

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 3 of 4

IP3

Status: Y  N  U

Seismic Walkdown Checklist (SWC) SWEL1-092

Equipment ID No. ACATCC1

Equip. Class<sup>1</sup> 20

Equipment Description CC SURGE TANK #31

**Other Adverse Conditions**

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

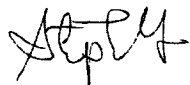
*Yes, we have looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment.*

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

*Reference Drawings:*

1. 9321-F-25153-22, PAB GENERAL ARRANGEMENT PLANS AT EL. 55'-0" & 73'-0"
2. 9321-F-25113-21, PAB GENERAL ARRANGEMENT SECTIONS, SHEET NO. 1
3. 9321-F-13163-4, PAB MISCELLANEOUS PLATFORM & LADDERS
4. 684J839
5. SEWS Sheet CC Surge tank #31
6. AWC-025

Evaluated by: Stephen Yuan



Date: 10/22/2012

Paul Huebsch



Date: 10/22/2012

Status: Y  N  U

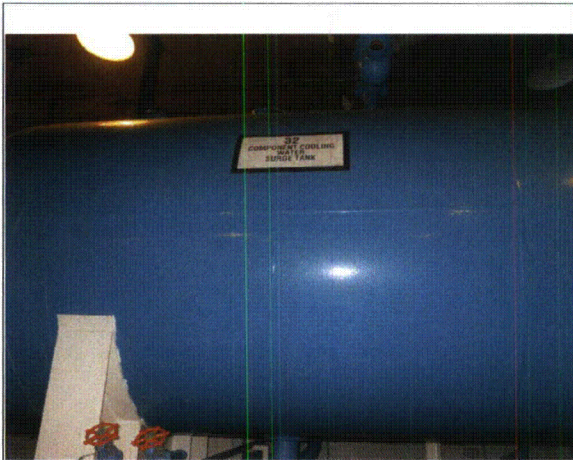
Seismic Walkdown Checklist (SWC) SWEL1-092

Equipment ID No. ACATCC1

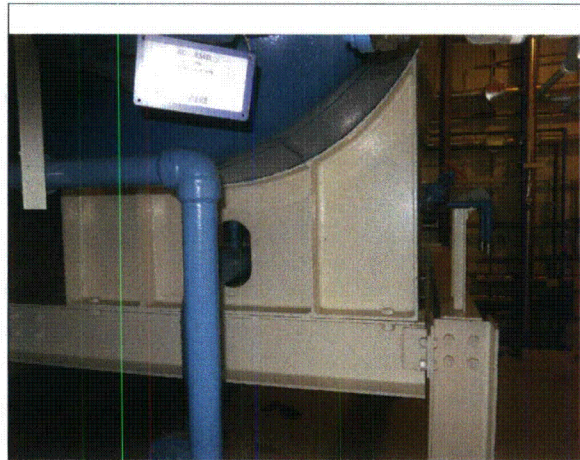
Equip. Class<sup>1</sup> 20

Equipment Description CC SURGE TANK #31

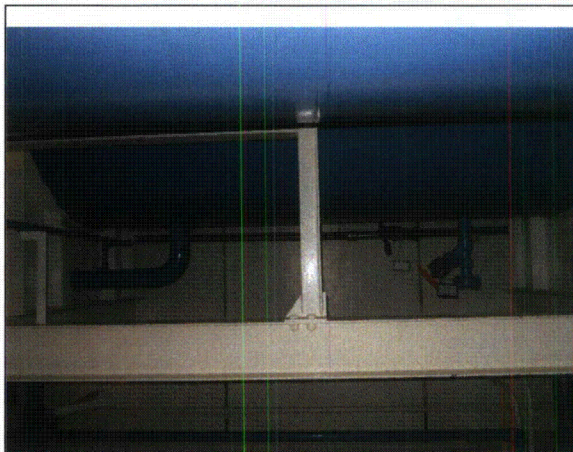
Photographs



Note: CC SURGE TANK #32



Note: TANK ANCHORAGE



Note: SUPPORT STEEL



Note: SUPPORT STEEL

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-093**

Equipment ID No. CSATBA2

Equip. Class<sup>1</sup> 21

Equipment Description BORIC ACID STG TANK 32 (32BAT)

Location: Bldg. PA Floor El. 73'-0" Room, Area \_\_\_\_\_

Manufacturer, Model, Etc. (optional but recommended) \_\_\_\_\_

**Instructions for Completing Checklist**

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

**Anchorage**

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

*Yes the anchorage configuration verification is required.*

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

*Yes, the anchorage is free of bent, broken, missing or loose hardware.*

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

*Yes, the anchorage is free of corrosion that is more than mild surface oxidation.*

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

*Yes, the anchorage is free of visible cracks in the concrete near the anchor.*

<sup>1</sup> Enter the equipment class name from EPRI I025286, Appendix B: Classes of Equipment.

Status: Y N U

**Seismic Walkdown Checklist (SWC) SWEL1-093**

Equipment ID No. CSATBA2

Equip. Class<sup>1</sup> 21

Equipment Description BORIC ACID STG TANK 32 (32BAT)

5. Is the anchorage configuration consistent with plant documentation? Y N U N/A  
 (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)

*Yes, the anchorage configuration is consistent with plant documentation.*

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

*Yes, based on the above anchorage evaluations, the anchorage is free of potentially adverse seismic conditions.*

**Interaction Effects**

7. Are soft targets free from impact by nearby equipment or structures? Y N U N/A  
*Yes, soft targets are free from impact by nearby equipment or structures.*

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y N U N/A  
*Yes, overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls are not likely to collapse onto the equipment.*

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

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

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SEISMIC WALKDOWN CHECKLIST FORM

Sheet 3 of 5

IP3

Status: Y  N  U

Seismic Walkdown Checklist (SWC) SWEL1-093

Equipment ID No. CSATBA2

Equip. Class<sup>1</sup> 21

Equipment Description BORIC ACID STG TANK 32 (32BAT)

**Other Adverse Conditions**

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

*Yes, we have looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment.*

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

*References:*

- 9321-F-11723-8 Primary Auxiliary Building Concrete, Floor at Elev 73'-0" East End*
- 9321-F-25153-22 Primary Auxiliary Building General Arrangement, Plans at El 55'-0" and 73'-0"*
- SEWS Sheet Boric Acid Stg Tank 31*
- 9321-F-26103-16 Primary Auxiliary Building General Arrangement, Sections Sheet No. 2*
- CR-IP3-2012-02713*
- AWC-025*

Evaluated by: Stephen Yuan  Date: 10/23/2012

Paul Huebsch  Date: 10/23/2012

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 4 of 5

IP3

Status: Y  N  U

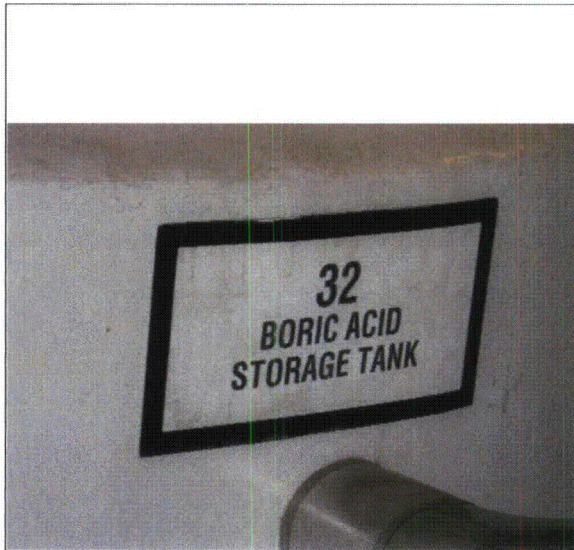
Seismic Walkdown Checklist (SWC) SWEL1-093

Equipment ID No. CSATBA2

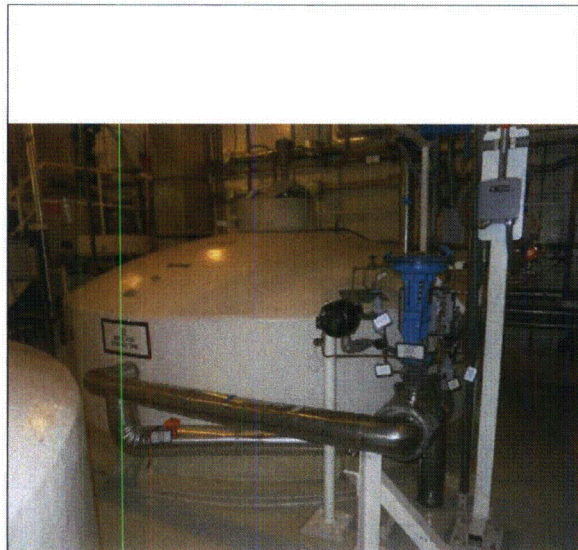
Equip. Class<sup>1</sup> 21

Equipment Description BORIC ACID STG TANK 32 (32BAT)

Photographs



**Note:** *Equipment tag*



**Note:** *View of equipment*

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

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IP3

Status: Y  N  U

Seismic Walkdown Checklist (SWC) SWEL1-093

Equipment ID No. CSATBA2

Equip. Class<sup>1</sup> 21

Equipment Description BORIC ACID STG TANK 32 (32BAT)



**Note:** *View of anchor bolts*



**Note:** *View of head*

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-094**

Equipment ID No. RWST-31

Equip. Class<sup>1</sup> 21

Equipment Description REFUEL WTR STORAGE TANK (31RWST)

Location: Bldg. YD Floor El. 80'-0" Room, Area \_\_\_\_\_

Manufacturer, Model, Etc. (optional but recommended) \_\_\_\_\_

**Instructions for Completing Checklist**

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

**Anchorage**

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

*Yes, check the anchorage.*

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

*Several bolts lacked full engagement (approximately one thread is not engaged). This is judged to be acceptable.*

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

*Some bolts exhibit slightly more than mild surface oxidation. The condition is not advanced and bolts should be cleaned and coated to provide protection against further deterioration. The current condition is considered acceptable. CR-IP3-2012-03236 has been issued to remedy this condition.*

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

*Minor tight surface cracks were identified on the RWST-31 foundation. The cracks are not near the anchors and are judged to be acceptable as they seem to be normal concrete shrinkage cracks.*

<sup>1</sup> Enter the equipment class name from EPRI 1025286, Appendix B: Classes of Equipment.



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SEISMIC WALKDOWN CHECKLIST FORM

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IP3

Status: Y  N  U **Seismic Walkdown Checklist (SWC) SWEL1-094**Equipment ID No. RWST-31Equip. Class<sup>1</sup> 21Equipment Description REFUEL WTR STORAGE TANK (31RWST)

5. Is the anchorage configuration consistent with plant documentation? Y  N  U  N/A   
 (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)

*Yes, the anchorage configuration is consistent with plant documentation. See references under Comments.*

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

*Yes, based on the above anchorage evaluations, the anchorage is free of potentially adverse seismic conditions.*

**Interaction Effects**

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

*Yes, soft targets are free from impact by nearby equipment or structures.*

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y  N  U  N/A

*It does not apply because the tank is in the yard. There are no overhead equipment, distribution systems, ceiling tiles and lighting, or masonry block walls above and near the tank.*

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

*There is sufficient flexibility at the nozzle connection to the tank.*

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

*Yes, based on the above seismic interaction evaluations, the equipment is free of potentially adverse seismic interaction effects.*

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 3 of 4

IP3

Status: Y  N  U

Seismic Walkdown Checklist (SWC) SWEL1-094

Equipment ID No. RWST-31

Equip. Class<sup>1</sup> 21

Equipment Description REFUEL WTR STORAGE TANK (31RWST)

**Other Adverse Conditions**

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


*Yes, we have looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment.*

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

*Caulking at the base of the tank is deteriorated. Recommend upgrade/replacement of caulking to prevent water intrusion under the tank. Coating of the anchor bolts is recommended to prevent further corrosion.*

**References:**

*SEWS for Refuel Wtr Storage Tank  
9321-F-25233-5, NUCLEAR TANK FARM GENERAL  
9321-F-10023-22, PLOT PLAN  
IP3V-91-14.6-0073, Rev. 1  
AWC-011*

Evaluated by:  Date: 10/12/2012

 Date: 10/12/2012

 Date: 10/12/2012

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

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IP3

Status: Y  N  U

Seismic Walkdown Checklist (SWC) SWEL1-094

Equipment ID No. RWST-31

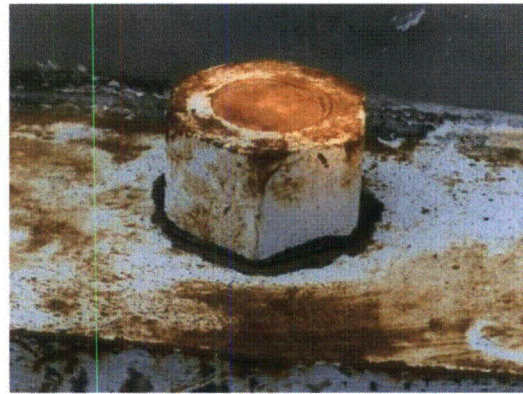
Equip. Class<sup>1</sup> 21

Equipment Description REFUEL WTR STORAGE TANK (31RWST)

**Photographs**



**Note:** RWST-31



**Note:** Lack of full engagement

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-095**

Equipment ID No. COND STOR TK Equip. Class<sup>1</sup> 21

Equipment Description CONDENSATE STOR TANK (31 CST)

Location: Bldg. YD Floor El. 69'-0" Room, Area \_\_\_\_\_

Manufacturer, Model, Etc. (optional but recommended) \_\_\_\_\_

**Instructions for Completing Checklist**

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

**Anchorage**

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

*Yes, check the anchorage.*

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

*The anchorage is free of bent, broken, missing or loose hardware.*

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

*Anchor bolts show evidence of having some surface corrosion near the base before being painted. The anchors are currently well protected from corrosion by a surface coating.*

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

*Local concrete cracks are found in the concrete base at and away from the locations of anchor bolts. The cracks are noticeable and generally tight and closed. Structural monitoring maintenance program per EN-DC-150 for CST tank under license renewal will track these cracks.*

<sup>1</sup> Enter the equipment class name from EPRI 1025286, Appendix B: Classes of Equipment.

