## Area Walk-By Checklist (AWC)



Area # AUX, 2026, 1401 9-20 163



Area # AUX, 2026, 1401 9-20 164

# Area Walk-By Checklist (AWC)

Location (Bldg, Elev, Room/Area): Area: AUX, 2026, 1401



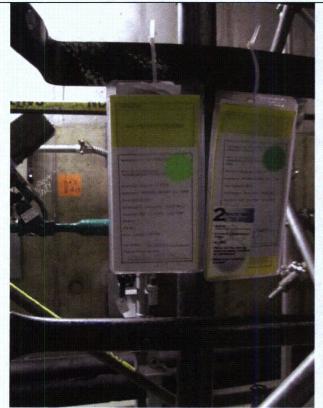




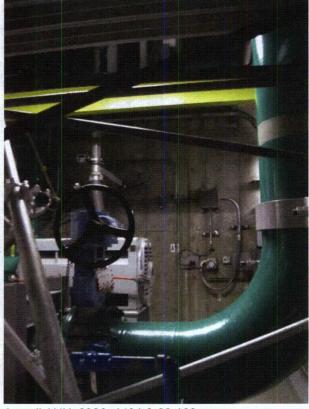
Area # AUX, 2026, 1401 9-20 166

WCAP-17678-NP November 2012

## Area Walk-By Checklist (AWC)



Area # AUX, 2026, 1401 9-20 167

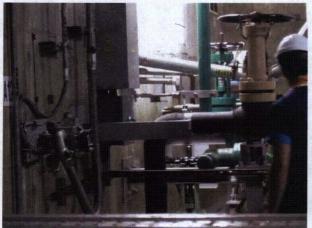


Area # AUX, 2026, 1401 9-20 168

## Area Walk-By Checklist (AWC)



Area # AUX, 2026, 1401 9-20 169



Area # AUX, 2026, 1401 9-20 171

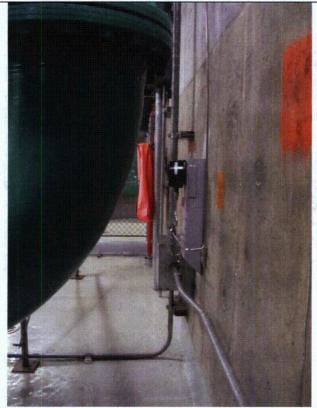


Area # AUX, 2026, 1401 9-20 170



Area # AUX, 2026, 1401 9-20 172

# Area Walk-By Checklist (AWC)

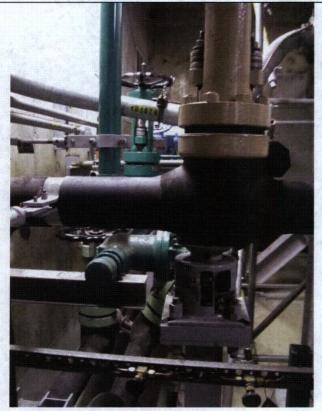


Area # AUX, 2026, 1401 9-20 173



Area # AUX, 2026, 1401 9-20 174

# Area Walk-By Checklist (AWC)



Area # AUX, 2026, 1401 9-20 175



Area # AUX, 2026, 1401 9-20 176

# Area Walk-By Checklist (AWC)



Area # AUX, 2026, 1401 9-20 177

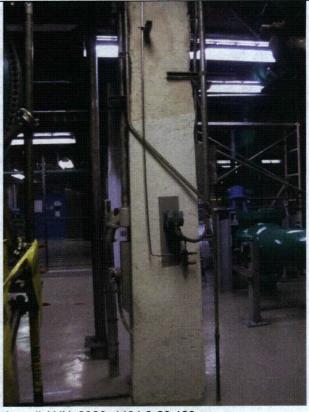


Area # AUX, 2026, 1401 9-20 178

# Area Walk-By Checklist (AWC)



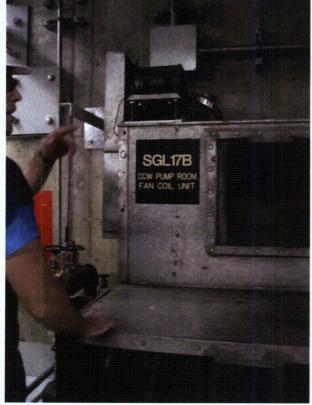
Area # AUX, 2026, 1401 9-20 179



Area # AUX, 2026, 1401 9-20 180

## Area Walk-By Checklist (AWC)

Location (Bldg, Elev, Room/Area): Area: AUX, 2026, 1401



Area # AUX, 2026, 1401 9-20 181

WCAP-17678-NP

November 2012

Revision 0

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

Location (Bldg, Elev, Room/Area): Area: AUX, 2026, 1402

#### **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)?

Yes

2. Does anchorage of equipment in the area appear to be free of significant degraded conditions?

Yes

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)? Yes

SWT noted four layer cable trays overhead supported rigidly with P1001 Unistrut member. The cable tray is laterally anchored to wall throughout. There are no adverse seismic conditions.

