

ATTACHMENT 4

AREA WALK-BY CHECKLIST

Status: Y N U

Area Walk-By Checklist (AWC)

Location (Bldg, Elev, Room/Area): Area : AUX, 5, CAL-AB-227

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?
The overhead threaded fire piping is judged to be adequately supported and not a concern for spray or flooding. 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
-

ATTACHMENT 4

AREA WALK-BY CHECKLIST

Status: Y N U

Area Walk-By Checklist (AWC)

Location (Bldg, Elev, Room/Area): Area : AUX, 5, CAL-AB-227

Observed duct tape on fire pipe header support, although not good housekeeping practices, it is not a 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: *A. Karavoussianis* A. Karavoussianis Date: 11/09/2012

C. Figliolini C. Figliolini Date: 11/09/2012



ATTACHMENT 4

AREA WALK-BY CHECKLIST

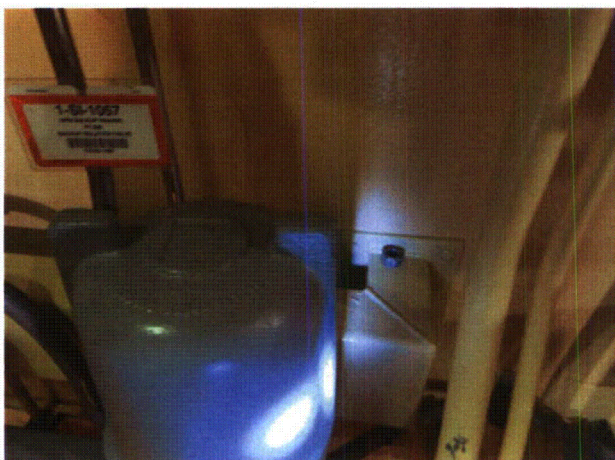
Status: Y N U

Area Walk-By Checklist (AWC)

Location (Bldg, Elev, Room/Area): Area : AUX, 5, CAL-AB-227

Area # AUX, 5, CAL-AB-227 8-7-12 212

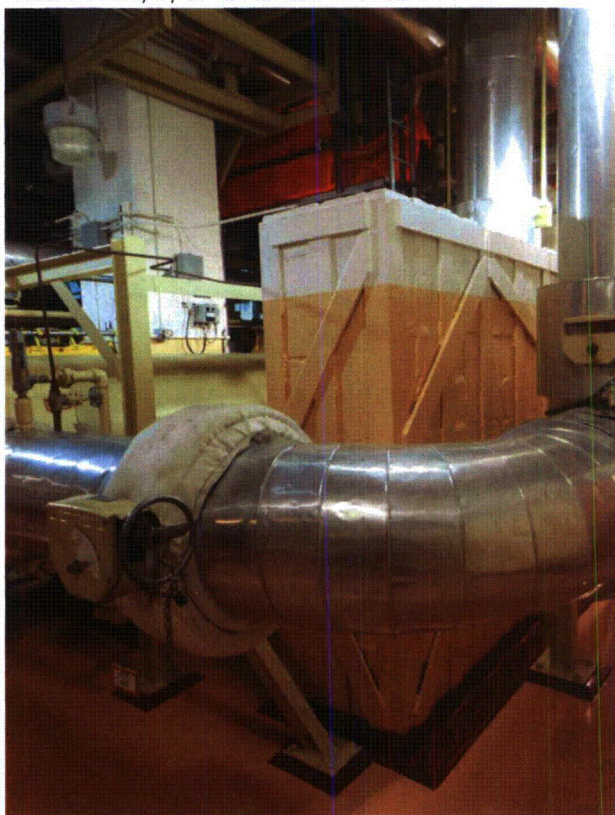
Area # AUX, 5, CAL-AB-227 8-7-12 213



Area # AUX, 5, CAL-AB-227 8-7-12 214



Area # AUX, 5, CAL-AB-227 8-7-12 215



Area # AUX, 5, CAL-AB-227 8-7-12 216



Area # AUX, 5, CAL-AB-227 8-7-12 217

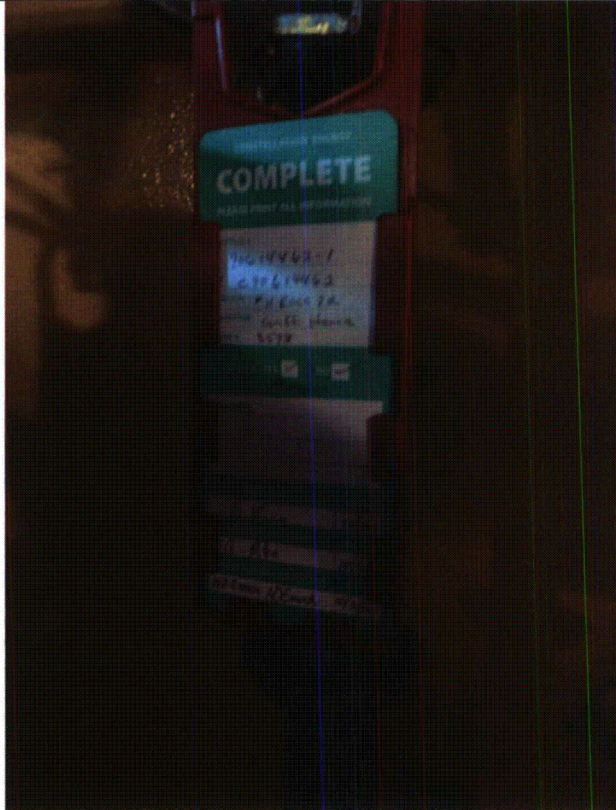
ATTACHMENT 4

AREA WALK-BY CHECKLIST

Status: Y N U

Area Walk-By Checklist (AWC)

Location (Bldg, Elev, Room/Area): Area : AUX, 5, CAL-AB-227



Area # AUX, 5, CAL-AB-227 8-7-12 218



Area # AUX, 5, CAL-AB-227 8-7-12 219

ATTACHMENT 4

AREA WALK-BY CHECKLIST

Status: Y N U

Area Walk-By Checklist (AWC)

Location (Bldg, Elev, Room/Area): Area : AUX, 5, CAL-AB-228

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
The fixed end of HX12 seems to be a sliding type detail see photo. Based on a review of FSK-C-0084, section A1-A1, the fixed end connection is considered fixed, therefore not a concern.

 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
The overhead threaded fire piping is judged to be adequately supported and not a concern for spray or flooding.

 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
-

ATTACHMENT 4
AREA WALK-BY CHECKLIST

Status: Y N U

Area Walk-By Checklist (AWC)

Location (Bldg, Elev, Room/Area): Area : AUX, 5, CAL-AB-228

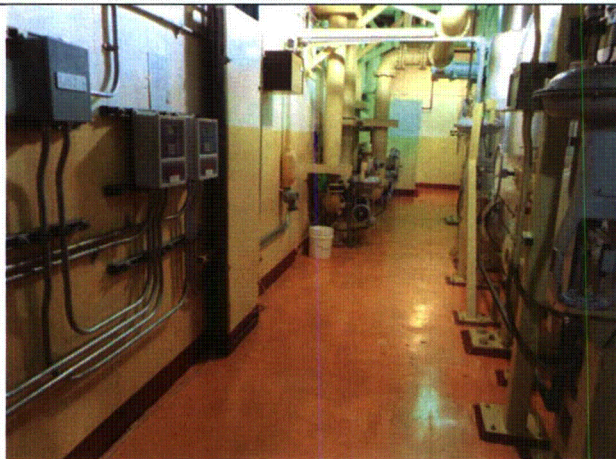
Observed seismic-rated scaffold in area.

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

Comments

Evaluated by: *A. Karavoussianis* A. Karavoussianis Date: 11/09/2012

C. Figliolini C. Figliolini 11/09/2012



Area # AUX, 5, CAL-AB-228 8-7-12 188



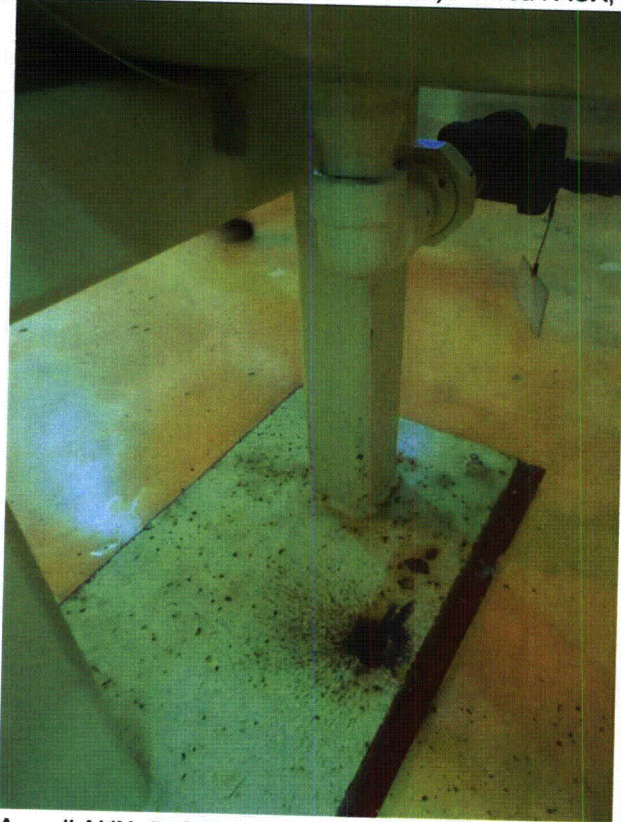
Area # AUX, 5, CAL-AB-228 8-7-12 189

ATTACHMENT 4
AREA WALK-BY CHECKLIST

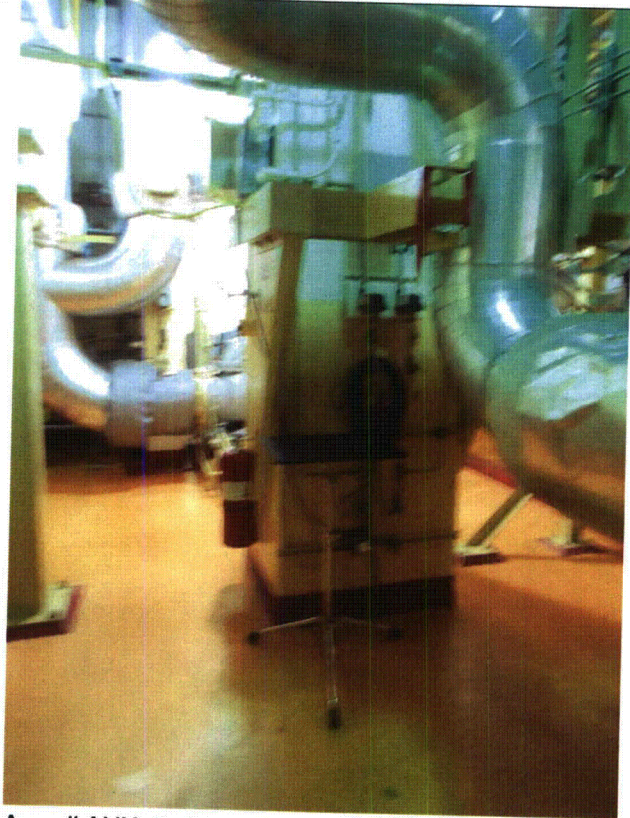
Area Walk-By Checklist (AWC)

Status: Y N U

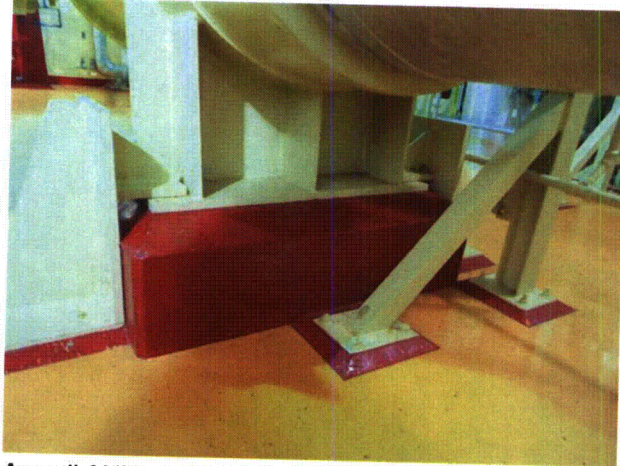
Location (Bldg, Elev, Room/Area): Area : AUX, 5, CAL-AB-228



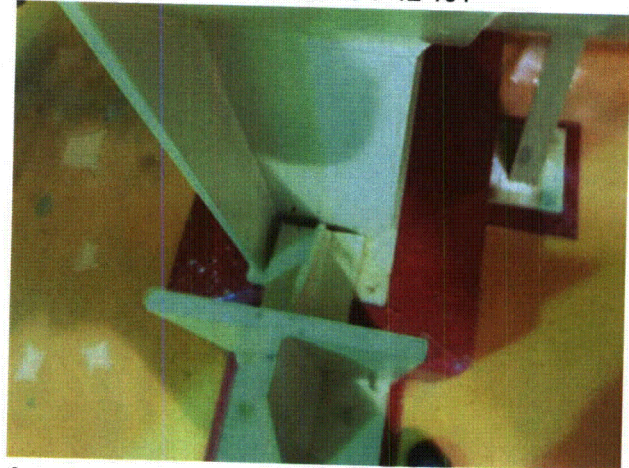
Area # AUX, 5, CAL-AB-228 8-7-12 190



Area # AUX, 5, CAL-AB-228 8-7-12 191



Area # AUX, 5, CAL-AB-228 8-7-12 192



Area # AUX, 5, CAL-AB-228 8-7-12 193

ATTACHMENT 4
AREA WALK-BY CHECKLIST

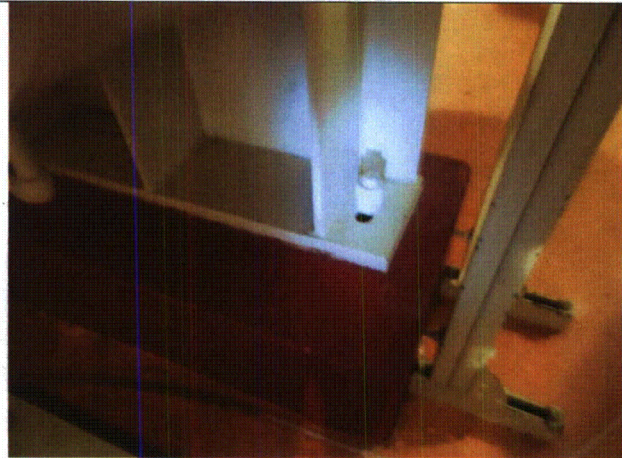
Status: Y N U

Area Walk-By Checklist (AWC)

Location (Bldg, Elev, Room/Area): Area : AUX, 5, CAL-AB-228



Area # AUX, 5, CAL-AB-228 8-7-12 195



Area # AUX, 5, CAL-AB-228 8-7-12 196



Area # AUX, 5, CAL-AB-228 8-7-12 197



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ATTACHMENT 4

AREA WALK-BY CHECKLIST

Status: Y N U

Area Walk-By Checklist (AWC)