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SEISMIC WALKDOWN CHECKLIST FORM

Sheet 2 of 8

IP3

Status: Y  N  U **Seismic Walkdown Checklist (SWC) SWEL1-095**Equipment ID No. COND STOR TKEquip. Class<sup>1</sup> 21Equipment Description CONDENSATE STOR TANK (31 CST)

5. Is the anchorage configuration consistent with plant documentation? Y  N  U  N/A   
 (Note: This question only applies if the item is one of the 50% for which anchorage configuration verification is required.)

*The anchorage is consistent with the plant documentation.*

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

*Yes, based on the above anchorage evaluations, the anchorage is free of potentially adverse seismic conditions.*

**Interaction Effects**

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

*Lighting poles are in close proximity to the tank. The seismic adequacy of the poles and their bases is evaluated in LB-11.*

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y  N  U  N/A

*Two pipes originate at the top of the tank and span to the bottom of the tank without intermediate support. These pipes would exert nozzle loads on the tank walls during a seismic event. It is necessary to determine the adequacy of the nozzle connection and the stress in the unsupported pipe due to seismic loading.*

*-- Pipe line 1028 & 1080 are shown on Dwg 9321-F-22433 and analyzed in prob 469.*

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

*Attached lines have adequate flexibility to avoid damage.*

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

*Yes, based on the above seismic interaction evaluations, the equipment is free of potentially adverse seismic interaction effects.*

EN-DC-168 REV 0

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 3 of 8

IP3

Status: Y  N  U

Seismic Walkdown Checklist (SWC) SWEL1-095

Equipment ID No. COND STOR TK

Equip. Class<sup>1</sup> 21

Equipment Description CONDENSATE STOR TANK (31 CST)

**Other Adverse Conditions**

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

*Yes, we have looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment.*

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

*Most of the adjacent conduits show evidence of varying degrees of surface corrosion.*

*Cabinets adjacent to the tank could not be opened due to the large number of fasteners securing the covers.*

**References:**

*SEWS for CST and attached calculation (18904-IP3-SQ017, Rev. 0)*

*9321-F-10023, Rev. 22, PLOT PLAN*

*AWC-018*

*LB-11*

Evaluated by: Stephen Yuan  Date: 10/17/12

Paul Huebsch  10/17/12

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 4 of 8

IP3

Status: Y  N  U

Seismic Walkdown Checklist (SWC) SWEL1-095

Equipment ID No. COND STOR TK

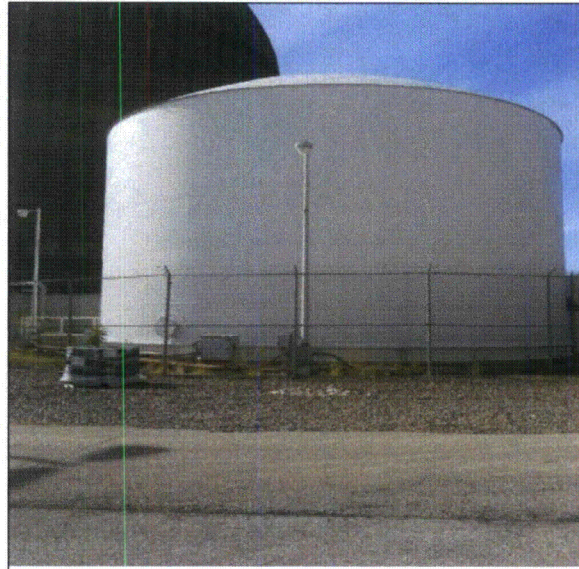
Equip. Class<sup>1</sup> 21

Equipment Description CONDENSATE STOR TANK (31 CST)

**Photographs**



**Note:** *Equipment Tag*



**Note:** *Overview*

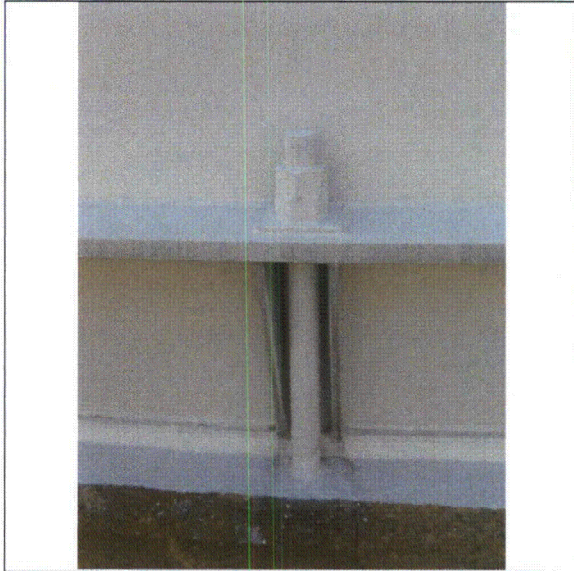
Status: Y  N  U

Seismic Walkdown Checklist (SWC) SWEL1-095

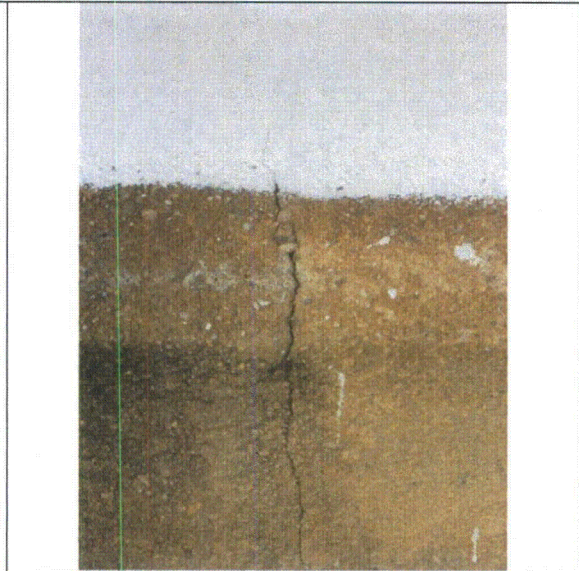
Equipment ID No. COND STOR TK

Equip. Class<sup>1</sup> 21

Equipment Description CONDENSATE STOR TANK (31 CST)



**Note:** Typical anchor bolt detail



**Note:** Crack profile at location intermediate between anchor bolts. Note that the crack continues through the coating indication that the crack has been active since the coating was applied.



ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 6 of 8

IP3

Status: Y  N  U

Seismic Walkdown Checklist (SWC) SWEL1-095

Equipment ID No. COND STOR TK

Equip. Class<sup>1</sup> 21

Equipment Description CONDENSATE STOR TANK (31 CST)



**Note:** Pipes which span the height of the tank without intermediate support.



**Note:** Base of lighting pole.

ATTACHMENT 9.6

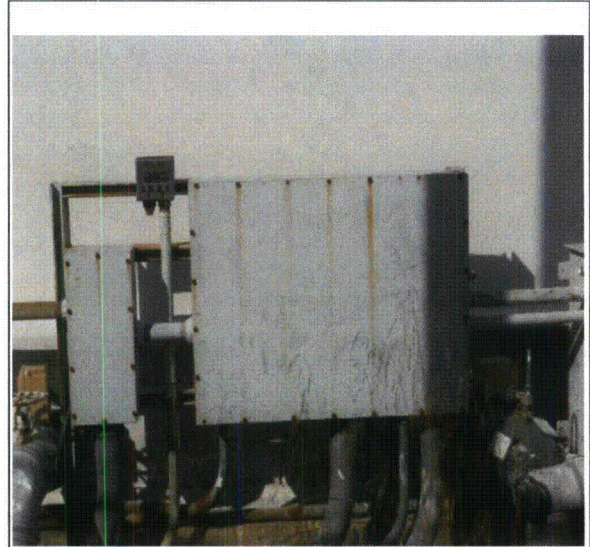
SEISMIC WALKDOWN CHECKLIST FORM

Sheet 7 of 8

IP3



**Note:** *Pipes which span the height of the tank without intermediate support.*



**Note:** *Cabinet which is missing bolts in face plate.*

**ATTACHMENT 9.6**

**SEISMIC WALKDOWN CHECKLIST FORM**

Sheet 8 of 8

IP3



**Note:** Platform base plate with two bolts and four holes.



**Note:** Overview of platform

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 1 of 4

IP3

Status: Y  N  U

Seismic Walkdown Checklist (SWC) SWEL1-096

Equipment ID No. EDG-31-FO-DTNK

Equip. Class<sup>1</sup> 21

Equipment Description F.O. DAY (31 EDG)

Location: Bldg. DG

Floor El. 26'-0"

Room, 31 DIESEL  
Area GENERATOR ROOM

Manufacturer, Model, Etc. (optional but recommended) \_\_\_\_\_

**Instructions for Completing Checklist**

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

**Anchorage**

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

*Yes, the anchorage configuration verification is required.*

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

*There are two saddles supporting the tank, each with 4 bolts. Two of bolts on the north saddle are missing nuts (see attached photo). This is documented in CR-IP3-2012-03382.*

*LB-07 evaluation was performed and concluded that the existing bolting configuration is structurally adequate (without the two nuts).*

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

*Yes, the anchorage is free of corrosion that is more than mild surface oxidation.*

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

*Not applicable since the saddle is attached to structural steel (angles).*

<sup>1</sup> Enter the equipment class name from EPRI 1025286, Appendix B: Classes of Equipment.

Status: Y N U

**Seismic Walkdown Checklist (SWC) SWEL1-096**

Equipment ID No. EDG-31-FO-DTNK

Equip. Class<sup>1</sup> 21

Equipment Description F.O. DAY (31 EDG)

5. Is the anchorage configuration consistent with plant documentation? Y N U N/A  
 (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)

*Yes, the anchorage configuration is consistent with IP3V-0353-0001, Rev. 2*

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

*See #2.*

**Interaction Effects**

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

*Yes, soft targets are free from impact by nearby equipment or structures.*

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y N U N/A

*Yes, overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls are not likely to collapse onto the equipment.*

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

*Yes, attached lines have adequate flexibility to avoid damage.*

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

*Yes, based on the above seismic interaction evaluations, the equipment is free of potentially adverse seismic interaction effects.*

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 3 of 4

IP3

Status: Y  N  U

Seismic Walkdown Checklist (SWC) SWEL1-096

Equipment ID No. EDG-31-FO-DTNK

Equip. Class<sup>1</sup> 21

Equipment Description F.O. DAY (31 EDG)

**Other Adverse Conditions**

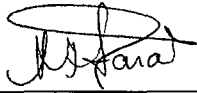
11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? Y  N  U

*Yes, we have looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment.*

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

References:  
IP3V-0353-0001, Rev. 2  
SEWS for F.O.Day Tank No. 31 and 33  
AWC-019  
LB-07  
CR IP3-2012-03382

Evaluated by: Maggie Farah



Date: 10/19/2012

Kai Lo



10/19/2012

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

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IP3

Status: Y  N  U

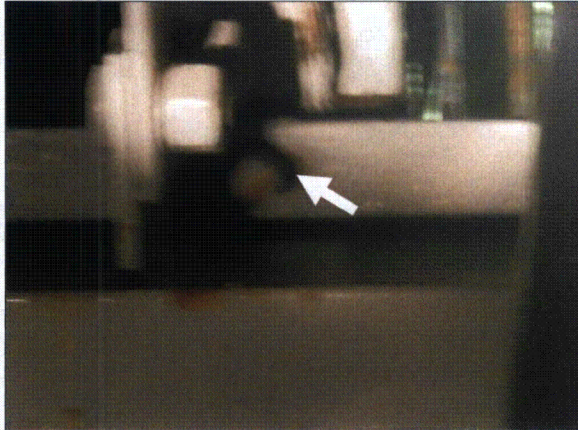
Seismic Walkdown Checklist (SWC) SWEL1-096

Equipment ID No. EDG-31-FO-DTNK

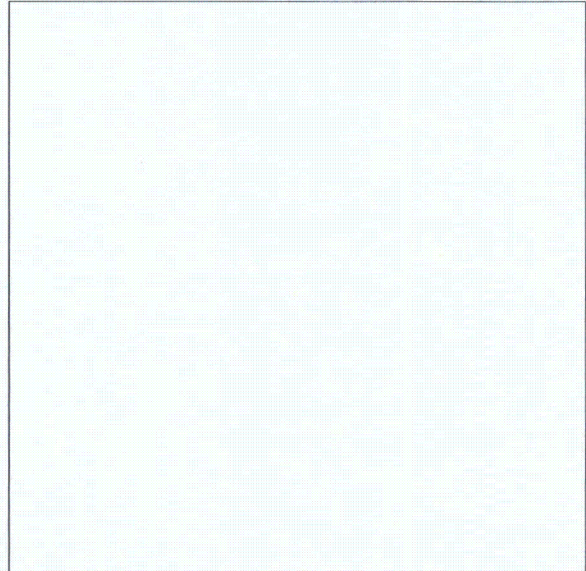
Equip. Class<sup>1</sup> 21

Equipment Description F.O. DAY (31 EDG)

**Photographs**



**Note:** *bolt with missing nut.*



**Note:**

**ATTACHMENT 9.6** **SEISMIC WALKDOWN CHECKLIST FORM**  
**Sheet 1 of 6** **IP3**

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-097**

Equipment ID No. CSAHRNRT Equip. Class<sup>1</sup> 21

Equipment Description NON REGEN HEAT EXCH NO 31

Location: Bldg. PA Floor El. 73'-0" Room, Area \_\_\_\_\_

Manufacturer, Model, Etc. (optional but recommended) \_\_\_\_\_

**Instructions for Completing Checklist**

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

**Anchorage**

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

*Yes the anchorage configuration verification is required.*

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

*Yes, the anchorage is free of bent, broken, missing or loose hardware.*

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

*Yes, the anchorage is free of corrosion that is more than mild surface oxidation.*

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

*Yes, the anchorage is free of visible cracks in the concrete near the anchor.*

<sup>1</sup> Enter the equipment class name from EPRI 1025286, Appendix B: Classes of Equipment.



ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

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IP3

Status: Y  N  U **Seismic Walkdown Checklist (SWC) SWEL1-097**Equipment ID No. CSAHRNTEquip. Class<sup>1</sup> 21Equipment Description NON REGEN HEAT EXCH NO 31

5. Is the anchorage configuration consistent with plant documentation? Y  N  U  N/A   
 (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)

*Yes, the anchorage configuration is consistent with plant documentation.*

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

*Yes, based on the above anchorage evaluations, the anchorage is free of potentially adverse seismic conditions.*

**Interaction Effects**

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

*Yes, soft targets are free from impact by nearby equipment or structures.*

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y  N  U  N/A

*Yes, overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls are not likely to collapse onto the equipment.*

*Equipment removal area in adjacent wall is covered with shielding and the outside of the wall has a metal door. No seismic impact.*

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

*Yes, attached lines have adequate flexibility to avoid damage.*

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

*Yes, based on the above seismic interaction evaluations, the equipment is free of potentially adverse seismic interaction effects.*

EN-DC-168 REV 0

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 3 of 6

IP3

Status: Y  N  U

Seismic Walkdown Checklist (SWC) SWEL1-097

Equipment ID No. CSAHNRT

Equip. Class<sup>1</sup> 21

Equipment Description NON REGEN HEAT EXCH NO 31

**Other Adverse Conditions**

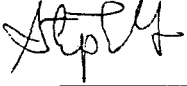
11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? Y  N  U

*Yes, we have looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment.*

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

*References:*

1. DWG 9321-F-11713-8, PRIMARY AUXILIARY BUILDING CONCRETE FLOOR AT ELEVATION 73'-0" WEST END
2. SEWS NON REGEN HEAT EXCH NO 31
3. AWC-034

Evaluated by: Stephen Yuan  Date: 10/23/2012

Paul Huebsch  Date: 10/23/2012

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 4 of 6

IP3

Status: Y  N  U

Seismic Walkdown Checklist (SWC) SWEL1-097

Equipment ID No. CSAHRNRT

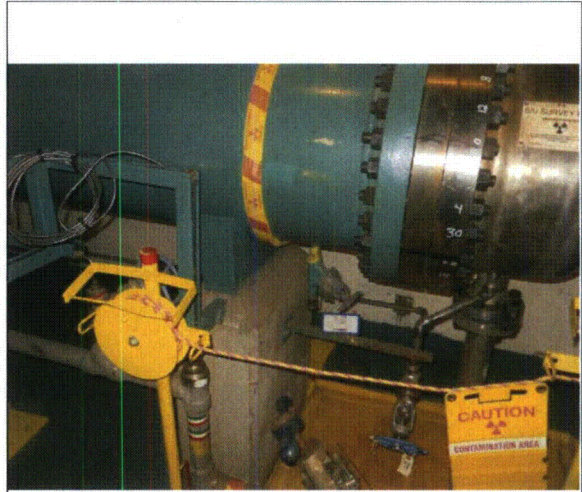
Equip. Class<sup>1</sup> 21

Equipment Description NON REGEN HEAT EXCH NO 31

**Photographs**



**Note:** *View of equipment*



**Note:** *View of front pedestal*

Status: Y  N  U

Seismic Walkdown Checklist (SWC) SWEL1-097

Equipment ID No. CSAHNRT

Equip. Class<sup>1</sup> 21

Equipment Description NON REGEN HEAT EXCH NO 31



Note: *View of wall and conduits*



Note: *View of equipment and conduits*



Note: *View of removeable exchanger head*



Note: *View of exchanger removeable head*

Status: Y  N  U

Seismic Walkdown Checklist (SWC) SWEL1-097

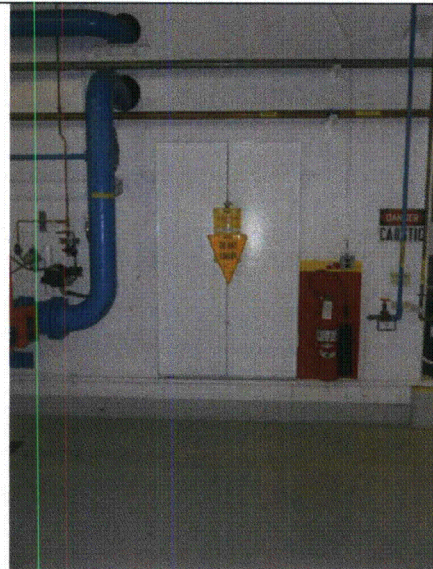
CSAHNRT

Equip. Class<sup>2</sup> 21

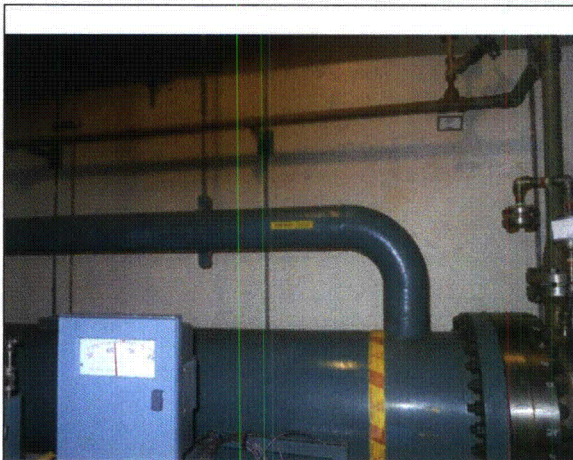
Equipment Description NON REGEN HEAT EXCH NO 31



**Note:** View of exchanger pedestal and anchor bolts



**Note:** Equipment removal area at outside wall



**Note:** View at removeable head



**Note:** View of rear wall

Status: Y N U

**Seismic Walkdown Checklist (SWC) SWEL1-098**

Equipment ID No. ACAHC1 Equip. Class<sup>1</sup> 21

Equipment Description COMPONENT COOLING WATER HEAT EXCHANGER NO. 31

Location: Bldg. PA Floor El. 55'-0" Room, Area \_\_\_\_\_

Manufacturer, Model, Etc. (optional but recommended) \_\_\_\_\_

**Instructions for Completing Checklist**

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

**Anchorage**

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

*Yes, check the anchorage.*

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

*Two of four anchor bolts are not fully engaged, missing 1/16" threads. Per calculation IP3-CALC-MULT-00734, page 6 for bolt size of 1/2" diameter and over, 0.136" recess is allowed.*

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

*The anchorage is free of corrosion.*

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

*There are indications that previous cracks have been repaired. See photo.*

<sup>1</sup> Enter the equipment class name from EPRI 1025286, Appendix B: Classes of Equipment.

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 2 of 5

IP3

Status: Y  N  U **Seismic Walkdown Checklist (SWC) SWEL1-098**Equipment ID No. ACAHCC1Equip. Class<sup>1</sup> 21Equipment Description COMPONENT COOLING WATER HEAT EXCHANGER NO. 31

5. Is the anchorage configuration consistent with plant documentation? Y  N  U  N/A   
 (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)

*The anchorage configuration is consistent with plant documentation.*

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

*Based on the above anchorage evaluations, the anchorage is free of potentially adverse seismic conditions.*

**Interaction Effects**

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

*Soft targets are free from impact by nearby equipment or structures.*

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y  N  U  N/A

*Overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls are not likely to collapse onto the equipment.*

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

*All attached lines have adequate flexibility to avoid damage.*

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

*Yes, based on the above seismic interaction evaluations, the equipment is free of potentially adverse seismic interaction effects.*

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 3 of 5

IP3

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-098**

Equipment ID No. ACAHCC1

Equip. Class<sup>1</sup> 21

Equipment Description COMPONENT COOLING WATER HEAT EXCHANGER NO. 31

**Other Adverse Conditions**

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

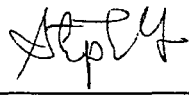
*Yes, we have looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment.*

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

*Reference Drawings:*


1. 9321-F-25153-22, PAB GENERAL ARRANGEMENT PLANS AT EL. 55'-0" & 73'-0"
2. 9321-F-25103-23, PAB GENERAL ARRANGEMENT PLANS AT EL. 15', 32'-6", 34'-6" & 41'
3. IP3V-299-0006 R1, COMPONENT COOLING WATER HEAT EXCHANGER AS BUILT OUTLINE.
4. SEWS Sheet 31 I/A Cmpr CI Cooling Wtr Hx
5. AWC-025

Evaluated by: Stephen Yuan



Date: 10/22/12

Paul Huebsch



10/22/12



ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 4 of 5

IP3

Status: Y  N  U

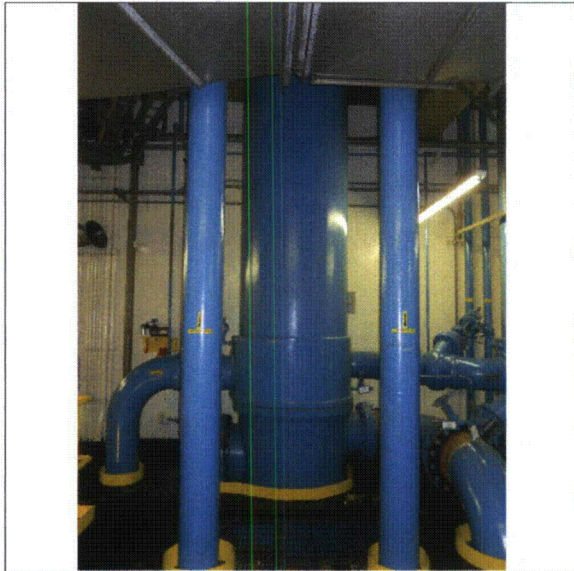
**Seismic Walkdown Checklist (SWC) SWEL1-098**

Equipment ID No. ACAHCC1

Equip. Class<sup>1</sup> 21

Equipment Description COMPONENT COOLING WATER HEAT EXCHANGER NO. 31

**Photographs**



**Note:**

*View from 55' floor.*



**Note:**

*View from 73' floor.*

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 5 of 5

IP3

Status: Y  N  U

Seismic Walkdown Checklist (SWC) SWEL1-098

Equipment ID No. ACAHCC1

Equip. Class<sup>1</sup> 21

Equipment Description COMPONENT COOLING WATER HEAT EXCHANGER NO. 31



**Note:**

*Two of four anchor bolts are not fully engaged, missing 1/16" threads.*



**Note:**

*There are indications of repaired cracks.*

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 1 of 5

IP3

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-099**

Equipment ID No. IACCHT

Equip. Class<sup>1</sup> 21

Equipment Description 32 IAC INST AIR CC HEX

Location: Bldg. CB

Floor El. 15'-0"

Room, SWITCHGEAR ROOM  
Area

Manufacturer, Model, Etc. (optional but recommended) \_\_\_\_\_

**Instructions for Completing Checklist**

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

**Anchorage**

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

*Yes, part of the anchor check.*

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

*The anchorage was observed to be free of bent, broken, missing or loose hardware.*

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

*The anchors were observed to be free of corrosion.*

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

*No cracks were found in the concrete near the anchors.*

<sup>1</sup> Enter the equipment class name from EPRI 1025286, Appendix B: Classes of Equipment.

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 2 of 5

IP3

Status: Y  N  U **Seismic Walkdown Checklist (SWC) SWEL1-099**Equipment ID No. IACCHTEquip. Class<sup>1</sup> 21Equipment Description 32 IAC INST AIR CC HEX

5. Is the anchorage configuration consistent with plant documentation? Y  N  U  N/A   
 (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)

*Anchor bolt spacing is 4½" vs 3" as indicated on drawing 9321-F-19543, Section K-K. The base plate size is equal to 4" x ½" x 0'-9" vs. drawing at 6" x ½" x 0'-10".*

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

*The increase anchor bolt spacing will provide greater out of plane moment capacity and is conservative. The decrease in base plate size is not critical since the assembly will act as a rigid frame and the component integrity will not be compromised since the base plates will be loaded primarily in compression and the decrease in bearing capacity is not considered significant for the minimum weight of the component.*

**Interaction Effects**

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

*Not applicable since there are no soft targets.*

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y  N  U  N/A

*Overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse.*

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

*Attached lines have adequate flexibility.*

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

*Yes, based on the above seismic interaction evaluations, the equipment is free of potentially adverse seismic interaction effects.*

EN-DC-168 REV 0

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 3 of 5

IP3

Status: Y  N  U

Seismic Walkdown Checklist (SWC) SWEL1-099

Equipment ID No. IACCHT

Equip. Class<sup>1</sup> 21

Equipment Description 32 IAC INST AIR CC HEX

**Other Adverse Conditions**

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


*Yes, we have looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment.*

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


*Leaking valve adjacent to the exchanger (SWN-TCV-1113) was observed. The condition was tagged as being addressed by WO 51456228.*

**References:**

*9321-F-19543-10, CONTROL AND DIESEL GENERATOR BUILDINGS CONCRETE PLAN EL. 15'-0"  
IP3V-299-0001, Rev. 1, DETAIL: COMPONENT COOLING WATER HEAT EXCHANGER  
IP3V-299-0002, DETAIL: COMPONENT COOLING WATER HEAT EXCHANGER  
9321-F-30523, Rev. 50, EQUIPMENT ARRANGEMENT CONTROL BUILDING  
AWC-002*

Evaluated by: Paul Huebsch  Date: 10/09/2012

Maggie Farah  Date: 10/09/2012

Kai Lo  Date: 10/09/2012

Status: Y  N  U

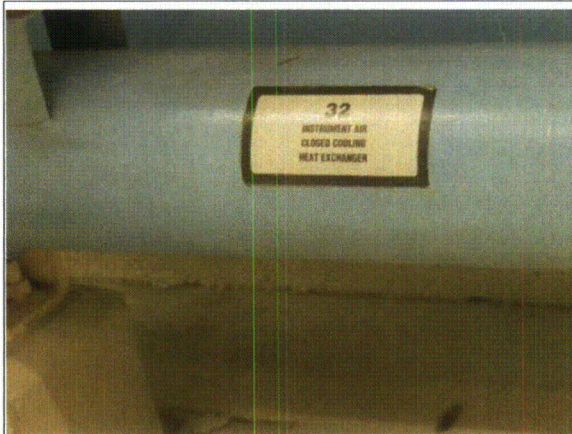
Seismic Walkdown Checklist (SWC) SWEL1-099