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)?

Yes

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

Yes

6. Does it appear that the area is free of potentially adverse seismic interactions that could cause a fire in the area?

Yes

7. Does it appear that the area is free of potentially adverse seismic interactions associated with housekeeping practices, storage of portable equipment, and

Yes

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

Location (Bldg, Elev, Room/Area): Area: AUX, 2026, 1402

temporary installations (e.g., scaffolding, lead shielding)?

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

Yes

#### **Comments**

Evaluated by:

Hunter Young

Date: 11-15-12

Hunter Your

11-15-12



Area # AUX, 2026, 1402 9-20 126



## Area Walk-By Checklist (AWC)

Location (Bldg, Elev, Room/Area): Area: AUX, 2026, 1402

Area # AUX, 2026, 1402 9-20 127



Area # AUX, 2026, 1402 9-20 128



Area # AUX, 2026, 1402 9-20 129

# Area Walk-By Checklist (AWC)

Location (Bldg, Elev, Room/Area): Area: AUX, 2026, 1402



Area # AUX, 2026, 1402 9-20 130



Area # AUX, 2026, 1402 9-20 131

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# Area Walk-By Checklist (AWC)

Location (Bldg, Elev, Room/Area): Area: AUX, 2026, 1402



Area # AUX, 2026, 1402 9-20 132



Area # AUX, 2026, 1402 9-20 133

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## Area Walk-By Checklist (AWC)



Area # AUX, 2026, 1402 9-20 134



Area # AUX, 2026, 1402 9-20 136



Area # AUX, 2026, 1402 9-20 135



Area # AUX, 2026, 1402 9-20 137

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

Location (Bldg, Elev, Room/Area): Area: AUX, 2026, 1409

#### **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)? Yes ·

2. Does anchorage of equipment in the area appear to be free of significant degraded conditions?

Yes

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)?

Yes

Multi layered cable tray overhead throughout area is ruggedly supported with braced Unistrut frames, both trapeze and wall-anchored. Therefore cable tray is of no adverse seismic concern.

The SWT also observed vertical HSS cable tray supports welded to the floor and connected to the ceiling above. Connection at ceiling appears to be a jacket connection that only transfers lateral load. If the ceiling connection transfers vertical load, there is a concern the support's connections will fail in an SSE event due to differential floor displacement. Verification is required to determine whether either the ceiling connection transfers vertical load or if the support and its connections are designed for the vertical load transfer due to SSE.

Licensing Basis Evaluation: HSS section verified to only react lateral load at its top connection per Detail 3 on C-1408. Therefore, there is no adverse seismic condition.

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)? Yes

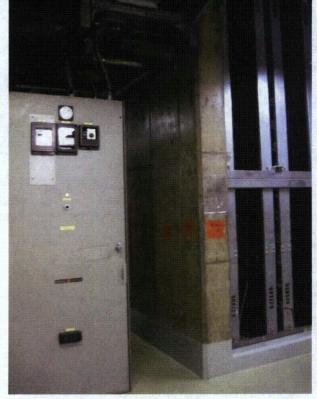
Aran M	Malk Dy Charlint (AMC)	Status: Y N U				
Агеа у	Nalk-By Checklist (AWC)					
Lo	cation (Bldg, Elev, Room/Area): Area : AUX, 2026, 1409					
5.	Does it appear that the area is free of potentially adverse seismic interactions that could cause flooding or spray in the area?	Yes				
6.	Does it appear that the area is free of potentially adverse seismic interactions that could cause a fire in the area?	Yes				
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)?	Yes				
8.	Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment in the area?	Yes				
Comments						
Evalua	ated by: Hunter Young Date:	11-15-12				
	Timothy Nealon	11-15-12				

