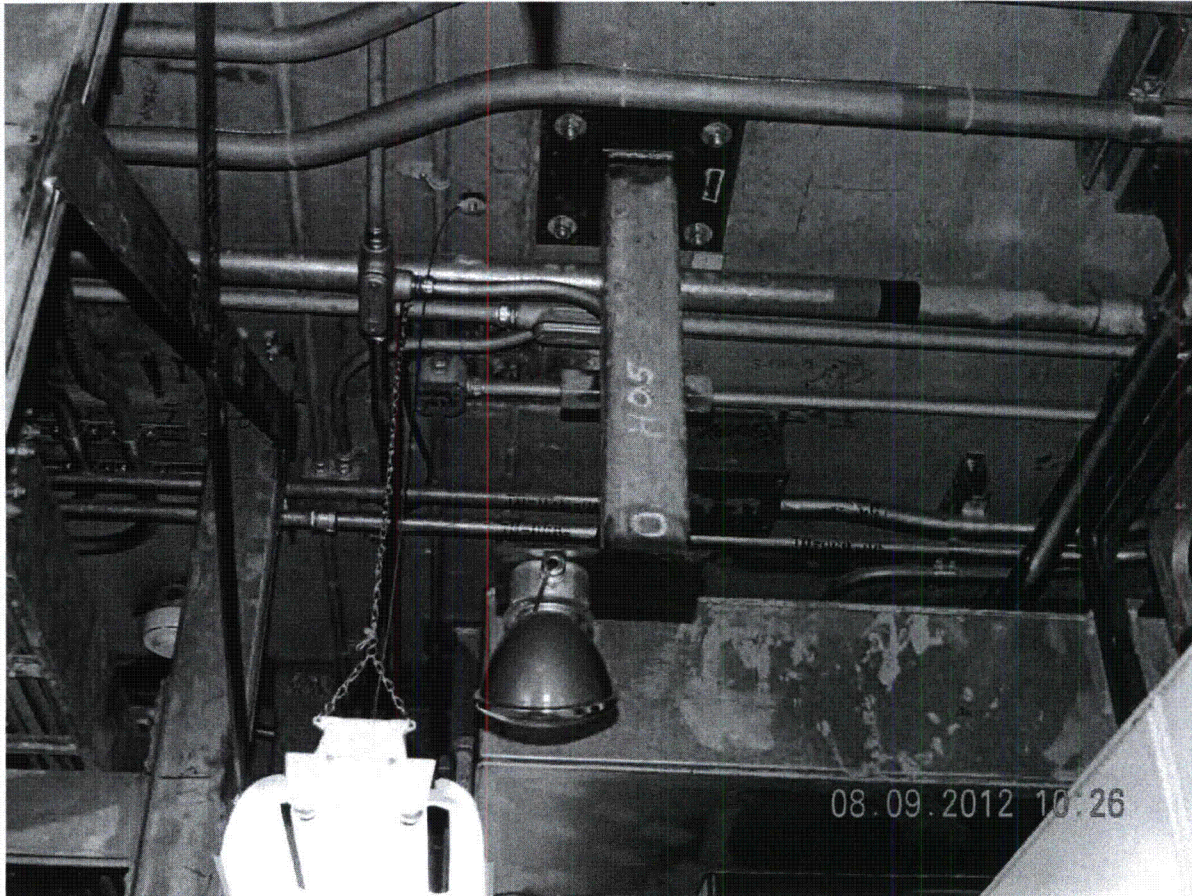


(DSCN0210)

Area Walk-By Pictures

AB3-2

Location: Bldg. AB Floor El. 643'-6" Room, Area B-20, Div. II Switchgear Room



(DSCN0211)

Area Walk-By Pictures

AB3-2

Location: Bldg. AB Floor El. 643'-6" Room, Area B-20, Div. II Switchgear Room

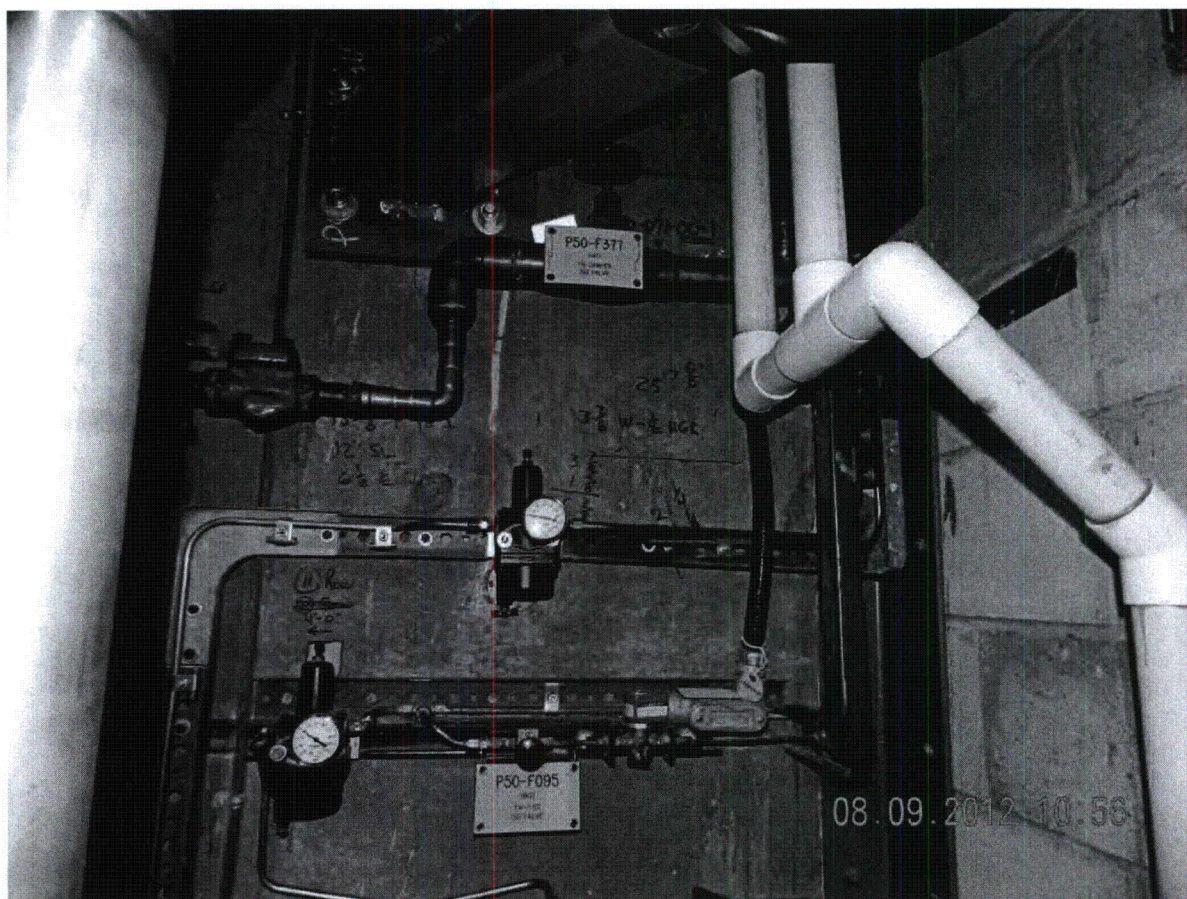


(DSCN0217)

Area Walk-By Pictures

AB3-2

Location: Bldg. AB Floor El. 643'-6" Room, Area B-20, Div. II Switchgear Room



(DSCN0224)

**Area Walk-By Checklist (AWC)**

Assets: R3200S020C

Location: Bldg. AB3 Floor El. 643'-6" Room, Area<sup>1</sup> B-20, near Col. G-11

**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

*All equipment anchored to the floor or wall with robust seismic supports.*

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

*Adjacent battery chargers anchored with same detail. See Question 1 above.*

JAM  
10/10/12

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

*Tray and duct on rigid seismic supports, no ceiling tiles, lights on chain and cable. (See Photo DSC00074 and DSC00075)*

JAM  
10/10/12

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

*No ceiling tiles in the area, lights hung on chains with redundant cable. (See Photo DSC00075)*

JAM  
10/10/12

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

JML

Fermi 2 Seismic Walkdown Guideline  
Area Walk-By-Checklist

NJPR-12-0043

Sheet 2 of 3  
Status:  Y  N  U

AB3-3

**Area Walk-By Checklist (AWC)**

Assets: *R3200S020C*

Location: Bldg. AB3 Floor El. 643'-6" Room, Area<sup>1</sup> B-20, near Col. G-11

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 water lines in the area. Fire protection is Halon system.*

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

*Area is free of potentially adverse seismic interactions that could cause a fire.*

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

*This area contains no housekeeping issues, portable equipment or temporary installations.*

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

**Comments** (Additional pages may be added as necessary)

*None.*

Fermi 2 Seismic Walkdown Guideline  
Area Walk-By-Checklist

NJPR-12-0043

Sheet 3 of 3  
Status:  N  U

Area Walk-By Checklist (AWC)

AB3-3

Assets: R32 005020C

Location: Bldg. AB3 Floor El. 643'-6" Room, Area<sup>1</sup> B-20, near Col. G-11

Seismic Engineer Walkdown PSE-53 Qualified

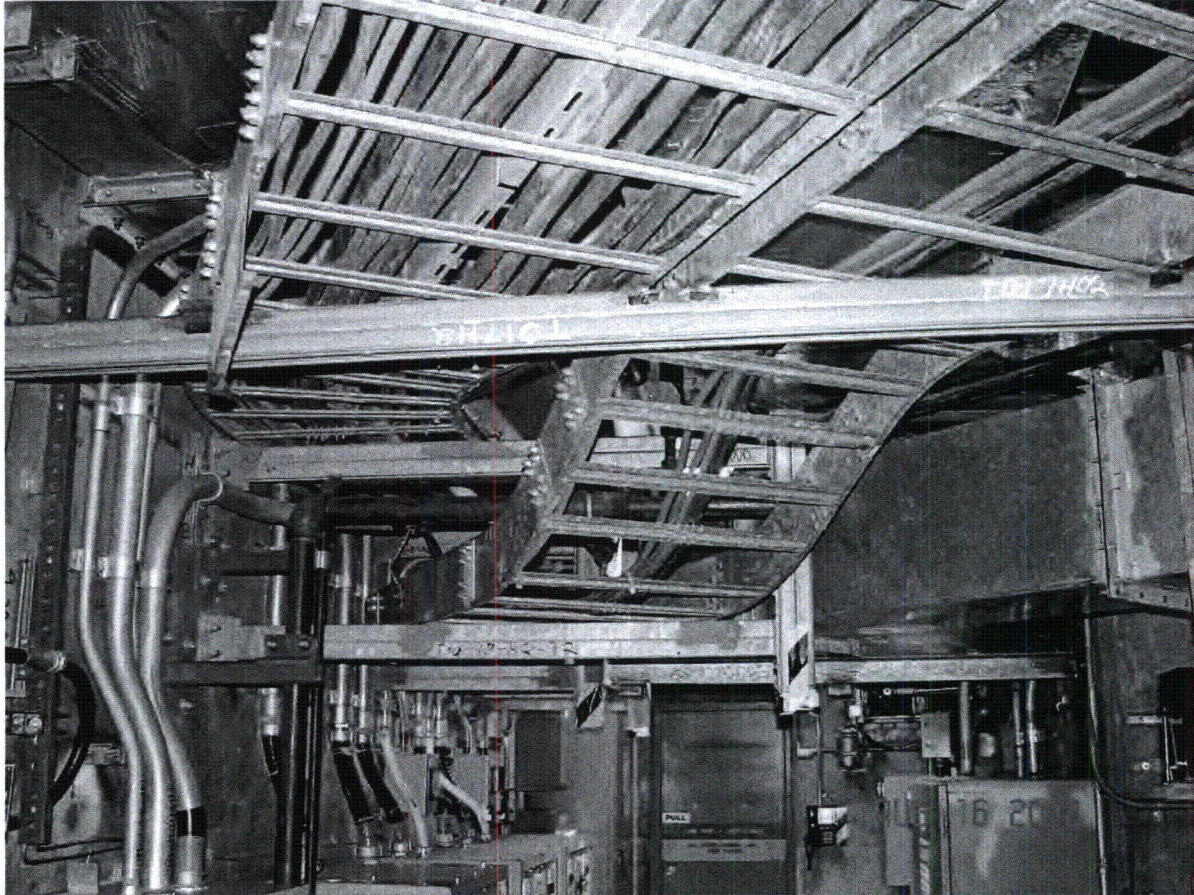
Evaluator #1: David G. Dickin Date: 16th August 2012

Seismic Engineer Walkdown PSE-53 Qualified

Evaluator #2: Joseph M. Falke Date: 08/16/2012



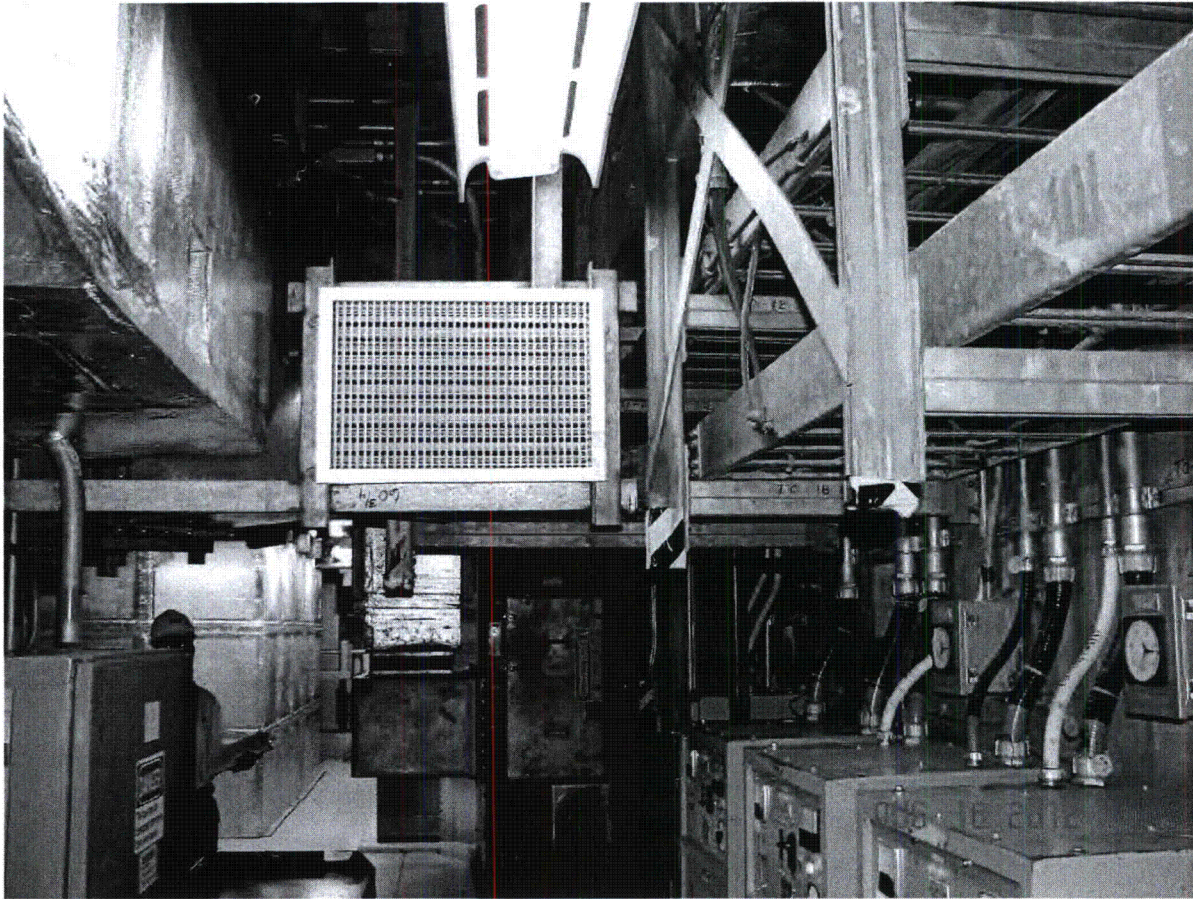
Location: Bldg. AB3 Floor El. 643'-6" Room, Area B-20, near Col. G-11



(DSC00074)

Overhead Cable Trays and HVAC Ducts

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



(DSC00075)

Overhead Cable Trays, HVAC Ducts and Light

**Area Walk-By Checklist (AWC)**

Assets: T4100C009, T4100B044

Location: Bldg. AB Floor El. 653'-0" Room, Area<sup>1</sup> B-22W, Div. II Battery 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

*Equipment mounted to floor, walls and ceiling are adequately supported.*

(See Photo DSCN0151)

JAM  
10/11/12

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

*All anchors observed look new or show no signs of significant degradation.*

(See Photo DSCN0151)

JAM  
10/11/12

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

*HVAC and cable trays/conduits are seismically supported.*

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

*Light contacts filter frame. Frame is very robust and light will not damage fan or filter (T4100B044).*

(See Photo DSCN0152)

JAM  
10/11/12

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

JML

**Area Walk-By Checklist (AWC)**

Assets: T4100C009, T4100B044

Location: Bldg. AB Floor El. 653'-0" Room, Area<sup>1</sup> B-22W, Div. II Battery Room

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

*All piping is robust & supported seismically.*

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

*Combustible loading is small. Area appears free of adverse seismic interactions that could cause a fire.*

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

*No portable equipment.*

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

**Comments** (Additional pages may be added as necessary)

*None*

Fermi 2 Seismic Walkdown Guideline  
Area Walk-By-Checklist

NJPR-12-0043

Sheet 3 of 3  
Status:  Y  N  U

Area Walk-By Checklist (AWC)

AB3-4

ASSETS: T4100C009

DIV II

Location: Bldg. AB Floor El. 653'-0" Room, Area EMERG COOLING BATTERY CHARGER (B-22w)