Location (Bldg, Elev, Room/Area): Area : AUX, 70, CAL-AB-512

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
Tubing support has dislodged from its wall and some tubing is no longer clipped into its supports, however the tubing is very light and flexible and judged to be adequately supported, therefore not a seismic concern.
 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
*Cable tray and conduit supports are attached to building steel and judged acceptable.
Ducts in area are hung off braced frames and rods; no seismic concern noted.*
 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
*Masonry block walls, identified as A, B, C, ZZ and A1 on drawing A-260, are safety-related and thus seismically rated per IE Bulletin 80-11.
An overhead light near AHU #11 is supported by clamping to an overhead duct. The clamp surface is slightly sloped such that clamps may fall (i.e. slip off) and light will potentially strike duct, and remain suspended from conduit, either way the light will not adversely affect the AHU. Judged not to be a seismic concern, but SWEs recommend correcting this condition.*
 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
-

ATTACHMENT 4
AREA WALK-BY CHECKLIST

Status: Y N U

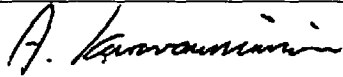
Area Walk-By Checklist (AWC)

Location (Bldg, Elev, Room/Area): Area : AUX, 70, CAL-AB-512

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
Observed an unrestrained step ladder but it is far from equipment and judged not a seismic concern.
A Tall ladder is restrained below its center of gravity, but equipment is protected by steel in the path of ladder movement and thus is not a seismic concern.
A smoke detector attachment was found on a Gaitronics Box, however it is not a 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:



A. Karavoussianis

Date: 11/09/2012



C. Figliolini

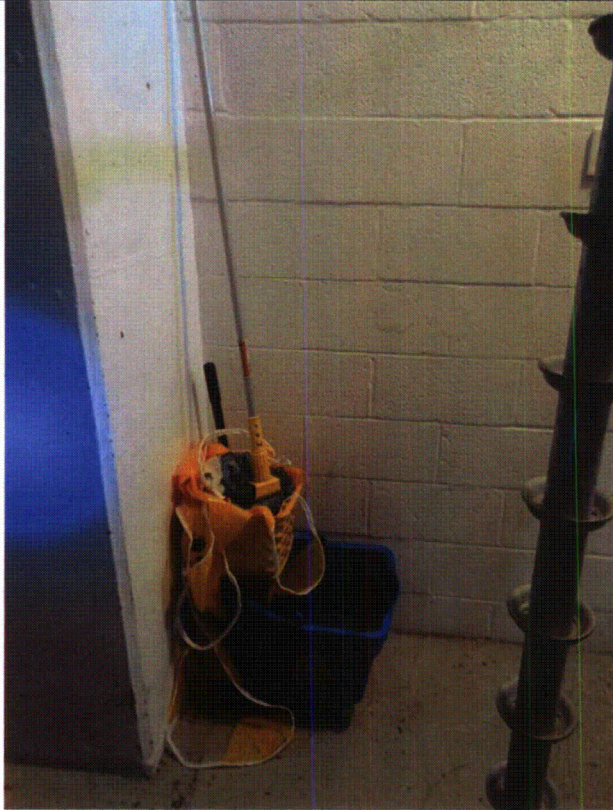
11/09/2012

ATTACHMENT 4
AREA WALK-BY CHECKLIST

Status: Y N U

Area Walk-By Checklist (AWC)

Location (Bldg, Elev, Room/Area): Area : AUX, 70, CAL-AB-512



Area # AUX, 70, CAL-AB-512 8-17-12 041



Area # AUX, 70, CAL-AB-512 8-17-12 042

ATTACHMENT 4
AREA WALK-BY CHECKLIST

Status: Y N U

Area Walk-By Checklist (AWC)

Location (Bldg, Elev, Room/Area): Area : AUX, 70, CAL-AB-512



Area # AUX, 70, CAL-AB-512 8-17-12 043



Area # AUX, 70, CAL-AB-512 8-17-12 044



Area # AUX, 70, CAL-AB-512 8-17-12 045



Area # AUX, 70, CAL-AB-512 8-17-12 046

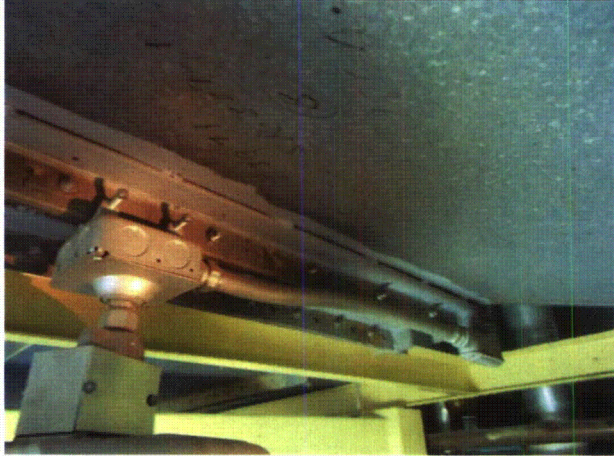
ATTACHMENT 4

AREA WALK-BY CHECKLIST

Status: Y N U

Area Walk-By Checklist (AWC)

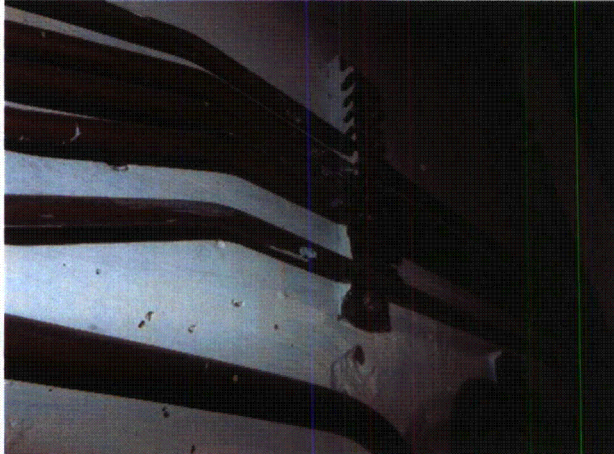
Location (Bldg, Elev, Room/Area): Area : AUX, 70, CAL-AB-512



Area # AUX, 70, CAL-AB-512 8-17-12 047



Area # AUX, 70, CAL-AB-512 8-17-12 048



Area # AUX, 70, CAL-AB-512 8-17-12 049



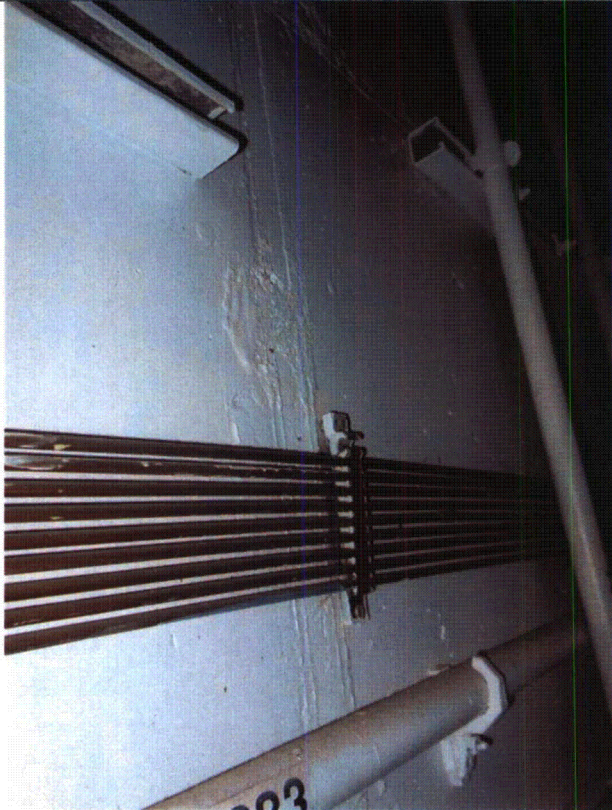
Area # AUX, 70, CAL-AB-512 8-17-12 050

ATTACHMENT 4
AREA WALK-BY CHECKLIST

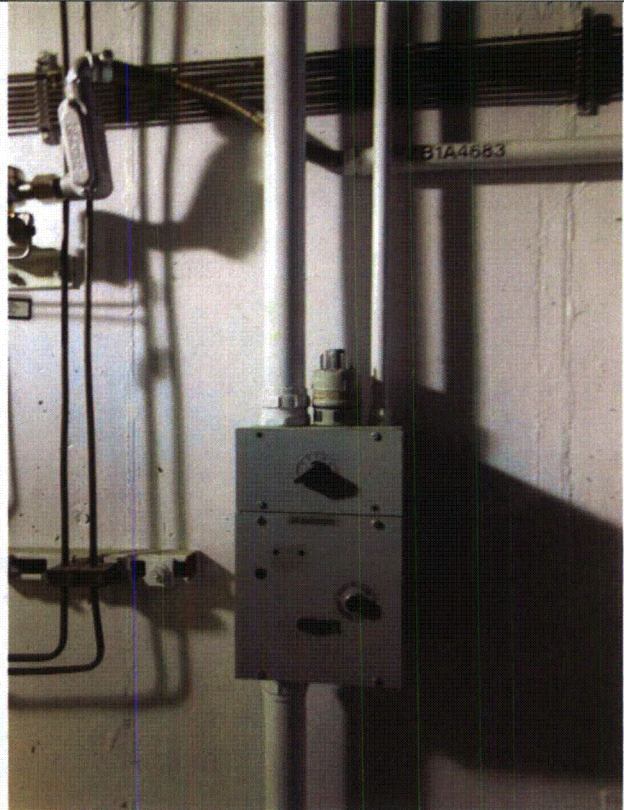
Status: Y N U

Area Walk-By Checklist (AWC)

Location (Bldg, Elev, Room/Area): Area : AUX, 70, CAL-AB-512



Area # AUX, 70, CAL-AB-512 8-17-12 051



Area # AUX, 70, CAL-AB-512 8-17-12 052

ATTACHMENT 4
AREA WALK-BY CHECKLIST

Status: Y N U

Area Walk-By Checklist (AWC)

Location (Bldg, Elev, Room/Area): Area : AUX, 70, CAL-AB-524

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
Need to determine if overhead lights are seismically adequate.
10/3/12 - Overhead lights were deemed not a credible seismic concern due to their lightweight and to typical construction practices. Also, they have been previously evaluated by CCNPP and found seismically acceptable.
 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
-

ATTACHMENT 4
AREA WALK-BY CHECKLIST

Status: Y N U

Area Walk-By Checklist (AWC)

Location (Bldg, Elev, Room/Area): Area : AUX, 70, CAL-AB-524

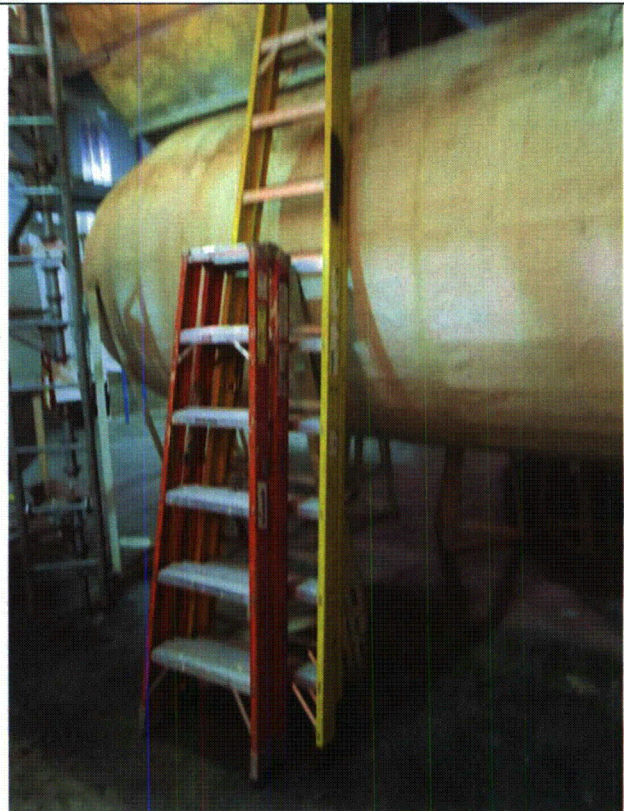
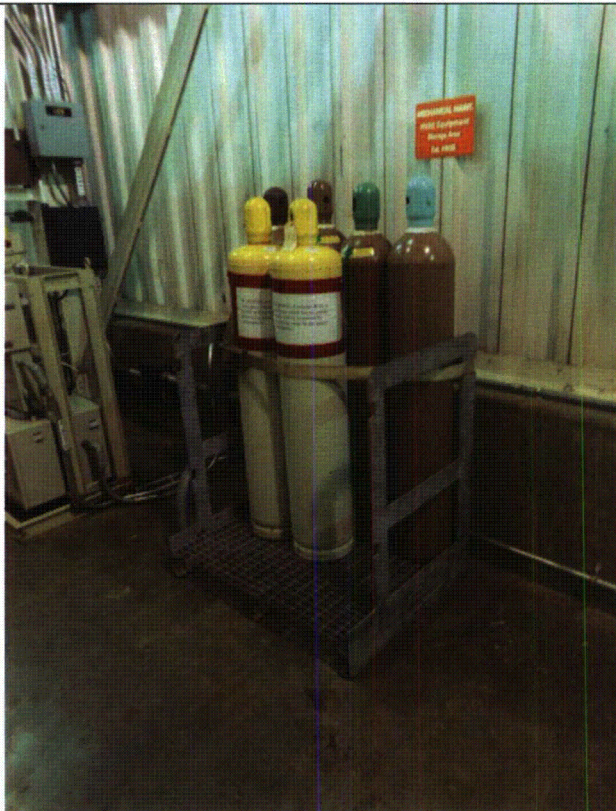
Found unrestrained ladders leaning against equipment and a square washer resting on a concrete pad, although not good housekeeping practices, judged not to be a seismic concern.