# Area Walk-By Checklist (AWC)

Location (Bldg, Elev, Room/Area): Area: AUX, 2026, 1409



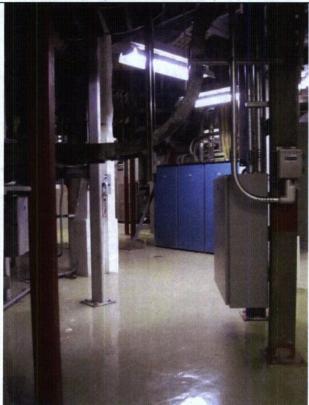
Area # AUX, 2026, 1409 9-20 092



Area # AUX, 2026, 1409 9-20 093

WCAP-17678-NP November 2012

## Area Walk-By Checklist (AWC)



Area # AUX, 2026, 1409 9-20 094



Area # AUX, 2026, 1409 9-20 096

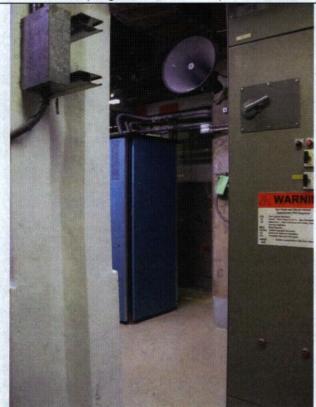


Area # AUX, 2026, 1409 9-20 095



Area # AUX, 2026, 1409 9-20 097

# Area Walk-By Checklist (AWC)



Area # AUX, 2026, 1409 9-20 098



Area # AUX, 2026, 1409 9-20 099

## Area Walk-By Checklist (AWC)



Area # AUX, 2026, 1409 9-20 100

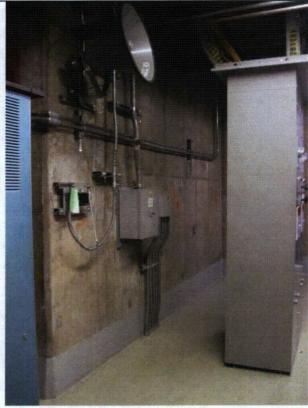


Area # AUX, 2026, 1409 9-20 101

## Area Walk-By Checklist (AWC)



Area # AUX, 2026, 1409 9-20 102

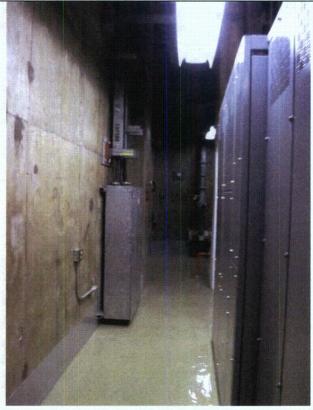


Area # AUX, 2026, 1409 9-20 103

# Area Walk-By Checklist (AWC)



Area # AUX, 2026, 1409 9-20 104



Area # AUX, 2026, 1409 9-20 105

## Area Walk-By Checklist (AWC)

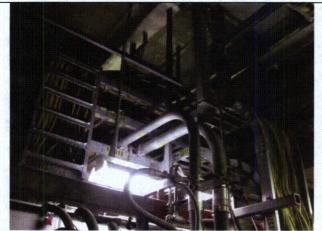


Area # AUX, 2026, 1409 9-20 106

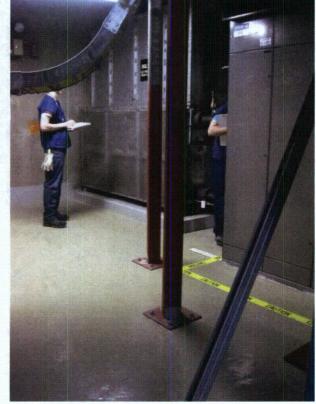


Area # AUX, 2026, 1409 9-20 107

# Area Walk-By Checklist (AWC)



Area # AUX, 2026, 1409 9-20 108



Area # AUX, 2026, 1409 9-20 109

## Area Walk-By Checklist (AWC)



Area # AUX, 2026, 1409 9-20 110



Area # AUX, 2026, 1409 9-20 111

Yes

Status: Y N U

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

Location (Bldg, Elev, Room/Area): Area: AUX, 2026, 1411

1. Does anchorage of equipment in the area appear to be free of potentially

#### **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.

adverse seismic conditions (if visible without necessarily opening cabinets)? 2. Does anchorage of equipment in the area appear to be free of significant Yes degraded conditions? 3. Based on a visual inspection from the floor, do the cable/conduit raceways and Yes 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)? 4. Does it appear that the area is free of potentially adverse seismic spatial Yes interactions with other equipment in the area (e.g., ceiling tiles and lighting)? 5. Does it appear that the area is free of potentially adverse seismic interactions Yes that could cause flooding or spray in the area? Yes 6. Does it appear that the area is free of potentially adverse seismic interactions that 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

Yes

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

Location (Bldg, Elev, Room/Area): Area: AUX, 2026, 1411

temporary installations (e.g., scaffolding, lead shielding)?