Seismic Engineer Walkdown PSE-53 Qualified

Evaluator #1: David G. Dickens Date: 8/8/2012

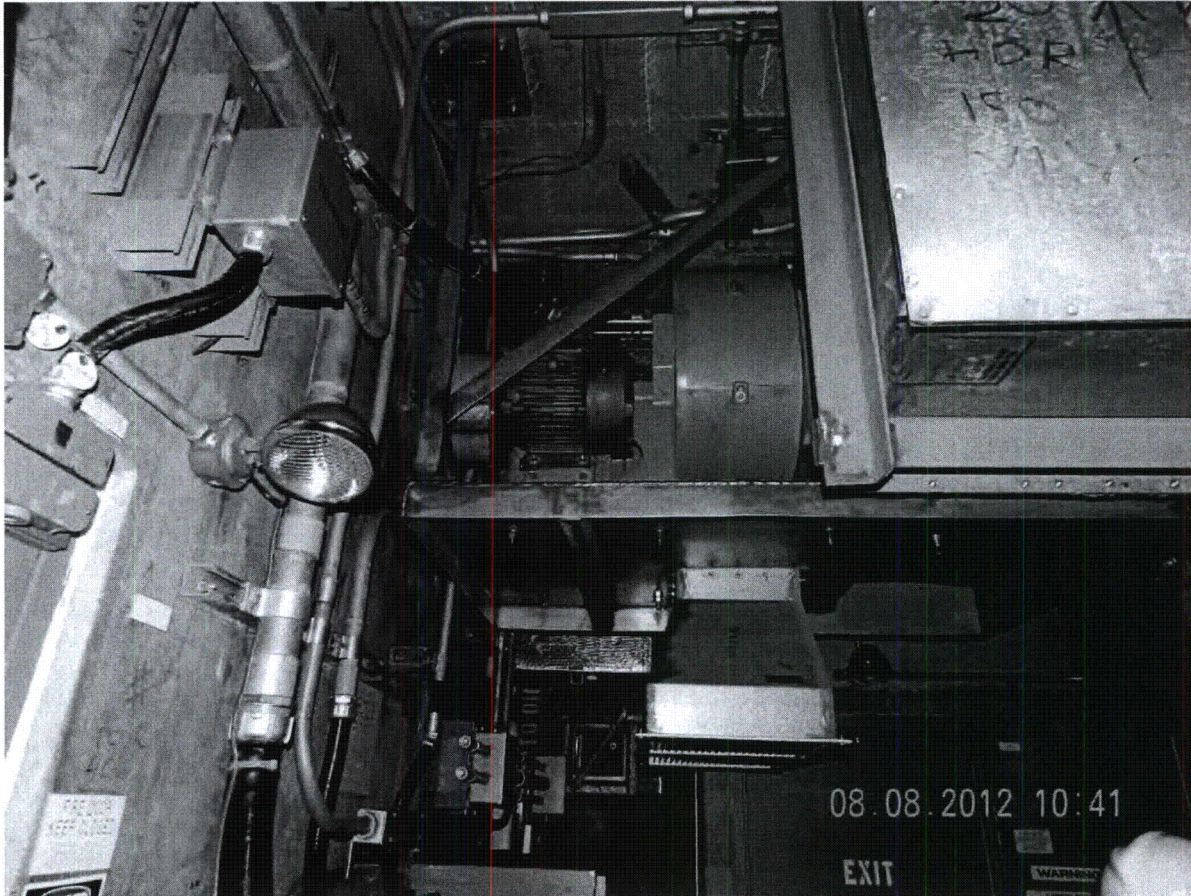
Seismic Engineer Walkdown PSE-53 Qualified

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

Area Walk-By Pictures

AB3-4

Location: Bldg. AB Floor El. 653'-0" Room, Area B-22W, Div. II Battery Room

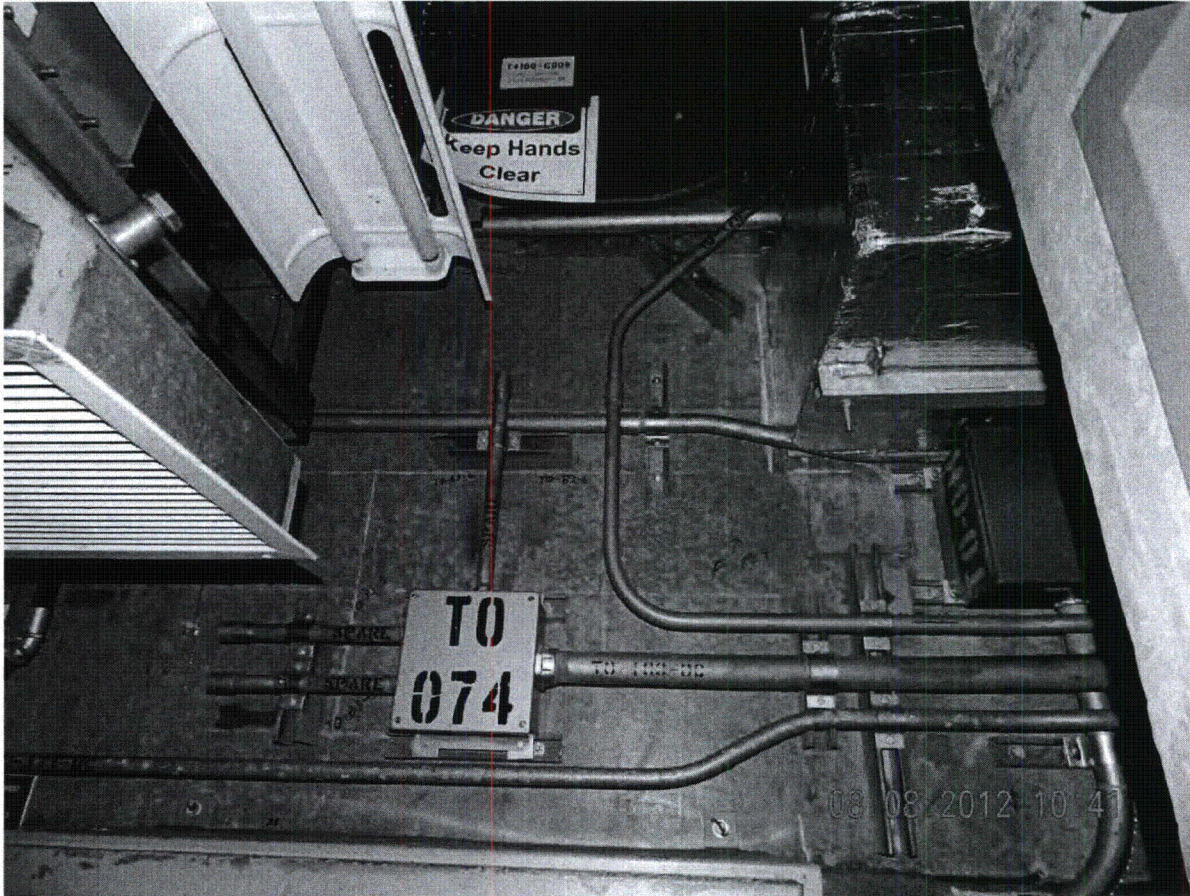


(DSCN0151)

Area Walk-By Pictures

AB3-4

Location: Bldg. AB Floor El. 653'-0" Room, Area B-22W, Div. II Battery Room



(DSCN0152)

**Area Walk-By Checklist (AWC)**

Assets: H21P080

Location: Bldg. AB Floor El. 659'-6" Room, Area<sup>1</sup> Ventilation Equipment Area (B-24)

**Instructions for Completing Checklist**

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

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

*Equipment anchored to floor or wall. Conduit and piping seismically supported. Block wall seismically supported with brown steel and through bolts.*

*(See Photo DSCN0485, DSCN0487 and DSCN0489)*

JAM  
12/1/12

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

*All anchors observed look "new".*

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

*HVAC & Cable tray / conduit seismically supported.*

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

*No ceiling tiles. Lights supported by chains and redundant cable.*

*(See Photo DSCN0488 and DSCN0493)*

JAM  
12/1/12

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

JML



Fermi 2 Seismic Walkdown Guideline  
Area Walk-By-Checklist

NJPR-12-0043

Sheet 2 of 3  
Status:  Y  N  U

AB4-1

**Area Walk-By Checklist (AWC)**

Assets: H21P080

Location: Bldg. AB Floor El. 659'-6" Room, Area<sup>1</sup> Ventilation Equipment Area (B-24)

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

*Pipes in the area are supported seismically. Area has hose reels – not a risk for flooding water will drain down the stairs.*

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

*Low fire risk area – no combustibles 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

*Tool box and ladders correctly stored and restrained.*

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

Comments (Additional pages may be added as necessary)

*None.*

Fermi 2 Seismic Walkdown Guideline  
Area Walk-By-Checklist

NJPR-12-0043

Sheet 3 of 3  
Status:  Y  N  U

Area Walk-By Checklist (AWC)

ABH-1

ASSETS: H21-P080

Location: Bldg. AB Floor El. 659'-6" Room, Area 1 VENTILATION EQUIPMENT AREA

Seismic Engineer Walkdown PSE-53 Qualified

Evaluator #1: David C. Dickson Date: 16th August 2012

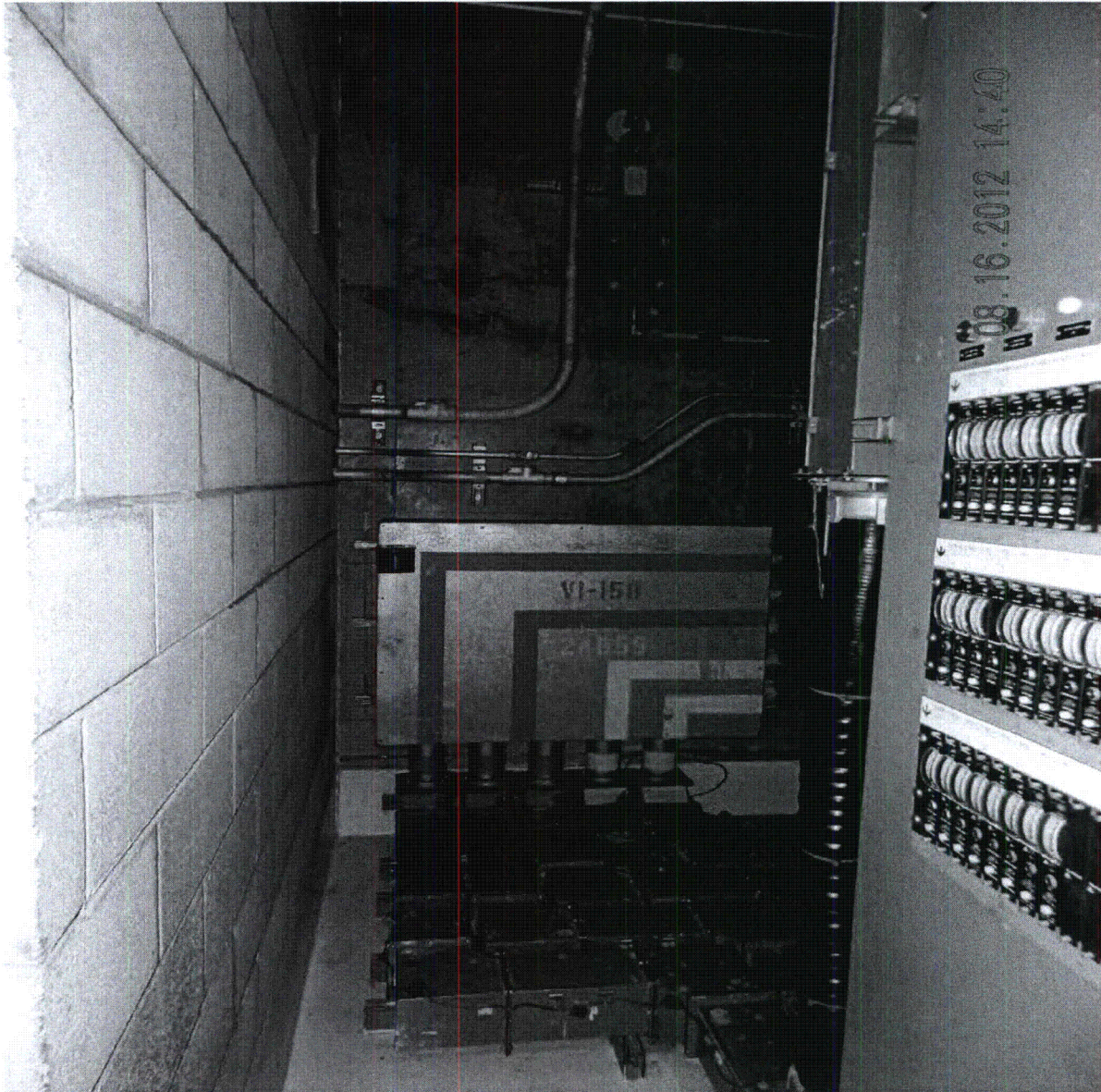
Seismic Engineer Walkdown PSE-53 Qualified

Evaluator #2: Joseph M. Palere Date: 08/16/2012

Area Walk-By Pictures

AB4-1

Location: Bldg. AB Floor El. 659'-6" Room, Area Ventilation Equipment Area (B-24)

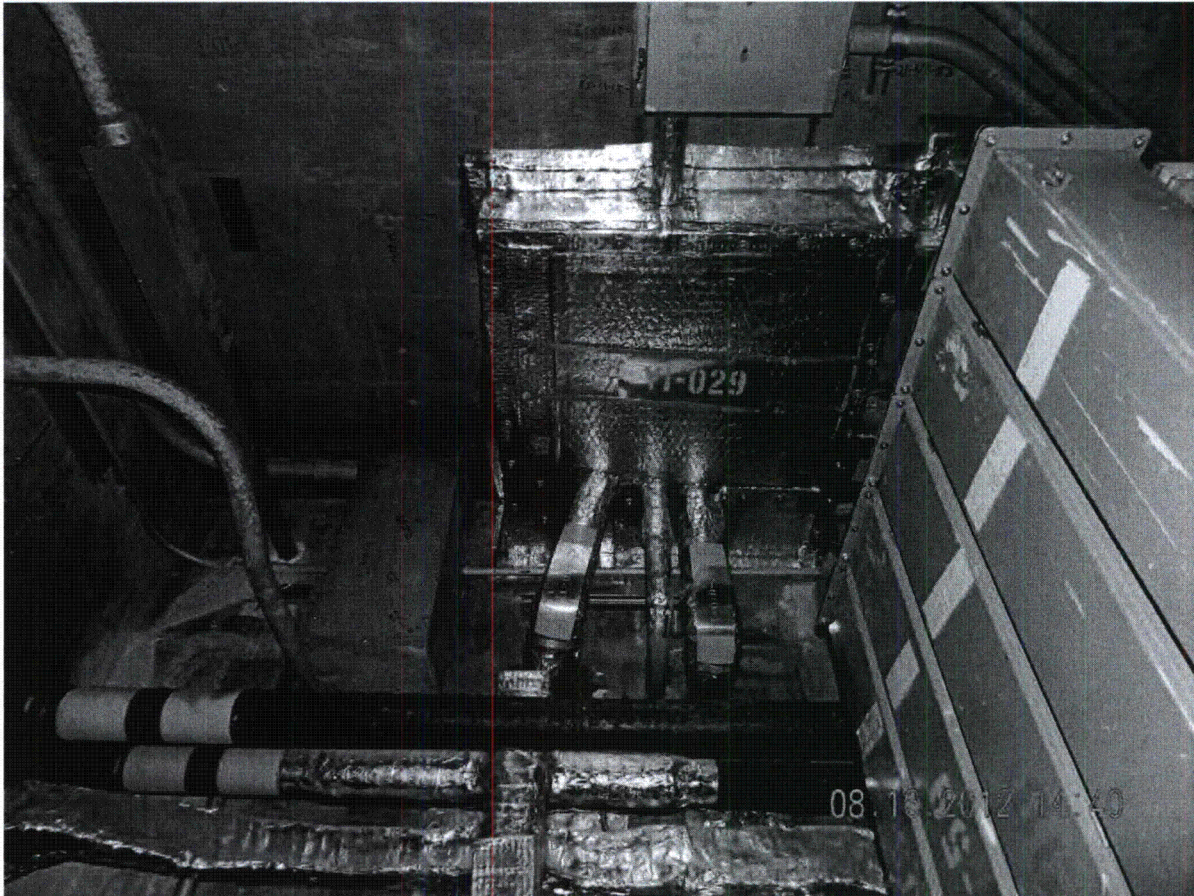


(DSCN0485)

Area Walk-By Pictures

AB4-1

Location: Bldg. AB Floor El. 659'-6" Room, Area Ventilation Equipment Area (B-24)

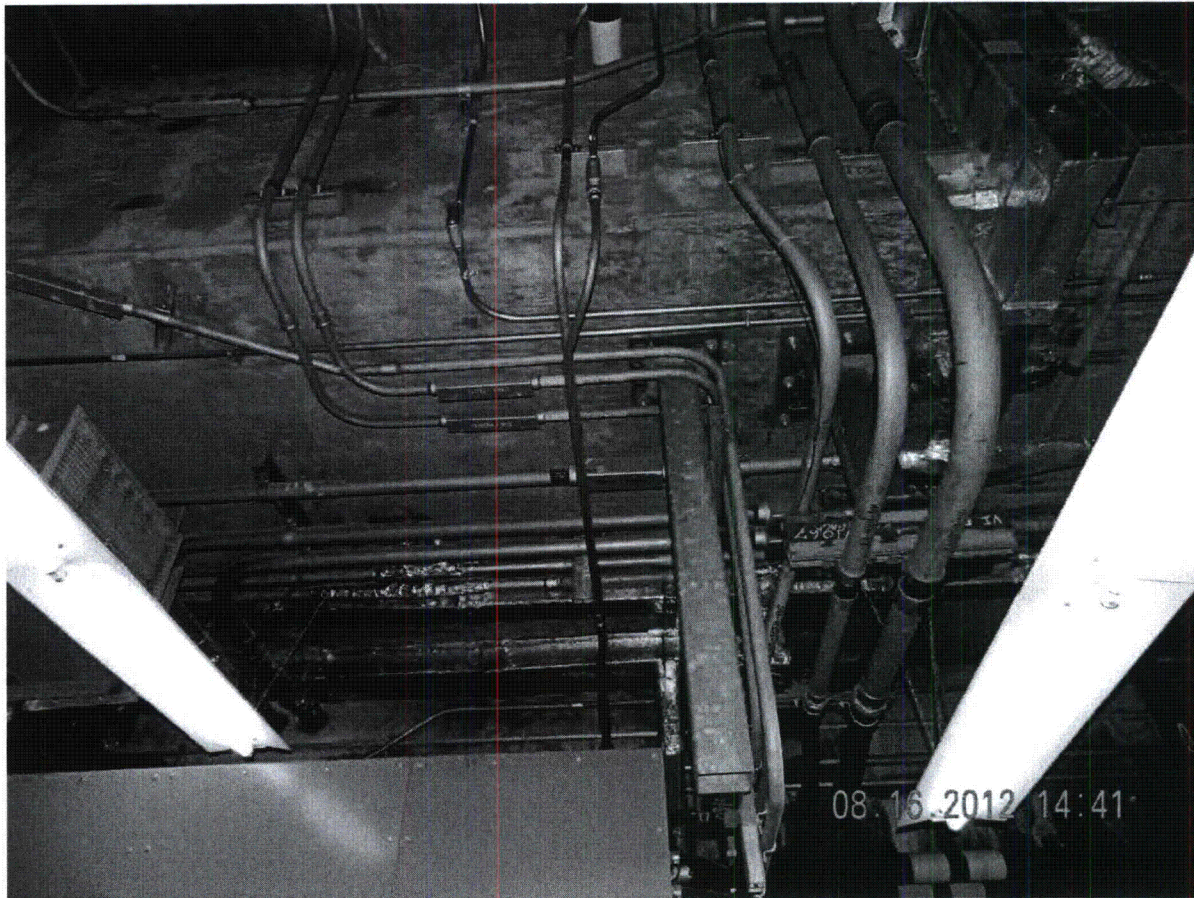


(DSCN0487)

Area Walk-By Pictures

AB4-1

Location: Bldg. AB Floor El. 659'-6" Room, Area Ventilation Equipment Area (B-24)