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: *A. Karavoussianis* A. Karavoussianis Date: 11/09/2012

C. Figliolini C. Figliolini 11/09/2012



ATTACHMENT 4

AREA WALK-BY CHECKLIST

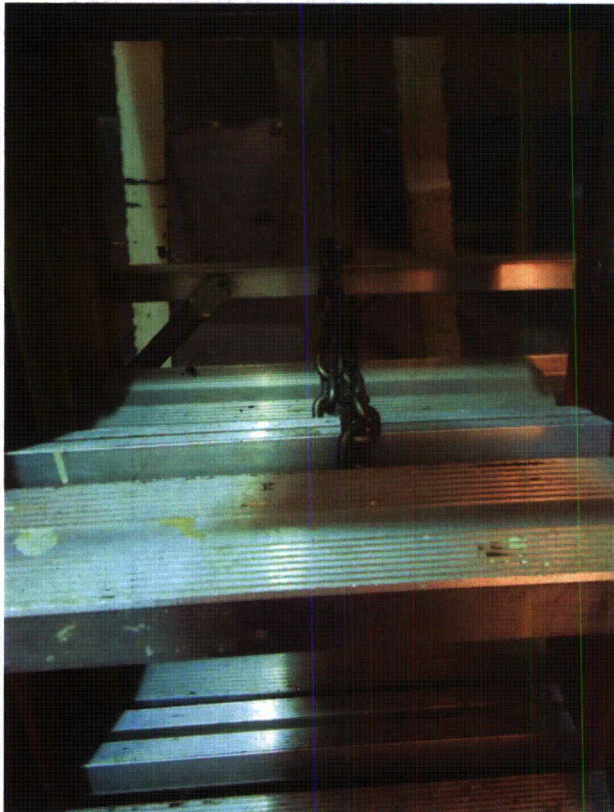
Status: Y N U

Area Walk-By Checklist (AWC)

Location (Bldg, Elev, Room/Area): Area : AUX, 70, CAL-AB-524

Area # AUX, 70, CAL-AB-524 8-10-12 142

Area # AUX, 70, CAL-AB-524 8-10-12 143



Area # AUX, 70, CAL-AB-524 8-10-12 144



Area # AUX, 70, CAL-AB-524 8-10-12 145

ATTACHMENT 4
AREA WALK-BY CHECKLIST

Status: Y N U

Area Walk-By Checklist (AWC)

Location (Bldg, Elev, Room/Area): Area : AUX, 70, CAL-AB-524



Area # AUX, 70, CAL-AB-524 8-10-12 147

ATTACHMENT 4

AREA WALK-BY CHECKLIST

Status: Y N U

Area Walk-By Checklist (AWC)

Location (Bldg, Elev, Room/Area): Area : AUX, 70, CAL-AB-525

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
Tubing and flex conduit for valve 1CV3820 crosses the building separation, however it is judged to have adequate flexibility. A 2" pipe crosses the building gap, however the first support is vertical only and therefore also judged to have adequate flexibility. Judged not a 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 temporary installations (e.g., scaffolding, lead shielding)? Yes
-

ATTACHMENT 4
AREA WALK-BY CHECKLIST

Status: Y N U

Area Walk-By Checklist (AWC)

Location (Bldg, Elev, Room/Area): Area : AUX, 70, CAL-AB-525

Observed portable ventilation unit with locked wheels and a portable tool cabinet with clamped wheels, both not a 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: *A. Karavoussianis* A. Karavoussianis Date: 11/09/2012
C. Figliolini C. Figliolini 11/09/2012



Area # AUX, 70, CAL-AB-525 8-9-12 126

ATTACHMENT 4

AREA WALK-BY CHECKLIST

Status: Y N U

Area Walk-By Checklist (AWC)

Location (Bldg, Elev, Room/Area): Area : AUX, 70, CAL-AB-525

Area # AUX, 70, CAL-AB-525 8-9-12 125



Area # AUX, 70, CAL-AB-525 8-9-12 130



Area # AUX, 70, CAL-AB-525 8-9-12 131



Area # AUX, 70, CAL-AB-525 8-9-12 132



Area # AUX, 70, CAL-AB-525 8-9-12 133

ATTACHMENT 4

AREA WALK-BY CHECKLIST

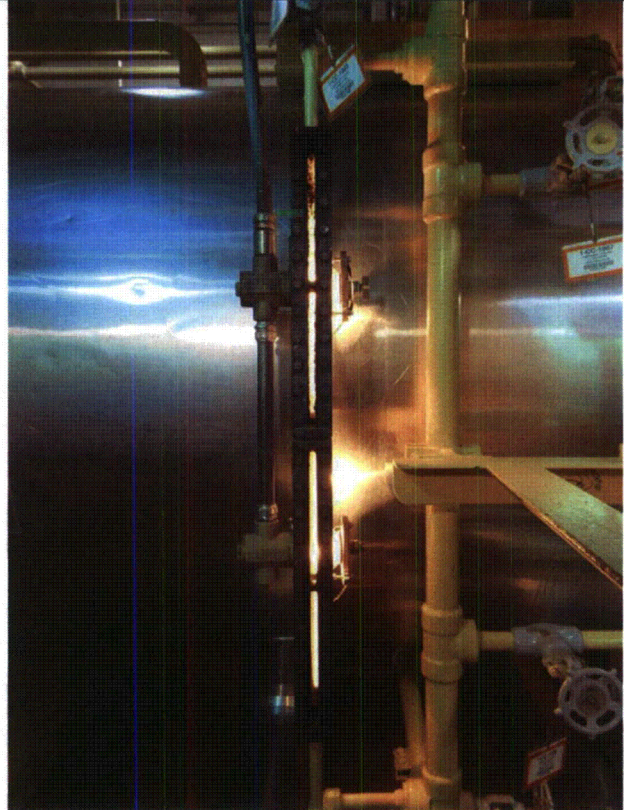
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Area Walk-By Checklist (AWC)

Location (Bldg, Elev, Room/Area): Area : AUX, 70, CAL-AB-525



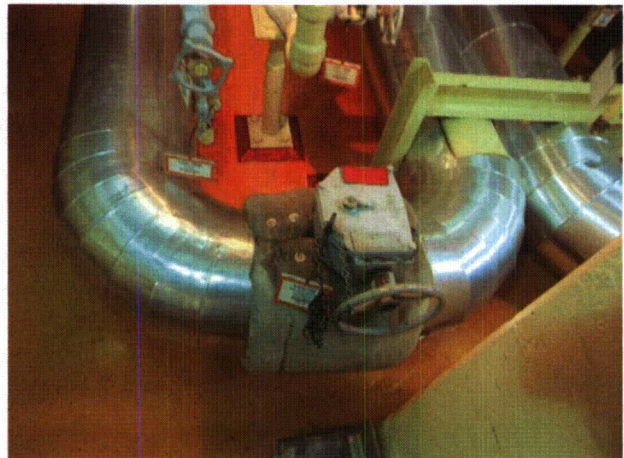
Area # AUX, 70, CAL-AB-525 8-9-12 134



Area # AUX, 70, CAL-AB-525 8-9-12 136



Area # AUX, 70, CAL-AB-525 8-9-12 137



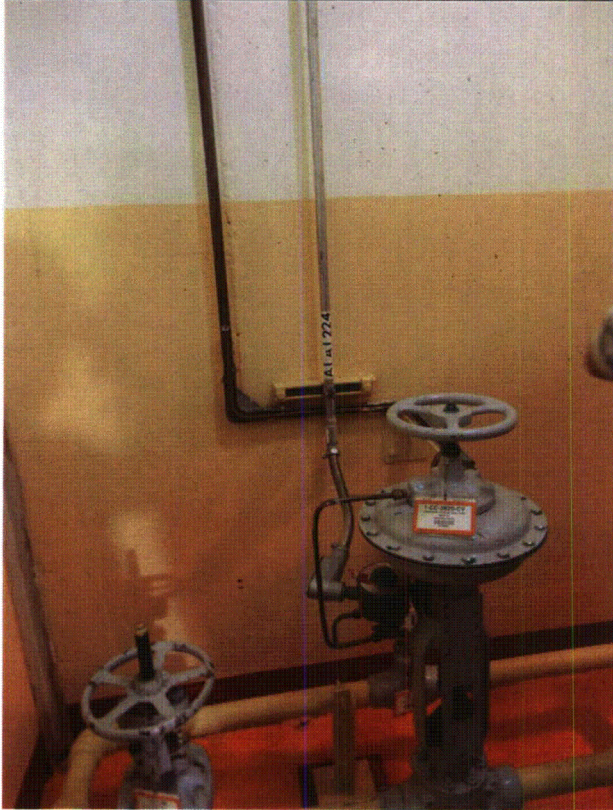
Area # AUX, 70, CAL-AB-525 8-9-12 138

ATTACHMENT 4
AREA WALK-BY CHECKLIST

Status: Y N U

Area Walk-By Checklist (AWC)

Location (Bldg, Elev, Room/Area): Area : AUX, 70, CAL-AB-525



Area # AUX, 70, CAL-AB-525 8-9-12 139



Area # AUX, 70, CAL-AB-525 8-9-12 140

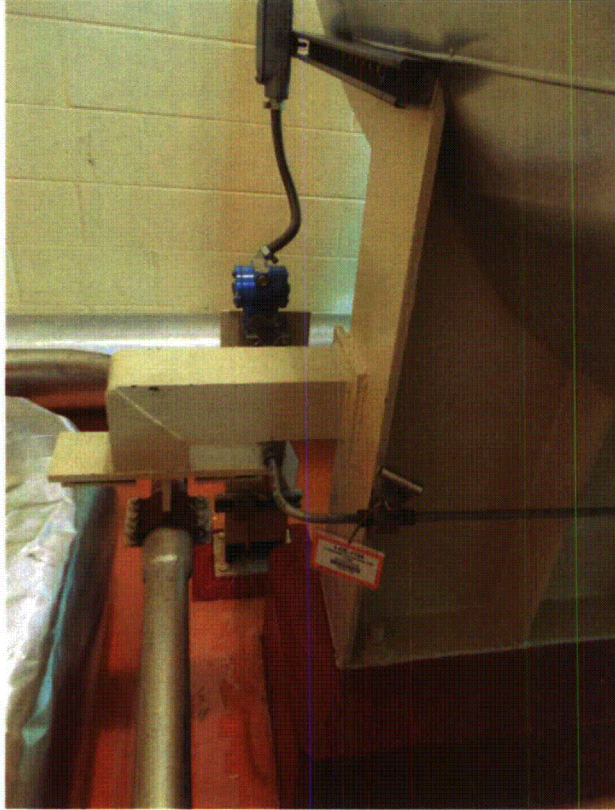
ATTACHMENT 4

AREA WALK-BY CHECKLIST

Status: Y N U

Area Walk-By Checklist (AWC)

Location (Bldg, Elev, Room/Area): Area : AUX, 70, CAL-AB-525



Area # AUX, 70, CAL-AB-525 8-9-12 141

ATTACHMENT 4

AREA WALK-BY CHECKLIST

Status: Y N U

Area Walk-By Checklist (AWC)

Location (Bldg, Elev, Room/Area): Area : AUX, 70, CAL-AB-ARF

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

ATTACHMENT 4
AREA WALK-BY CHECKLIST

Status: Y N U

Area Walk-By Checklist (AWC)

Location (Bldg, Elev, Room/Area): Area : AUX, 70, CAL-AB-ARF

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

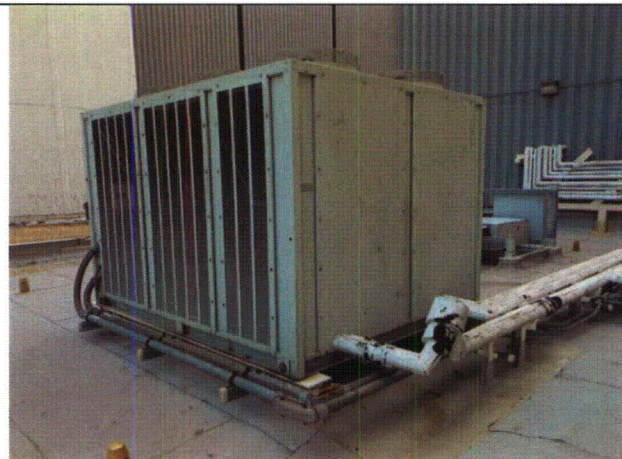
Comments

Evaluated by: *A. Karavoussianis* A. Karavoussianis Date: 11/09/2012

C. Figliolini C. Figliolini 11/09/2012



Area # AUX, 70, CAL-AB-ARF 8-13-12 002



Area # AUX, 70, CAL-AB-ARF 8-13-12 003

ATTACHMENT 4

AREA WALK-BY CHECKLIST

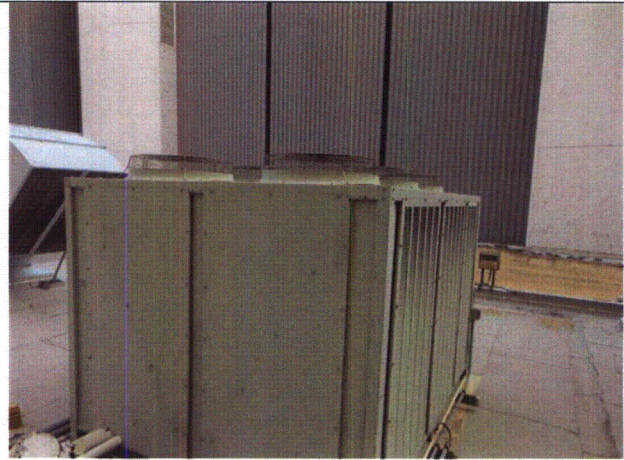
Status: Y N U

Area Walk-By Checklist (AWC)

Location (Bldg, Elev, Room/Area): Area : AUX, 70, CAL-AB-ARF



Area # AUX, 70, CAL-AB-ARF 8-13-12 005



Area # AUX, 70, CAL-AB-ARF 8-13-12 006



Area # AUX, 70, CAL-AB-ARF 8-13-12 012



Area # AUX, 70, CAL-AB-ARF 8-13-12 013

ATTACHMENT 4

AREA WALK-BY CHECKLIST

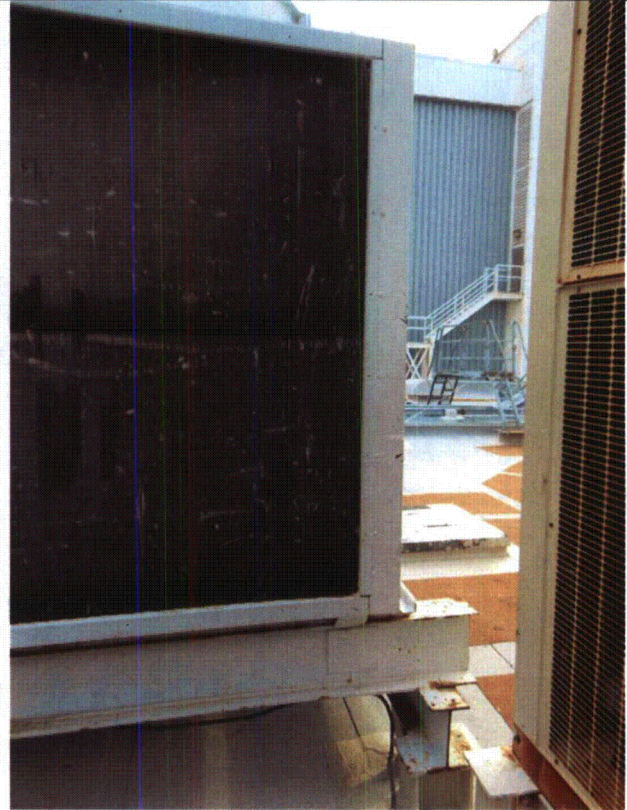
Status: Y N U

Area Walk-By Checklist (AWC)