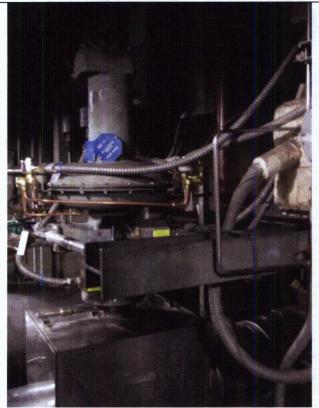
Observed a heavy, unanchored equipment cabinet in NW corner of area, adjacent to phone conduit (NNS). Additionally, the SSE level excitation will not cause cabinet to move enough relative to conduit given its rigid support it sits on. Therefore, no hazards.

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

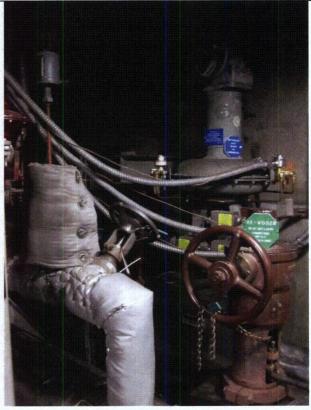
Yes

Comments				
Evaluated by:	Hunter Young	Date:	11-15-12	
	Time White Timothy Nealon		11-15-12	

# Area Walk-By Checklist (AWC)



Area # AUX, 2026, 1411 9-20 062



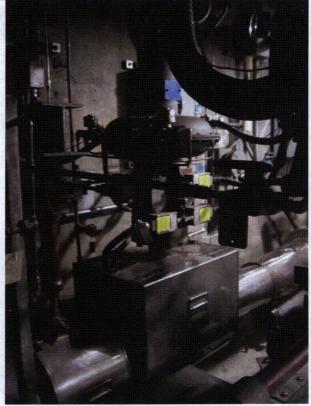
Area # AUX, 2026, 1411 9-20 063

## Area Walk-By Checklist (AWC)

Location (Bldg, Elev, Room/Area): Area: AUX, 2026, 1411



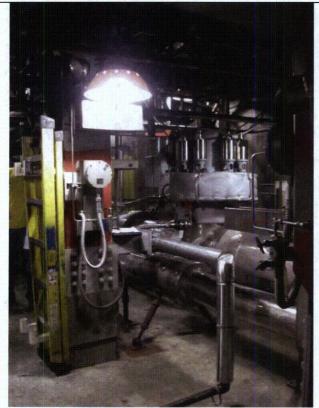
Area # AUX, 2026, 1411 9-20 064



Area # AUX, 2026, 1411 9-20 065

November 2012 WCAP-17678-NP

## Area Walk-By Checklist (AWC)



Area # AUX, 2026, 1411 9-20 066



Area # AUX, 2026, 1411 9-20 067

# Area Walk-By Checklist (AWC)



Area # AUX, 2026, 1411 9-20 068



Area # AUX, 2026, 1411 9-20 069

# Area Walk-By Checklist (AWC)



Area # AUX, 2026, 1411 9-20 070



Area # AUX, 2026, 1411 9-20 071

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

Location (Bldg, Elev, Room/Area): Area: AUX, 2026, 1411B

#### **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)?

Yes

2. Does anchorage of equipment in the area appear to be free of significant degraded conditions?

Yes

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)?

Yes

- Heavy crane overhead is well-supported with chains tied off. No hazard.
- 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)?

  Ladders gate is restrained so seismic movements would not impact j-box 10J651. No hazard.

Yes

- Noted tight clearance around AB-HV11, but thick insulation and pipe support precludes hazard. Therefore no adverse seismic concern.
- 5. Does it appear that the area is free of potentially adverse seismic interactions that could cause flooding or spray in the area?

Yes

6. Does it appear that the area is free of potentially adverse seismic interactions that could cause a fire in the area?

Yes

7. Does it appear that the area is free of potentially adverse seismic interactions associated with housekeeping practices, storage of portable equipment, and

Yes .