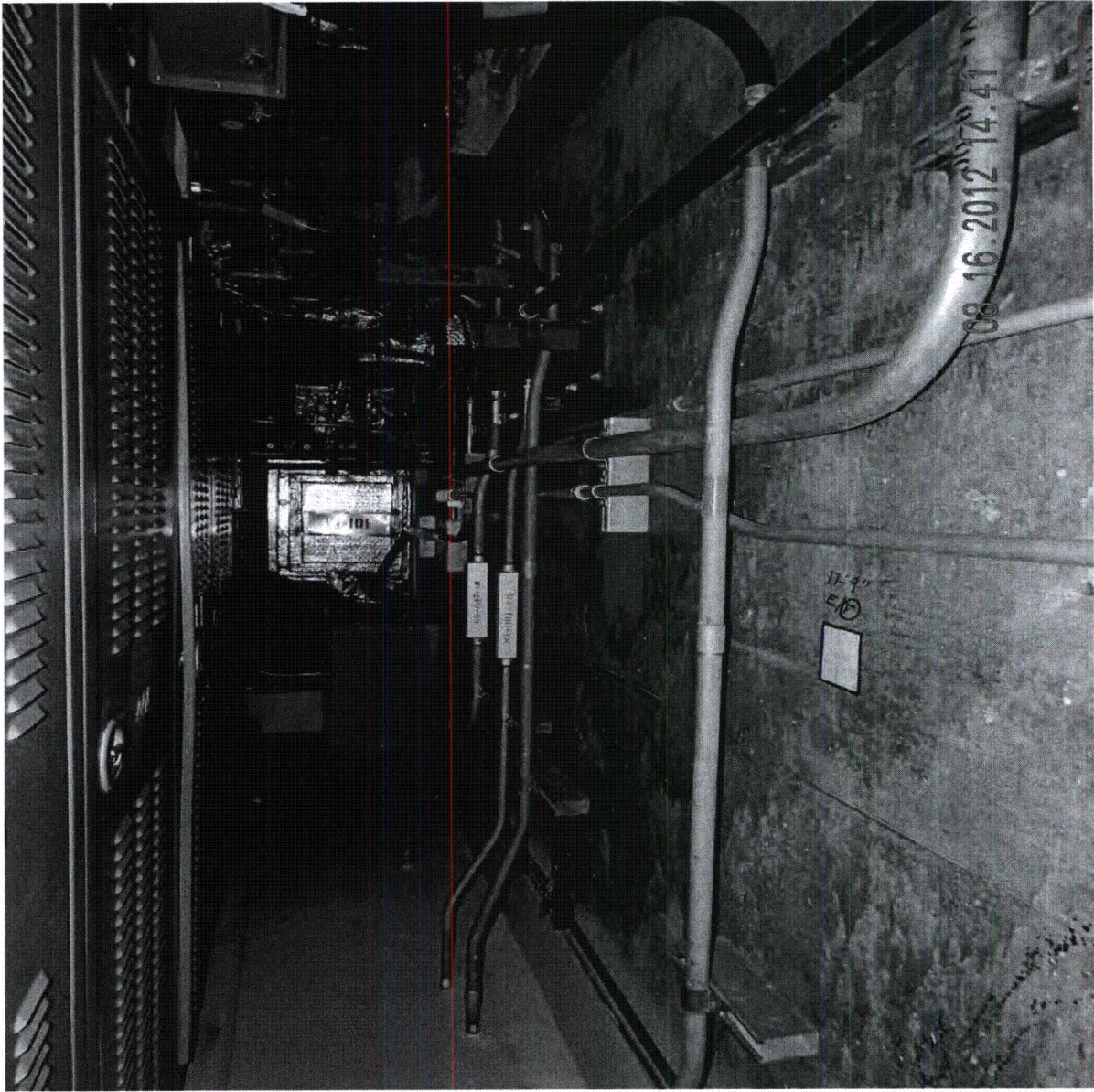


(DSCN0488)

Area Walk-By Pictures

AB4-1

Location: Bldg. AB Floor El. 659'-6" Room, Area Ventilation Equipment Area (B-24)



(DSCN0489)

**Area Walk-By Pictures**

**AB4-1**

Location: Bldg. AB Floor El. 659'-6" Room, Area Ventilation Equipment Area (B-24)



(DSCN0493)

Fermi 2 Seismic Walkdown Guideline  
Area Walk-By-Checklist

NJPR-12-0043

Sheet 1 of 3  
Status: (Y) N U

AB4-2

**Area Walk-By Checklist (AWC)**

Assets: H21P081, H21P083, H21P085, H21P087

Location: Bldg. AB Floor El. 659'-6" Room, Area<sup>1</sup> A-34, Col. F-11

**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

*All Equipment and Duct supports are of a robust seismic nature (see photos DSCN0245 & 0248)*

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

*Bolting of equipment in area is corrosion free or painted.*

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

*Ductwork, conduits & Cable raceways (No cable trays) are seismically supported or wall mounted and rigid. Adequate Flex conduit connections to cabinet (see photos DSCN0247, 0244 & 0249)*

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

*No ceiling tiles in the area. Lights are supported with 2 chains and 1 extra cable @ each end. Lights are over 1'-0" away, therefore not a rattle space issue. (see photo DSCN0248)*

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



**Area Walk-By Checklist (AWC)**

Assets: H21P081, H21P083, H21P085, H21P087

Location: Bldg. AB Floor El. 659'-6" Room, Area<sup>1</sup> A-34, Col. F-11

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

*Since a nearby open stairwell acts as a floor drain flooding is not a problem in this 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 gas cylinders are seismically supported. The wall east of the panels isolates the panels from the rest of the area and serves as a fire wall.*

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

*No temporary items in the area. Ladders around the corner and in front of the stairs leading up to the next level are seismically supported. (see photo DSCN0243)*

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

*CMU block walls to the north (Stairwell walls) and to the south (Room FIO walls) are seismically retrofitted. (see DSCN0237 & 0252)*

**Comments** (Additional pages may be added as necessary)

*None*

Fermi 2 Seismic Walkdown Guideline  
Area Walk-By-Checklist

NJPR-12-0043

Sheet 3 of 3  
Status:  Y  N  U

AB4-2

**Area Walk-By Checklist (AWC)**

Assets: H21P081, H21P083, H21P085, H21P087

Location: Bldg. AB Floor El. 659'-6" Room, Area<sup>1</sup> A-34, Col. F-11

Seismic Engineer Walkdown PSE-53 Qualified

Evaluator #1: *R. Gowadhari* Date: 10-4-2012

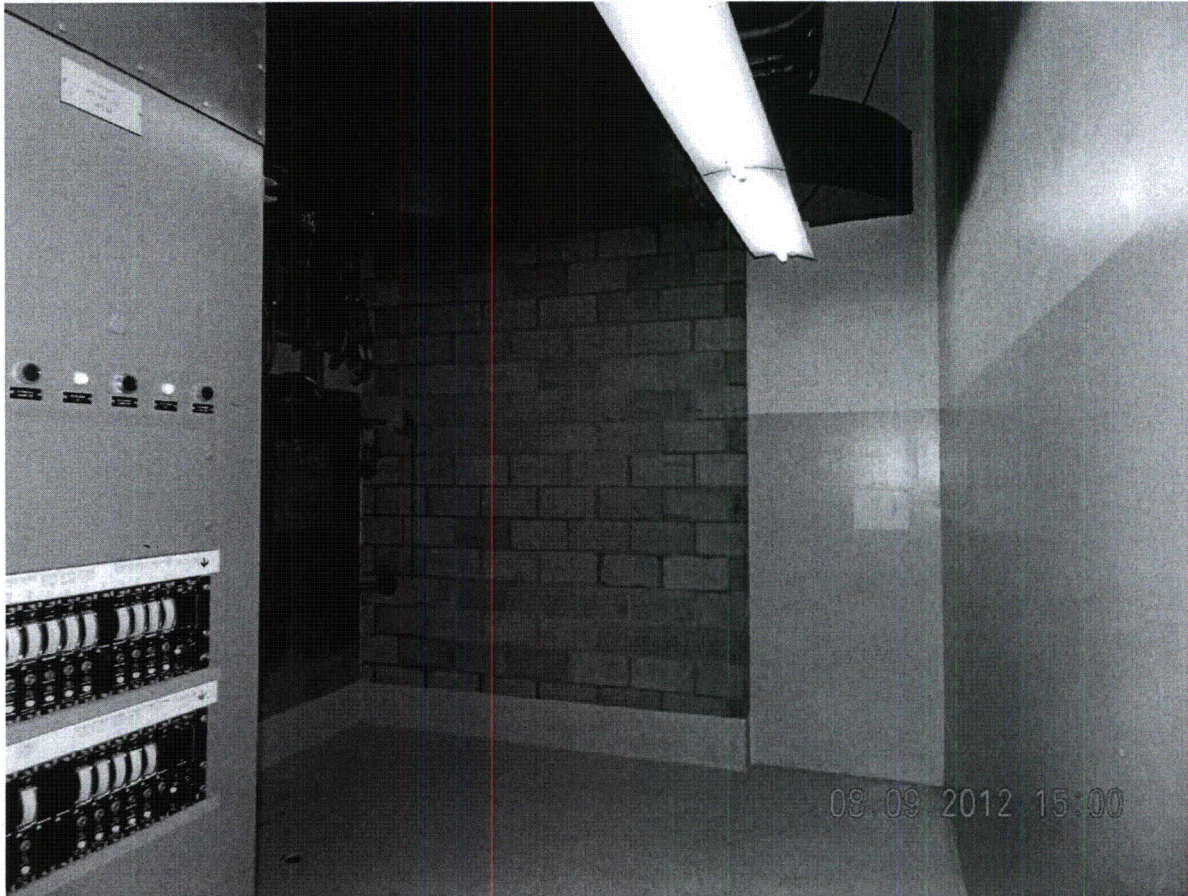
Seismic Engineer Walkdown PSE-53 Qualified

Evaluator #2: *Joseph M. DeW* Date: 10/04/2012

Area Walk-By Pictures

AB4-2

Location: Bldg. AB Floor El. 659'-6" Room, Area A-34 / Col. F-11



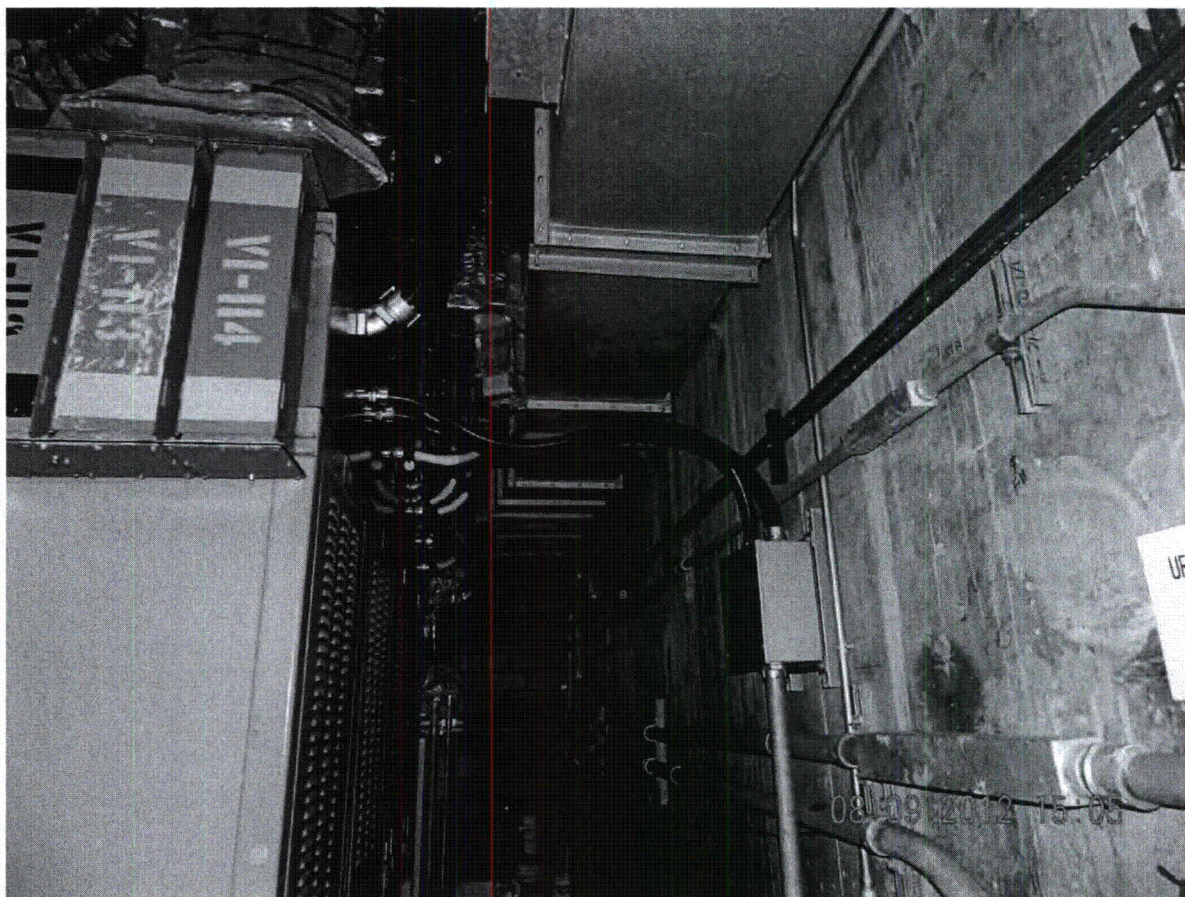
(DSCN0237)

CMU Block Walls – Seismically Reinforced

Area Walk-By Pictures

AB4-2

Location: Bldg. AB Floor El. 659'-6" Room, Area A-34 / Col. F-11



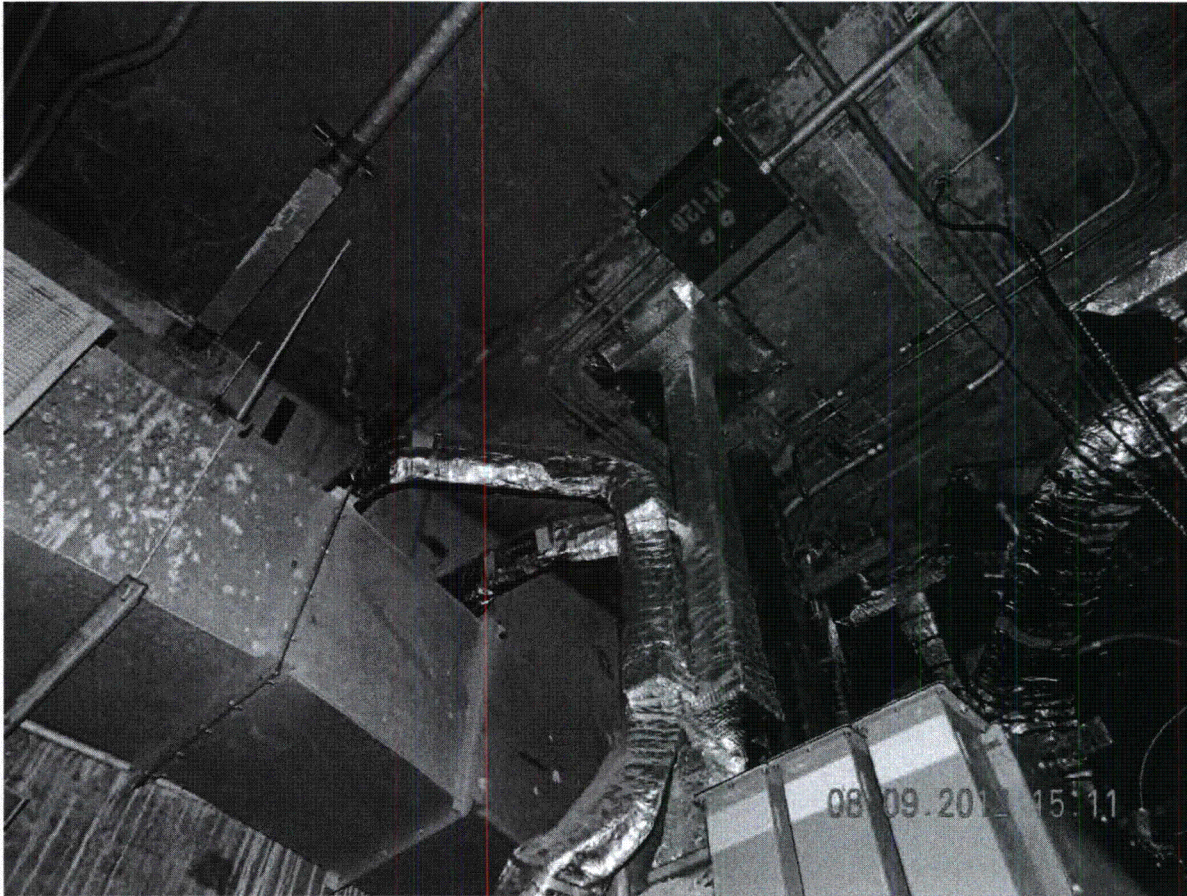
(DSCN0244)

HVAC and Raceways in the Area

Area Walk-By Pictures

AB4-2

Location: Bldg. AB Floor El. 659'-6" Room, Area A-34 / Col. F-11



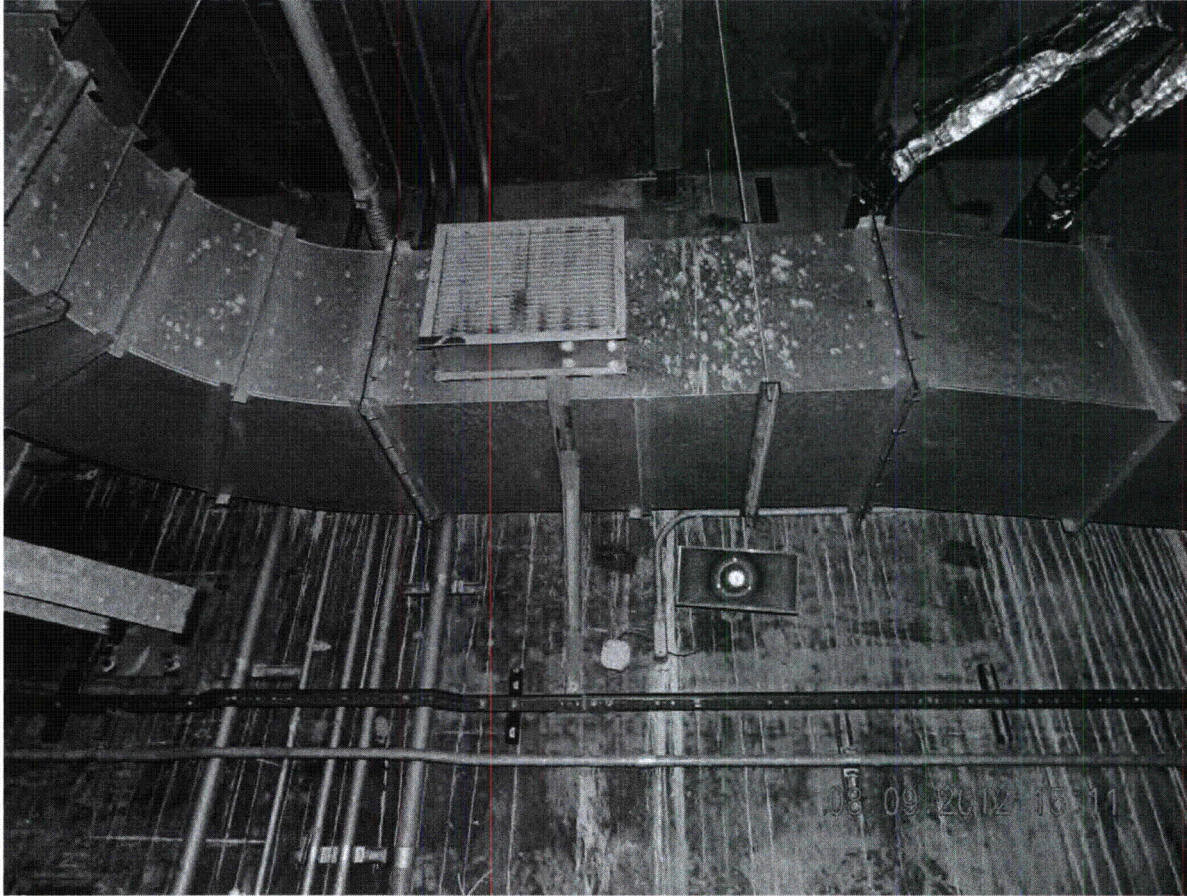
(DSCN0245)