Location (Bldg, Elev, Room/Area): Area : AUX, 70, CAL-AB-ARF



Area # AUX, 70, CAL-AB-ARF 8-13-12 015



Area # AUX, 70, CAL-AB-ARF 8-13-12 019

ATTACHMENT 4
AREA WALK-BY CHECKLIST

Status: Y N U

Area Walk-By Checklist (AWC)

Location (Bldg, Elev, Room/Area): Area : AUX, 70, CAL-AB-ARF



Area # AUX, 70, CAL-AB-ARF 8-13-12 020



Area # AUX, 70, CAL-AB-ARF 8-13-12 021



Area # AUX, 70, CAL-AB-ARF 8-13-12 026



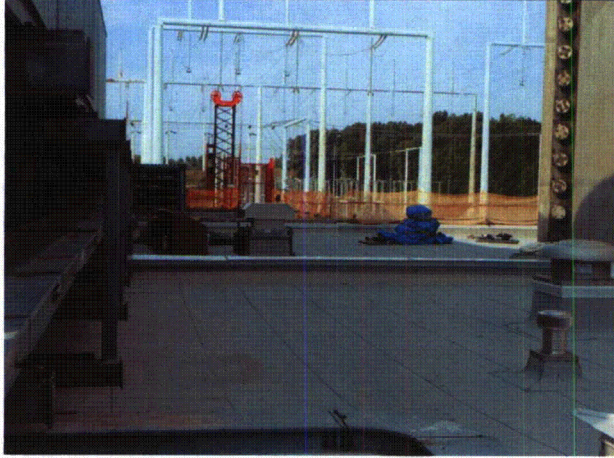
Area # AUX, 70, CAL-AB-ARF 8-13-12 029

ATTACHMENT 4
AREA WALK-BY CHECKLIST

Status: Y N U

Area Walk-By Checklist (AWC)

Location (Bldg, Elev, Room/Area): Area : AUX, 70, CAL-AB-ARF



Area # AUX, 70, CAL-AB-ARF 8-13-12 030



Area # AUX, 70, CAL-AB-ARF 8-13-12 031

ATTACHMENT 4
AREA WALK-BY CHECKLIST

Status: Y N U

Area Walk-By Checklist (AWC)

Location (Bldg, Elev, Room/Area): Area : AUX, 70, CAL-AB-ARF



Area # AUX, 70, CAL-AB-ARF 8-13-12 033



Area # AUX, 70, CAL-AB-ARF 8-13-12 035

ATTACHMENT 4

AREA WALK-BY CHECKLIST

Status: Y N U

Area Walk-By Checklist (AWC)

Location (Bldg, Elev, Room/Area): Area : DG, 45, CAL-DGB1-DB102

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?
The overhead threaded fire piping is judged to be adequately supported and not a concern for spray or flooding. 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
-

ATTACHMENT 4
AREA WALK-BY CHECKLIST

Status: Y N U

Area Walk-By Checklist (AWC)

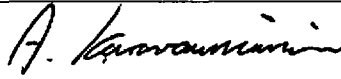
Location (Bldg, Elev, Room/Area): Area : DG, 45, CAL-DGB1-DB102

Observed scaffolding without a seismic tag near the starting air receiver, however 3 of the 4 scaffold legs are hooked to the floor grating, one corner is braced to Platform steel, one side is wedged to wall via pipe section, and the platform is braced. SWEs judged the platform may shift and bounce, but will not hit air receivers or associated tubing and devices and therefore not an adverse seismic condition. This condition is similar to Air Receivers 1A2.

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:



A. Karavoussianis

Date: 11/09/2012



C. Figliolini

11/09/2012

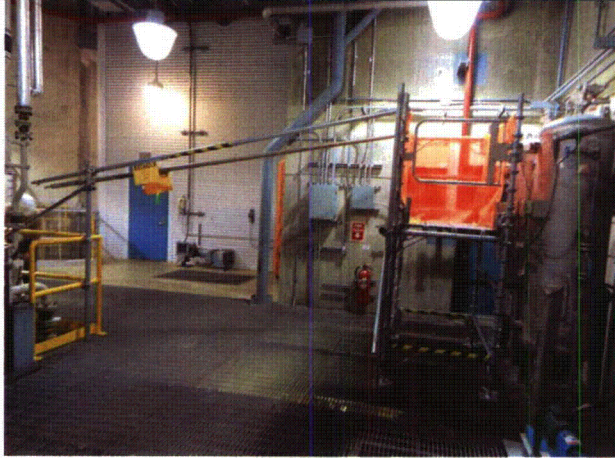
ATTACHMENT 4

AREA WALK-BY CHECKLIST

Status: Y N U

Area Walk-By Checklist (AWC)

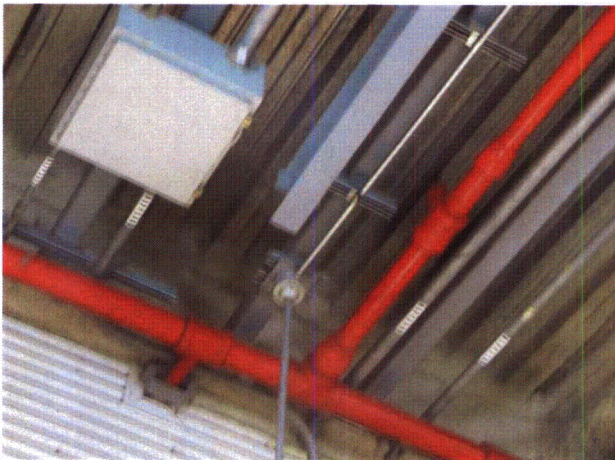
Location (Bldg, Elev, Room/Area): Area : DG, 45, CAL-DGB1-DB102



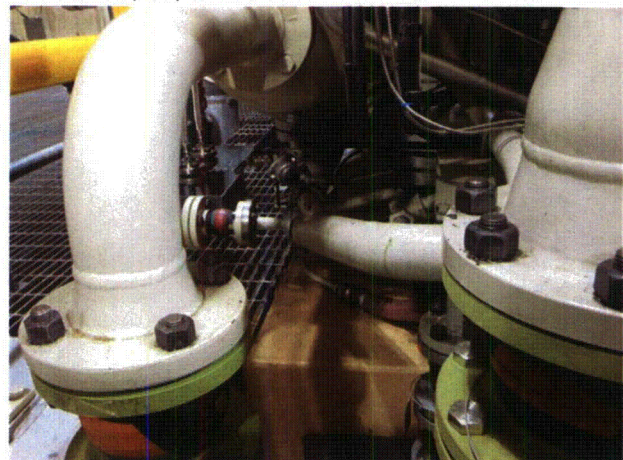
Area # DG, 45, CAL-DGB1-DB102 8-15-12 049

SCAFFOLD#	
WOP	C91940 211-1
LOCATION	1A D6 Room
REQUESTOR	Glen Jones
PHONE#	4310
SEISMIC - YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>	
COMMENTS	Braced
ERECTED BY	DATE
Rich P.K.	7/18/12
COMPETENT PERSON	DATE
D.K.	7/18/12
ENGINEER/QUALIFIED PERSON	DATE

Area # DG, 45, CAL-DGB1-DB102 8-15-12 050



Area # DG, 45, CAL-DGB1-DB102 8-15-12 051



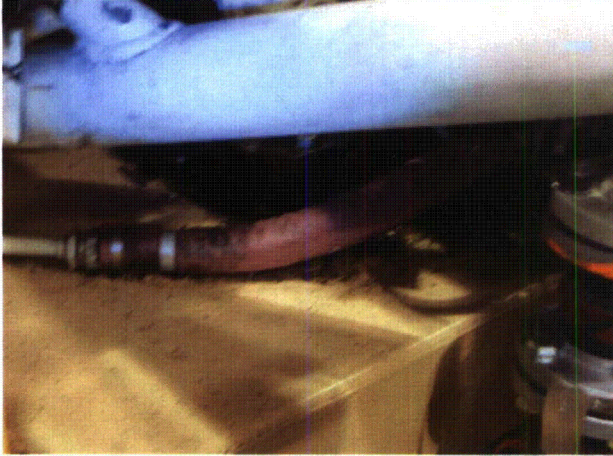
Area # DG, 45, CAL-DGB1-DB102 8-15-12 052

ATTACHMENT 4
AREA WALK-BY CHECKLIST

Status: Y N U

Area Walk-By Checklist (AWC)

Location (Bldg, Elev, Room/Area): Area : DG, 45, CAL-DGB1-DB102



Area # DG, 45, CAL-DGB1-DB102 8-15-12 053

ATTACHMENT 4

AREA WALK-BY CHECKLIST

Status: Y N U

Area Walk-By Checklist (AWC)

Location (Bldg, Elev, Room/Area): Area : DG, 45, CAL-DGB1-DB104

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
The overhead threaded fire piping is judged to be adequately supported and not a concern for spray or flooding.

 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
-

ATTACHMENT 4
AREA WALK-BY CHECKLIST

Status: Y N U

Area Walk-By Checklist (AWC)

Location (Bldg, Elev, Room/Area): Area : DG, 45, CAL-DGB1-DB104

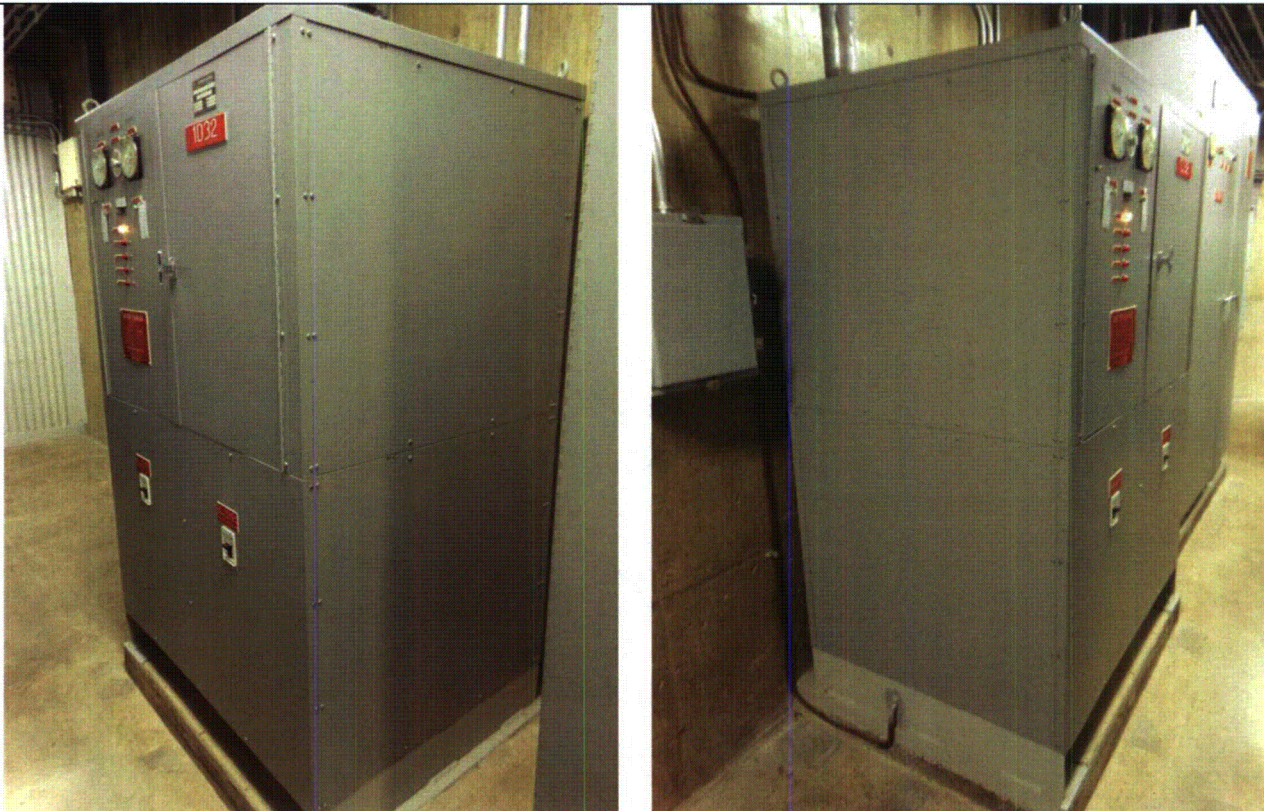
Ops and maintenance equipment are staged in one corner without proper seismic restraint. The equipment will shift and fall to the floor but will not cause an adverse seismic condition and therefore judged acceptable.

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: *A. Karavoussianis* A. Karavoussianis Date: 11/09/2012

C. Figliolini C. Figliolini 11/09/2012



ATTACHMENT 4

AREA WALK-BY CHECKLIST

Status: Y N U

Area Walk-By Checklist (AWC)

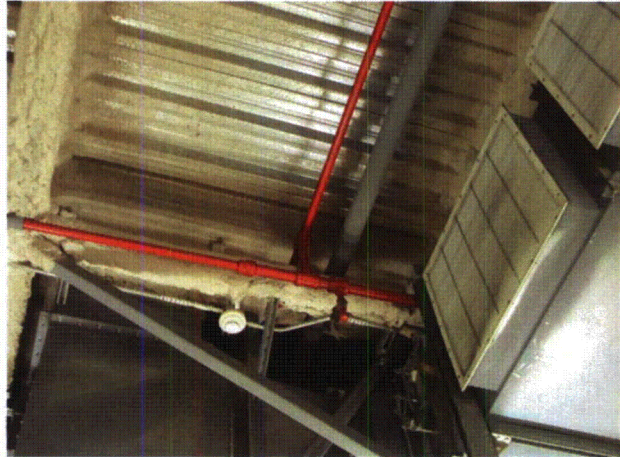
Location (Bldg, Elev, Room/Area): Area : DG, 45, CAL-DGB1-DB104

Area # DG, 45, CAL-DGB1-DB104 8-15-12 056

Area # DG, 45, CAL-DGB1-DB104 8-15-12 057



Area # DG, 45, CAL-DGB1-DB104 8-15-12 062



Area # DG, 45, CAL-DGB1-DB104 8-15-12 063

ATTACHMENT 4
AREA WALK-BY CHECKLIST

Status: Y N U

Area Walk-By Checklist (AWC)

Location (Bldg, Elev, Room/Area): Area : DG, 45, CAL-DGB1-DB104



Area # DG, 45, CAL-DGB1-DB104 8-15-12 064

ATTACHMENT 4

AREA WALK-BY CHECKLIST

Status: Y N U

Area Walk-By Checklist (AWC)

Location (Bldg, Elev, Room/Area): Area : DG, 45, CAL-DGB1-DB106

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?
The overhead threaded fire piping is judged to be adequately supported and not a concern for spray or flooding. 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
-

ATTACHMENT 4
AREA WALK-BY CHECKLIST

Status: Y N U

Area Walk-By Checklist (AWC)