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

Location (Bldg, Elev, Room/Area): Area: AUX, 2026, 1411B

temporary installations (e.g., scaffolding, lead shielding)?

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

Yes

#### **Comments**

Evaluated by:

Hunter Young

Date: 11-15-12

11-15-12

Timothy Nealon

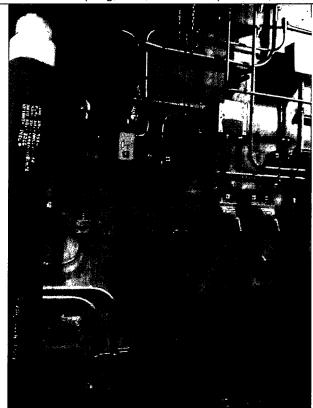


Area # AUX, 2026, 1411B 9-20 012

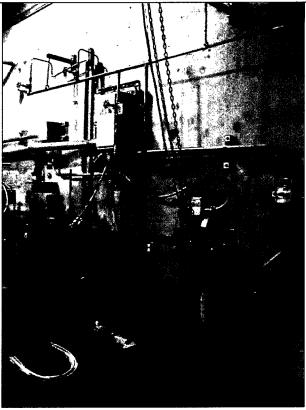


Area # AUX, 2026, 1411B 9-20 013

# Area Walk-By Checklist (AWC)



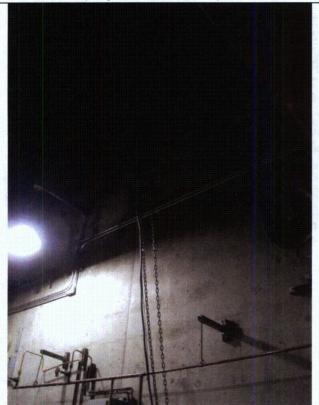
Area # AUX, 2026, 1411B 9-20 014



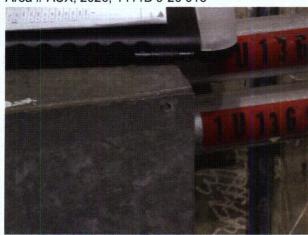
Area # AUX, 2026, 1411B 9-20 015

## Area Walk-By Checklist (AWC)

Location (Bldg, Elev, Room/Area): Area: AUX, 2026, 1411B



Area # AUX, 2026, 1411B 9-20 016



Area # AUX, 2026, 1411B 9-20 019



Area # AUX, 2026, 1411B 9-20 017

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

Location (Bldg, Elev, Room/Area): Area: AUX, 2026, 1509

#### **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)?

Yes

2. Does anchorage of equipment in the area appear to be free of significant degraded conditions?

Yes

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)? Yes

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)?

Yes

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

Yes

6. Does it appear that the area is free of potentially adverse seismic interactions that could cause a fire in the area?

Yes

7. Does it appear that the area is free of potentially adverse seismic interactions associated with housekeeping practices, storage of portable equipment, and

Yes

Status: Y

### Area Walk-By Checklist (AWC)

Location (Bldg, Elev, Room/Area): Area: AUX, 2026, 1509

temporary installations (e.g., scaffolding, lead shielding)?

Scaffold hand and mid rails were noted as flexible in N-S direction but cannot impact equipment. Base Bay of scaffold was verified to be braced and anchored in all direction. No hazard.

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

Yes

#### **Comments**

Evaluated by:

Hunter Young

Date: 11-15-12

Timothy Nealon

11-15-12



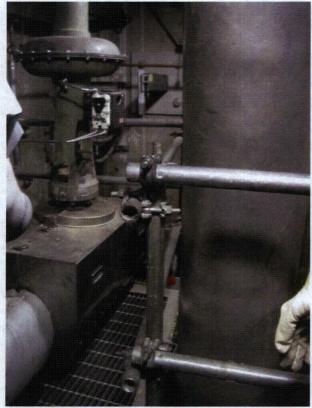


Area # AUX, 2026, 1509 9-20 028

## Area Walk-By Checklist (AWC)

Location (Bldg, Elev, Room/Area): Area: AUX, 2026, 1509

Area # AUX, 2026, 1509 9-20 027



Area # AUX, 2026, 1509 9-20 030



Area # AUX, 2026, 1509 9-20 031

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

Location (Bldg, Elev, Room/Area): Area: AUX, 2047.5, 1501

#### **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)?

Yes

2. Does anchorage of equipment in the area appear to be free of significant degraded conditions?

Yes

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)? Yes

Heavy cable tray (4 layers) with Unistrut supports rigid in all direction noted. No hazard.