HVAC, Raceways & Equipment Adequately Anchored to Slab or the Walls

Area Walk-By Pictures

AB4-2

Location: Bldg. AB Floor El. 659'-6" Room, Area A-34 / Col. F-11



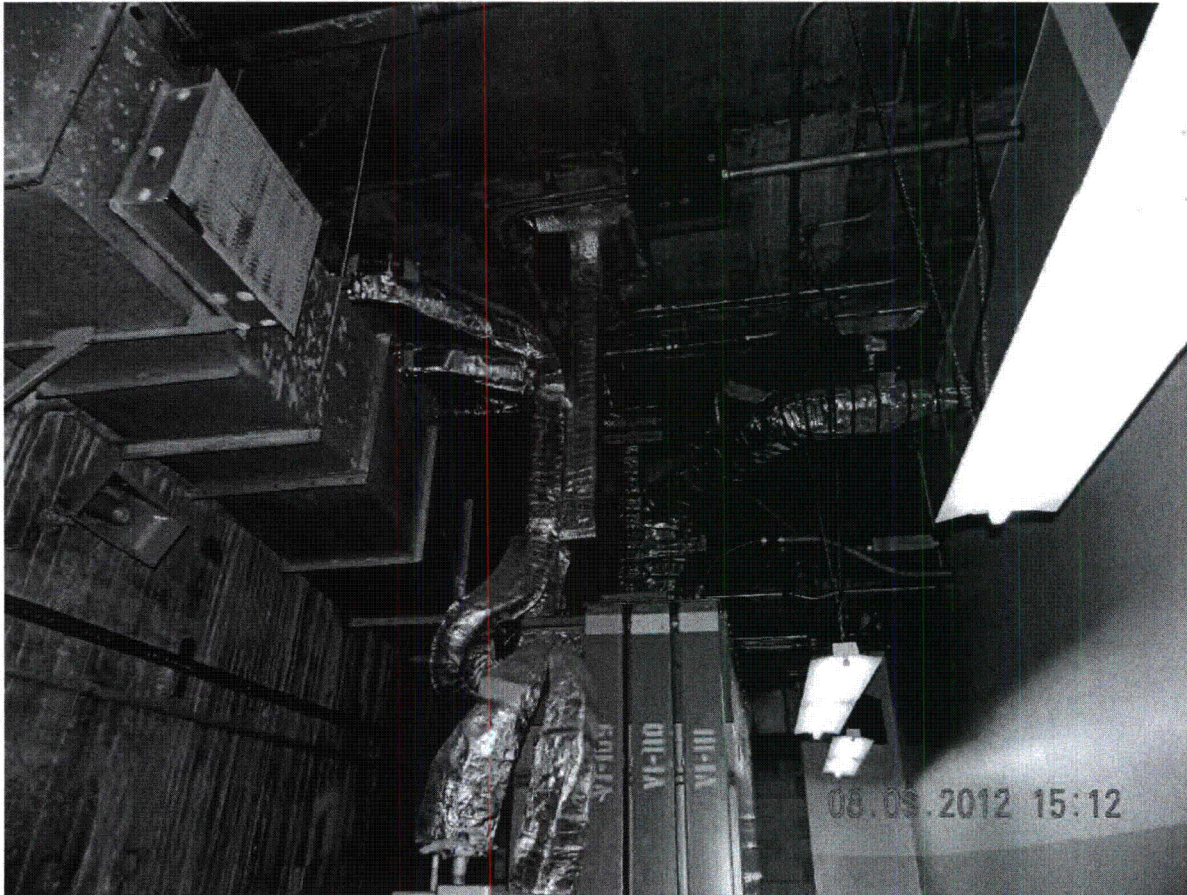
(DSCN0247)

HVAC and Raceways Adequately Supported

Area Walk-By Pictures

AB4-2

Location: Bldg. AB Floor El. 659'-6" Room, Area A-34 / Col. F-11



(DSCN0248)

HVAC, Raceways & Equipment Anchored Adequately to the Walls & Slab

Area Walk-By Pictures

AB4-2

Location: Bldg. AB Floor El. 659'-6" Room, Area A-34 / Col. F-11



(DSCN0249)

HVAC and Raceways are Adequately Supported in the Area



Area Walk-By Pictures

AB4-2

Location: Bldg. AB Floor El. 659'-6" Room, Area A-34 / Col. F-11



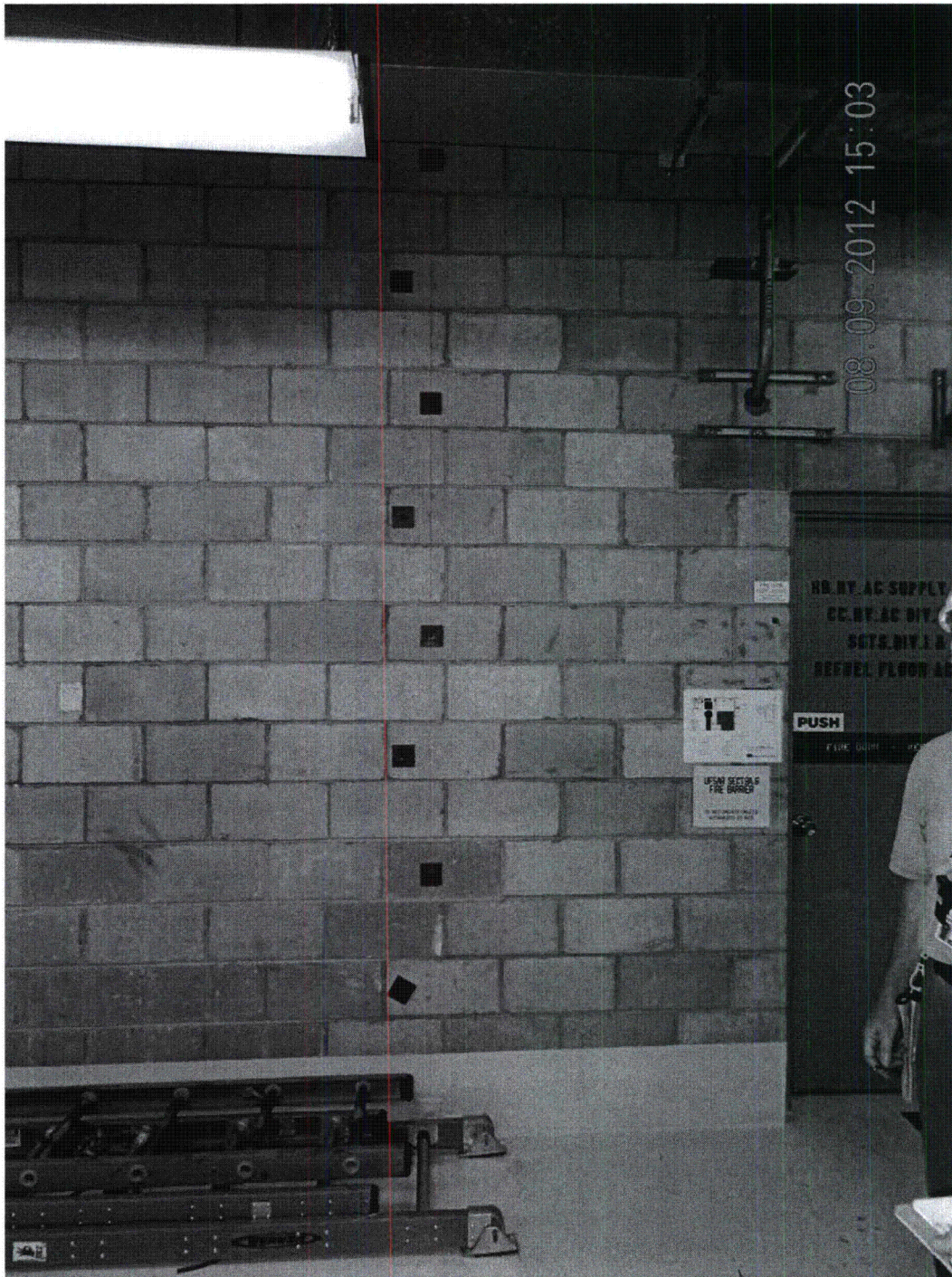
(DSCN0252)

CMU Block Walls – Reinforced Seismically

Area Walk-By Pictures

AB4-2

Location: Bldg. AB Floor El. 659'-6" Room, Area A-34 / Col. F-11



(DSCN0243)

Ladders Adequately Supported. CMU Block Walls – Reinforced Seismically

Fermi 2 Seismic Walkdown Guideline  
Area Walk-By-Checklist

NJPR-12-0043

Sheet 1 of 3  
Status:  Y  N  U

AB4-3

**Area Walk-By Checklist (AWC)**

Assets: T4100F041

Location: Bldg. AB Floor El. 670'-0" Room, Area<sup>1</sup> B-24, Col. H-12

**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

*Duct supports, IA supports and cabinets all seismically supported.  
T4100B046 & B045 are robustly supported.*

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

*All anchors observed look new or show no signs of significant degradation.*

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

*Duct on line H on Rod Hangers & Lateral supports. Ok by (EJ) 17'6" from T4100F041, and same elevation.*

*(See Photo DSC00083 and DSC00084)* JAM 10/11/12

ENGINEERING JUDGEMENT

*JP 10/10/12*

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

*No ceiling tiles. Lights hung from chains with redundant cable.*

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

**Area Walk-By Checklist (AWC)**

Assets: T4100F041

Location: Bldg. AB Floor El. 670'-0" Room, Area<sup>1</sup> B-24, Col. H-12

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

*T4100B046 – compressors robustly supported. Any flooding would flow into equipment hatch.*

*(See Photo DSC00087)*

JAM  
10/11/12

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

*Clean room. Area appears free of adverse seismic interactions that could cause a fire.*

*(See Photo DSC00081, DSC00082 and DSC00088)*

JAM  
10/11/12

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

*No staged equipment.*

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

**Comments** (Additional pages may be added as necessary)

*Water lines above panel 72C-3B & PIS-H21-P376 Div I on rod hangers. Pipes go to valves P50-F106 V23-2058 – Station AVR & P800-F092 – FP and Hose Reel – Pipes are robustly supported, and would not cause serious flooding in the area.*

*(See Photo DSC00089)*

JAM  
10/11/12

Fermi 2 Seismic Walkdown Guideline  
Area Walk-By-Checklist

NJPR-12-0043

Sheet 3 of 3  
Status: Y N U

Area Walk-By Checklist (AWC)

AB4-3

ASSETS: T4100FO41

Location: Bldg. AB Floor El. 670'-0" Room, Area' HVAC ROOM (B-24) Col. H-11

Seismic Engineer Walkdown PSE-53 Qualified

Evaluator #1: David G. Dickerson Date: 16th August 2012

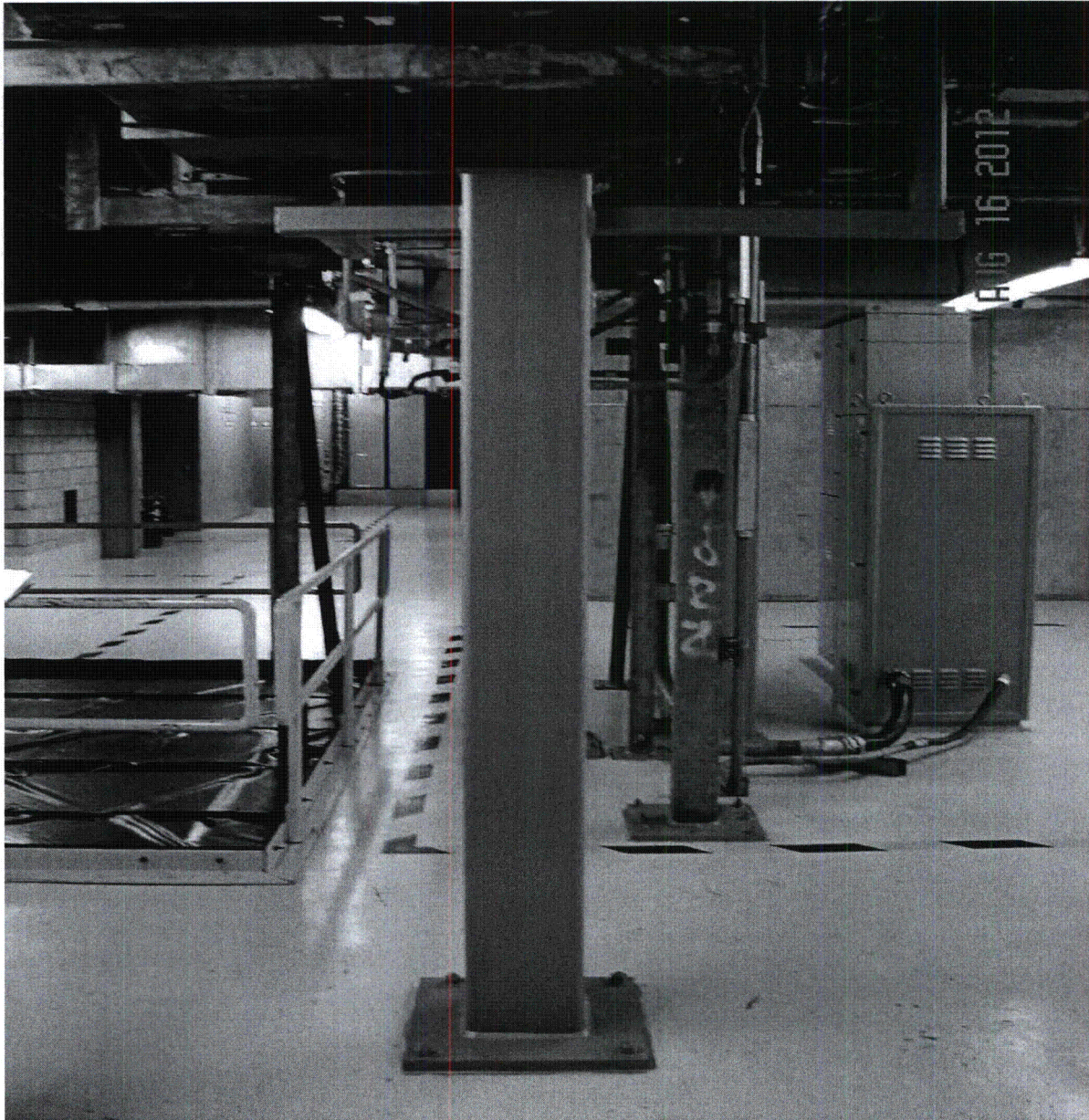
Seismic Engineer Walkdown PSE-53 Qualified

Evaluator #2: Joseph McAllen Date: 08/16/2012

Area Walk-By Pictures

AB4-3

Location: Bldg. AB Floor El. 670'-0" Room, Area B-24, Col. H-12

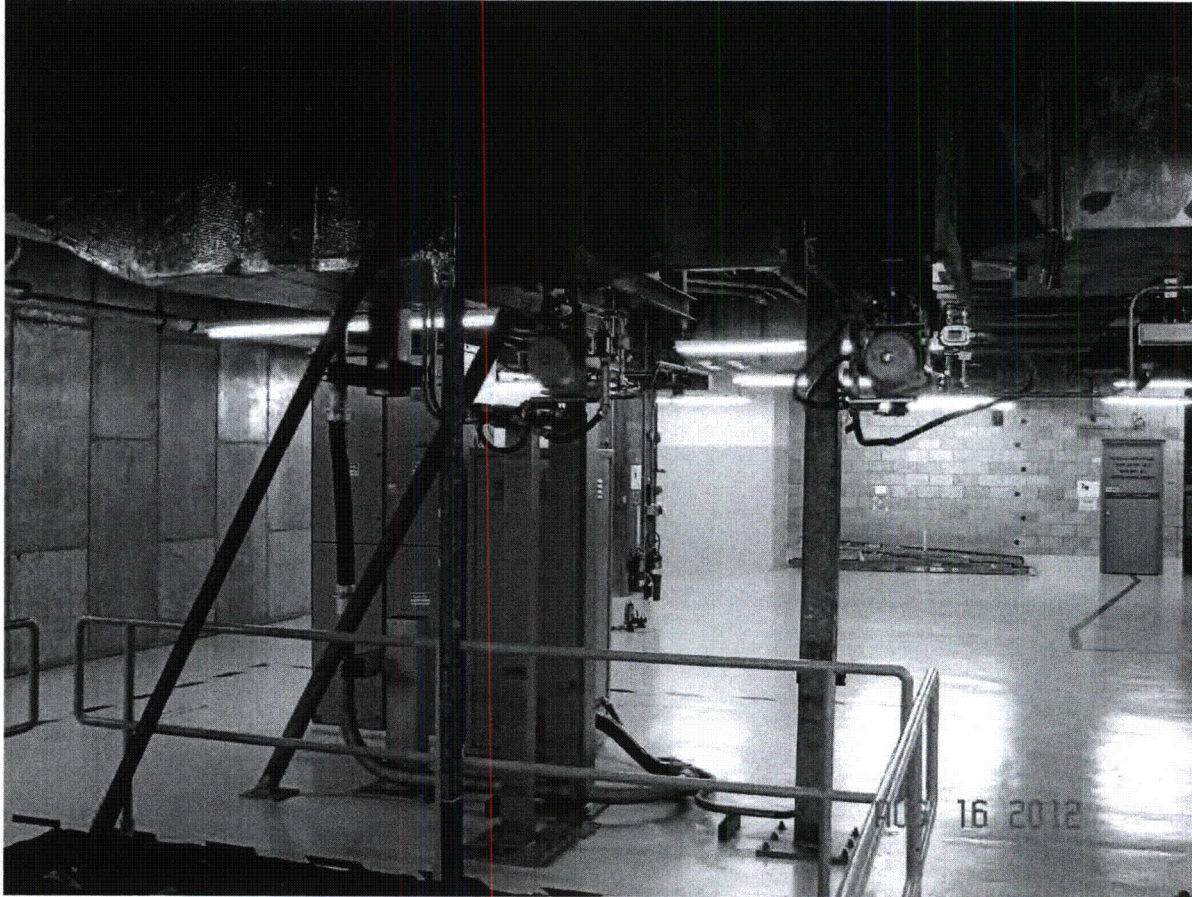


(DSC00081)