Location (Bldg, Elev, Room/Area): Area : DG, 45, CAL-DGB1-DB106

Craft tools were found in certain areas indicating work is in progress, however this was judged not a 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: *A. Karavoussianis* A. Karavoussianis Date: 11/09/2012

C. Figliolini C. Figliolini 11/09/2012



Area # DG, 45, CAL-DGB1-DB106 8-15-12 067



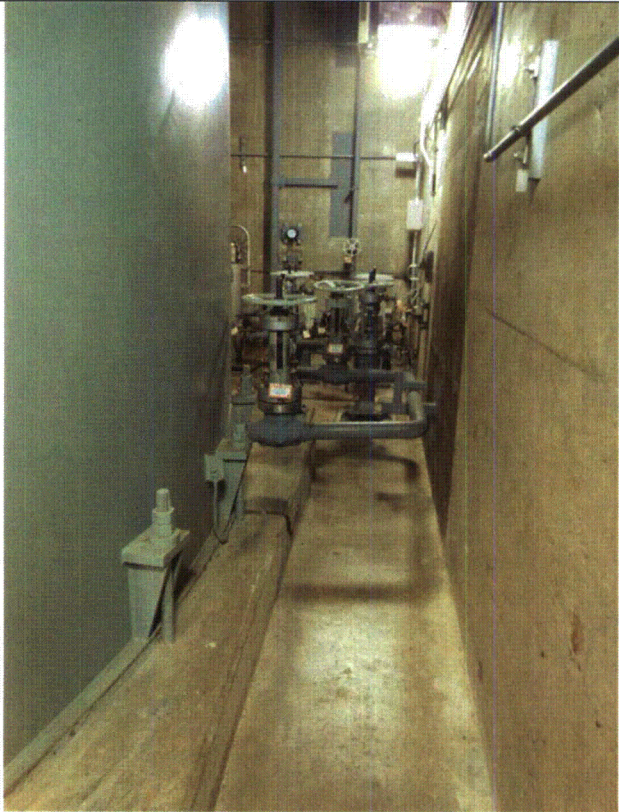
Area # DG, 45, CAL-DGB1-DB106 8-15-12 068

ATTACHMENT 4
AREA WALK-BY CHECKLIST

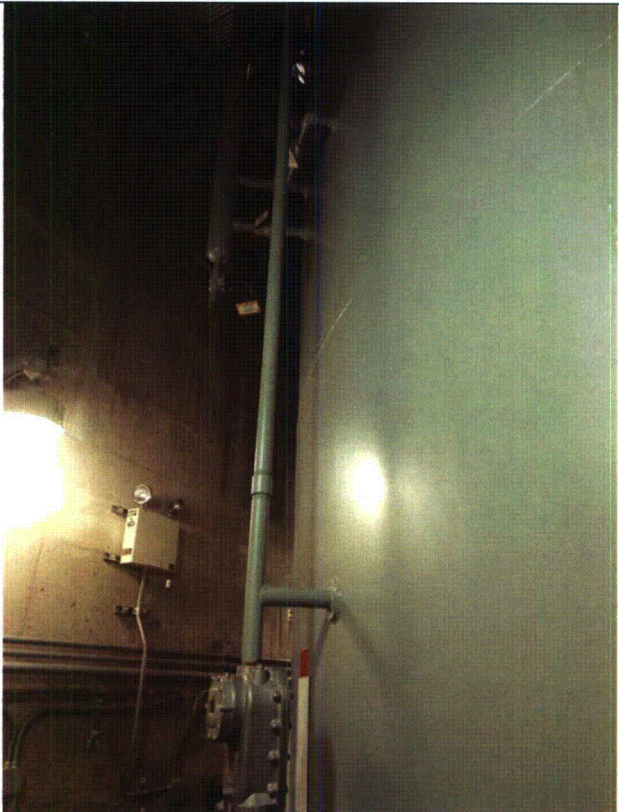
Status: Y N U

Area Walk-By Checklist (AWC)

Location (Bldg, Elev, Room/Area): Area : DG, 45, CAL-DGB1-DB106



Area # DG, 45, CAL-DGB1-DB106 8-15-12 069



Area # DG, 45, CAL-DGB1-DB106 8-15-12 071

ATTACHMENT 4
AREA WALK-BY CHECKLIST

Status: Y N U

Area Walk-By Checklist (AWC)

Location (Bldg, Elev, Room/Area): Area : DG, 45, CAL-DGB1-DB106



Area # DG, 45, CAL-DGB1-DB106 8-15-12 073



Area # DG, 45, CAL-DGB1-DB106 8-15-12 074

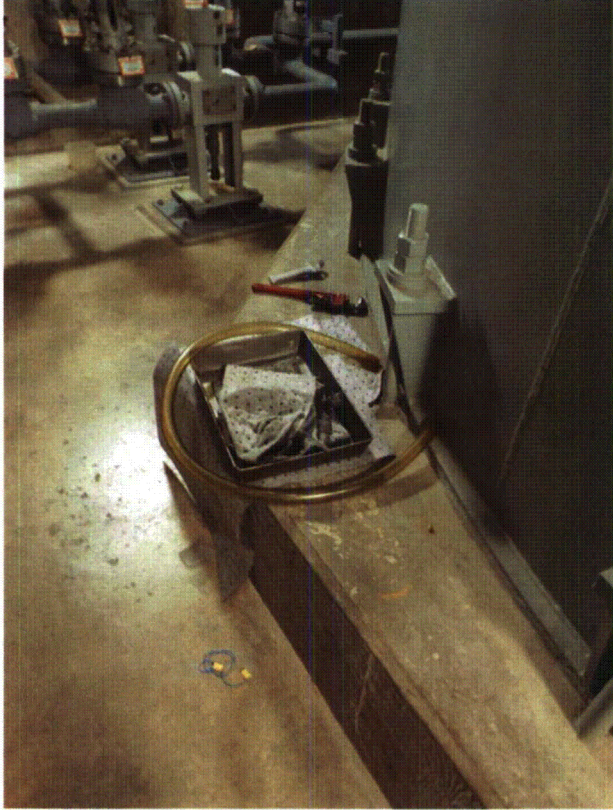
ATTACHMENT 4

AREA WALK-BY CHECKLIST

Status: Y N U

Area Walk-By Checklist (AWC)

Location (Bldg, Elev, Room/Area): Area : DG, 45, CAL-DGB1-DB106



Area # DG, 45, CAL-DGB1-DB106 8-15-12 075



Area # DG, 45, CAL-DGB1-DB106 8-15-12 076

ATTACHMENT 4

AREA WALK-BY CHECKLIST

Status: Y N U

Area Walk-By Checklist (AWC)

Location (Bldg, Elev, Room/Area): Area : DG, 74, CAL-DGB1-DB206

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
The overhead threaded fire piping is judged to be adequately supported and not a concern for spray or flooding.

 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
-

ATTACHMENT 4
AREA WALK-BY CHECKLIST

Status: Y N U

Area Walk-By Checklist (AWC)

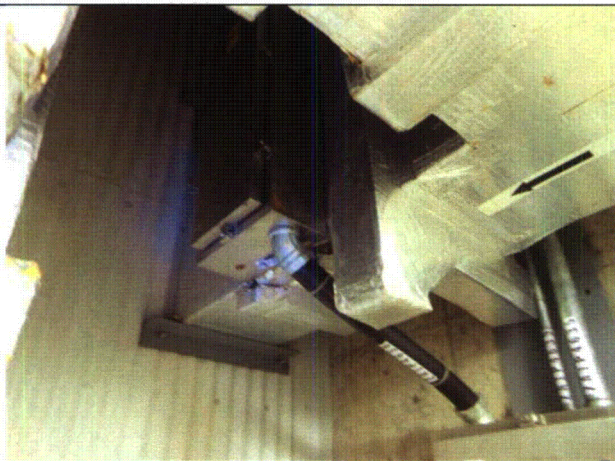
Location (Bldg, Elev, Room/Area): Area : DG, 74, CAL-DGB1-DB206

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: *A. Karavoussianis* A. Karavoussianis Date: 11/09/2012

C. Figliolini C. Figliolini 11/09/2012



Area # DG, 74, CAL-DGB1-DB206 8-15-12 078



Area # DG, 74, CAL-DGB1-DB206 8-15-12 080

ATTACHMENT 4

AREA WALK-BY CHECKLIST

Status: Y N U

Area Walk-By Checklist (AWC)

Location (Bldg, Elev, Room/Area): Area : DG, 77, CAL-DGB1-DB207

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
The overhead threaded fire piping is judged to be adequately supported and not a concern for spray or flooding.

 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
-

ATTACHMENT 4
AREA WALK-BY CHECKLIST

Status: Y N U

Area Walk-By Checklist (AWC)

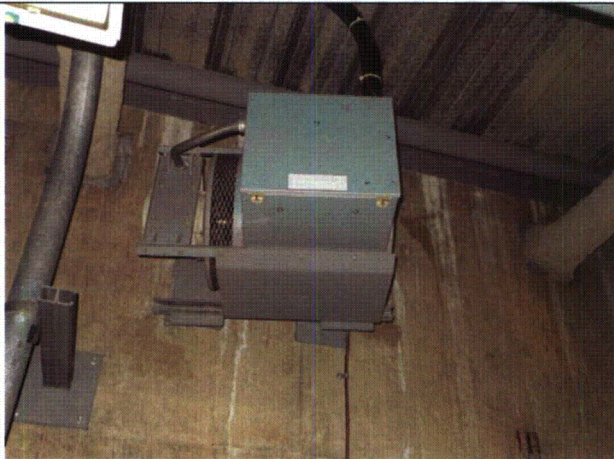
Location (Bldg, Elev, Room/Area): Area : DG, 77, CAL-DGB1-DB207

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

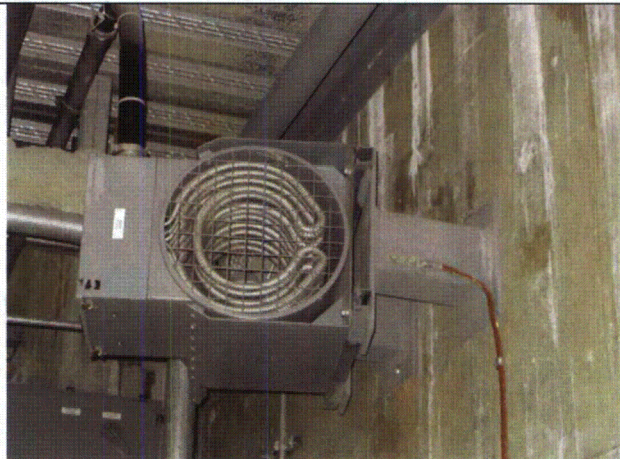
Comments

Evaluated by: *A. Karavoussianis* A. Karavoussianis Date: 11/09/2012

C. Figliolini C. Figliolini 11/09/2012



Area # DG, 77, CAL-DGB1-DB207 8-15-12 082



Area # DG, 77, CAL-DGB1-DB207 8-15-12 083

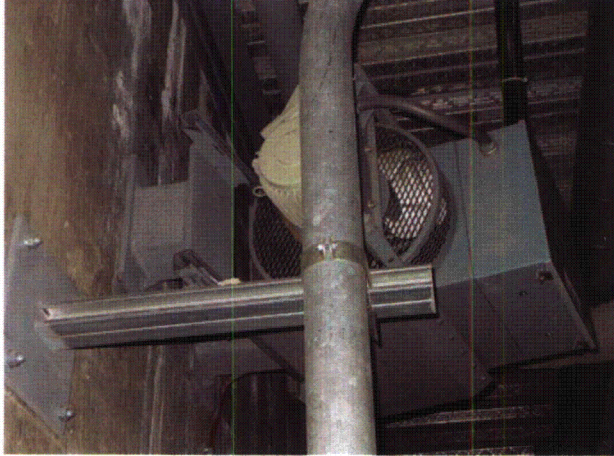
ATTACHMENT 4

AREA WALK-BY CHECKLIST

Status: Y N U

Area Walk-By Checklist (AWC)

Location (Bldg, Elev, Room/Area): Area : DG, 77, CAL-DGB1-DB207



Area # DG, 77, CAL-DGB1-DB207 8-15-12 085

ATTACHMENT 4
AREA WALK-BY CHECKLIST

Status: Y N U

Area Walk-By Checklist (AWC)

Location (Bldg, Elev, Room/Area): Area : DG, 89, CAL-DGB1-DB307

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

ATTACHMENT 4
AREA WALK-BY CHECKLIST

Status: Y N U

Area Walk-By Checklist (AWC)

Location (Bldg, Elev, Room/Area): Area : DG, 89, CAL-DGB1-DB307

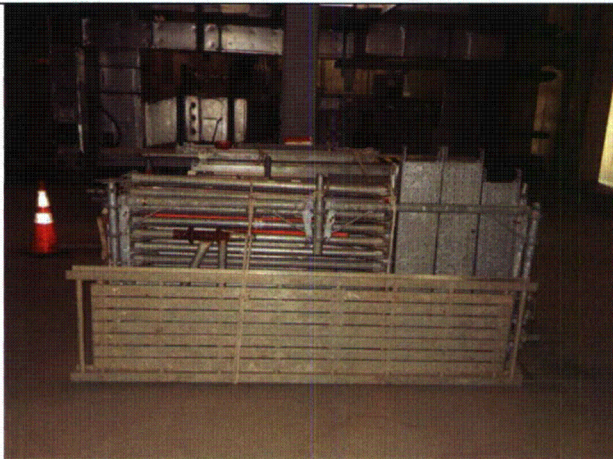
Observed a scaffold storage area far from equipment. Scaffold parts are stored in tube steel bin and within scaffold frame therefore both are judged adequate.