Equipment ID No. IACCHT

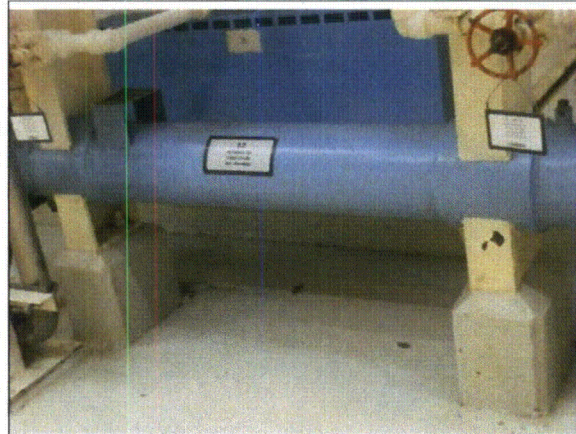
Equip. Class<sup>1</sup> 21

Equipment Description 32 IAC INST AIR CC HEX

Photographs



**Note:** 32 IAC INST AIR CC HEX



**Note:** 32 IAC INST AIR CC HEX



**Note:** Exchanger 31 mounted above Exchanger 32



**Note:** Exchanger 31 mounted above Exchanger 32

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 5 of 5

IP3

Status: Y  N  U

Seismic Walkdown Checklist (SWC) SWEL1-099

Equipment ID No. IACCHT

Equip. Class<sup>1</sup> 21

Equipment Description 32 IAC INST AIR CC HEX



**Note:** *Exchanger support*



**Note:** *Upper Exchanger*

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 1 of 4

IP3

Status: Y N U

**Seismic Walkdown Checklist (SWC) SWEL1-100**

Equipment ID No. EDG-32-AR-TNK

Equip. Class<sup>1</sup> 21

Equipment Description AIR RECEIVER 30 GAL. TANK # 32 (32ART)

Location: Bldg. DG

Floor El. 15'-0"

Room, 32 DIESEL  
Area GENERATOR ROOM

Manufacturer, Model, Etc. (optional but recommended) \_\_\_\_\_

**Instructions for Completing Checklist**

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

**Anchorage**

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

*This is not part of the anchorage configuration verification.*

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

*The anchorage free of bent, broken, missing or loose hardware.*

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

*Observed minor surface corrosion; however, SEWS judged not to be a concern. Therefore, the anchorage is free of corrosion that is more than mild surface oxidation.*

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

*Not applicable since the anchorage is attached to steel grating.*

<sup>1</sup> Enter the equipment class name from EPRI 1025286, Appendix B: Classes of Equipment.



ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 2 of 4

IP3

Status: Y  N  U **Seismic Walkdown Checklist (SWC) SWEL1-100**Equipment ID No. EDG-32-AR-TNKEquip. Class<sup>1</sup> 21Equipment Description AIR RECEIVER 30 GAL. TANK # 32 (32ART)

5. Is the anchorage configuration consistent with plant documentation? Y  N  U  N/A   
 (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)

*Not applicable since it is not part of the anchorage configuration verification.*

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

*Yes, based on the above anchorage evaluations, the anchorage is free of potentially adverse seismic conditions.*

**Interaction Effects**

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

*Yes, soft targets are free from impact by nearby equipment or structures.*

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y  N  U  N/A

*Grating above the tank is well supported. Therefore, overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls are not likely to collapse onto the equipment.*

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

*Attached lines have adequate flexibility to avoid damage.*

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

*The equipment is free of potentially adverse seismic interaction effects.*

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 3 of 4

IP3

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-100**

Equipment ID No. EDG-32-AR-TNK

Equip. Class<sup>1</sup> 21

Equipment Description AIR RECEIVER 30 GAL. TANK # 32 (32ART)

**Other Adverse Conditions**

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

*No other seismic conditions that could adversely affect the safety functions of the equipment.*

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

*References:*

9321-LL—67954-1, DIESEL GENERATOR BUILDING EL. 15'-0" AIR RECEIVER TANK GRATING SUPPORT DETAIL

9321-F-10543-10, CONTROL AND DIESEL GENERATOR BUILDINGS CONCRETE PLAN EL. 15'-0"

9321-F-40483-9, DIESEL GENERATOR BUILDING HEATING & VENTILATION PLAN & SECTION

9321-F-22513-9, DIESEL GENERATOR BUILDING GENERAL ARRANGEMENT ELEVATIONS AWC-020

Evaluated by: Maggie Farah  Date: 10/23/12

Kai Lo  10/23/12

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 4 of 4

IP3

Seismic Walkdown Checklist (SWC) SWEL1-100

Status: Y  N  U

Equipment ID No. EDG-32-AR-TNK

Equip. Class<sup>1</sup> 21

Equipment Description AIR RECEIVER 30 GAL. TANK # 32 (32ART)

**Photographs**



**Note:** *Air receiver 30 gal. tank #32*

**Note:**

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL2-001**

Equipment ID No. ACAPPW1 Equip. Class<sup>1</sup> 5

Equipment Description Refueling Water Purification 31 Pump and Motor

Location: Bldg. PAB Floor El. 41'-0" Room, Area \_\_\_\_\_

Manufacturer, Model, Etc. (optional but recommended) \_\_\_\_\_

**Instructions for Completing Checklist**

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

**Anchorage**

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

*Yes, the anchorage configuration verification is required.*

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

*Yes, the anchorage is free of bent, broken, missing or loose hardware.*

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

*Yes, the anchorage is free of corrosion that is more than mild surface oxidation.*

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

*Yes, the anchorage is free of visible cracks in the concrete near the anchor.*

<sup>1</sup> Enter the equipment class name from EPRI 1025286, Appendix B: Classes of Equipment.

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 2 of 4

IP3

Status: Y  N  U **Seismic Walkdown Checklist (SWC) SWEL2-001**Equipment ID No. ACAPPW1Equip. Class<sup>1</sup> 5Equipment Description Refueling Water Purification 31 Pump and Motor

5. Is the anchorage configuration consistent with plant documentation? Y  N  U  N/A   
 (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)

*Yes, the anchorage configuration is consistent with drawing 9321-F-11683-10.*

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

*Yes, based on the above anchorage evaluations, the anchorage is free of potentially adverse seismic conditions.*

**Interaction Effects**

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

*Yes, soft targets are free from impact by nearby equipment or structures.*

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y  N  U  N/A

*Observed fluorescent bulb directly above ACAPPW1 that is not secured to the light fixture. During a seismic event the bulb may fall and strike the pump's oil reservoir or nearby equipment. This is addressed in CR-IP3-2012-03653.*

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

*Yes, attached lines have adequate flexibility to avoid damage.*

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

*See #8.*

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 3 of 4

IP3

Status: Y  N  U

Seismic Walkdown Checklist (SWC) SWEL2-001

Equipment ID No. ACAPPW1

Equip. Class<sup>1</sup> 5

Equipment Description Refueling Water Purification 31 Pump and Motor

**Other Adverse Conditions**

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

*Yes, we have looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment.*

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

*References:  
9321-F-11683-10  
AWC-033*

Evaluated by: Maggie Farah Date: 10/22/12

Kai Lo 10/22/12

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 4 of 4

IP3

Status: Y  N  U

Seismic Walkdown Checklist (SWC) SWEL2-001

Equipment ID No. ACAPPW1

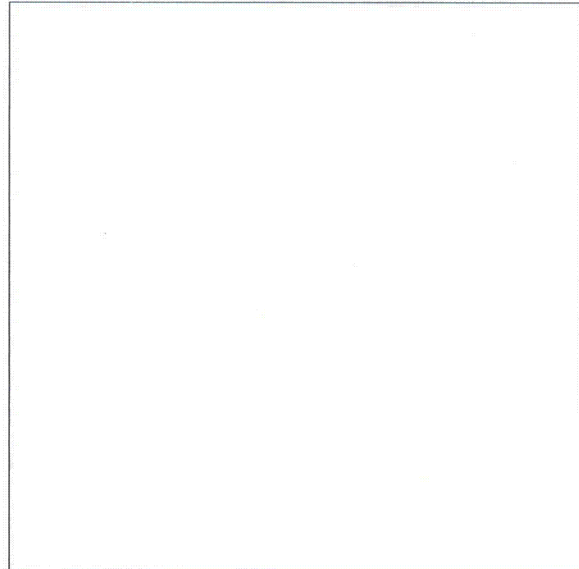
Equip. Class<sup>1</sup> 5

Equipment Description Refueling Water Purification 31 Pump and Motor

**Photographs**



**Note:** *Refueling Water Purification 31 Pump and Motor*



**Note:**

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 1 of 4

IP3

Status: Y  N  U Seismic Walkdown Checklist (SWC) SWEL2-002Equipment ID No. SFPC-31PPEquip. Class<sup>1</sup> 5Equipment Description Spent Fuel Pit Pump 31 and MotorLocation: Bldg. FSBFloor El. 41'-0"Room, SPENT FUEL PIT PUMP  
Area

Manufacturer, Model, Etc. (optional but recommended) \_\_\_\_\_

**Instructions for Completing Checklist**

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

**Anchorage**

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

*Yes, the anchorage configuration verification is required.*

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

*Yes, the anchorage is free of bent, broken, missing or loose hardware.*

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

*Yes, the anchorage is free of corrosion that is more than mild surface oxidation.*

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

*Yes, the anchorage is free of visible cracks in the concrete near the anchor.*

<sup>1</sup> Enter the equipment class name from EPRI 1025286, Appendix B: Classes of Equipment.



ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 2 of 4

IP3

Status: Y  N  U **Seismic Walkdown Checklist (SWC) SWEL2-002**Equipment ID No. SFPC-31PPEquip. Class<sup>1</sup> 5Equipment Description Spent Fuel Pit Pump 31 and Motor

5. Is the anchorage configuration consistent with plant documentation? Y  N  U  N/A   
 (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)

*Yes, the anchorage is consistent with plant drawing 9321-F-12003-7.*

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

*Yes, based on the above anchorage evaluations, the anchorage is free of potentially adverse seismic conditions.*

**Interaction Effects**

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

*Yes, soft targets are free from impact by nearby equipment or structures.*

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y  N  U  N/A

*Platform above is well supported. Yes, overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls are not likely to collapse onto the equipment.*

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

*Yes, attached lines have adequate flexibility to avoid damage.*

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

*Yes, based on the above seismic interaction evaluations, the equipment is free of potentially adverse seismic interaction effects.*

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 3 of 4

IP3

Status: Y  N  U

Seismic Walkdown Checklist (SWC) SWEL2-002

Equipment ID No. SFPC-31PP

Equip. Class<sup>1</sup> 5

Equipment Description Spent Fuel Pit Pump 31 and Motor

**Other Adverse Conditions**

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

*Yes, we have looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment.*

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

References:  
A210606-0  
9321-F-12003-7  
9321-F-25143-14  
IP3V-0209-0081-1, sheet 1  
IP3V-0415-0002-1, sheet 13  
AWC-41

Evaluated by: Maggie Farah  Date: 10/25/12

Kai Lo  10/25/12

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 4 of 4

IP3

Status: Y  N  U

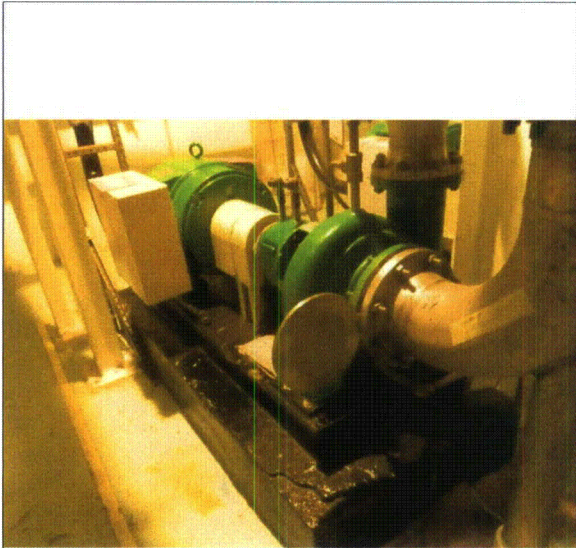
Seismic Walkdown Checklist (SWC) SWEL2-002

Equipment ID No. SFPC-31PP

Equip. Class<sup>1</sup> 5

Equipment Description Spent Fuel Pit Pump 31 and Motor

**Photographs**



**Note:** *spent fuel pit pump 31 & motor*



**Note:**

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 1 of 4

IP3

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL2-003**

Equipment ID No. SFPC-32PP

Equip. Class<sup>1</sup> 5

Equipment Description Spent Fuel Pit Pump 32 and Motor

Location: Bldg. FSB

Floor El. 41'-0"

Room, SPENT FUEL PIT PUMP  
Area

Manufacturer, Model, Etc. (optional but recommended) \_\_\_\_\_

**Instructions for Completing Checklist**

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

**Anchorage**

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

*Yes, the anchorage configuration verification is required.*

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

*Yes, the anchorage is free of bent, broken, missing or loose hardware.*

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

*Yes, the anchorage is free of corrosion that is more than mild surface oxidation.*

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

*Yes, the anchorage is free of visible cracks in the concrete near the anchor.*

<sup>1</sup> Enter the equipment class name from EPR1 1025286, Appendix B: Classes of Equipment.