Area Walk-By Pictures

AB4-3

Location: Bldg. AB Floor El. 670'-0" Room, Area B-24, Col. H-12

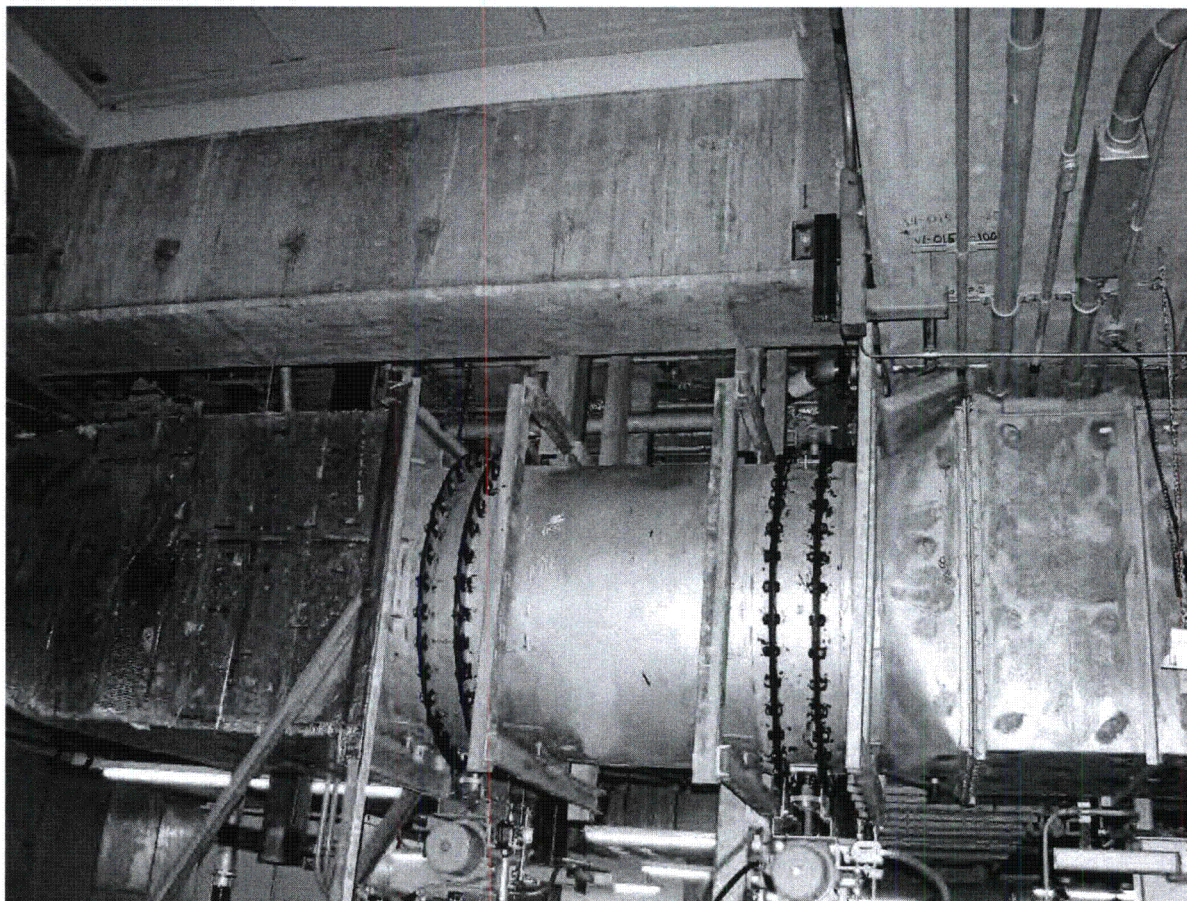


(DSC00082)

Area Walk-By Pictures

AB4-3

Location: Bldg. AB Floor El. 670'-0" Room, Area B-24, Col. H-12



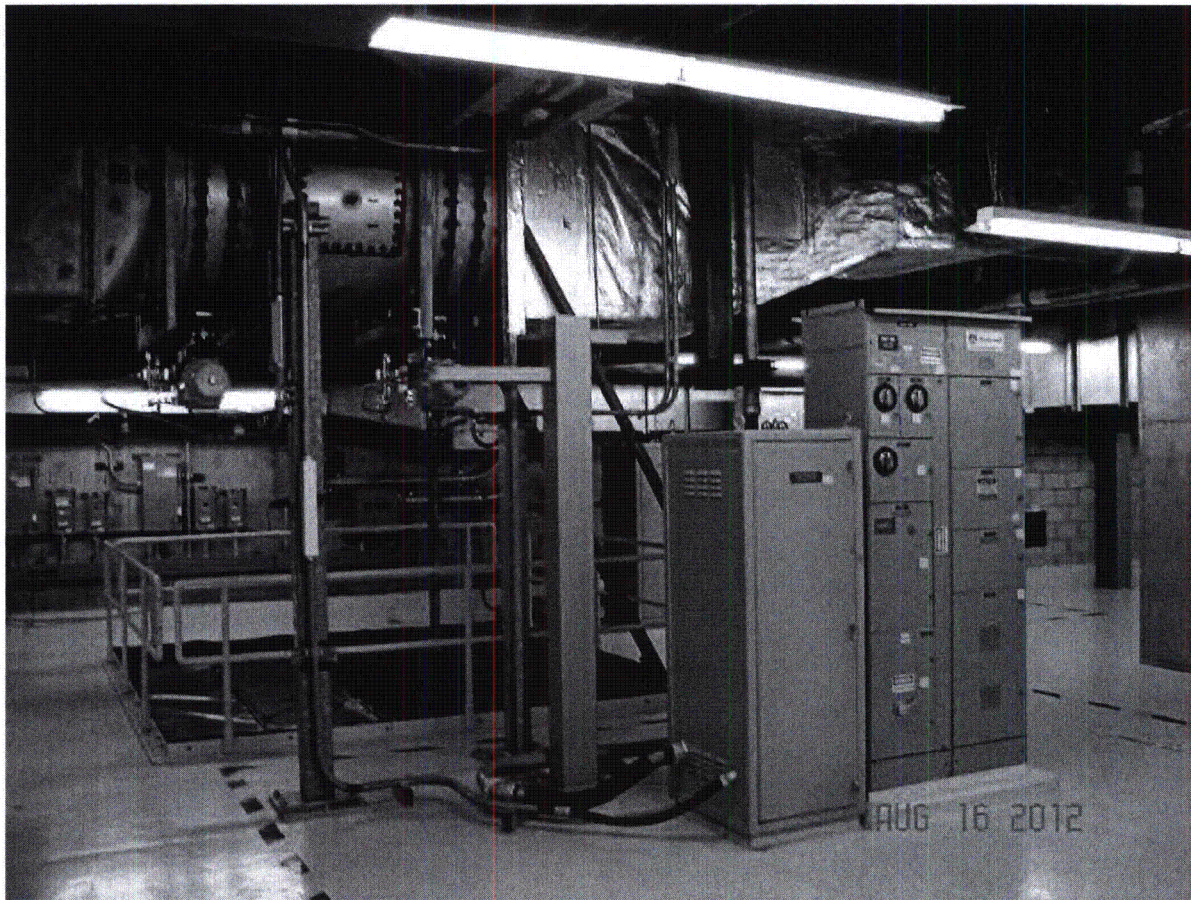
(DSC00083)



Area Walk-By Pictures

AB4-3

Location: Bldg. AB Floor El. 670'-0" Room, Area B-24, Col. H-12

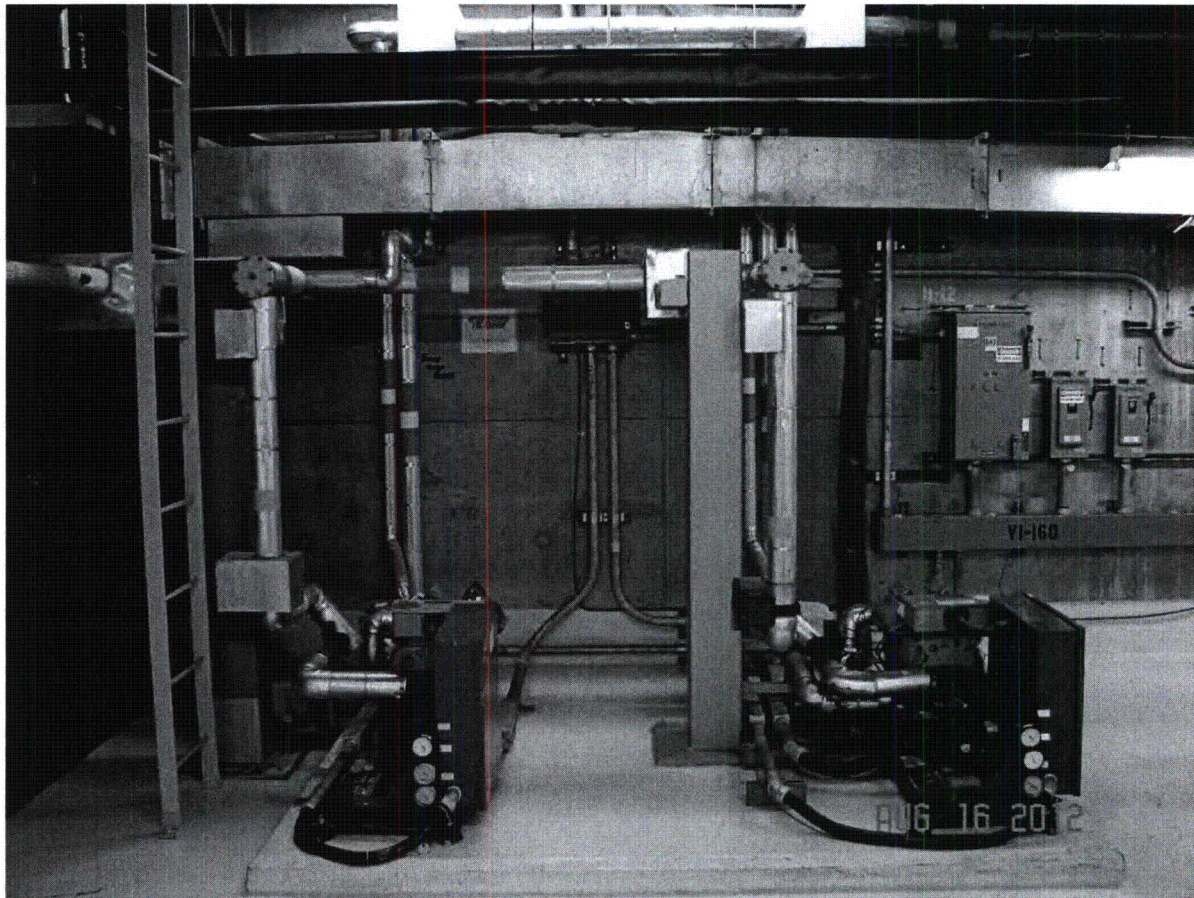


(DSC00084)

Area Walk-By Pictures

AB4-3

Location: Bldg. AB Floor El. 670'-0" Room, Area B-24, Col. H-12

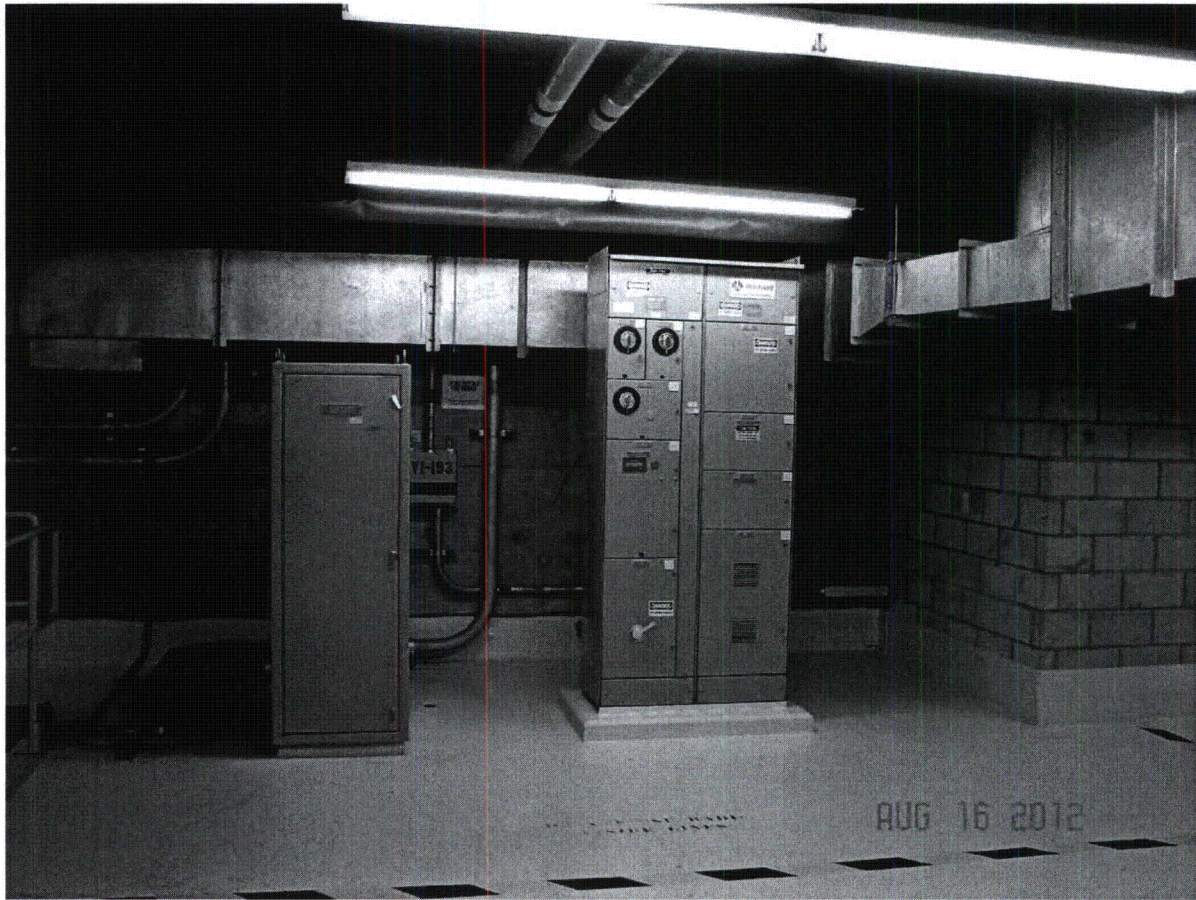


(DSC00087)

Area Walk-By Pictures

AB4-3

Location: Bldg. AB Floor El. 670'-0" Room, Area B-24, Col. H-12

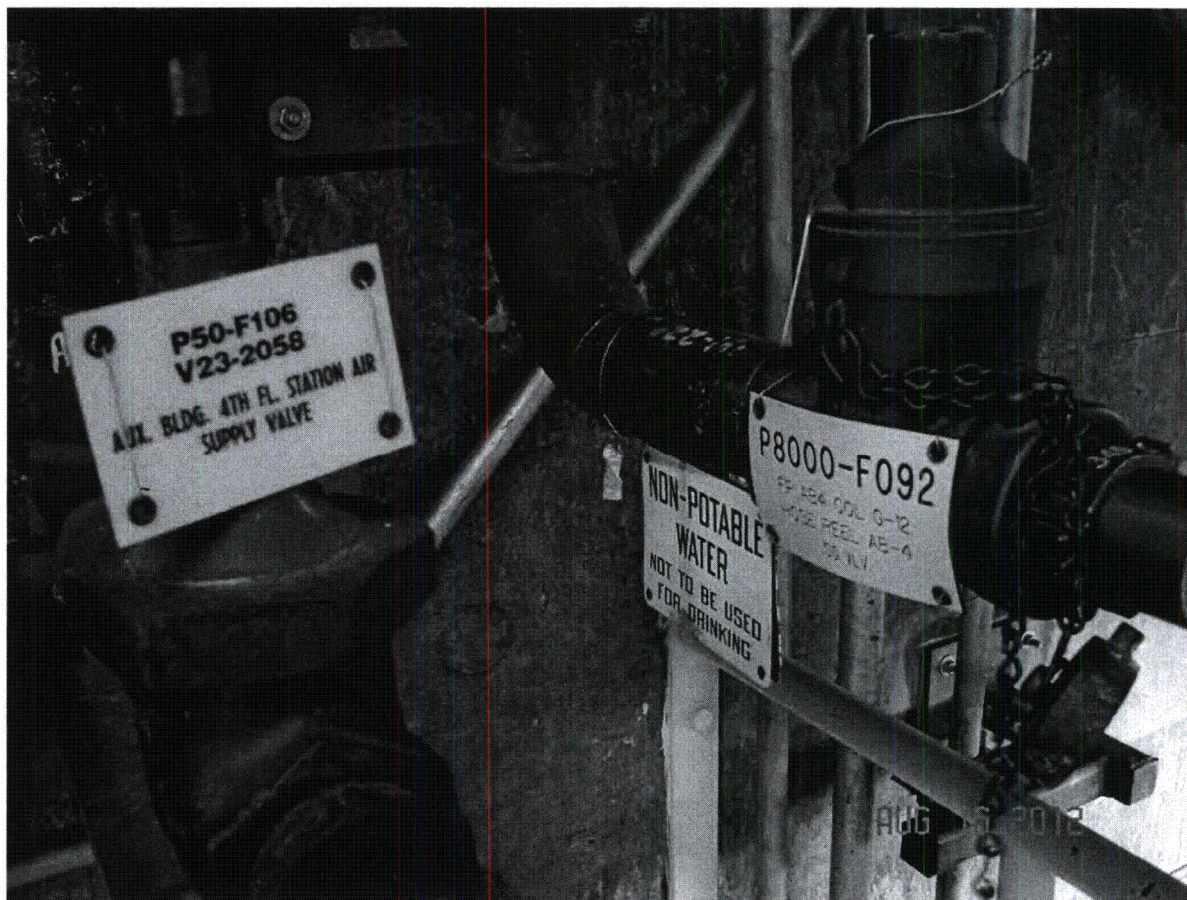


(DSC00088)

Area Walk-By Pictures

AB4-3

Location: Bldg. AB Floor El. 670'-0" Room, Area B-24, Col. H-12



(DSC00089)

**Area Walk-By Checklist (AWC)**

Assets: *H21P296A, T4100B009, T41F101A*

Location: Bldg. AB Floor El. 677'-6" Room, Area<sup>1</sup> HVAC Equip. Room(B-27A)