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: *A. Karavoussianis* A. Karavoussianis Date: 11/09/2012

C. Figliolini C. Figliolini 11/09/2012



Area # DG, 89, CAL-DGB1-DB307 8-15-12 101



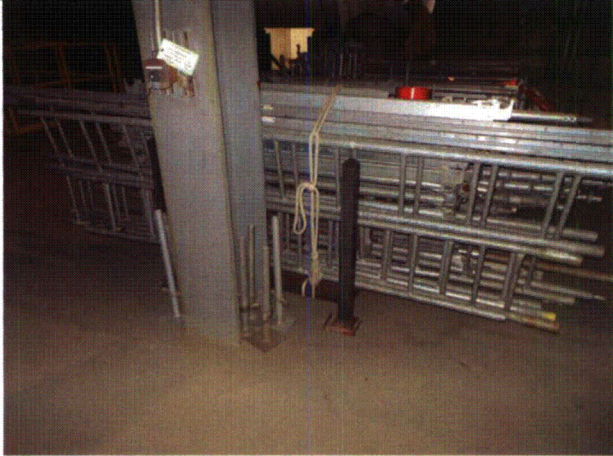
Area # DG, 89, CAL-DGB1-DB307 8-15-12 102

ATTACHMENT 4
AREA WALK-BY CHECKLIST

Status: Y N U

Area Walk-By Checklist (AWC)

Location (Bldg, Elev, Room/Area): Area : DG, 89, CAL-DGB1-DB307



Area # DG, 89, CAL-DGB1-DB307 8-15-12 103

ATTACHMENT 4

AREA WALK-BY CHECKLIST

Status: Y N U

Area Walk-By Checklist (AWC)

Location (Bldg, Elev, Room/Area): Area : Intake, -7, CAL-ISPR-INT1

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 temporary installations (e.g., scaffolding, lead shielding)? No
-

ATTACHMENT 4

AREA WALK-BY CHECKLIST

Status: Y N U

Area Walk-By Checklist (AWC)

Location (Bldg, Elev, Room/Area): Area : Intake, -7, CAL-ISPR-INT1

*Observed a scaffold staging area. The scaffolds part are stored in racks and far enough from equipment, judged not a seismic concern.
Tools and fall protection is being stored in ladder that is lying flat on the ground. This condition is not a seismic concern.*

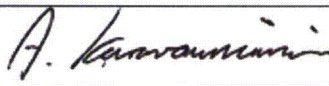

Potential seismic concerns:

*Portable flow monitors are close to pump pit, so that they may fall in and possibly strike small bore piping in pit. Refer to SWC & CR-2012-009091 for 1PUMPSW11 & 1PUMPSW12
CR-2012-008387 UNO*

*There is a scaffold that may shift and strike JB 1J025B.
Observed a ladder in close proximity to tube for 1-PT5221.*

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:	 A. Karavoussianis	Date: 11/09/2012
	 C. Figliolini	11/09/2012



Area # Intake, 8-7, CAL-ISPR-INT1 8-16-12 194



Area # Intake, 8-7, CAL-ISPR-INT1 8-16-12 195

ATTACHMENT 4

AREA WALK-BY CHECKLIST

Status: Y N U

Area Walk-By Checklist (AWC)

Location (Bldg, Elev, Room/Area): Area : Intake, -7, CAL-ISPR-INT1



Area # Intake, 8-7, CAL-ISPR-INT1 8-16-12 196



Area # Intake, 8-7, CAL-ISPR-INT1 8-16-12 197



Area # Intake, 8-7, CAL-ISPR-INT1 8-16-12 202



Area # Intake, 8-7, CAL-ISPR-INT1 8-16-12 203

ATTACHMENT 4

AREA WALK-BY CHECKLIST

Status: Y N U

Area Walk-By Checklist (AWC)

Location (Bldg, Elev, Room/Area): Area : Intake, -7, CAL-ISPR-INT1



Area # Intake, 8-7, CAL-ISPR-INT1 8-16-12 204



Area # Intake, 8-7, CAL-ISPR-INT1 8-16-12 205

ATTACHMENT 4
AREA WALK-BY CHECKLIST

Status: Y N U

Area Walk-By Checklist (AWC)

Location (Bldg, Elev, Room/Area): Area : Intake, -7, CAL-ISPR-INT1



Area # Intake, 8-7, CAL-ISPR-INT1 8-16-12 206



Area # Intake, 8-7, CAL-ISPR-INT1 8-16-12 207

ATTACHMENT 4

AREA WALK-BY CHECKLIST

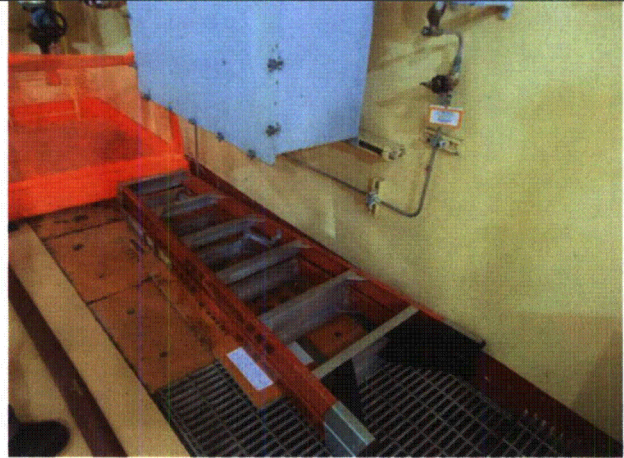
Status: Y N U

Area Walk-By Checklist (AWC)

Location (Bldg, Elev, Room/Area): Area : Intake, -7, CAL-ISPR-INT1



Area # Intake, 8-7, CAL-ISPR-INT1 8-16-12 208



Area # Intake, 8-7, CAL-ISPR-INT1 8-16-12 209

ATTACHMENT 4

AREA WALK-BY CHECKLIST

Status: Y N U

Area Walk-By Checklist (AWC)

Location (Bldg, Elev, Room/Area): Area : Intake, -7, CAL-ISPR-INT1



Area # Intake, 8-7, CAL-ISPR-INT1 8-16-12 211



Area # Intake, 8-7, CAL-ISPR-INT1 8-16-12 212

ATTACHMENT 4

AREA WALK-BY CHECKLIST

Status: Y N U

Area Walk-By Checklist (AWC)

Location (Bldg, Elev, Room/Area): Area : Intake, -7, CAL-ISPR-INT1



Area # Intake, 8-7, CAL-ISPR-INT1 8-16-12 213

ATTACHMENT 4

AREA WALK-BY CHECKLIST

Status: Y N U

Area Walk-By Checklist (AWC)

Location (Bldg, Elev, Room/Area): Area : TURB, 12, CAL-AFWPR-603

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
Need to determine if lights are seismically adequate.
10/3/12 - Overhead lights were deemed not a credible seismic concern due to their lightweight and to typical construction practices. Also, they have been previously evaluated by CCNPP and found seismically acceptable.
 5. Does it appear that the area is free of potentially adverse seismic interactions that could cause flooding or spray in the area? Yes
The overhead threaded fire piping is judged to be adequately supported and not a concern for spray or flooding.

 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
-

ATTACHMENT 4
AREA WALK-BY CHECKLIST

Status: Y N U

Area Walk-By Checklist (AWC)

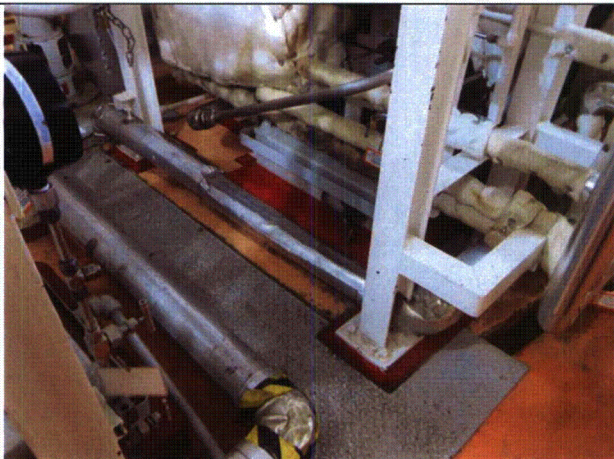
Location (Bldg, Elev, Room/Area): Area : TURB, 12, CAL-AFWPR-603

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

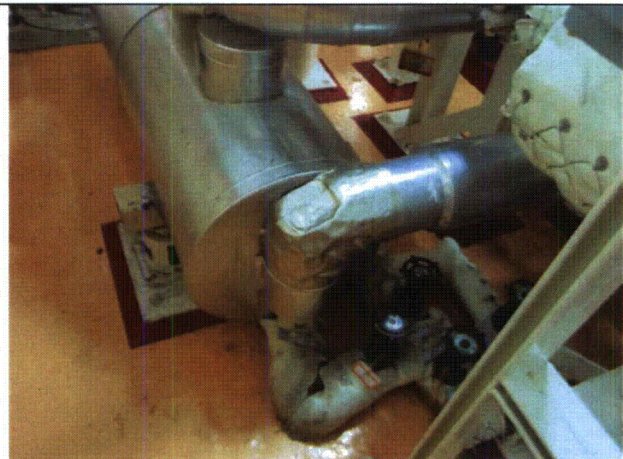
Comments

Evaluated by: *A. Karavoussianis* A. Karavoussianis Date: 11/09/2012

C. Figliolini C. Figliolini 11/09/2012



Area # TURB, 12, CAL-AFWPR-603 8-10-12 032



Area # TURB, 12, CAL-AFWPR-603 8-10-12 033

ATTACHMENT 4

AREA WALK-BY CHECKLIST

Status: Y N U

Area Walk-By Checklist (AWC)

Location (Bldg, Elev, Room/Area): Area : TURB, 12, CAL-AFWPR-603



Area # TURB, 12, CAL-AFWPR-603 8-10-12 034

ATTACHMENT 4
AREA WALK-BY CHECKLIST

Status: Y N U

Area Walk-By Checklist (AWC)

Location (Bldg, Elev, Room/Area): Area : Yard, 45, CAL-21F0STBLDG

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

ATTACHMENT 4
AREA WALK-BY CHECKLIST

Status: Y N U

Area Walk-By Checklist (AWC)

Location (Bldg, Elev, Room/Area): Area : Yard, 45, CAL-21F0STBLDG

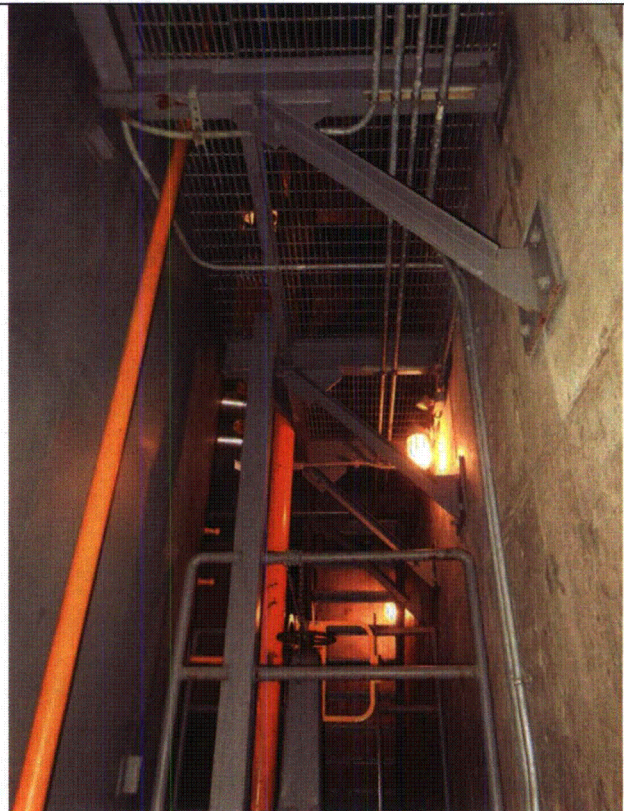
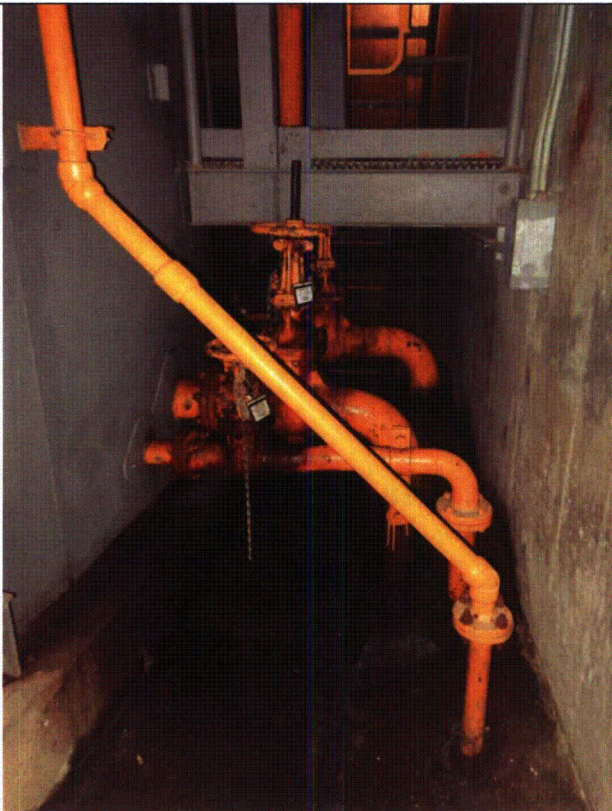
Observed a wrench left on a tank base, but it is not a concern.

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: *A. Karavoussianis* A. Karavoussianis Date: 11/09/2012

C. Figliolini C. Figliolini 11/09/2012



ATTACHMENT 4
AREA WALK-BY CHECKLIST

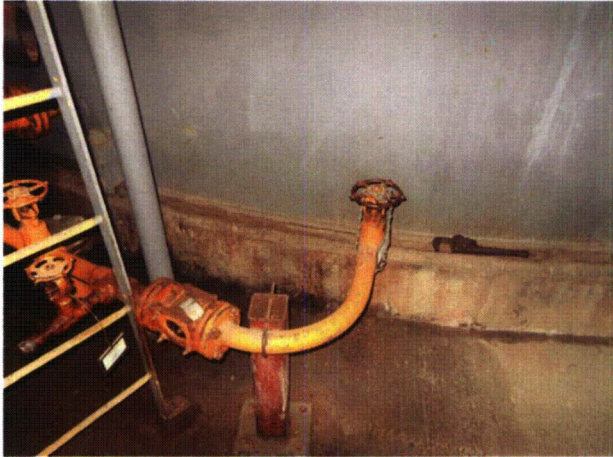
Status: Y N U

Area Walk-By Checklist (AWC)

Location (Bldg, Elev, Room/Area): Area : Yard, 45, CAL-21FOSTBLDG

Area # Yard, 45, CAL-21FOSTBLDG 8-13-12 077

Area # Yard, 45, CAL-21FOSTBLDG 8-13-12 078



Area # Yard, 45, CAL-21FOSTBLDG 8-13-12 079



Area # Yard, 45, CAL-21FOSTBLDG 8-13-12 080

ATTACHMENT 4
AREA WALK-BY CHECKLIST

Status: Y N U

Area Walk-By Checklist (AWC)

Location (Bldg, Elev, Room/Area): Area : Yard, 45, CAL-21FOSTBLDG



Area # Yard, 45, CAL-21FOSTBLDG 8-13-12 081



Area # Yard, 45, CAL-21FOSTBLDG 8-13-12 082

ATTACHMENT 4
AREA WALK-BY CHECKLIST

Status: Y N U

Area Walk-By Checklist (AWC)