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 2 of 4

IP3

Status: Y  N  U **Seismic Walkdown Checklist (SWC) SWEL2-003**Equipment ID No. SFPC-32PPEquip. Class<sup>1</sup> 5Equipment Description Spent Fuel Pit Pump 32 and Motor

5. Is the anchorage configuration consistent with plant documentation?  
(Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)  
*Yes, the anchorage is consistent with plant drawing 9321-F-12003-7* Y  N  U  N/A
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?  
*Yes, based on the above anchorage evaluations, the anchorage is free of potentially adverse seismic conditions.* Y  N  U

**Interaction Effects**

7. Are soft targets free from impact by nearby equipment or structures?  
*Yes, soft targets are free from impact by nearby equipment or structures.* Y  N  U  N/A
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?  
*Platform is well supported. Therefore, yes, overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls are not likely to collapse onto the equipment.* Y  N  U  N/A
9. Do attached lines have adequate flexibility to avoid damage?  
*Yes, attached lines have adequate flexibility to avoid damage.* Y  N  U  N/A
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?  
*Yes, based on the above seismic interaction evaluations, the equipment is free of potentially adverse seismic interaction effects.* Y  N  U

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 3 of 4

IP3

Status: Y  N  U

Seismic Walkdown Checklist (SWC) SWEL2-003

Equipment ID No. SFPC-32PP

Equip. Class<sup>1</sup> 5

Equipment Description Spent Fuel Pit Pump 32 and Motor

**Other Adverse Conditions**

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

*Yes, we have looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment.*

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

*References:*

*AWC-041*

*9321-F-12003-7*

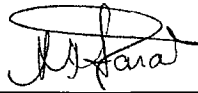
*9321-F-25143-14*

*IP3V-0415-0002, Rev. 1, sheet 13*

*IP3V-0209-0081, Rev. 1, sheet 1*

*A210606-0*

Evaluated by: Maggie Farah



Date: 10/25/12

Kai Lo



10/25/12

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 4 of 4

IP3

Status: Y  N  U

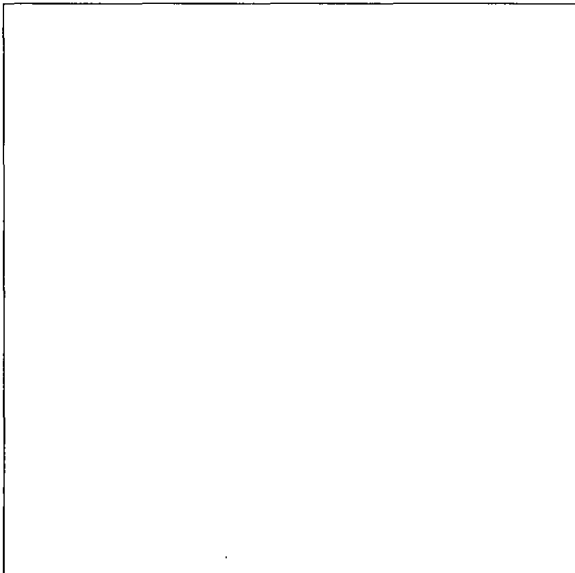
Seismic Walkdown Checklist (SWC) SWEL2-003

Equipment ID No. SFPC-32PP

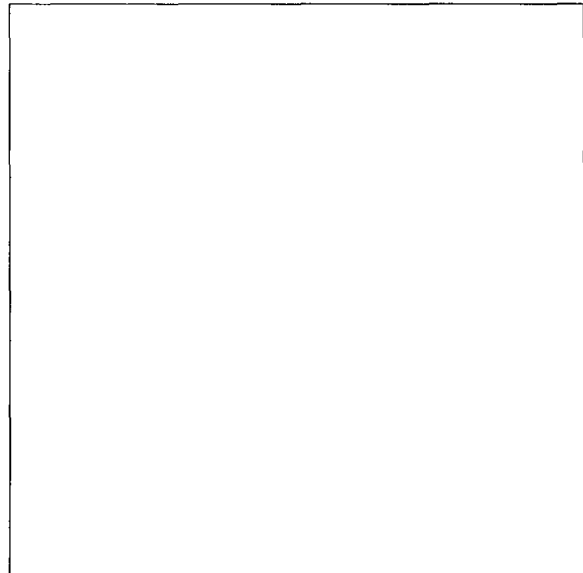
Equip. Class<sup>1</sup> 5

Equipment Description Spent Fuel Pit Pump 32 and Motor

**Photographs**



**Note:** *no photos attached.*



**Note:**

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL2-004**

Equipment ID No. ACAHSFI Equip. Class<sup>1</sup> 21

Equipment Description Spent Fuel Pit Heat Exchanger

Location: Bldg. FSB Floor El. 55'-0" Room, Area \_\_\_\_\_

Manufacturer, Model, Etc. (optional but recommended) \_\_\_\_\_

**Instructions for Completing Checklist**

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

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y  N   
*Yes, the anchorage configuration verification is required.*
  
2. Is the anchorage free of bent, broken, missing or loose hardware? Y  N  U  N/A   
*Yes, the anchorage is free of bent, broken, missing or loose hardware.*
  
3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y  N  U  N/A   
*Yes, the anchorage is free of corrosion that is more than mild surface oxidation.*
  
4. Is the anchorage free of visible cracks in the concrete near the anchors? Y  N  U  N/A   
*Yes, the anchorage is free of visible cracks in the concrete near the anchor.*

<sup>1</sup> Enter the equipment class name from EPRI 1025286, Appendix B: Classes of Equipment.



ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 2 of 4

IP3

Status: Y  N  U **Seismic Walkdown Checklist (SWC) SWEL2-004**Equipment ID No. ACAHSFIEquip. Class<sup>1</sup> 21Equipment Description Spent Fuel Pit Heat Exchanger

5. Is the anchorage configuration consistent with plant documentation? Y  N  U  N/A   
 (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)  
*The anchorage is consistent with plant drawings 9321-F-11973-8 and 9321-F-12003-7.*
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y  N  U

**Interaction Effects**

7. Are soft targets free from impact by nearby equipment or structures? Y  N  U  N/A   
*Yes, soft targets are free from impact by nearby equipment or structures.*
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y  N  U  N/A   
*Observed two masonry block walls at the south and east side of the room. The block walls are seismically qualified in calculation 2123-039-001.*
9. Do attached lines have adequate flexibility to avoid damage? Y  N  U  N/A   
*Yes, attached lines have adequate flexibility to avoid damage.*
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y  N  U   
*Yes, based on the above seismic interaction evaluations, the equipment is free of potentially adverse seismic interaction effects.*

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 3 of 4

IP3

Status: Y  N  U

Seismic Walkdown Checklist (SWC) SWEL2-004

Equipment ID No. ACAHSFI

Equip. Class<sup>1</sup> 21

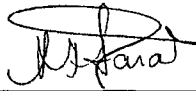
Equipment Description Spent Fuel Pit Heat Exchanger


**Other Adverse Conditions**

11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? Y  N  U
- Yes, we have looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment.*

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

References:  
 9321-F-25143-14  
 IP3V-299-0008-1  
 9321-F-11973-8  
 AWC-042  
 Calculation 2123-039-001

Evaluated by: Maggie Farah  Date: 10/25/12

Kai Lo  10/25/12

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 4 of 4

IP3

Status: Y  N  U

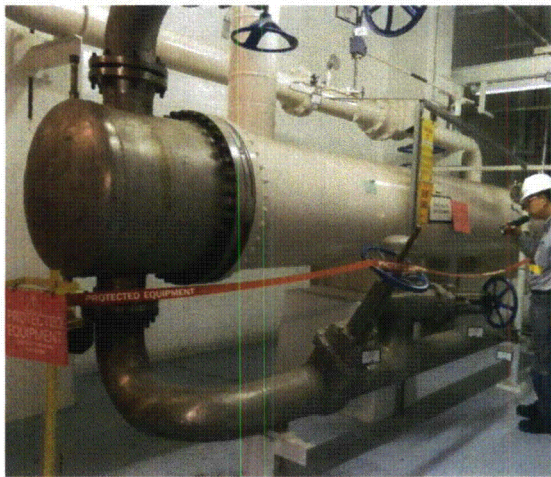
Seismic Walkdown Checklist (SWC) SWEL2-004

Equipment ID No. ACAHSFI

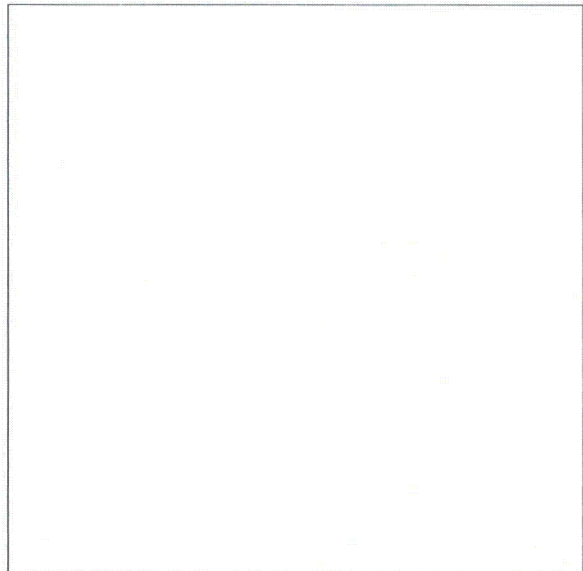
Equip. Class<sup>1</sup> 21

Equipment Description Spent Fuel Pit Heat Exchanger

Photographs



Note: *spent fuel pit heat exchanger*



Note:

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 1 of 4

IP3

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL2-005**

Equipment ID No. PUMP #31 PRIMARY LOOP Equip. Class<sup>1</sup> 5

Equipment Description BUSFPC Primary Loop Pump 31

Location: Bldg. FSB Floor El. 95 Room, Area \_\_\_\_\_

Manufacturer, Model, Etc. (optional but recommended) \_\_\_\_\_

**Instructions for Completing Checklist**

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

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y  N   
 No, the anchorage configuration verification is not required.
  
2. Is the anchorage free of bent, broken, missing or loose hardware? Y  N  U  N/A   
 Yes, the anchorage is free of bent, broken, missing or loose hardware.
  
3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y  N  U  N/A   
 Yes, the anchorage is free of corrosion that is more than mild surface oxidation.
  
4. Is the anchorage free of visible cracks in the concrete near the anchors? Y  N  U  N/A   
 Yes, the anchorage is free of visible cracks in the concrete near the anchor.

<sup>1</sup> Enter the equipment class name from EPRI 1025286, Appendix B: Classes of Equipment.

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 2 of 4

IP3

Status: Y  N  U **Seismic Walkdown Checklist (SWC) SWEL2-005**Equipment ID No. PUMP #31 PRIMARY LOOPEquip. Class<sup>1</sup> 5Equipment Description BUSFPC Primary Loop Pump 31

5. Is the anchorage configuration consistent with plant documentation? Y  N  U  N/A   
 (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)  
*Not applicable since is not part of the anchorage configuration verification.*
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y  N  U   
*Yes, based on the above anchorage evaluations, the anchorage is free of potentially adverse seismic conditions.*

**Interaction Effects**

7. Are soft targets free from impact by nearby equipment or structures? Y  N  U  N/A   
*Yes, soft targets are free from impact by nearby equipment or structures.*
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y  N  U  N/A   
*Yes, overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls are not likely to collapse onto the equipment.*
9. Do attached lines have adequate flexibility to avoid damage? Y  N  U  N/A   
*Yes, attached lines have adequate flexibility to avoid damage.*
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y  N  U   
*Yes, based on the above seismic interaction evaluations, the equipment is free of potentially adverse seismic interaction effects.*

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 3 of 4

IP3

Status: Y  N  U

Seismic Walkdown Checklist (SWC) SWEL2-005

Equipment ID No. PUMP #31 PRIMARY LOOP

Equip. Class<sup>1</sup> 5

Equipment Description BUSFPC Primary Loop Pump 31

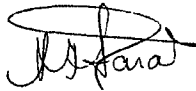
**Other Adverse Conditions**

11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? Y  N  U
- Yes, we have looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment.*

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

References:  
 AWC-043  
 9321-F-25143-14

Evaluated by: Maggie Farah



Date: 10/25/12

Kai Lo



10/25/12

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 4 of 4

IP3

Status: Y  N  U

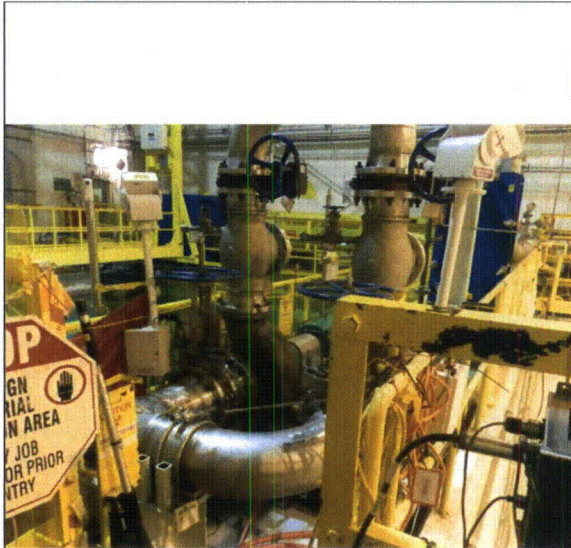
Seismic Walkdown Checklist (SWC) SWEL2-005

Equipment ID No. PUMP #31 PRIMARY LOOP

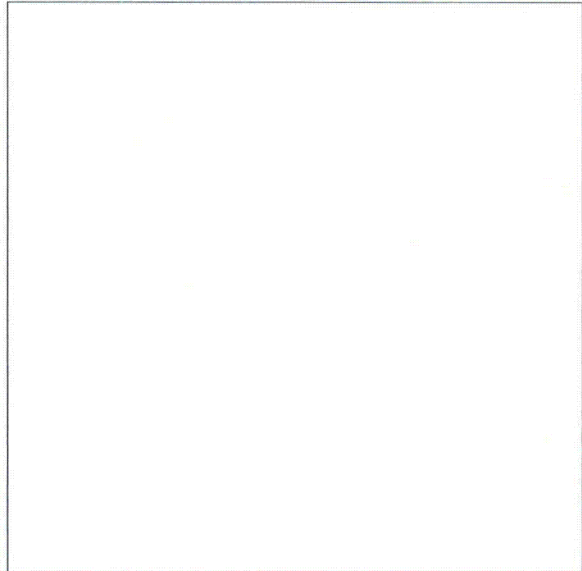
Equip. Class<sup>1</sup> 5

Equipment Description BUSFPC Primary Loop Pump 31

Photographs



Note: *Pump #31 Primary Loop*



Note:

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 1 of 4

IP3

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL2-006**

Equipment ID No. PUMP #32 PRIMARY LOOP Equip. Class<sup>1</sup> 5

Equipment Description BUSFPC Primary Loop Pump 32

Location: Bldg. FSB Floor El. 95 Room, Area \_\_\_\_\_

Manufacturer, Model, Etc. (optional but recommended) \_\_\_\_\_

**Instructions for Completing Checklist**

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

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y  N   
*No, the anchorage configuration verification is not required.*
  
2. Is the anchorage free of bent, broken, missing or loose hardware? Y  N  U  N/A   
*Yes, the anchorage is free of bent, broken, missing or loose hardware.*
  
3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y  N  U  N/A   
*Yes, the anchorage is free of corrosion that is more than mild surface oxidation.*
  
4. Is the anchorage free of visible cracks in the concrete near the anchors? Y  N  U  N/A   
*Yes, the anchorage is free of visible cracks in the concrete near the anchor.*

<sup>1</sup> Enter the equipment class name from EPRI 1025286, Appendix B: Classes of Equipment.



ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 2 of 4

IP3

Status: Y  N  U **Seismic Walkdown Checklist (SWC) SWEL2-006**Equipment ID No. PUMP #32 PRIMARY LOOPEquip. Class<sup>1</sup> 5Equipment Description BUSFPC Primary Loop Pump 32

5. Is the anchorage configuration consistent with plant documentation? Y  N  U  N/A   
 (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)  
*Not applicable since is not part of the anchorage configuration verification.*
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y  N  U   
*Yes, based on the above anchorage evaluations, the anchorage is free of potentially adverse seismic conditions.*

**Interaction Effects**

7. Are soft targets free from impact by nearby equipment or structures? Y  N  U  N/A   
*Yes, soft targets are free from impact by nearby equipment or structures.*
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y  N  U  N/A   
*Yes, overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls are not likely to collapse onto the equipment.*
9. Do attached lines have adequate flexibility to avoid damage? Y  N  U  N/A   
*Yes, attached lines have adequate flexibility to avoid damage.*
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y  N  U   
*Yes, based on the above seismic interaction evaluations, the equipment is free of potentially adverse seismic interaction effects.*

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 3 of 4

IP3

Status: Y  N  U

Seismic Walkdown Checklist (SWC) SWEL2-006

Equipment ID No. PUMP #32 PRIMARY LOOP

Equip. Class<sup>1</sup> 5

Equipment Description BUSFPC Primary Loop Pump 32

**Other Adverse Conditions**

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

*Yes, we have looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment.*

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

References:  
AWC-043  
9321-F-25143-14

Evaluated by: Maggie Farah  Date: 10/25/12

Kai Lo  10/25/12

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 4 of 4

IP3

Status: Y  N  U

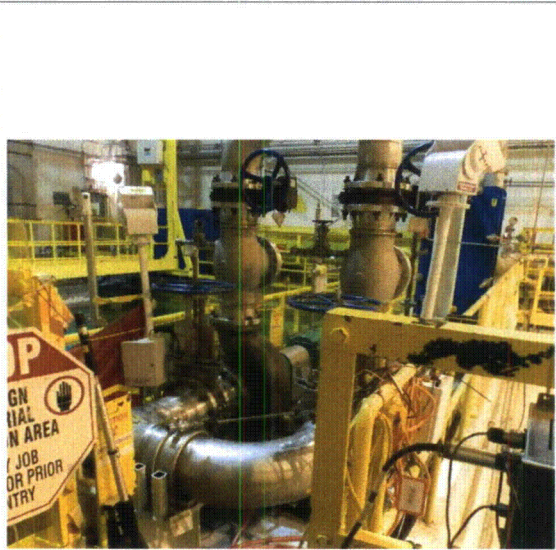
Seismic Walkdown Checklist (SWC) SWEL2-006

Equipment ID No. PUMP #32 PRIMARY LOOP

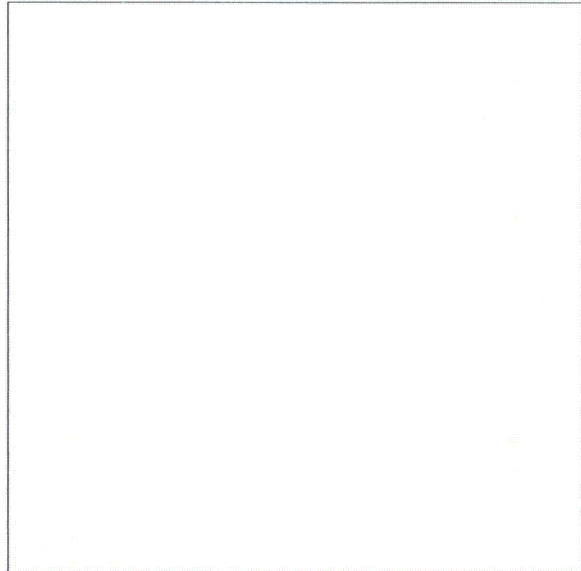
Equip. Class<sup>1</sup> 5

Equipment Description BUSFPC Primary Loop Pump 32

**Photographs**



**Note:** *Pump #32 primary loop*



**Note:**

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 1 of 4

IP3

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL2-007**

Equipment ID No. BSFPC Plate Heat Exchanger Equip. Class<sup>1</sup> 21

Equipment Description BUSFPC Paraflow Plate Heat Exchanger

Location: Bldg. FSB Floor El. 95 Room, Area \_\_\_\_\_

Manufacturer, Model, Etc. (optional but recommended) \_\_\_\_\_

**Instructions for Completing Checklist**

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

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y  N   
*Yes, the anchorage configuration verification is required.*
  
2. Is the anchorage free of bent, broken, missing or loose hardware? Y  N  U  N/A   
*Yes, the anchorage is free of bent, broken, missing or loose hardware.*
  
3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y  N  U  N/A   
*Yes, the anchorage is free of corrosion that is more than mild surface oxidation.*
  
4. Is the anchorage free of visible cracks in the concrete near the anchors? Y  N  U  N/A   
  
*Yes, the anchorage is free of visible cracks in the concrete near the anchor.*

<sup>1</sup> Enter the equipment class name from EPRI 1025286, Appendix B: Classes of Equipment.

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 2 of 4

IP3

Status: Y  N  U **Seismic Walkdown Checklist (SWC) SWEL2-007**Equipment ID No. BSFPC Plate Heat ExchangerEquip. Class<sup>1</sup> 21Equipment Description BUSFPC Paraflow Plate Heat Exchanger

5. Is the anchorage configuration consistent with plant documentation? Y  N  U  N/A   
 (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)  
*Drawing IP3V-2022-0001 shows the anchorage details for the Plate Heat Exchanger. This drawing shows the base plate attached to the wide flange has one bolt. SWES noted that there are 3 extra bolts on this base plates which is acceptable since the extra bolts provide more capacity.*
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y  N  U   
*Yes, based on the above anchorage evaluations, the anchorage is free of potentially adverse seismic conditions.*

**Interaction Effects**

7. Are soft targets free from impact by nearby equipment or structures? Y  N  U  N/A   
*Yes, soft targets are free from impact by nearby equipment or structures.*
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y  N  U  N/A   
*Yes, overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls are not likely to collapse onto the equipment.*
9. Do attached lines have adequate flexibility to avoid damage? Y  N  U  N/A   
*Yes, attached lines have adequate flexibility to avoid damage.*
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y  N  U   
*Yes, based on the above seismic interaction evaluations, the equipment is free of potentially adverse seismic interaction effects.*

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 3 of 4

IP3

Status: Y  N  U

Seismic Walkdown Checklist (SWC) SWEL2-007

Equipment ID No. BSFPC Plate Heat Exchanger

Equip. Class<sup>1</sup> 21

Equipment Description BUSFPC Paraflow Plate Heat Exchanger


**Other Adverse Conditions**

11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? Y  N  U
- Yes, we have looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment.*

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

*References:*  
 AWC-043  
 IP3V-2022-0001, Rev. 1, sh. 1

Evaluated by: Maggie Farah  Date: 10/25/12

Kai Lo  10/25/12

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 4 of 4

IP3

Status: Y  N  U

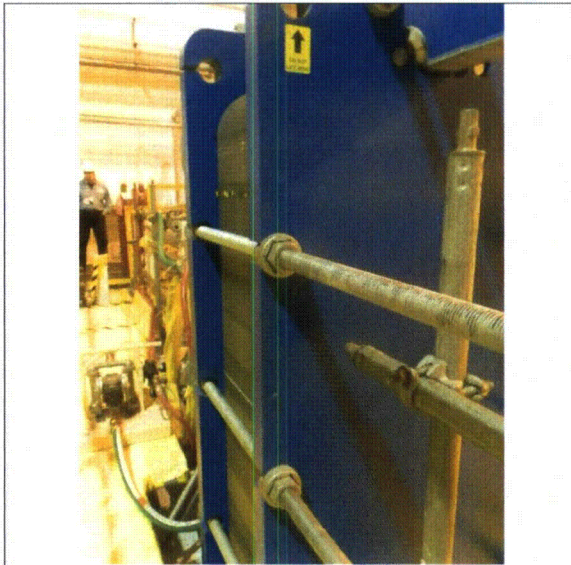
Seismic Walkdown Checklist (SWC) SWEL2-007

Equipment ID No. BSFPC Plate Heat Exchanger

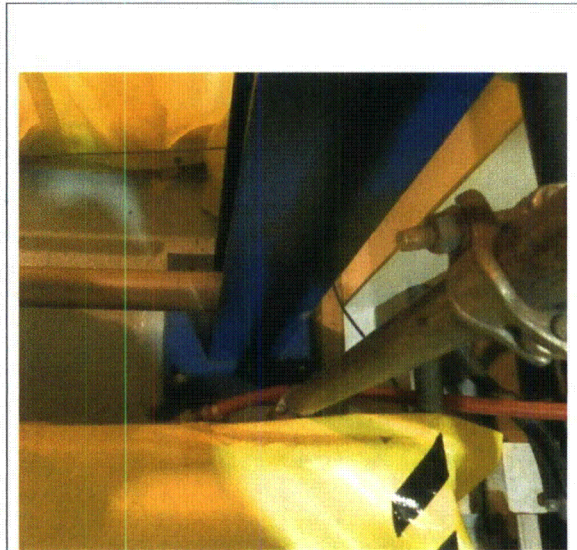
Equip. Class<sup>1</sup> 21

Equipment Description BUSFPC Paraflow Plate Heat Exchanger

**Photographs**



**Note:** BSFPC plate heat exchanger



**Note:** base plate with 3 additional bolts.

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 1 of 5

IP3

Status: Y  N  U **Seismic Walkdown Checklist (SWC) SWEL2-008**Equipment ID No. SFPB Bridge CraneEquip. Class<sup>1</sup> 0Equipment Description Spent Fuel Pit Bridge CraneLocation: Bldg. FSBFloor El. 95

Room, Area \_\_\_\_\_

Manufacturer, Model, Etc. (optional but recommended) \_\_\_\_\_

**Instructions for Completing Checklist**

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

**Anchorage**

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

*No, the anchorage configuration verification is not required.*

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

*Yes, the anchorage is free of bent, broken, missing or loose hardware.*

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

*Yes, the anchorage is free of corrosion that is more than mild surface oxidation.*

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

*The crane is attached to structural steel.*

<sup>1</sup> Enter the equipment class name from EPRI 1025286, Appendix B: Classes of Equipment.



ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 2 of 5

IP3

Status: Y  N  U **Seismic Walkdown Checklist (SWC) SWEL2-008**Equipment ID No. SFPB Bridge CraneEquip. Class<sup>1</sup> 0Equipment Description Spent Fuel Pit Bridge Crane

5. Is the anchorage configuration consistent with plant documentation? Y  N  U  N/A   
 (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)

*Not applicable since is not part of the anchorage configuration verification.*

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

*Yes, based on the above anchorage evaluations, the anchorage is free of potentially adverse seismic conditions.*

**Interaction Effects**

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

*Yes, soft targets are free from impact by nearby equipment or structures.*

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y  N  U  N/A

*Yes, overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls are not likely to collapse onto the equipment.*

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

*Yes, attached lines have adequate flexibility to avoid damage.*

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

*Yes, based on the above seismic interaction evaluations, the equipment is free of potentially adverse seismic interaction effects.*

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 3 of 5

IP3

Status: Y  N  U

Seismic Walkdown Checklist (SWC) SWEL2-008

Equipment ID No. SFPB Bridge Crane

Equip. Class<sup>1</sup> 0

Equipment Description Spent Fuel Pit Bridge Crane

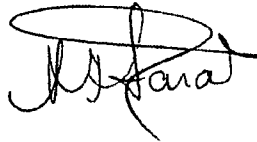
**Other Adverse Conditions**

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

*Yes, we have looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment.*

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

References:  
9321-F-25143-14  
9321-F-13063-5  
9321-F-13883-9  
AWC-043



Evaluated by: Maggie Farah Date: 10/25/12

Kai Lo  10/25/12

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 4 of 5

IP3

Seismic Walkdown Checklist (SWC) SWEL2-008

Status: Y  N  U

Equipment ID No. SFPB Bridge Crane

Equip. Class<sup>1</sup> 0

Equipment Description Spent Fuel Pit Bridge Crane

**Photographs**



**Note:** *SFPB bridge crane*

**Note:**

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 5 of 5

IP3

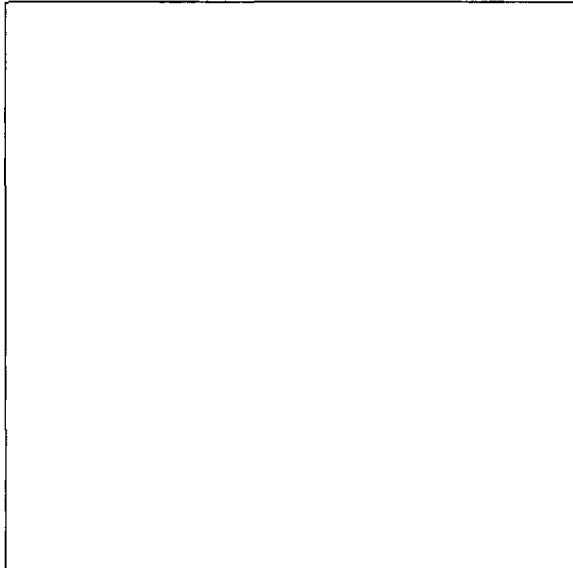
Status: Y  N  U

Seismic Walkdown Checklist (SWC) SWEL2-008

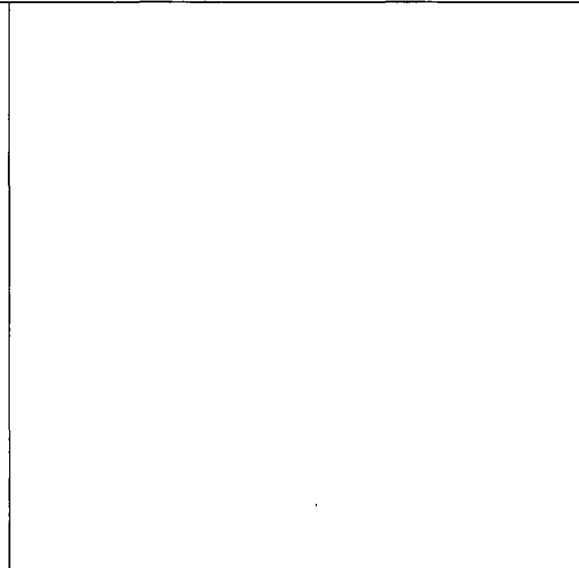
Equipment ID No. SFPB Bridge Crane

Equip. Class<sup>1</sup> 0

Equipment Description Spent Fuel Pit Bridge Crane



**Note:** *no photos attached*



**Note:**

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 1 of 4

IP3

Status: Y N U

**Seismic Walkdown Checklist (SWC) SWEL2-009**

Equipment ID No. FSB Crane

Equip. Class<sup>1</sup> 0

Equipment Description Fuel Storage Building 40/5 Ton Crane

Location: Bldg. FSB Floor El. 137 Room, Area \_\_\_\_\_

Manufacturer, Model, Etc. (optional but recommended) \_\_\_\_\_

**Instructions for Completing Checklist**

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

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y N  
 No, the anchorage configuration verification is not required.
  