**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

*Crowded area. Everything has massive supports or anchorage – room is seismically acceptable. (See photo DSCN0496, DSCN0502 and DSCN0512)*

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

*Anchors are all good.*

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

*HVAC fan robustly supports, ducts are robust and strong, seismically acceptable. (See photo DSCN0510)*

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

*No ceiling tiles, lights have chains with redundant cable. (See photo DSCN0500 and DSCN0502)*

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

JML

Ferri 2 Seismic Walkdown Guideline  
Area Walk-By-Checklist

NJPR-12-0043

Sheet 2 of 3  
Status: Y  N  U

AB5-1

**Area Walk-By Checklist (AWC)**

Assets: H21P296A, T4100B009, T41F101A

Location: Bldg. AB Floor El. 677'-6" Room, Area<sup>1</sup> HVAC Equip. Room (B-27A)

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

*Water piping to chiller is seismic. (See photo DSCN0495) Floor drain stand-pipe located by T4100B009 is shown extending 1-1/2" above the floor per Detail D1 of Dwg. M-2221, Rev. Q. Field condition reflects the floor drain stand-pipe extending 8-1/2" above the floor. CARD 12-27556 was written to address this "As-Built" condition and dispositioned under TSR-37042, Rev. 0.*

JAM  
10/25/12

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

*There are no combustible materials stored in this area. All equipment is seismically designed.*

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

*No portable equipment stored in this area.*

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

*No adverse condition were observed.*

**Comments** (Additional pages may be added as necessary)

*None.*

Fermi 2 Seismic Walkdown Guideline  
Area Walk-By-Checklist

NJPR-12-0043

Sheet 3 of 3  
Status: ~~Y~~ ~~N~~ U

JML  
09.12.2012

Area Walk-By Checklist (AWC)

ABS-1

Assets: 421P296A, T4100B009, T41F101A

Location: Bldg. AB Floor El. 677'-6" Room, Area<sup>1</sup> HVAC EQUIPMENT ROOM, B-27A/H-15

*Seismic Engineer Walkdown PSE-53 Qualified*

Evaluator #1: David C. Dickstein Date: 8/16/2012

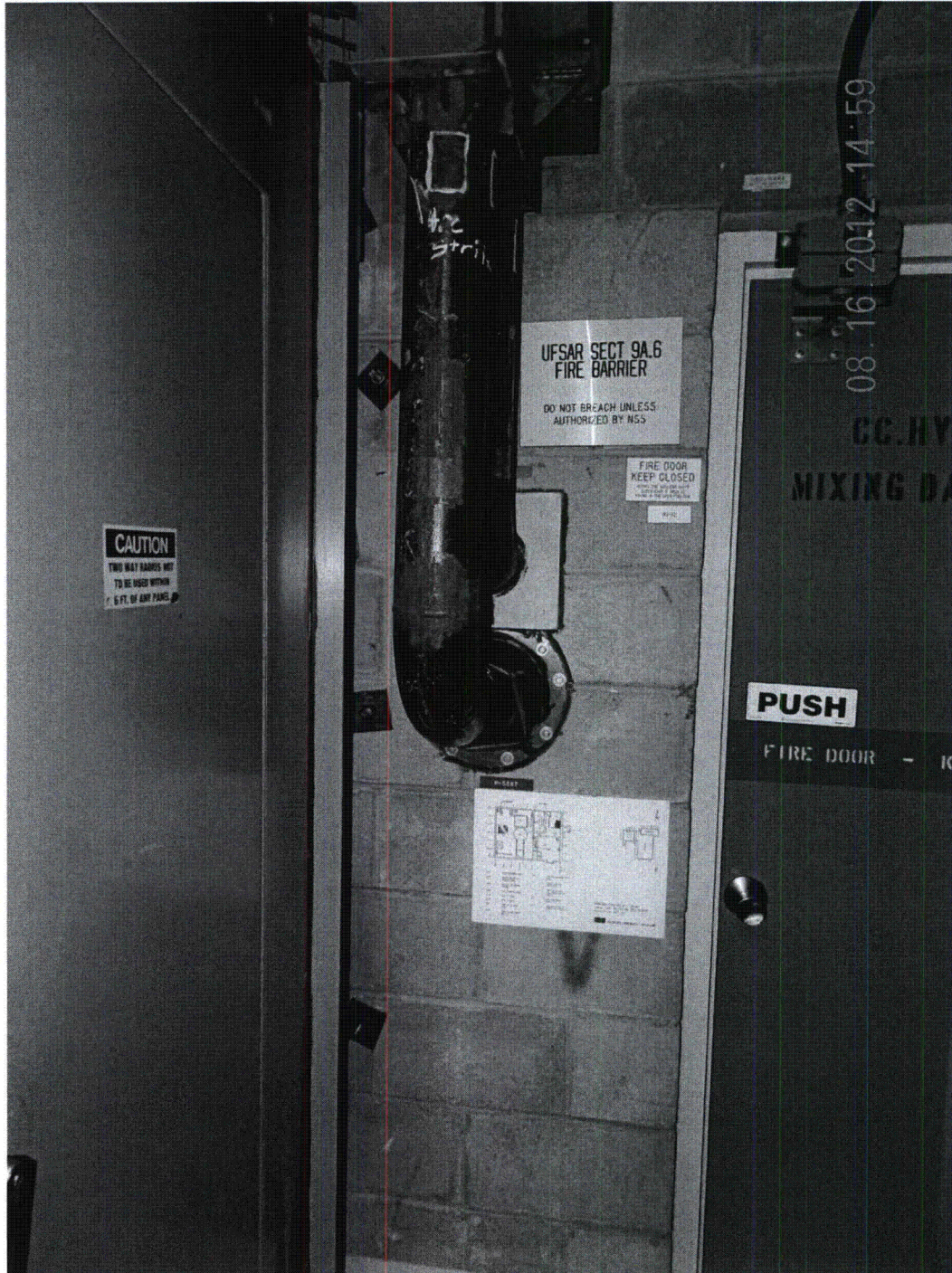
*Seismic Engineer Walkdown PSE-53 Qualified*

Evaluator #2: Joseph M. B. Veru Date: 09.12.2012

Area Walk-By Pictures

AB5-1

Location: Bldg. AB Floor El. 677'-6" Room, Area HVAC Equipment Room (B-27A) Col. H-15



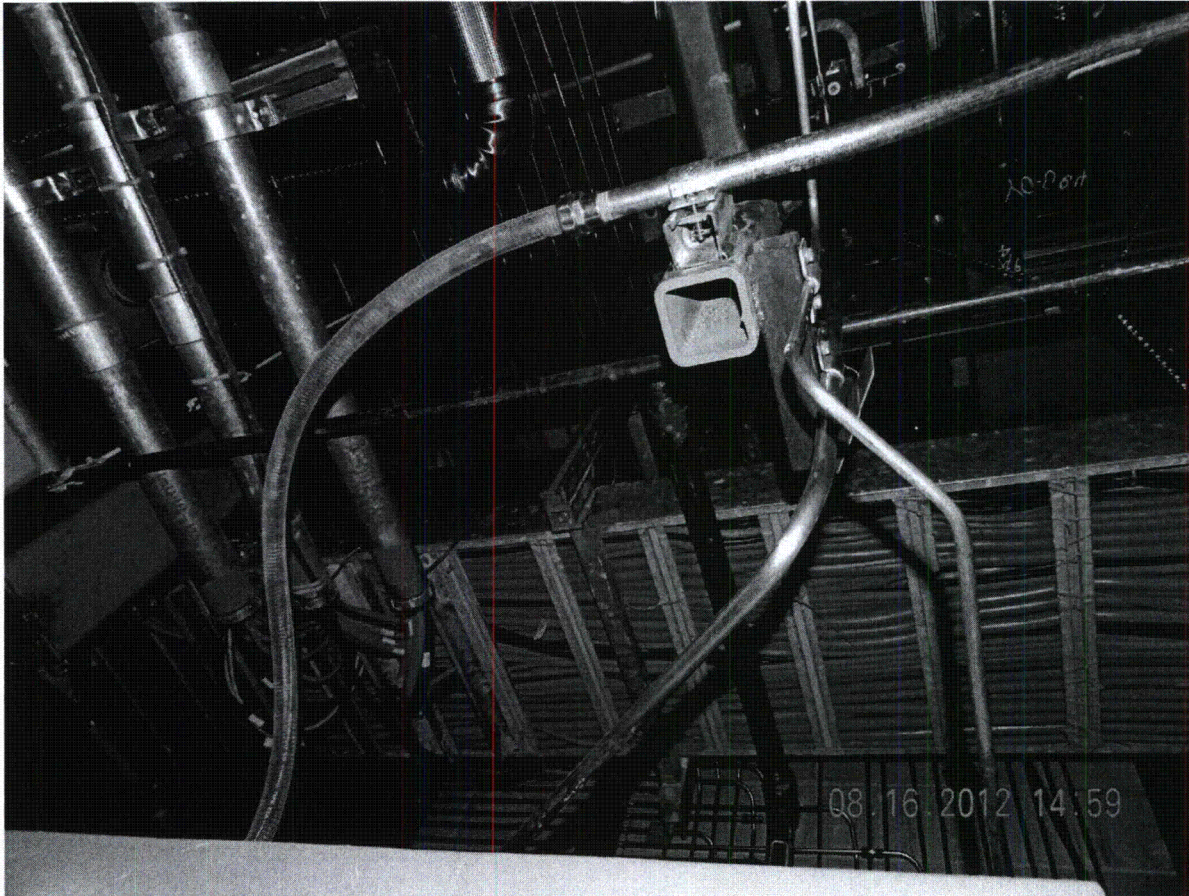
(DSCN0495)



Area Walk-By Pictures

AB5-1

Location: Bldg. AB Floor El. 677'-6" Room, Area HVAC Equipment Room (B-27A) Col. H-15

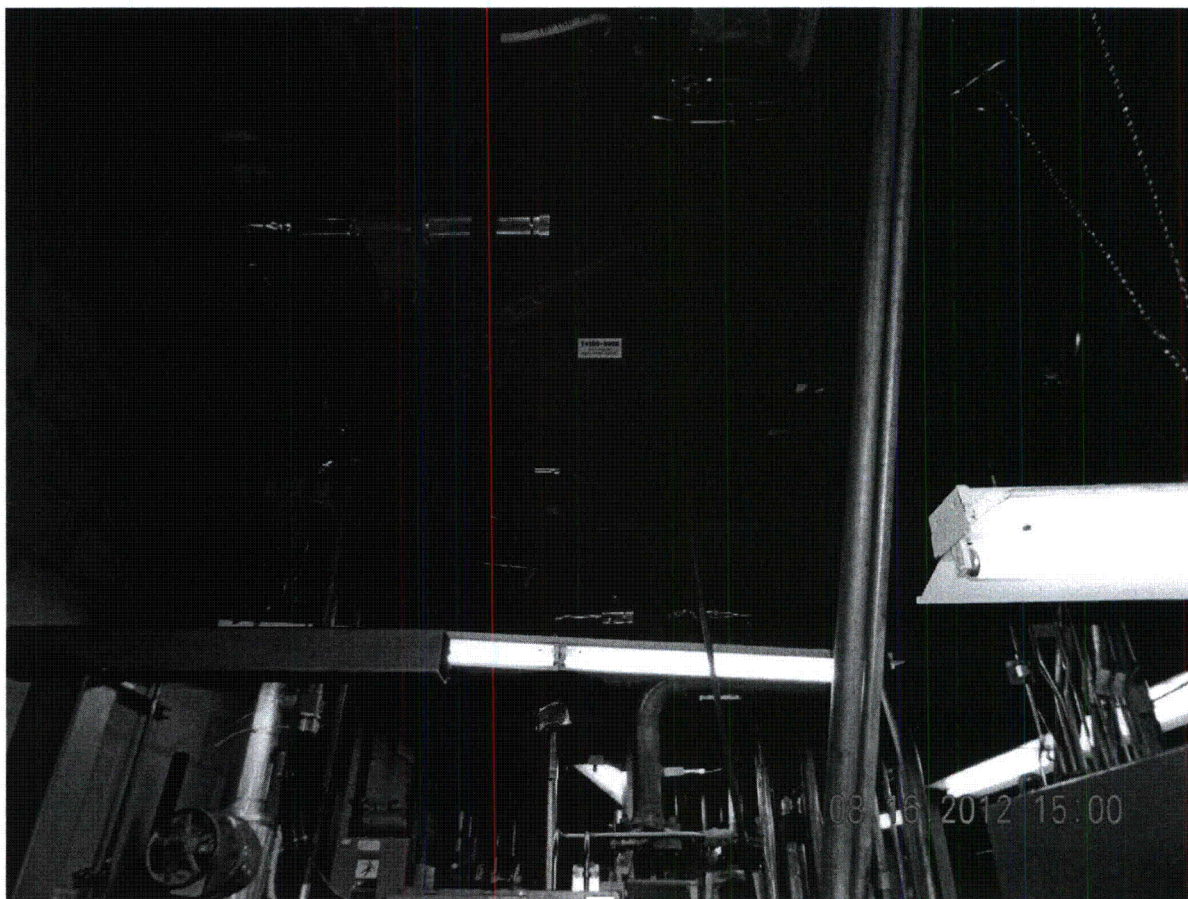


(DSCN0496)

**Area Walk-By Pictures**

**AB5-1**

Location: Bldg. AB Floor El. 677'-6" Room, Area HVAC Equipment Room (B-27A) Col. H-15

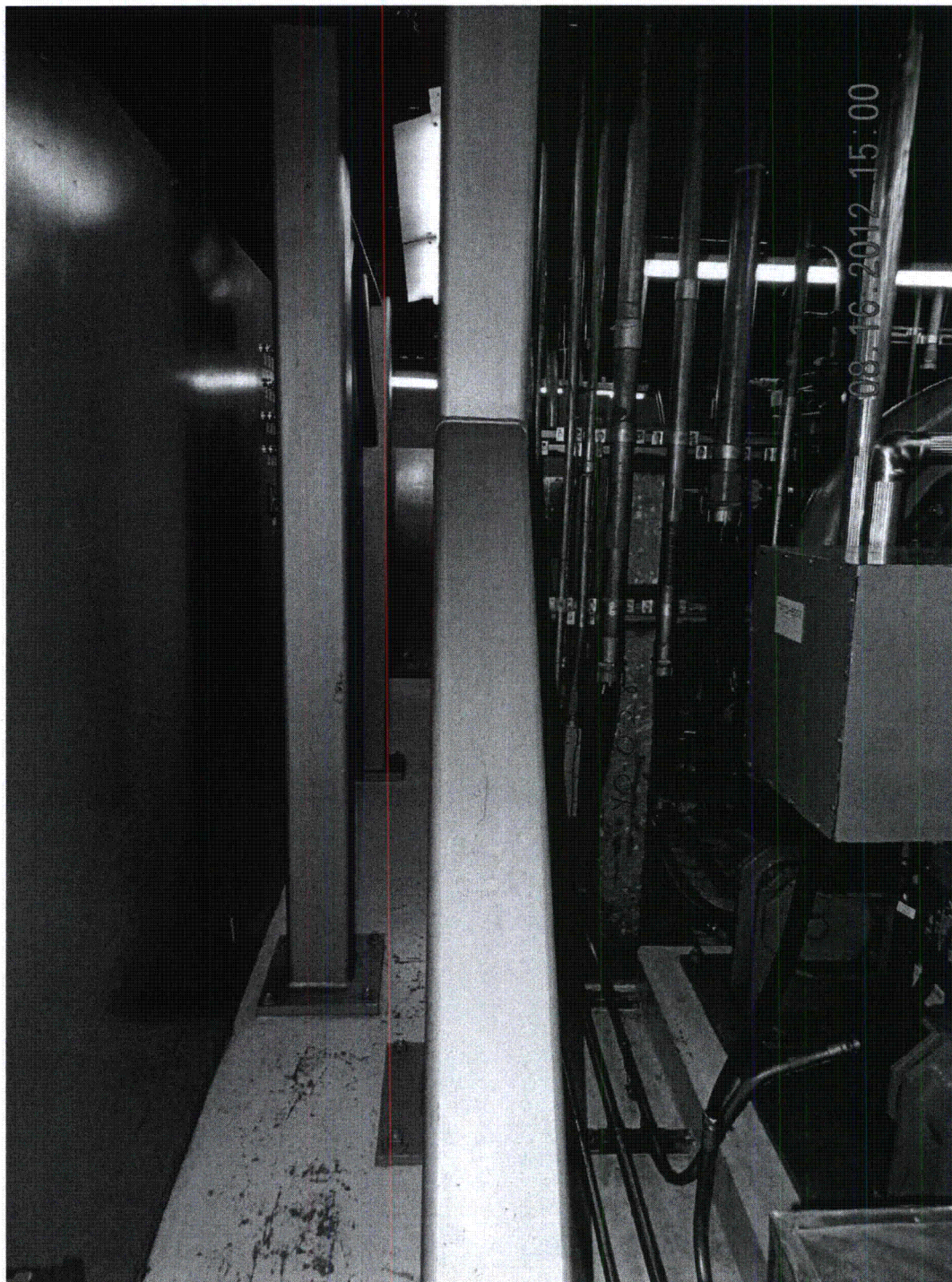


(DSCN0500)

Area Walk-By Pictures

AB5-1

Location: Bldg. AB Floor El. 677'-6" Room, Area HVAC Equipment Room (B-27A) Col. H-15