Location (Bldg, Elev, Room/Area): Area : Yard, 45, CAL-21FOSTBLDG



Area # Yard, 45, CAL-21FOSTBLDG 8-13-12 083



Area # Yard, 45, CAL-21FOSTBLDG 8-13-12 084

ATTACHMENT 4
AREA WALK-BY CHECKLIST

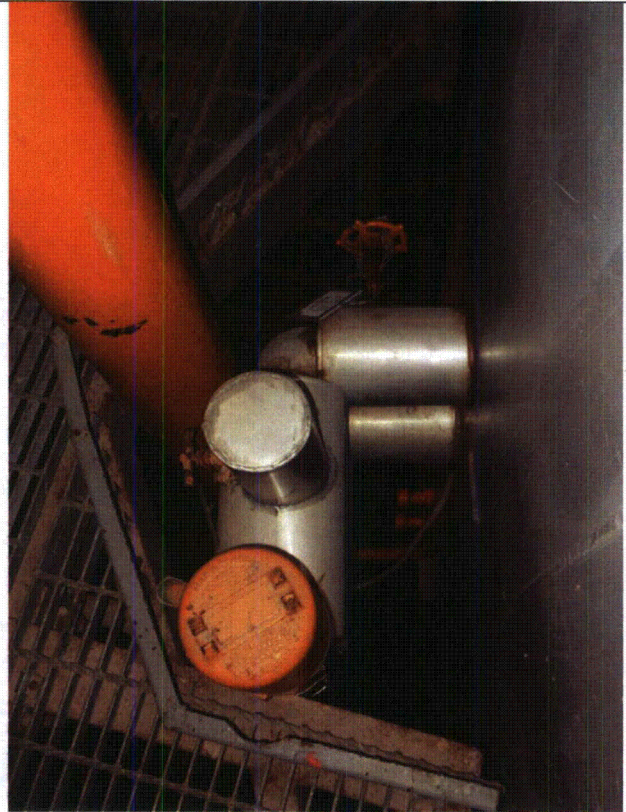
Status: Y N U

Area Walk-By Checklist (AWC)

Location (Bldg, Elev, Room/Area): Area : Yard, 45, CAL-21FOSTBLDG



Area # Yard, 45, CAL-21FOSTBLDG 8-13-12 085



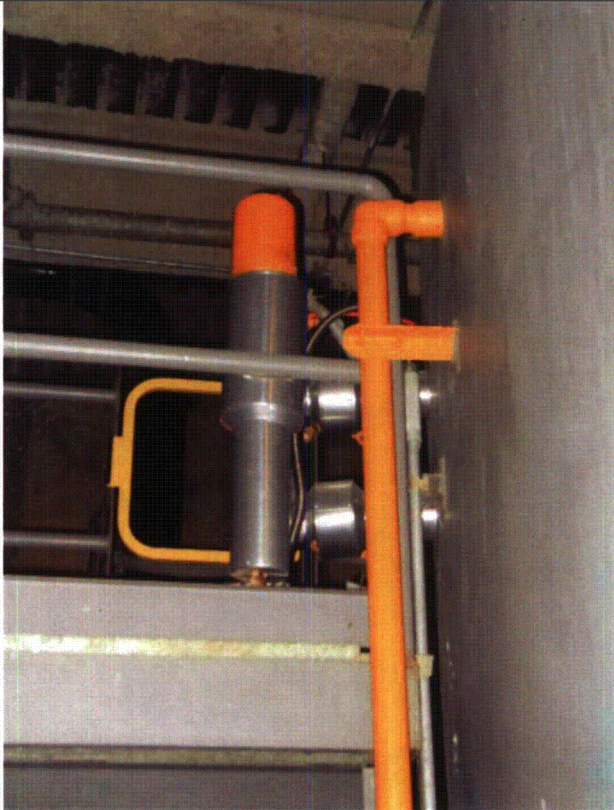
Area # Yard, 45, CAL-21FOSTBLDG 8-13-12 087

ATTACHMENT 4
AREA WALK-BY CHECKLIST

Status: Y N U

Area Walk-By Checklist (AWC)

Location (Bldg, Elev, Room/Area): Area : Yard, 45, CAL-21FOSTBLDG



Area # Yard, 45, CAL-21FOSTBLDG 8-13-12 088



Area # Yard, 45, CAL-21FOSTBLDG 8-13-12 089



Area # Yard, 45, CAL-21FOSTBLDG 8-13-12 090



Area # Yard, 45, CAL-21FOSTBLDG 8-13-12 091

ATTACHMENT 4

AREA WALK-BY CHECKLIST

Status: Y N U

Area Walk-By Checklist (AWC)

Location (Bldg, Elev, Room/Area): Area : Yard, 45, CAL-TKFROOM

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
Observed corrosion on a conduit support base angle, however it is judged not to be a seismic concern.

 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
Observed a Victaulic coupling, however judged not to be a 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 temporary installations (e.g., scaffolding, lead shielding)? Yes
-

ATTACHMENT 4
AREA WALK-BY CHECKLIST

Status: Y N U

Area Walk-By Checklist (AWC)

Location (Bldg, Elev, Room/Area): Area : Yard, 45, CAL-TKFROOM

Observed a Hazmat storage area with equipment that is not tied off, however judged not to be a 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: *A. Karavoussianis* A. Karavoussianis Date: 11/09/2012

C. Figliolini C. Figliolini 11/09/2012



Area # Yard, 45, CAL-TKFROOM 8-15-12 003



Area # Yard, 45, CAL-TKFROOM 8-15-12 004

ATTACHMENT 4

AREA WALK-BY CHECKLIST

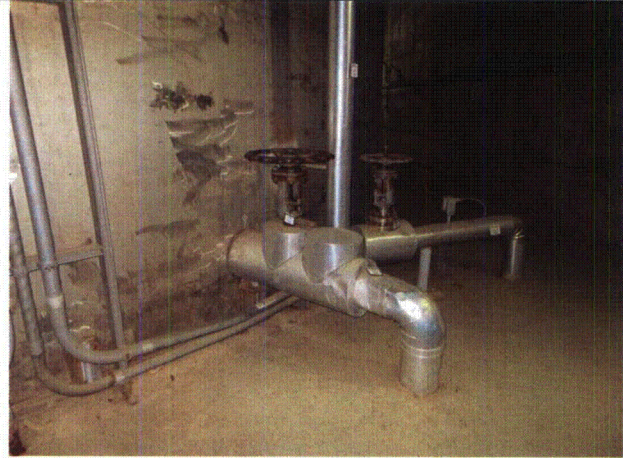
Status: Y N U

Area Walk-By Checklist (AWC)

Location (Bldg, Elev, Room/Area): Area : Yard, 45, CAL-TKFROOM



Area # Yard, 45, CAL-TKFROOM 8-15-12 006



Area # Yard, 45, CAL-TKFROOM 8-15-12 007

ATTACHMENT 4

AREA WALK-BY CHECKLIST

Status: Y N U

Area Walk-By Checklist (AWC)

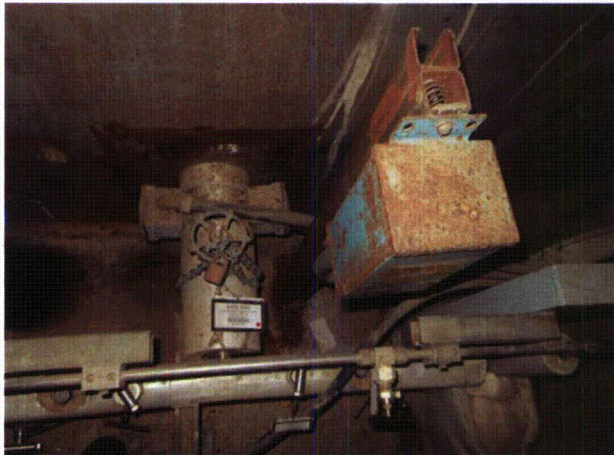
Location (Bldg, Elev, Room/Area): Area : Yard, 45, CAL-TKFROOM



Area # Yard, 45, CAL-TKFROOM 8-15-12 008



Area # Yard, 45, CAL-TKFROOM 8-15-12 010



Area # Yard, 45, CAL-TKFROOM 8-15-12 011



Area # Yard, 45, CAL-TKFROOM 8-15-12 012

ATTACHMENT 4
AREA WALK-BY CHECKLIST

Status: Y N U

Area Walk-By Checklist (AWC)

Location (Bldg, Elev, Room/Area): Area : Yard, 45, CAL-TKFROOM



Area # Yard, 45, CAL-TKFROOM 8-15-12 013



Area # Yard, 45, CAL-TKFROOM 8-15-12 014

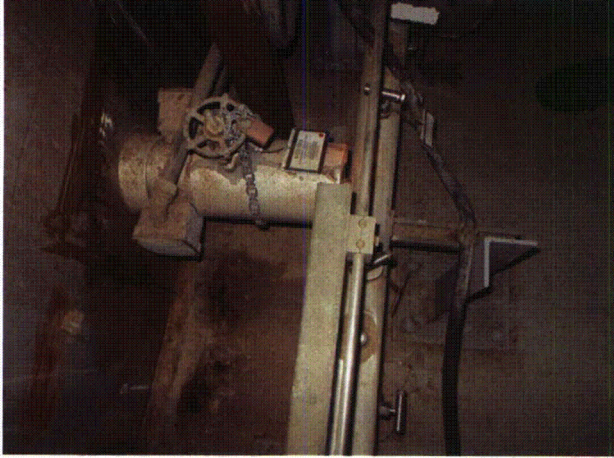
ATTACHMENT 4

AREA WALK-BY CHECKLIST

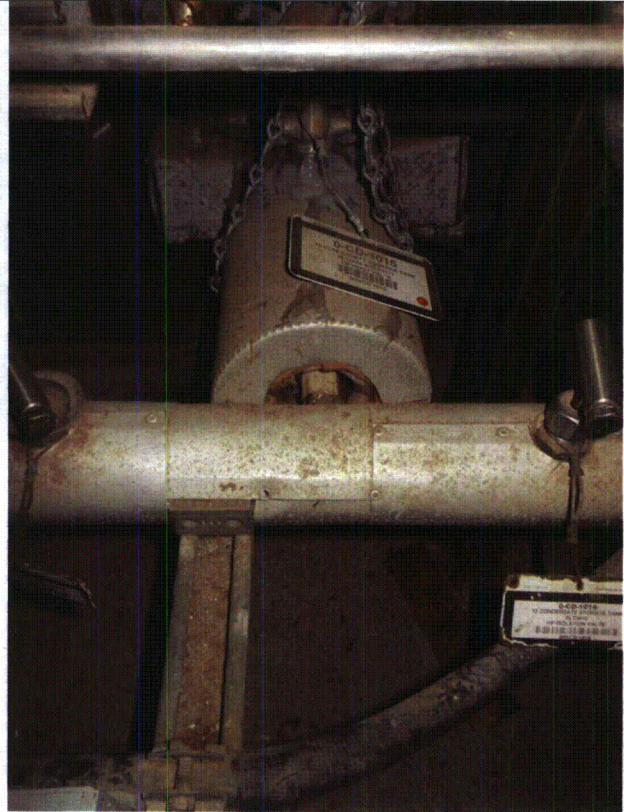
Status: Y N U

Area Walk-By Checklist (AWC)

Location (Bldg, Elev, Room/Area): Area : Yard, 45, CAL-TKFROOM



Area # Yard, 45, CAL-TKFROOM 8-15-12 016



Area # Yard, 45, CAL-TKFROOM 8-15-12 017

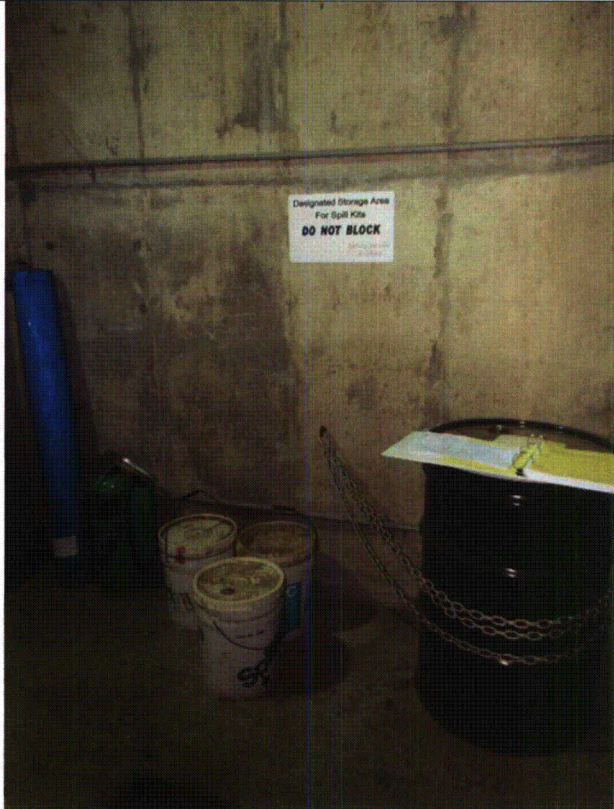
ATTACHMENT 4

AREA WALK-BY CHECKLIST

Status: Y N U

Area Walk-By Checklist (AWC)

Location (Bldg, Elev, Room/Area): Area : Yard, 45, CAL-TKFROOM



Area # Yard, 45, CAL-TKFROOM 8-15-12 018

ATTACHMENT 4

AREA WALK-BY CHECKLIST

Status: Y N U

Area Walk-By Checklist (AWC)

Location (Bldg, Elev, Room/Area): Area : Yard, 45, CAL-YARD-OCA

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

ATTACHMENT 4

AREA WALK-BY CHECKLIST

Status: Y N U

Area Walk-By Checklist (AWC)

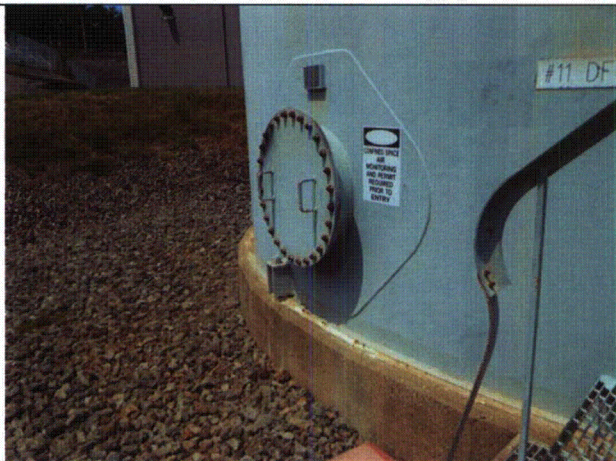
Location (Bldg, Elev, Room/Area): Area : Yard, 45, CAL-YARD-OCA

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: *A. Karavoussianis* A. Karavoussianis Date: 11/09/2012