2. Is the anchorage free of bent, broken, missing or loose hardware? Y N U N/A  
 Yes, the anchorage is free of bent, broken, missing or loose hardware.
  
3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y N U N/A  
 Yes, the anchorage is free of corrosion that is more than mild surface oxidation.
  
4. Is the anchorage free of visible cracks in the concrete near the anchors? Y N U N/A  
 Not applicable since the anchorage is attached to steel.

<sup>1</sup> Enter the equipment class name from EPRI 1025286, Appendix B: Classes of Equipment.

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 2 of 4

IP3

Status: Y  N  U **Seismic Walkdown Checklist (SWC) SWEL2-009**Equipment ID No. FSB CraneEquip. Class<sup>1</sup> 0Equipment Description Fuel Storage Building 40/5 Ton Crane

5. Is the anchorage configuration consistent with plant documentation? Y  N  U  N/A   
 (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)  
*Not applicable since is not part of the anchorage configuration verification.*
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y  N  U   
*Yes, based on the above anchorage evaluations, the anchorage is free of potentially adverse seismic conditions.*

**Interaction Effects**

7. Are soft targets free from impact by nearby equipment or structures? Y  N  U  N/A   
*Not applicable since the crane is not a soft target.*
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y  N  U  N/A   
*Yes, overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls are not likely to collapse onto the equipment.*
9. Do attached lines have adequate flexibility to avoid damage? Y  N  U  N/A   
*Yes, attached lines have adequate flexibility to avoid damage.*
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y  N  U   
*Yes, based on the above seismic interaction evaluations, the equipment is free of potentially adverse seismic interaction effects.*

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 3 of 4

IP3

Status: Y  N  U

Seismic Walkdown Checklist (SWC) SWEL2-009

Equipment ID No. FSB Crane

Equip. Class<sup>1</sup> 0

Equipment Description Fuel Storage Building 40/5 Ton Crane


**Other Adverse Conditions**

11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? Y  N  U
- Yes, we have looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment.*

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

References:  
 9321-F-25143-14  
 9321-F-13063-5  
 AWC-043

Evaluated by: Maggie Farah  Date: 10/25/12

Kai Lo  10/25/12

ATTACHMENT 9.6

SEISMIC WALKDOWN CHECKLIST FORM

Sheet 4 of 4

IP3

Status: Y  N  U

Seismic Walkdown Checklist (SWC) SWEL2-009

Equipment ID No. FSB Crane

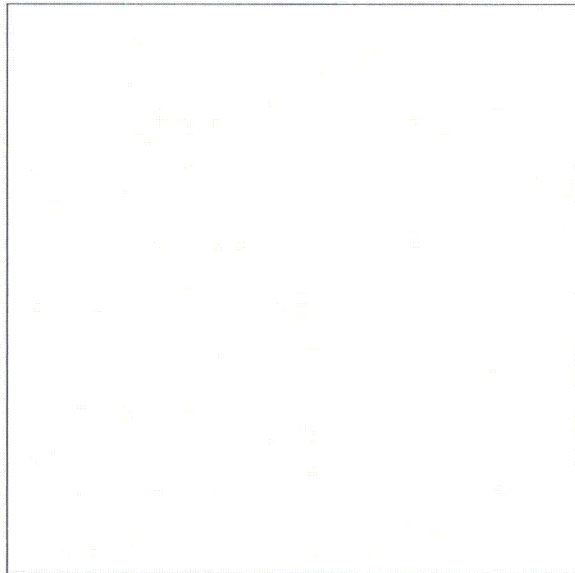
Equip. Class<sup>1</sup> 0

Equipment Description Fuel Storage Building 40/5 Ton Crane

**Photographs**



**Note:** *FSB crane*



**Note:**



ATTACHMENT D – AREA WALK-BY CHECKLISTS (AWCs)

**ATTACHMENT 9.7****AREA WALK-BY CHECKLIST**

Sheet 1 of 4

IP3

Status: Y  N  U **Area Walk-By Checklist (AWC) AWC-001**Location: Bldg. DG Floor El. 15'-0" Room, Area<sup>1</sup> \_\_\_\_\_**SWEL Components: SWEL1-006, 017****Instructions for Completing Checklist**

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

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

*Anchorage of equipment in the area appears to be free of potentially adverse seismic conditions.*

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

*Anchorage of equipment in the area appears to be free of significant degraded conditions.*

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

*Cable/conduit raceways and HVAC ducting appear to be free of potentially adverse seismic conditions.*

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

**ATTACHMENT 9.7**

**AREA WALK-BY CHECKLIST**

Sheet 2 of 4

IP3

Status: Y  N  U

**Area Walk-By Checklist (AWC) AWC-001**

Location: Bldg. DG Floor El. 15'-0" Room, Area<sup>1</sup> \_\_\_\_\_

**SWEL Components: SWEL1-006, 017**

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

*Junction box cover adjacent to Appendix R EBR-8-EDG cabinet directly above CO2-CP-1A cabinet only has two of four screws in place (see attached photo). The plate is light in weight and the existing screws are tight and secure. This is judged to be adequate.*

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

*The area is free of potentially adverse seismic interactions that could cause flooding or spray in the area.*

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

*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 temporary installations (e.g., scaffolding, lead shielding)? Y  N  U  N/A

*The area is free of potentially adverse seismic interactions associated with housekeeping practices, storage of portable equipment, and temporary installations.*

ATTACHMENT 9.7

AREA WALK-BY CHECKLIST

Sheet 3 of 4

IP3

Status: Y  N  U

Area Walk-By Checklist (AWC) AWC-001


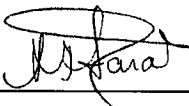

Location: Bldg. DG Floor El. 15'-0" Room, Area<sup>1</sup> \_\_\_\_\_

SWEL Components: SWEL1-006, 017

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

*Yes, we have looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment.*

Comments (Additional pages may be added as necessary)

Evaluated by: Paul Huebsch  Date: 10/09/2012  
Maggie Farah  10/09/2012  
Kai Lo  Date: 10/09/2012

ATTACHMENT 9.7

AREA WALK-BY CHECKLIST

Sheet 4 of 4

IP3

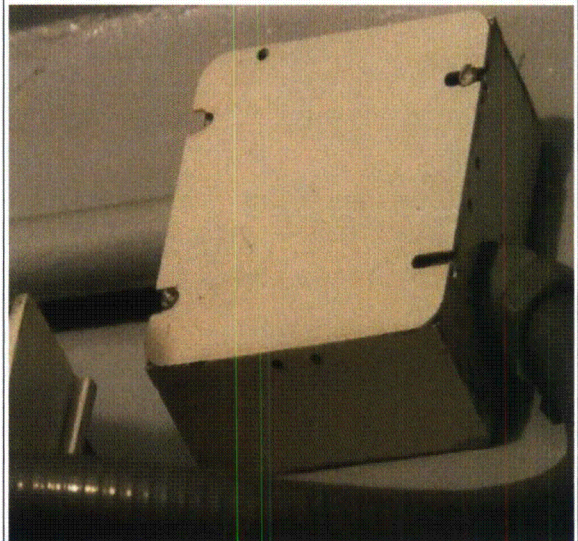
Status: Y  N  U

Area Walk-By Checklist (AWC) AWC-001

Location: Bldg. DG Floor El. 15'-0" Room, Area<sup>1</sup> \_\_\_\_\_

SWEL Components: SWEL1-006, 017

Photographs

	
<p><b>Note:</b> <i>Junction box cover adjacent with 2 missing screws.</i></p>	<p><b>Note:</b></p>

**ATTACHMENT 9.7**

**AREA WALK-BY CHECKLIST**

Sheet 1 of 5

IP3

Status: Y  N  U

**Area Walk-By Checklist (AWC) AWC-002**

Location: Bldg. CB Floor El. 15'-0" Room, Area<sup>1</sup> SWITCHGEAR ROOM

**SWEL Components: SWEL1-099, 090, 056, 057, 071, 014, 015, 013**

**Instructions for Completing Checklist**

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

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

*Anchorage of equipment in the area appears to be free of potentially adverse seismic conditions.*

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

*Anchorage of equipment in the area appears to be free of significant degraded conditions.*

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

*Cable/conduit raceways 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).*

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

**ATTACHMENT 9.7**

**AREA WALK-BY CHECKLIST**

Sheet 2 of 5

IP3

Status: Y  N  U

**Area Walk-By Checklist (AWC) AWC-002**

Location: Bldg. CB Floor El. 15'-0" Room, Area<sup>1</sup> SWITCHGEAR ROOM

**SWEL Components: SWEL1-099, 090, 056, 057, 071, 014, 015, 013**

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

*Fluorescent fixtures are secured to the supporting structure and are acceptable. However, the bulbs are not secured and could be loosened and drop in a seismic event. Judged seismically acceptable given hard targets in the area. This has been documented in CR-IP3-2012-03123.*

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

*The area is free of potentially adverse seismic interactions that could cause flooding or spray in the area.*

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

*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 temporary installations (e.g., scaffolding, lead shielding)? Y  N  U  N/A

*The area is free of potentially adverse seismic interactions associated with housekeeping practices, storage of portable equipment, and temporary installations.*

ATTACHMENT 9.7

AREA WALK-BY CHECKLIST

Sheet 3 of 5

Status: Y  N  U  IP3

Area Walk-By Checklist (AWC) AWC-002

Location: Bldg. CB Floor El. 15'-0" Room, Area<sup>1</sup> SWITCHGEAR ROOM

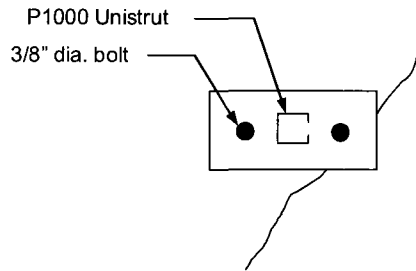
SWEL Components: SWEL1-099, 090, 056, 057, 071, 014, 015, 013

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

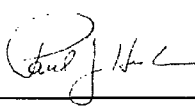
*Speakers are supported directly off of conduit and there was a concern that in a seismic event that the speakers could rotate and impact valves IA-642 and IA-73-1. A closer review determined that the speakers could not impact the valves. Therefore, this is not a seismic concern.*

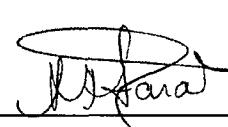
**Comments** (Additional pages may be added as necessary)


*Observed a crack crossing the east bolt of a conduit support on the north wall for conduits coming out of Relay Box TR-2 K00. The conduit support consist of a P1000 Unistrut with two 3/8" diameter bolts supporting ≈1½" and ≈¾" diameter conduits (see attached photos). A sketch of the crack and the support is shown below for clarification. This is evaluated in LB-16.*



*Observed a Unistrut connection angle clip has play in it which allows the spring nut in the Unistrut to wiggle and not tighten the bolt. The tube track is adjacent to the heater 25 in the Control building elevation 15. This allows the unistrut to wiggle but is still operable. Not a seismic interaction issue since it will not dislodge and small load. This is documented in CR-IP3-2012-3416.*

Evaluated by: Paul Huebsch  Date: 10/09/2012

Maggie Farah  10/09/2012

Kai Lo  Date: 10/09/2012



ATTACHMENT 9.7

AREA WALK-BY CHECKLIST

Sheet 4 of 5

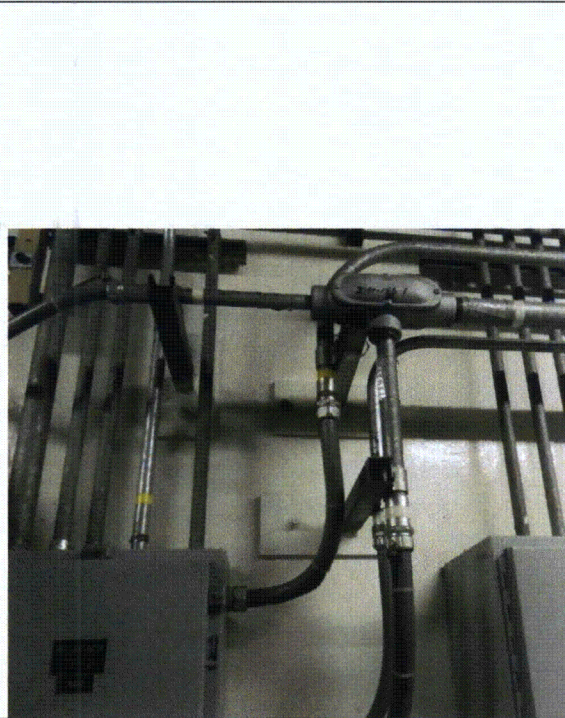
Status: Y  N  U  IP3

Area Walk-By Checklist (AWC) AWC-002

Location: Bldg. CB Floor El. 15'-0" Room, Area<sup>1</sup> SWITCHGEAR ROOM

SWEL Components: SWEL1-099, 090, 056, 057, 071, 014, 015, 013

Photographs



**Note:** conduit support east of Relay Box TR-2 K00



**Note:** crack near the east bolt

ATTACHMENT 9.7

AREA WALK-BY CHECKLIST

Sheet 5 of 5

IP3

Status: Y  N  U

Area Walk-By Checklist (AWC) AWC-002

Location: Bldg. CB Floor El. 15'-0" Room, Area<sup>1</sup> SWITCHGEAR ROOM

SWEL Components: SWEL1-099, 090, 056, 057, 071, 014, 015, 013



**Note:** crack going through the east bolt

**Note:**

**ATTACHMENT 9.7****AREA WALK-BY CHECKLIST**

Sheet 1 of 4

IP3

Status: Y  N  U **Area Walk-By Checklist (AWC) AWC-003**Location: Bldg. CB Floor El. 15'-0" Room, Area<sup>1</sup> A/C EQUIPMENT ROOM**SWEL Components: SWEL- 1-054, 055****Instructions for Completing Checklist**

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

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

*Yes anchorage of equipment in the area appears to be free of potentially adverse seismic conditions.*

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

*Yes anchorage of equipment in the area appears to be free of significant degraded conditions.*

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

*Unistrut on masonry block wall 53B is missing an anchor. The base of the Unistrut is supported with duct tape and the Unistrut now has approximately 4 feet of unsupported cantilever. This is documented in CR-IP3-2012-03129.*

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

**ATTACHMENT 9.7****AREA WALK-BY CHECKLIST**

Sheet 2 of 4

IP3

Status: Y  N  U Area Walk-By Checklist (AWC) AWC-003Location: Bldg. CB Floor El. 15'-0" Room, Area<sup>1</sup> A/C EQUIPMENT ROOMSWEL Components: SWEL- 1-054, 055

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

Yes, it appears that the area is free of potentially adverse seismic spatial interactions with other equipment in the area.