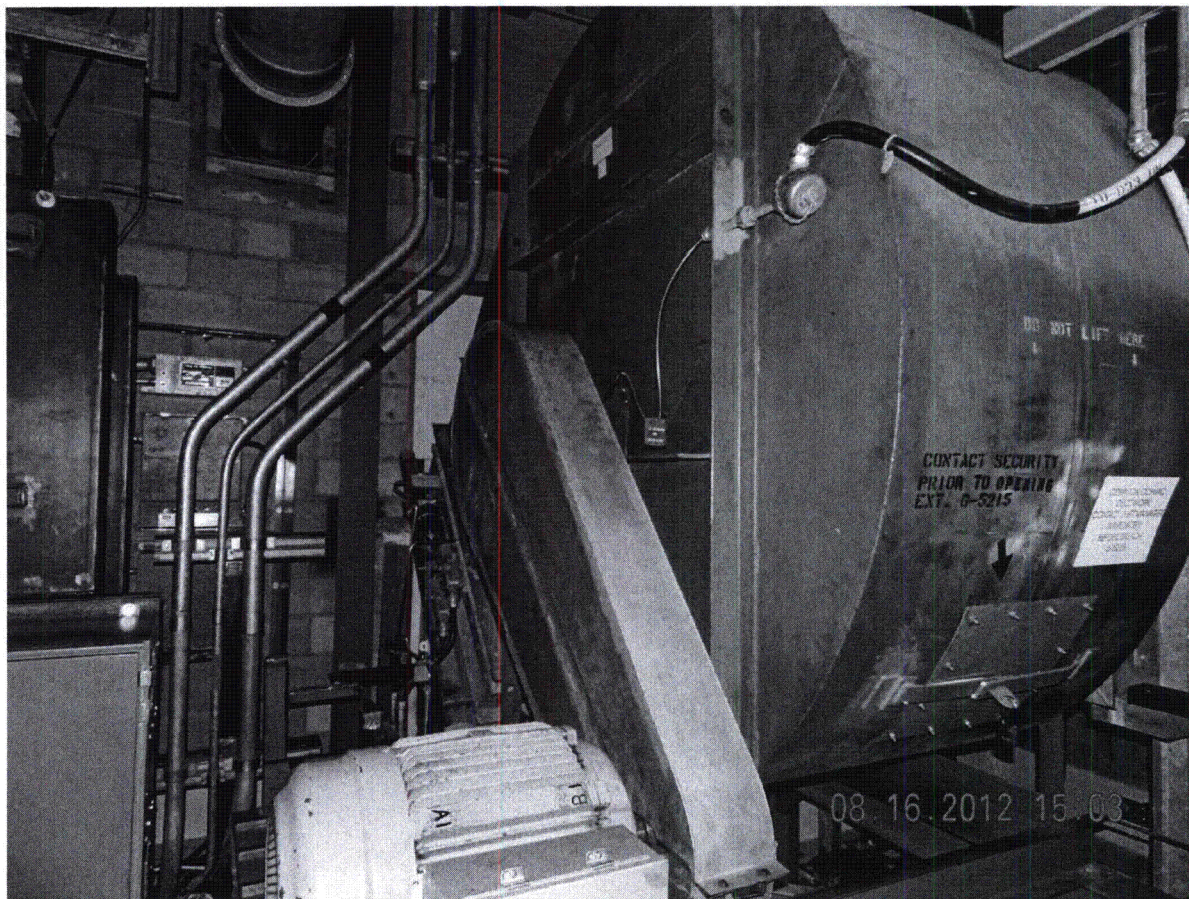


(DSCN0502)

Area Walk-By Pictures

AB5-1

Location: Bldg. AB Floor El. 677'-6" Room, Area HVAC Equipment Room (B-27A) Col. H-15

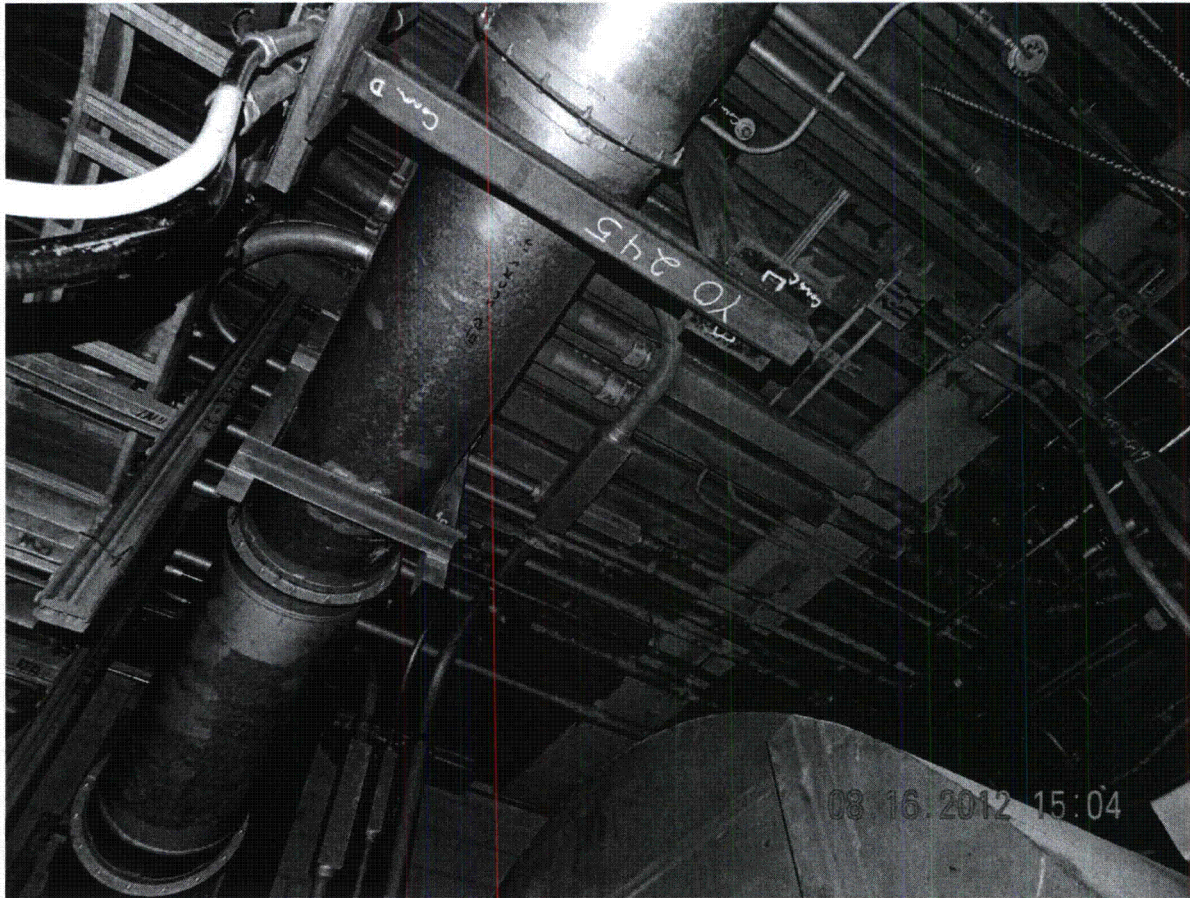


(DSCN0510)

Area Walk-By Pictures

AB5-1

Location: Bldg. AB Floor El. 677'-6" Room, Area HVAC Equipment Room (B-27A) Col. H-15



(DSCN0512)

**Area Walk-By Checklist (AWC)**

Assets: *E1150F004C*

Location: Bldg. RB Floor El. 540'-0" Room, Area<sup>1</sup> A-01, Torus Area (sub-bsmt)

**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

*All anchorage in the area was observed to be intact and securely tightened. See pictures 7 & 8 for typical conditions.*

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

*No anchorage in the area was observed to be degraded. See pictures 7 & 8 for typical conditions.*

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/conduit raceways are adequately supported. No cable trays in this area.*

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

*No ceiling tiles in the area. No rattle space issues identified.*

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

**Area Walk-By Checklist (AWC)**

Assets: *E1150F004C*

Location: Bldg. RB Floor El. 540'-0" Room, Area<sup>1</sup> A-01, Torus Area (sub-bsmt)

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

*There are no observed interactions with the potential for rupture of vessels or piping systems.*

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

*There are no observed interactions with the potential to produce fires.*

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

*See comment section below.*

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

*No other seismic conditions identified.*

**Comments** (Additional pages may be added as necessary)

*Housekeeping: There are several miscellaneous sign stands placed near the wall at column lines A-12 & 13 that do not have any signs attached.*

*Technical evaluation TE-A30-08-066 (CARD 08-24488) shows that RP stanchions will not overturn during seismic event. These stanchions are very similar to the sign stands mentioned. Therefore, there is no restriction from a seismic standpoint on their use in the plant*

Fermi 2 Seismic Walkdown Guideline  
Area Walk-By-Checklist

NJPR-12-0043

Sheet 3 of 3  
Status:  N  U

Area Walk-By Checklist (AWC)

RBSB-1

NEAR E1150F004C VALVE

Location: Bldg. RB Floor El. 540'-0 Room, Area' A-01, TORUS AREA, (SUB-B5MT)

*Seismic Engineer Walkdown PSE-53 Qualified*

Evaluator #1: Michele P. Sasso Date: 8/21/12

*Seismic Engineer Walkdown PSE-53 Qualified*

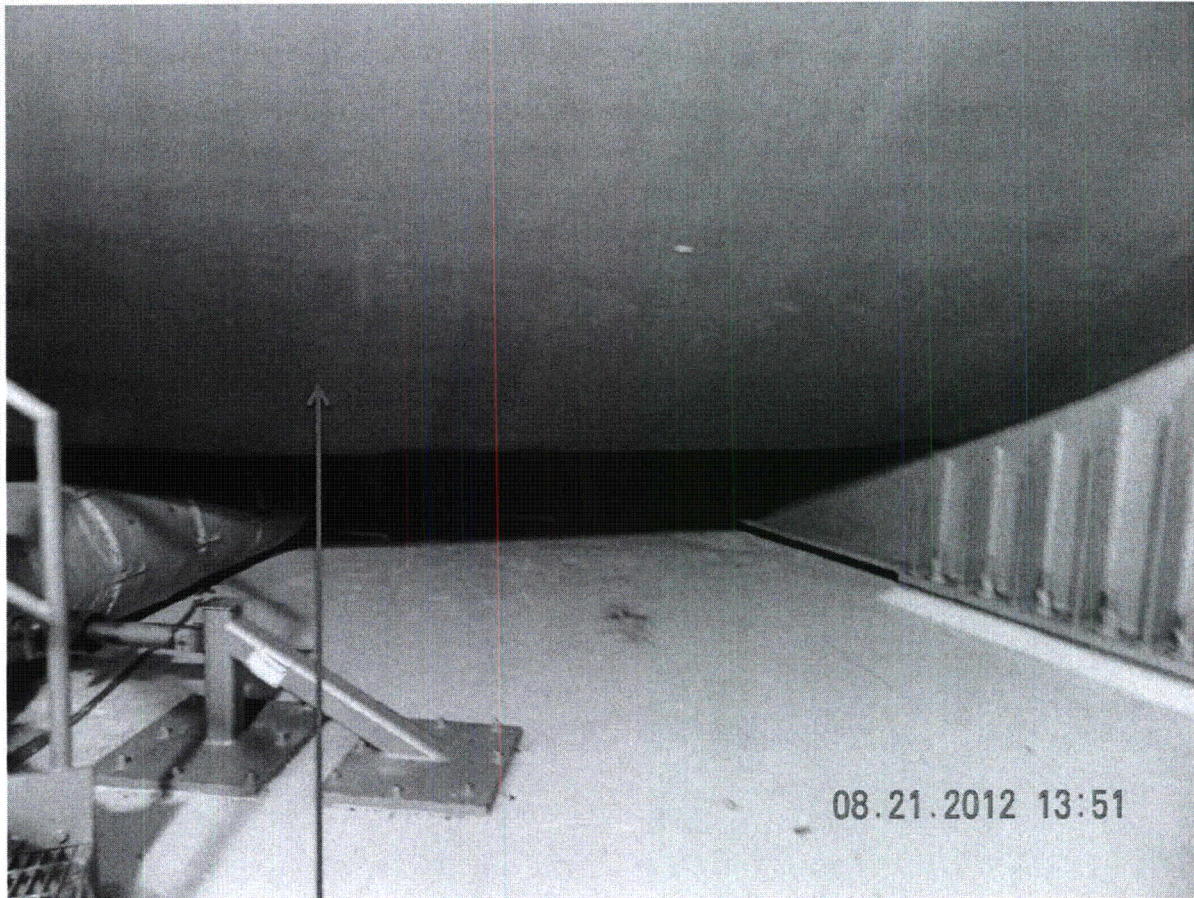
Evaluator #2: B. Madhery Date: Aug. 21 '12



Area Walk-By Pictures

RBSB-1

Location: Bldg. RB Floor El. 540'-0" Room, Area A-01, Torus Area (Sub-Bsmt)



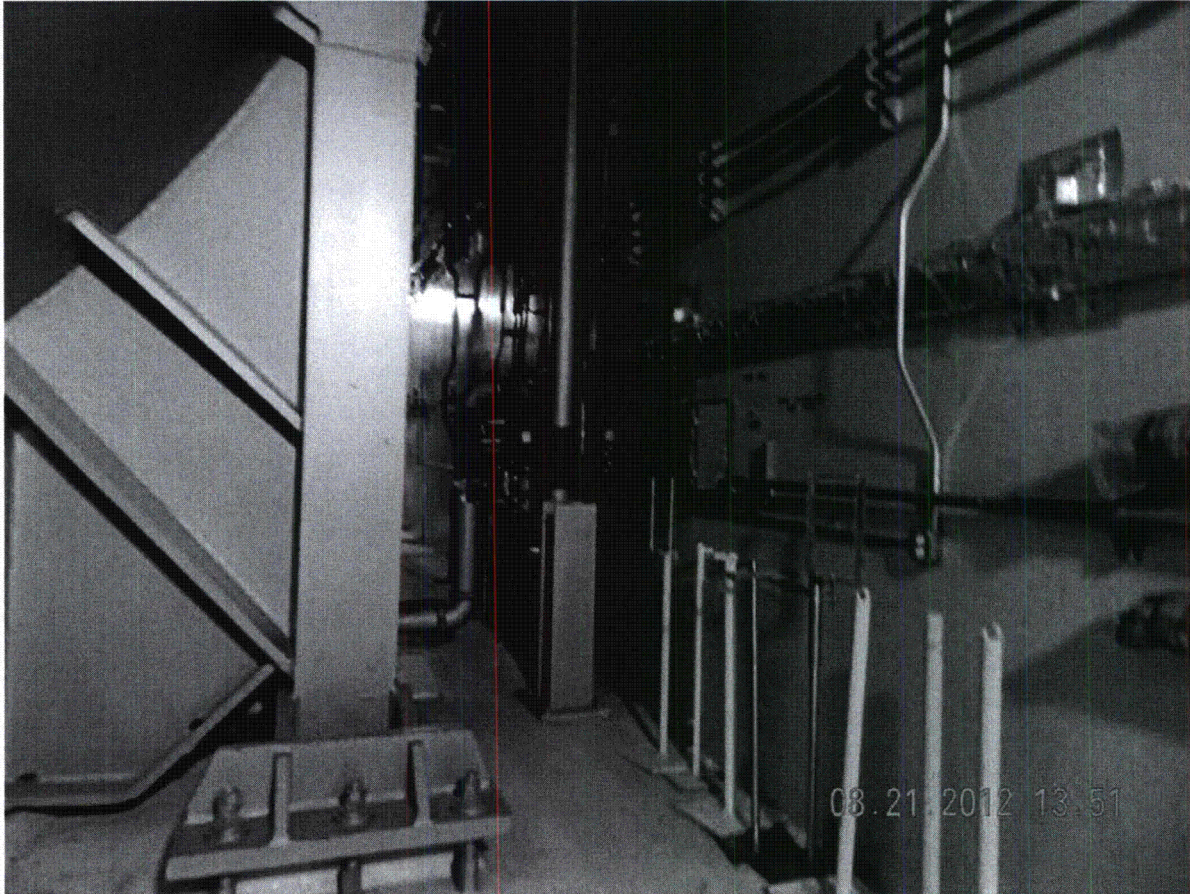
(Picture 7)

Torus

Area Walk-By Pictures

RBSB-1

Location: Bldg. RB Floor El. 540'-0" Room, Area A-01, Torus Area (Sub-Bsmt)



(Picture 8)

**Area Walk-By Checklist (AWC)**

Assets: *E2101C001C, E5150F045*

Location: Bldg. RB Floor El. 540'-0" Room, Area<sup>1</sup> A-05, Col. G-15

**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

*Hose reel support is missing a nut, however it is not close enough to E5150F045 or E2101C001C to pose any realistic hazard. (See Pictures 19 and 20.) CARD 12-26957 has been written (8/21/12) for the missing nut on the hose reel support baseplate. The other equipment in the area has adequate anchorage.*

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

*No degradation observed.*

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

*No adverse conditions observed.*

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

*The overhead lights are mounted on swivel mounts with proper clearance such that they do not act as impact sources that could damage the asset or equipment.*

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

MPS 10/3/12

**Area Walk-By Checklist (AWC)**

Assets: *E2101C001C, E5150F045*

Location: Bldg. RB Floor El. 540'-0" Room, Area<sup>1</sup> A-05, Col. G-15

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

*The sprinklers in area are appropriately supported. There is a mist in the area due to a leak. RP is aware. It does not present a seismic concern.*

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

*No fire hazards observed.*

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

*Portable cart nearby has its wheels clamped to prevent movement and is restrained by a cable.*

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

*See comments.*

**Comments** (Additional pages may be added as necessary)

*The RP basket stanchion is placed in the middle of the room and is being used to delineate the contaminated area. Technical Evaluation TE-A30-08-066 shows that the stanchions will not overturn during a seismic event, therefore, there is no restriction on their use in the plant.*

MPS 10/3/12

Fermi 2 Seismic Walkdown Guideline  
Area Walk-By-Checklist

NJPR-12-0043

Sheet 3 of 3  
Status:  Y  N  U

RBSB-2

**Area Walk-By Checklist (AWC)**

ASSETS: E210|COOLC, E5150F045

Location: Bldg. RB Floor El. 540'-0" Room, Area' A-05, Col. G-15

*Seismic Engineer Walkdown PSE-53 Qualified*

Evaluator #1: Michel P. Sasso Date: 8/21/12

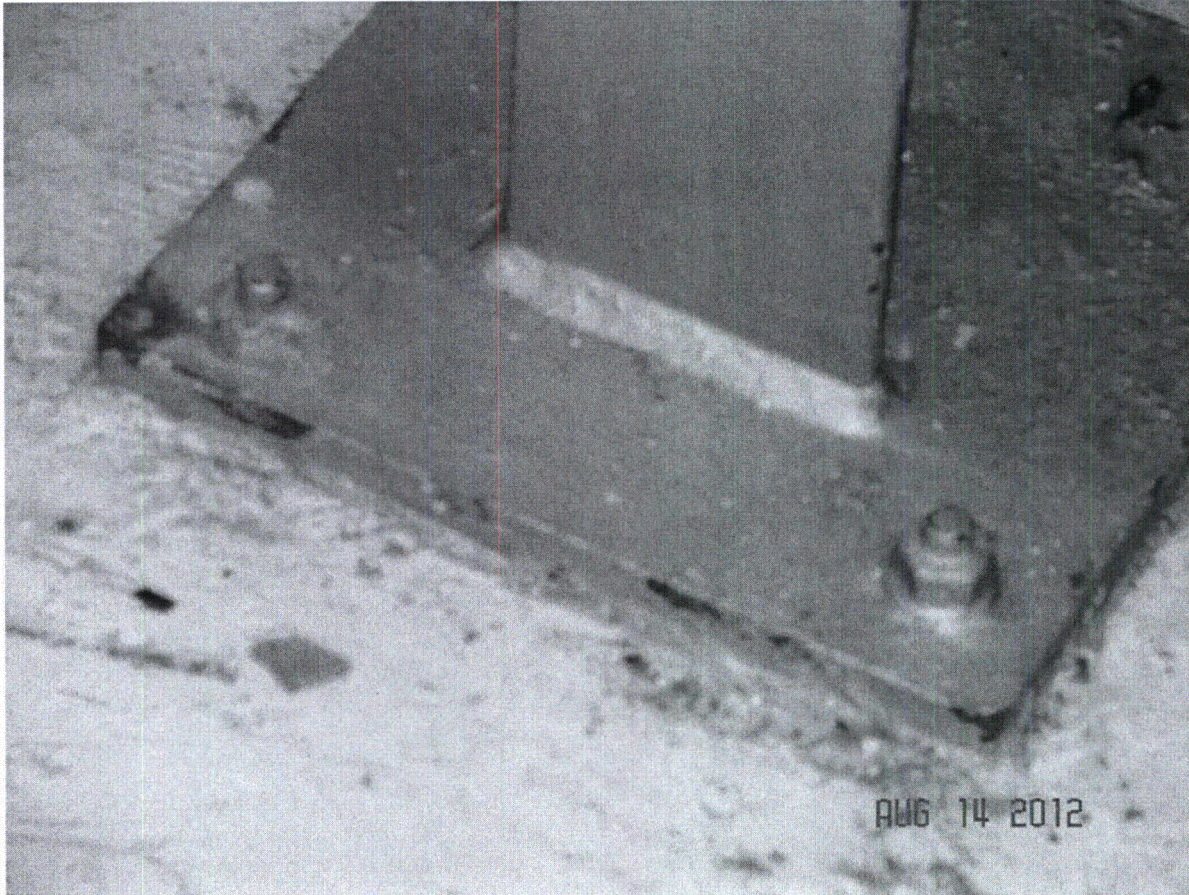
*Seismic Engineer Walkdown PSE-53 Qualified*