C. Figliolini C. Figliolini 11/09/2012



Area # Yard, 45, CAL-YARD-OCA 8-13-12 103



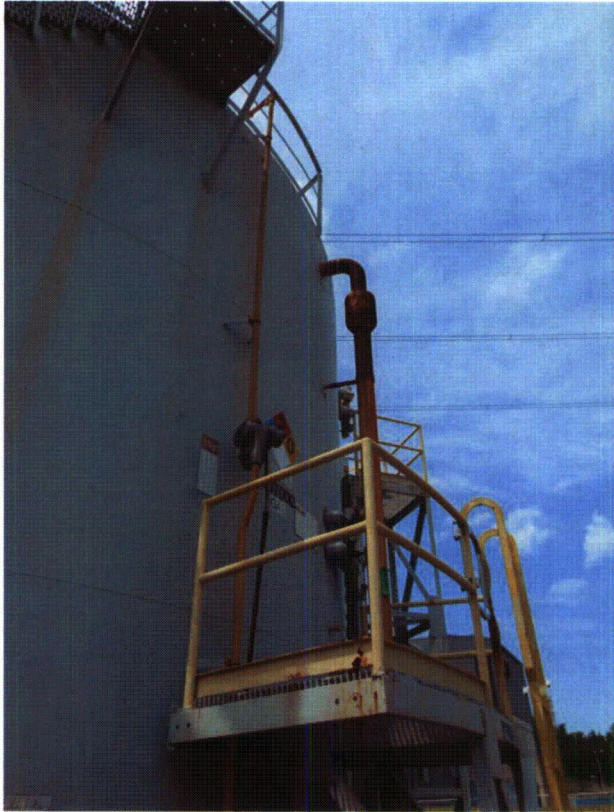
ATTACHMENT 4
AREA WALK-BY CHECKLIST

Status: Y N U

Area Walk-By Checklist (AWC)

Location (Bldg, Elev, Room/Area): Area : Yard, 45, CAL-YARD-OCA

Area # Yard, 45, CAL-YARD-OCA 8-13-12 104



Area # Yard, 45, CAL-YARD-OCA 8-13-12 105



Area # Yard, 45, CAL-YARD-OCA 8-13-12 106

ATTACHMENT 4

AREA WALK-BY CHECKLIST

Status: Y N U

Area Walk-By Checklist (AWC)

Location (Bldg, Elev, Room/Area): Area : Yard, 45, CAL-YARD-OCA



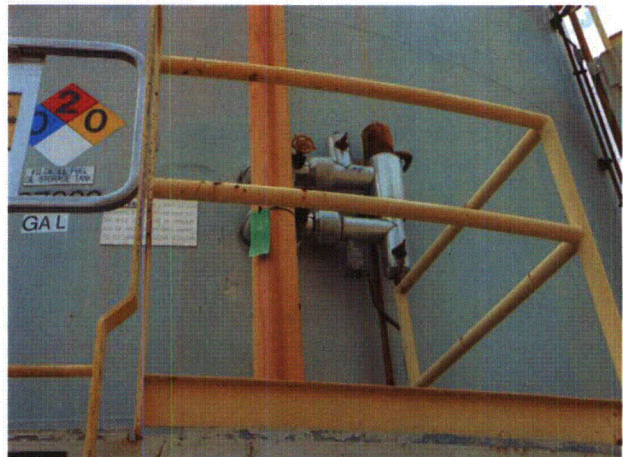
Area # Yard, 45, CAL-YARD-OCA 8-13-12 107



Area # Yard, 45, CAL-YARD-OCA 8-13-12 108



Area # Yard, 45, CAL-YARD-OCA 8-13-12 109



Area # Yard, 45, CAL-YARD-OCA 8-13-12 110

ATTACHMENT 4

AREA WALK-BY CHECKLIST

Status: Y N U

Area Walk-By Checklist (AWC)

Location (Bldg, Elev, Room/Area): Area : Yard, 45, CAL-YARD-OCA



Area # Yard, 45, CAL-YARD-OCA 8-13-12 111

ATTACHMENT 5

INACCESSIBLE EQUIPMENT AND PEER REVIEW

E

Plan for Future Seismic Walkdown of Inaccessible Equipment

As shown in the SWEL for Calvert Cliffs Unit 1 in Attachment 2, several items have been deferred until the next refueling outage (RFO). Table E-1 summarizes the reasons each item is inaccessible during normal plant operation, and notes the planned Seismic Walkdown date. There are also Area Walk-Bys associated with these items.

All items will be walked down during the next RFO, scheduled for completion on March 11, 2014. An updated submittal report will be provided on June 15, 2014.

Table 0-1: Summary of Deferred Equipment

SWE L Item #	Component ID	Description	Location	Reason for Inaccessibility
5	0HXHVACCRE12	12 CONT ROOM CLG EVAP	CAL-AB-512	d.
19	1CV3938	STM GEN 11 ATMOS DUMP VLV	CAL-AB-428	b.
20	1CV3938OP	11 MS S/G ADV OPERATOR	CAL-AB-428	b.
21	1CV3939	STM GEN 12 ATMOS DUMP VALVE	CAL-AB-428	b.
26	1CV4150	CNTMT SPRAY HDR 11 ISOL VALVE	CAL-CTMT-230	a.
27	1CV4151	CNTMT SPRAY HDR 12 ISOL VALVE	CAL-CTMT-230	a.
34	1ERV402	PZR PWR OP RV	CAL-CTMT-230E	a.
39	1FANHVACCTCLR11	CONTAINMENT COOLER 11 FAN	CAL-AB-ARF	a.
40	1FANHVACCTCLR14	CONTAINMENT COOLE 14 FAN	CAL-AB-ARF	a.
114	1FL1999	11 SPENT FUEL POOL FILTER	CAL-AB-320	c.
51	1MI447	CR POST LOCI FILTER FAN 11	CAL-AB-512	d.
89	1PUMPSW11	11 SALT WATER PUMP	CAL-ISPR-INT1	e.
90	1PUMPSW12	12 SALT WATER PUMP	CAL-ISPR-INT1	e.

Inaccessibility code:

- a. Inspection requires entry into Primary Containment. (Walkdown performed at full power.)
- b. Inspection requires access to environmental enclosure.
- c. Inspection requires access to locked high radiation area.
- d. Inspection requires access to air handling unit.
- e. Inspection requires entry into confined space. (Inspection of non-anchorage items performed.)

Table E-2 includes the list of equipment items that require supplemental internal inspections because they were not opened during the walkdowns. Cabinets that have been identified as requiring these supplemental internal inspections are those with doors or panels with latches or thumbscrews and can be readily opened during normal maintenance activities. Also provided for each cabinet is a proposed schedule for performing these internal inspections.

ATTACHMENT 5

INACCESSIBLE EQUIPMENT AND PEER REVIEW

The Seismic Walkdown Checklists (SWC) for the 2 components identified in Table E-2 that can be opened for internal inspections will be revised at the time of the supplemental walkdown to indicate the results of these internal inspections.

Table 0-2: Summary of Equipment Subject to Supplemental Internal Inspection

SWE L Item #	Component ID	Description	Location	Planned Walkdown / Walk-By Date	Planned Updated Submittal Report Date
9	1BKR152-1110 ^(Note 1)	HIGH PRESSURE SAFETY INJECTION PUMP 13	CAL-AB-317		
48	1LI5611A	COND STORAGE TANK 12	CAL-AB-430		

Notes:

- 1) Additional internal anchorage also needs verification during this supplementary walkdown.

In addition there are eleven (11) equipment items that were not opened during the walkdowns and do not have maintenance scheduled. To remove these from service an entire safety related bus must be de-energized, which puts the plant at significant risk. It is unsafe to open these while they are in service.

Table 0-3: Summary of Inaccessible Equipment

SWEL Item #	Component ID	Description	Location	Impact Code
11	1BUS1B01B	480V BUS 11B	CAL-AB-317	a.
12	1BUS1D01	125VDC BUS 11	CAL-AB-306	b.
13	1CHGR16	125V DC BATT CHGR 16	CAL-DGB1-DB104	c.
61	1NB102	CNTMT COOL FAN 11 CONTROLLER	CAL-AB-429	c.
70	1PNL1C62B	1B DG LOCAL CONTROL PANEL	CAL-AB-421	a.
71	1PNL1C62C	1B DG LOCAL CONTROL PANEL	CAL-AB-421	b.
73	1PNL1D11	125VDC PNL DC11 1D11	CAL-AB-306	a.
93	1RY150G/T14A	480V SERV XFMR U-440-14A	CAL-AB-430	b.
94	1RY150G/T14B	480V SERV XFMR U-440-14B	CAL-AB-430	b.
95	1RY1Y03A/64/B13	1Y03 INVERTER	CAL-AB-306	c.
111	1XU-440-11A	480V XFMR U-440-11A	CAL-AB-317	a.

ATTACHMENT 5
INACCESSIBLE EQUIPMENT AND PEER REVIEW

Table 0-3: Summary of Inaccessible Equipment

SWEL Item #	Component ID	Description	Location	Impact Code
--------------------	---------------------	--------------------	-----------------	--------------------

Impact Code:

- a. Internal anchorage is inaccessible, condition and compliance with licensing basis cannot be established. Cabinet is inaccessible for internal inspection. SWC questions 2, 3, 4, 5 and 11 cannot be assessed and have been answered, "No".
- b. Internal anchorage is inaccessible and condition cannot be established (not a configuration verification item). Cabinet is inaccessible for internal inspection. SWC questions 2, 3, 4 and 11 cannot be assessed and have been answered, "No".
- c. Cabinet is inaccessible for supplemental internal inspection. SWC question 11 cannot be assessed and has been answered, "No".

ATTACHMENT 5
INACCESSIBLE EQUIPMENT AND PEER REVIEW

F

Peer Review Checklists

Peer Review Checklist for SWEL – Calvert Cliffs Nuclear Power Plant Unit 1

Instructions for Completing Checklist

This peer review checklist may be used to document the review of the Seismic Walkdown Equipment List (SWEL) in accordance with Section 6: Peer Review. The space below each question in this checklist should be used to describe any findings identified during the peer review process and how the SWEL may have changed to address those findings. Additional space is provided at the end of this checklist for documenting other comments.

1. Were the five safety functions adequately represented in the SWEL 1 selection? Y N

2. Does SWEL 1 include an appropriate representation of items having the following sample selection attributes:

a. Various types of systems? Y N

b. Major new and replacement equipment? Y N

c. Various types of equipment? Y N

ATTACHMENT 5
INACCESSIBLE EQUIPMENT AND PEER REVIEW

Peer Review Checklist for SWEL – Calvert Cliffs Nuclear Power Plant Unit 1

- d. Various environments? Y N
- e. Equipment enhanced based on the findings of the IPEEE (or equivalent) program? Y N
- f. Were risk insights considered in the development of SWEL 1? Y N
-

3. For SWEL 2:

- a. Were spent fuel pool related items considered, and if applicable included in SWEL 2? Y N
- b. Was an appropriate justification documented for spent fuel pool related items not included in SWEL 2? Y N
-

ATTACHMENT 5
INACCESSIBLE EQUIPMENT AND PEER REVIEW

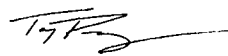
Peer Review Checklist for SWEL – Calvert Cliffs Nuclear Power Plant Unit 1

4. Provide any other comments related to the peer review of the SWELs.

5. Have all peer review comments been adequately addressed in the final SWEL?

Y N

Peer Reviewer #1:



Date: 07/30/2012

Peer Reviewer #2:



Date: 08/02/2012

ATTACHMENT 5

INACCESSIBLE EQUIPMENT AND PEER REVIEW

G

SWEL 2 Development Screen 4 – SFP Rapid Drain Down

The process to identify SSCs that could cause rapid drain-down of the SFP is identified in Screen #4 of the Seismic Walkdown Guidance [Reference 1]. Per the Guidance, rapid drain-down is defined as lowering the water level to the top of the fuel assemblies within 72 hours after an earthquake. Determination of the potential for rapid drain-down includes the following assessment:

- Determine whether there are SFP penetrations below about 10 ft above the top of the fuel assemblies.

The top of the fuel assemblies are at elevation 44'-2.5". Therefore the SFP will be checked for penetrations below elevation 54'-2.5". A review of the SFP liner drawings [References 16 – 18] indicates pipe embedments exist for SFP Cooling at elevation 65'-11". Also, penetrations for the SFP skimmers are located at elevation 63'-8" [References 24 – 26]. These penetrations are located above the elevation range of concern and will not be considered.

The only penetrations in the range of concern are the fuel transfer tubes at elevation 35'-6" [References 16 & 19]. The transfer tubes are isolated on the SFP side with 36-inch gate valves. The valves are seismically installed and are designed not to fail during a seismic event. The isolation valves are locked shut in Modes 1 – 4 per Reference 27. The transfer tubes are sealed on the Refueling Pool side with blind flanges. The blind flanges are leak tested per Reference 28. Based on the transfer tube assembly's seismic capacity and the fact that it is inaccessible for a walkdown, the transfer tubes will be eliminated from the scope of SWEL 2. The transfer tubes have component names 1PEN42 and 2PEN42, which are considered part of the Containment Structure (System 059).

Deep suction lines exist in the SFP that were originally designed to drain the pool for maintenance or decommissioning. The two lines are part of the normal SFP Cooling System; however, the deep lines are isolated with valves that are locked shut. Goose neck siphon breaks are installed on the deep lines that are designed to prevent inadvertent draining of the pool. The use of this line-up is procedurally controlled by Reference 28. The lines are open ended at elevation 34'-6" however they penetrate the pool at elevation 65'-11", which is out of the range of concern.

SFP Cooling return lines also exist that have a similar configuration to the deep suction lines. These 2 lines are open ended at elevation 30'-6" and penetrate the pool at elevation 65'-11", which is out of the range of concern. Siphon breaks exist on these lines to prevent inadvertent draining of the pool.

The SFP is designed to preclude the loss of structural integrity. If a leak from the SFP were to occur, the capabilities for controlling the leak are as follows:

Makeup water can be supplied indefinitely to the SFP at a rate of at least 150 gpm. It can usually be supplied at a greater rate for a period of many days, but this depends upon plant conditions.

Abnormal Operating Procedures (AOP) and Severe Accident Management Guidelines address loss of and restoration of SFP level.

A 3/16-inch stainless steel liner is installed on the inside of the SFP for leak tightness. All of the liner plate welds have leak-test channels welded to the outer side. The channels are grouped into 10 zones, each with its own detector pipe to localize leaks in the liner seams [Reference 30].

ATTACHMENT 5

INACCESSIBLE EQUIPMENT AND PEER REVIEW

The Tech Spec LCO [Reference 23] states the SFP water level shall be ≥ 21.5 ft over the top of the irradiated fuel assemblies seated in the storage racks, and ≥ 19.8 ft over the top of fuel assemblies seated on rack spacers in the storage racks for reconstitution activities. This LCO is applicable during movement of irradiated fuel assemblies in the SFP.

ATTACHMENT (6)

**REGULATORY COMMITMENTS CONTAINED IN THIS
CORRESPONDENCE**

ATTACHMENT 6

REGULATORY COMMITMENTS CONTAINED IN THIS CORRESPONDENCE

The following table identifies actions committed to in this document by Calvert Cliffs Unit 1. Any other statements in this submittal are provided for information purposes and are not considered to be regulatory commitments.

REGULATORY COMMITMENT	DUE DATE
Perform followup of internal inspection of electrical cabinets as listed in Table E-1 of Attachment 4.	By the end of the Calvert Cliffs Unit 1 refueling outage in Spring 2014
Submit an updated seismic walkdown report.	June 15, 2014