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)?

Yes

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

Yes

6. Does it appear that the area is free of potentially adverse seismic interactions that could cause a fire in the area?

Yes

7. Does it appear that the area is free of potentially adverse seismic interactions associated with housekeeping practices, storage of portable equipment, and

Yes

### Area Walk-By Checklist (AWC)

Location (Bldg, Elev, Room/Area): Area: AUX, 2047.5, 1501

temporary installations (e.g., scaffolding, lead shielding)?

SWT observed a storage area located far from equipment and therefore no seismic hazard.

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

Yes

#### Comments

Evaluated by:

Hunter Young

Date: 11-15-12

Timothy Nealon

11-15-12







Area # AUX, 2047

# Area Walk-By Checklist (AWC)



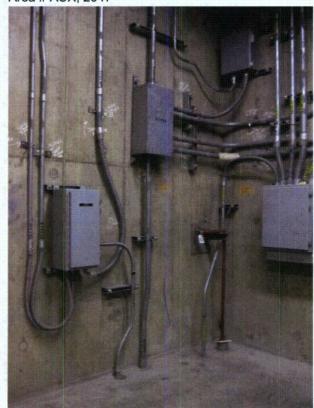
Area # AUX, 2047



Area # AUX, 2047

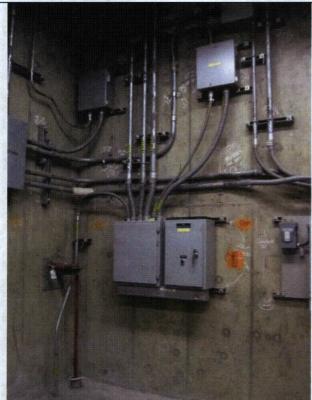


Area # AUX, 2047



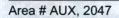
Area # AUX, 2047

## Area Walk-By Checklist (AWC)





Area # AUX, 2047









Area # AUX, 2047

## Area Walk-By Checklist (AWC)



Area # AUX, 2047





Area # AUX, 2047

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

Location (Bldg, Elev, Room/Area): Area: AUX, 2047.5, 1502

#### **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)?

Yes

2. Does anchorage of equipment in the area appear to be free of significant degraded conditions?

Yes

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)?

Yes

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)? Noted hoist well-supported with rig and chain in safe positions. No hazard.

Yes

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

Noted an approximately 14" pipe with mechanical fasteners regularly supported. WCNOC Operations confirmed pipe as drain pipe from roof. Given

Yes

Noted an approximately 14" pipe with mechanical fasteners regularly supported. WCNOC Operations confirmed pipe as drain pipe from roof. Given frequent support and pipe not under normal pressure, there is no spray hazard.

Yes

6. Does it appear that the area is free of potentially adverse seismic interactions that could cause a fire in the area?

Yes

7. Does it appear that the area is free of potentially adverse seismic interactions associated with housekeeping practices, storage of portable equipment, and

### Area Walk-By Checklist (AWC)

Location (Bldg, Elev, Room/Area): Area: AUX, 2047.5, 1502

temporary installations (e.g., scaffolding, lead shielding)?

SWT observed scaffolding in zone of influence of safety-related equipment with no bracing or wall anchorage at top bay (3 bays total). Members appear suitable to withstand movement so as to preclude collapse, but verification is required from scaffolding documentation on site.

Licensing Basis Evaluation: SWT received WCNOC Scaffolding Evaluation (Scaffold Request # 12-S0189, Work Order # 11-345393) that validates scaffold installation in accordance with procedure. No adverse seismic concern

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

Yes

Comments				
Evaluated by:	Hunter Young	Date:	11-15-12	
	Timothy Nealon		11-15-12	

# Area Walk-By Checklist (AWC)







Area # AUX, 2047

## Area Walk-By Checklist (AWC)



Area # AUX, 2047



Area # AUX, 2047



Area # AUX, 2047

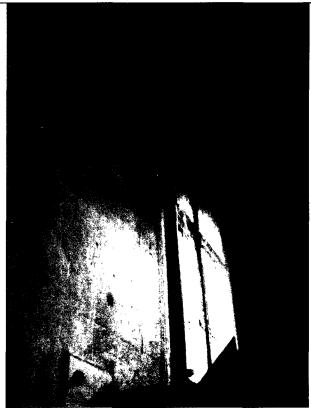


Area # AUX, 2047

# Area Walk-By Checklist (AWC)







Area # AUX, 2047