Evaluator #2: Scott Bauer Date: 8/24/12

Area Walk-By Pictures

RBSB-2

Location: Bldg. RB Floor El. 540'-0" Room, Area A-05 / Col. G-15

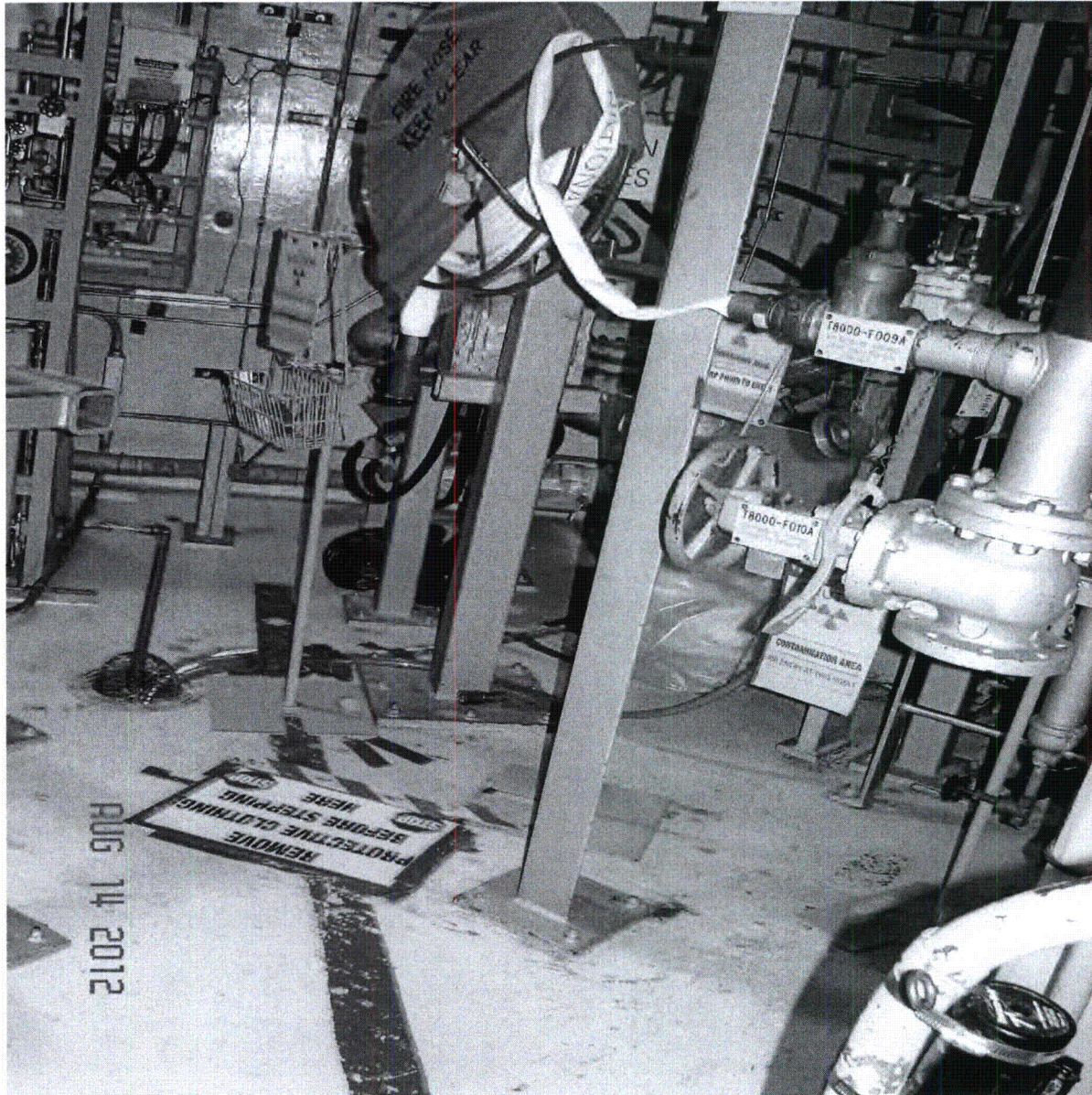


(Picture 19)

Area Walk-By Pictures

RBSB-2

Location: Bldg. RB Floor El. 540'-0" Room, Area A-05 / Col. G-15



(Picture 20)

**Area Walk-By Checklist (AWC)**

Assets: E4101C001C, E4150F001, E4150F004, H21P420

Location: Bldg. RB Floor El. 540'-0" Room, Area<sup>1</sup> HPCI Room (B-01)

**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

*All nearby equipment is anchored and will not respond adversely during a seismic event.*

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

*No degradation observed.*

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

*The light suspended from the ceiling can swing; however, it has no potential impact interaction and adequate clearance with SWEL items is provided.*

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

*No rattle space issues observed. All equipment is far enough apart\* and restrained to prevent seismic spatial interaction per "Fermi 2 Seismic Walkdown and Area walk-by Guideline in support of NTF 2.3 Section 4".*

\*  $\geq 6$ " apart for flexible equipment and  $\geq 2$ " apart for rigid equipment.

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

MPS 10/3/12



Fermi 2 Seismic Walkdown Guideline  
Area Walk-By-Checklist

NJPR-12-0043

Sheet 2 of 3  
Status:  Y  N  U

RBSB-3

**Area Walk-By Checklist (AWC)**

Assets: E4101C001C, E4150F001, E4150F004, H21P420

Location: Bldg. RB Floor El. 540'-0" Room, Area<sup>1</sup> HPCI Room (B-01)

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

*The fire sprinkler on the ceiling near asset H21P420 is well supported with a pipe hanger as shown in picture B3. The seismic accelerations are small in this area and therefore the sprinkler does not impose any realistic hazards.*

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

*There are no observed flammable items 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

*Ladders south of E4150F001 are not secured to the wall racks by cables per MOP23. Per Specification 3071-544 and drawing C-2585 the wall mounted ladder racks are acceptable without cable restraints. Shielding at southwest corner is not anchored to the floor however it's noted that shield stand does not require seismic ties per TSR 26056, revision A. (See pictures B1 & B2.)*

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

Comments (Additional pages may be added as necessary)

~~None~~

*ALL DOCUMENTS REFERENCED (LATEST REVISION) WERE REVIEWED AND NO APPLICABLE POSTINGS WERE FOUND. ~ DJK 10/12/12*

*mps 10/3/12*

Fermi 2 Seismic Walkdown Guideline  
Area Walk-By-Checklist

NJPR-12-0043

Sheet 3 of 3  
Status:  Y  N  U

RBSB-3

**Area Walk-By Checklist (AWC)**

Assets: *E4101C001C, E4150F001, E4150F004, H21P420*

Location: Bldg. RB Floor El. 540'-0" Room, Area' HPCI Room (B-01)

*Seismic Engineer Walkdown PSE-53 Qualified*

Evaluator #1: Michael P. Sasso *Michael P. Sasso* Date: 10/5/12

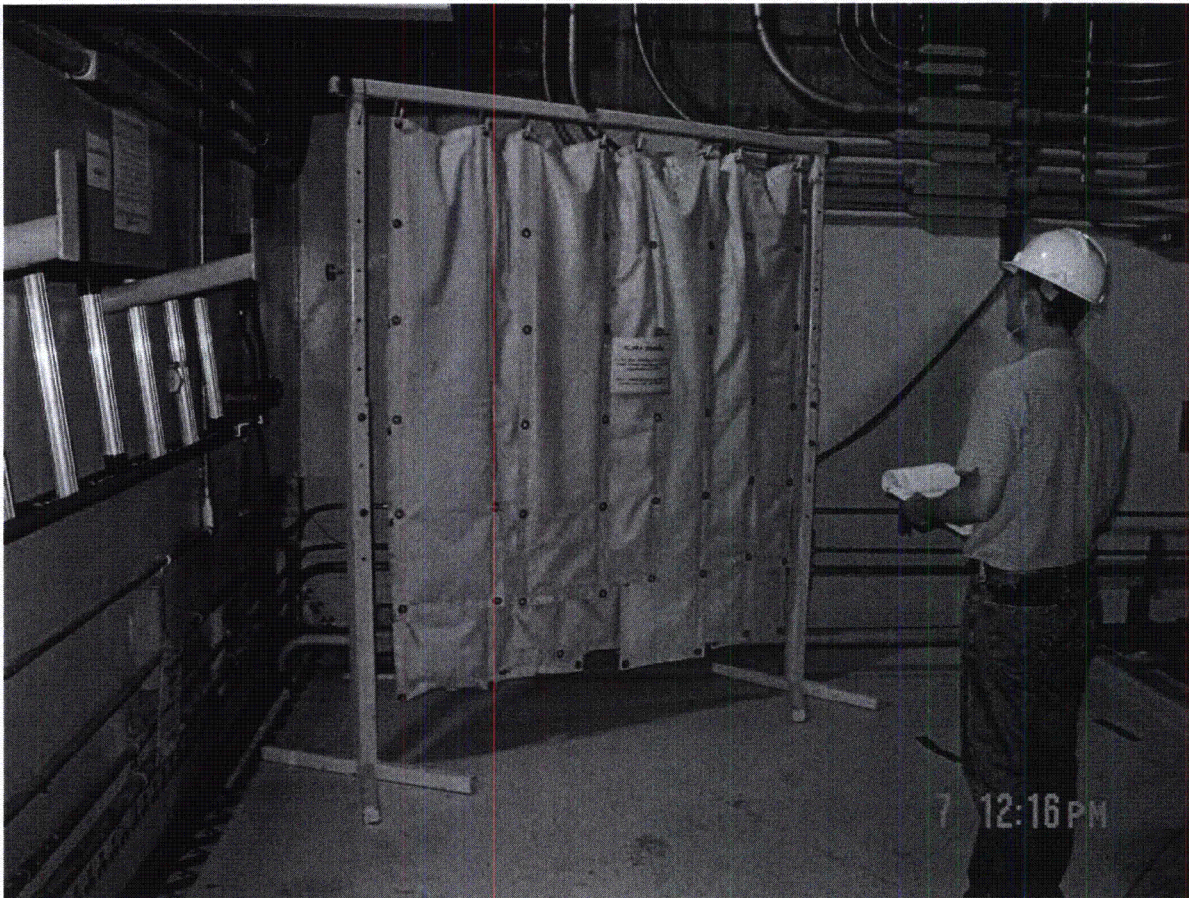
*Seismic Engineer Walkdown PSE-53 Qualified*

Evaluator #2: Scott Bauer *Scott Bauer* Date: 10/5/12

Area Walk-By Pictures

RBSB-3

Location: Bldg. RB Floor El. 540'-0" Room, Area HPCI Room (B-01)



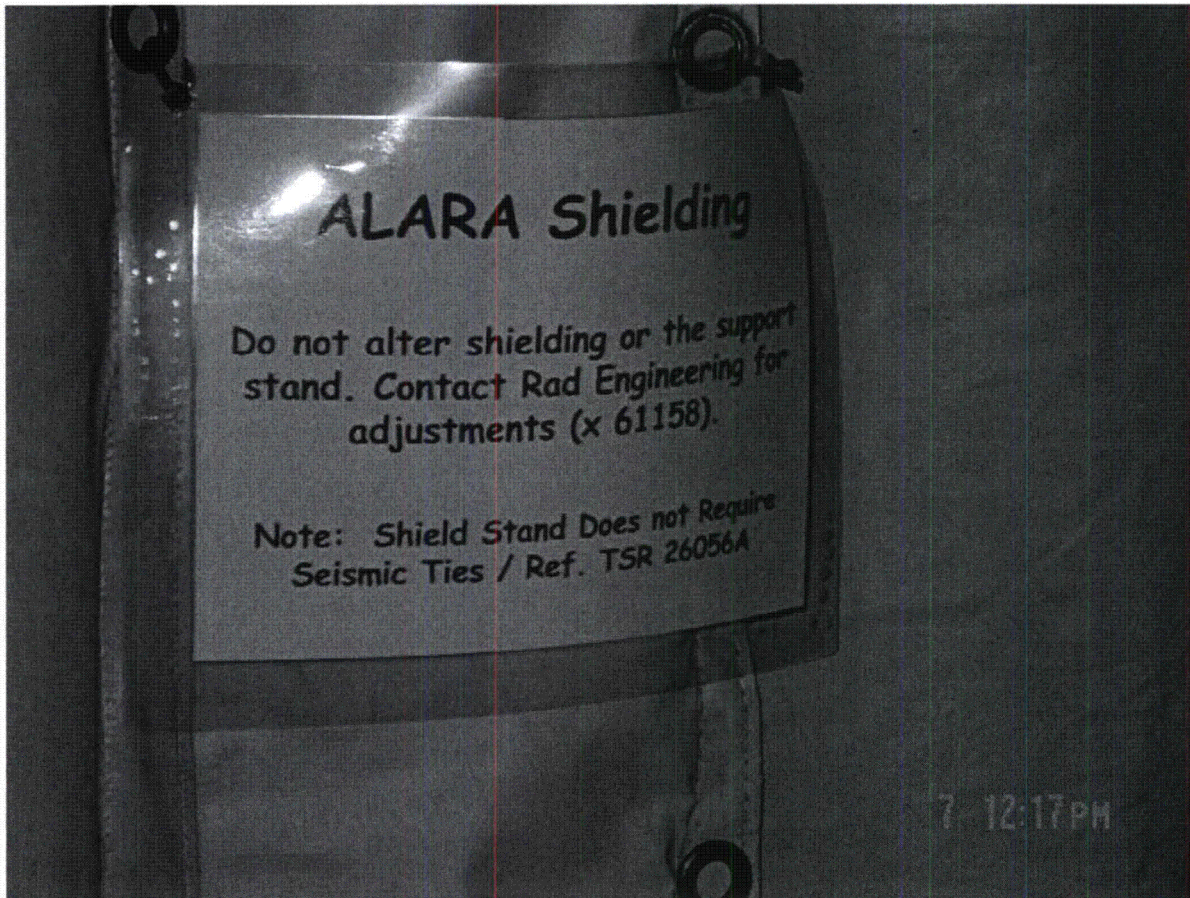
(Picture B1)

ALARA Shielding and Mounted Ladder Racks

Area Walk-By Pictures

RBSB-3

Location: Bldg. RB Floor El. 540'-0" Room, Area HPCI Room (B-01)



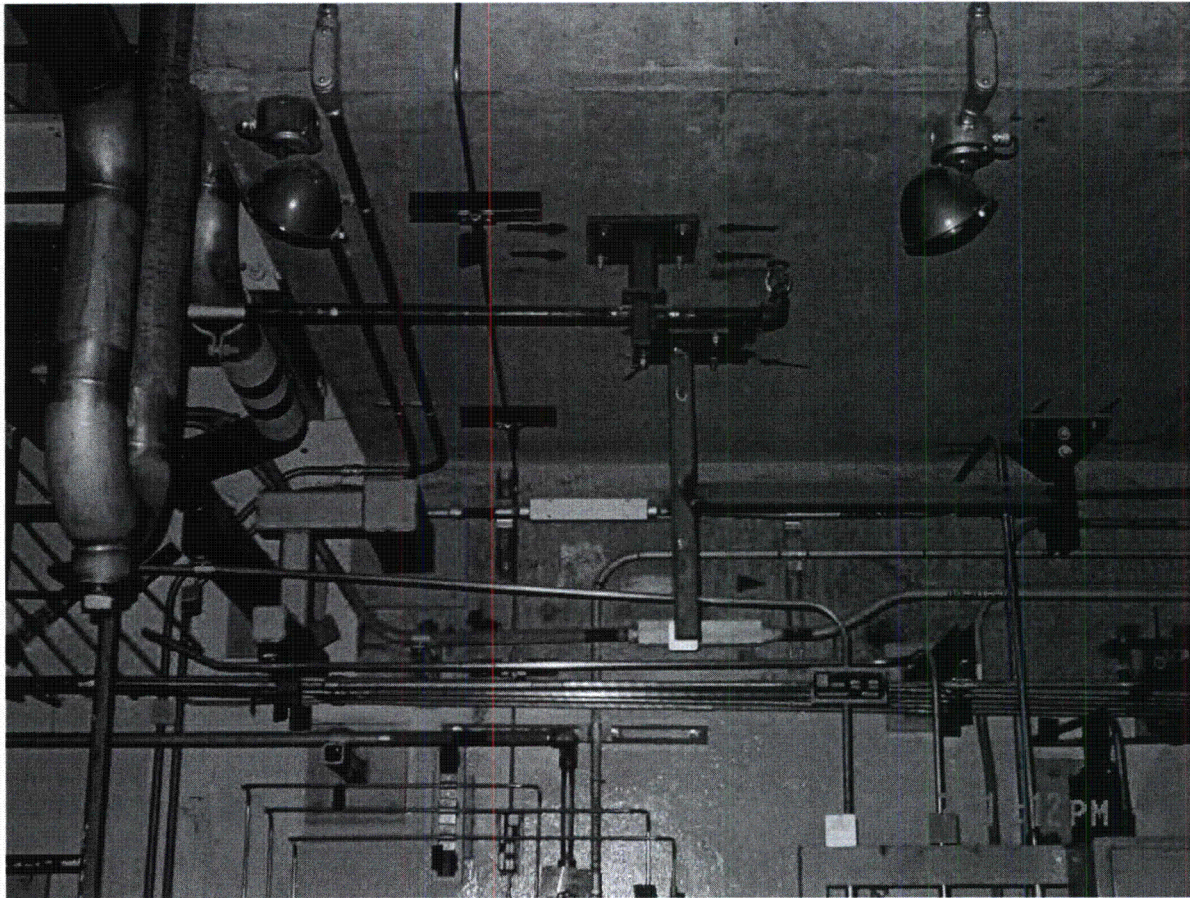
(Picture B2)

ALARA Shielding

Area Walk-By Pictures

RBSB-3

Location: Bldg. RB Floor El. 540'-0" Room, Area HPCI Room (B-01)



(Picture B3)

Overhead Fire Sprinkler