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

*Yes it appears that the area is free of potentially adverse seismic interactions that could cause flooding or spray in the area.*

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

*Yes it appears 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 temporary installations (e.g., scaffolding, lead shielding)? Y  N  U  N/A

*The nitrogen tank at IA-PCV-817 is adequately supported at the wall. However, the steel cap for the tank is loose on a wall channel behind the tank and could be displaced by a seismic event and strike nearby equipment. This is documented in CR-IP3-2012-03128.*

ATTACHMENT 9.7

AREA WALK-BY CHECKLIST

Sheet 3 of 4

IP3

Status: Y  N  U

Area Walk-By Checklist (AWC) AWC-003

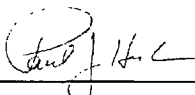
Location: Bldg. CB Floor El. 15'-0" Room, Area<sup>1</sup> A/C EQUIPMENT ROOM

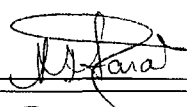
SWEL Components: SWEL- 1-054, 055


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

*Yes we have looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment in the area.*

Comments (Additional pages may be added as necessary)

Evaluated by: Paul Huebsch  Date: 10/09/2012

Maggie Farah  Date: 10/09/2012

Kai Lo  Date: 10/09/2012

**ATTACHMENT 9.7**

**AREA WALK-BY CHECKLIST**

Sheet 4 of 4

IP3

Status: Y  N  U

Area Walk-By Checklist (AWC) AWC-003

Location: Bldg. CB Floor El. 15'-0" Room, Area<sup>1</sup> A/C EQUIPMENT ROOM

SWEL Components: SWEL- 1-054, 055

**Photographs**

<b>Note:</b> <i>No photos attached.</i>	<b>Note:</b>

**ATTACHMENT 9.7****AREA WALK-BY CHECKLIST**

Sheet 1 of 4

IP3

Status: Y  N  U **Area Walk-By Checklist (AWC) AWC-004**Location: Bldg. CB Floor El. 33'-0" Room, Area<sup>1</sup> Battery Room 31**SWEL Components: SWEL1-065****Instructions for Completing Checklist**

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

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

*Yes anchorage of equipment in the area appears to be free of potentially adverse seismic conditions.*

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

*Yes anchorage of equipment in the area appears to be free of significant degraded conditions.*

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

*Yes based on a visual inspection from the floor, the cable/conduit raceways and HVAC ducting appears to be free of potentially adverse seismic conditions.*

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

**ATTACHMENT 9.7**

**AREA WALK-BY CHECKLIST**

Sheet 2 of 4

IP3

Status: Y  N  U

**Area Walk-By Checklist (AWC) AWC-004**

Location: Bldg. CB Floor El. 33'-0" Room, Area<sup>1</sup> Battery Room 31

**SWEL Components: SWEL1-065**

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

*Yes, it appears that the area is free of potentially adverse seismic spatial interactions with other equipment in the area.*

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

*Yes it appears that the area is free of potentially adverse seismic interactions that could cause flooding or spray in the area.*

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

*Yes it appears 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 temporary installations (e.g., scaffolding, lead shielding)? Y  N  U  N/A

*Yes it appears that the area is free of potentially adverse seismic interactions associated with housekeeping practices, storage of portable equipment, and temporary installations.*



ATTACHMENT 9.7

AREA WALK-BY CHECKLIST

Sheet 3 of 4

IP3

Status: Y  N  U

Area Walk-By Checklist (AWC) AWC-004

Location: Bldg. CB Floor El. 33'-0" Room, Area<sup>1</sup> Battery Room 31


SWEL Components: SWEL1-065

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

*Yes we have looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment in the area.*

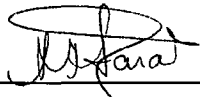
Comments (Additional pages may be added as necessary)

Evaluated by: Paul Huebsch



Date: 10/10/2012

Maggie Farah



10/10/2012

Kai Lo



10/10/2012

**ATTACHMENT 9.7**

**AREA WALK-BY CHECKLIST**

Sheet 4 of 4

IP3

Status: Y  N  U

**Area Walk-By Checklist (AWC) AWC-004**

Location: Bldg. CB Floor El. 33'-0" Room, Area<sup>1</sup> Battery Room 31

**SWEL Components: SWEL1-065**

**Photographs**

<b>Note:</b> <i>No photos attached.</i>	<b>Note:</b>

**ATTACHMENT 9.7**

**AREA WALK-BY CHECKLIST**

Sheet 1 of 4

IP3

Status: Y  N  U

Area Walk-By Checklist (AWC) AWC-005

Location: Bldg. CB Floor El. 33'-0" Room, Area<sup>1</sup> BATTERY ROOM 32

SWEL Components: SWEL1-066

**Instructions for Completing Checklist**

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

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

*Yes anchorage of equipment in the area appears to be free of potentially adverse seismic conditions.*

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

*Yes anchorage of equipment in the area appears to be free of significant degraded conditions.*

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

*Yes based on a visual inspection from the floor, the cable/conduit raceways and HVAC ducting appears to be free of potentially adverse seismic conditions.*

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

**ATTACHMENT 9.7**

**AREA WALK-BY CHECKLIST**

Sheet 2 of 4

IP3

Status: Y N U

Area Walk-By Checklist (AWC) AWC-005

Location: Bldg. CB Floor El. 33'-0" Room, Area<sup>1</sup> BATTERY ROOM 32

SWEL Components: SWEL1-066

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

*Yes, it appears that the area is free of potentially adverse seismic spatial interactions with other equipment in the area.*

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

*Yes it appears that the area is free of potentially adverse seismic interactions that could cause flooding or spray in the area.*

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

*Yes it appears 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 temporary installations (e.g., scaffolding, lead shielding)? Y N U N/A

*Yes it appears that the area is free of potentially adverse seismic interactions associated with housekeeping practices, storage of portable equipment, and temporary installations.*

ATTACHMENT 9.7

AREA WALK-BY CHECKLIST

Sheet 3 of 4

IP3

Status: Y  N  U

Area Walk-By Checklist (AWC) AWC-005

Location: Bldg. CB Floor El. 33'-0" Room, Area<sup>1</sup> BATTERY ROOM 32

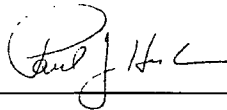
SWEL Components: SWEL1-066

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

*Yes we have looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment in the area.*

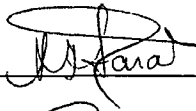
Comments (Additional pages may be added as necessary)

Evaluated by: Paul Huebsch



Date: 10/10/2012

Maggie Farah



10/10/2012

Kai Lo



10/10/2012

ATTACHMENT 9.7

AREA WALK-BY CHECKLIST

Sheet 4 of 4

IP3

Status: Y  N  U

Area Walk-By Checklist (AWC) AWC-005

Location: Bldg. CB Floor El. 33'-0" Room, Area<sup>1</sup> BATTERY ROOM 32

SWEL Components: SWEL1-066

Photographs

<p><b>Note:</b> <i>No photos attached.</i></p>	<p><b>Note:</b></p>

**ATTACHMENT 9.7****AREA WALK-BY CHECKLIST**

Sheet 1 of 4

IP3

Status: Y  N  U **Area Walk-By Checklist (AWC)** AWC-006Location: Bldg. CB Floor El. 33'-0" Room, Area<sup>1</sup> BATTERY ROOM 34**SWEL Components:** SWEL1-068**Instructions for Completing Checklist**

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

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

*Yes, anchorage of equipment in the area appears to be free of potentially adverse seismic conditions.*

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

*Yes, anchorage of equipment in the area appears to be free of significant degraded conditions.*

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

*Yes, based on a visual inspection from the floor, the cable/conduit raceways and HVAC ducting appears to be free of potentially adverse seismic conditions.*

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

**ATTACHMENT 9.7**

**AREA WALK-BY CHECKLIST**

Sheet 2 of 4

IP3

Status: Y  N  U

Area Walk-By Checklist (AWC) AWC-006

Location: Bldg. CB Floor El. 33'-0" Room, Area<sup>1</sup> BATTERY ROOM 34

SWEL Components: SWEL1-068

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

*Yes, it appears that the area is free of potentially adverse seismic spatial interactions with other equipment in the area.*

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

*Yes, it appears that the area is free of potentially adverse seismic interactions that could cause flooding or spray in the area.*

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

*Yes, it appears 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 temporary installations (e.g., scaffolding, lead shielding)? Y  N  U  N/A

*Yes, it appears that the area is free of potentially adverse seismic interactions associated with housekeeping practices, storage of portable equipment, and temporary installations.*



ATTACHMENT 9.7

AREA WALK-BY CHECKLIST

Sheet 3 of 4

IP3

Status: Y  N  U

Area Walk-By Checklist (AWC) AWC-006

Location: Bldg. CB Floor El. 33'-0" Room, Area<sup>1</sup> BATTERY ROOM 34

SWEL Components: SWEL1-068

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

*Yes, we have looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment in the area.*

Comments (Additional pages may be added as necessary)

Evaluated by: Paul Huebsch  Date: 10/10/2012

Maggie Farah  10/10/2012

Kai Lo  10/10/2012

ATTACHMENT 9.7

AREA WALK-BY CHECKLIST

Sheet 4 of 4

IP3

Status: Y  N  U

Area Walk-By Checklist (AWC) AWC-006

Location: Bldg. CB Floor El. 33'-0" Room, Area<sup>1</sup> BATTERY ROOM 34

SWEL Components: SWEL1-068

Photographs

<p><b>Note:</b> <i>No photos attached.</i></p>	<p><b>Note:</b></p>

**ATTACHMENT 9.7**

**AREA WALK-BY CHECKLIST**

Sheet 1 of 4

IP3

Status: Y  N  U

**Area Walk-By Checklist (AWC) AWC-007**

Location: Bldg. CB Floor El. 33'-0" Room, Area<sup>1</sup> CABLE SPREADING ROOM

**SWEL Components: SWEL1-019, 073, 074, 070, 063, 064, 059, 016, 060, 020, 012, 075, 089, 018, 069, 072**

**Instructions for Completing Checklist**

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

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

*Cable tray 34K support against the north wall is missing a Unistrut bolt. The support has 3 bolt holes with only two bolts in place (see attached photos). This is documented in CR-IP3-2012-03281.*

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

*Anchorage appears to be free of degraded conditions.*

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

*Yes based on a visual inspection from the floor, the cable/conduit raceways and HVAC ducting appears to be free of potentially adverse seismic conditions.*

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

**ATTACHMENT 9.7**

**AREA WALK-BY CHECKLIST**

Sheet 2 of 4

IP3

Status: Y  N  U

**Area Walk-By Checklist (AWC) AWC-007**

Location: Bldg. CB Floor El. 33'-0" Room, Area<sup>1</sup> CABLE SPREADING ROOM

**SWEL Components: SWEL1-019, 073, 074, 070, 063, 064, 059, 016, 060, 020, 012, 075, 089, 018, 069, 072**

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

*Observed unrestrained fluorescent bulb in the entire room. During a seismic event, the bulbs may become loose and strike nearby equipment. All fluorescent bulbs need retainers. This is documented in CR-IP3-2012-03123.*

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

*Yes it appears that the area is free of potentially adverse seismic interactions that could cause flooding or spray in the area.*

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

*Yes it appears 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 temporary installations (e.g., scaffolding, lead shielding)? Y  N  U  N/A

*A small cable is running outside of the cable tray and draped over the cable tray supports instead of being run in the cable tray. The location is near the RTA breaker cabinet. This is not judged to be an adverse seismic interaction but is a housekeeping consideration.*

ATTACHMENT 9.7

AREA WALK-BY CHECKLIST

Sheet 3 of 4

IP3

Status: Y  N  U

Area Walk-By Checklist (AWC) AWC-007

Location: Bldg. CB Floor El. 33'-0" Room, Area<sup>1</sup> CABLE SPREADING ROOM

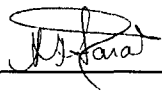
SWEL Components: SWEL1-019, 073, 074, 070, 063, 064, 059, 016, 060, 020, 012, 075, 089, 018, 069, 072

8. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment in the area? Y  N  U   
*There are masonry walls in the south east corner. These walls were considered as part of the IEB 80-11 analysis as walls 53D and 54 and were found to be satisfactory.*

Comments (Additional pages may be added as necessary)

*Walked-down the entire room.*

Evaluated by: Paul Huebsch  Date: 10/10/2012

Maggie Farah  Date: 10/10/2012

Kai Lo  Date: 10/10/2012

ATTACHMENT 9.7

AREA WALK-BY CHECKLIST

Sheet 4 of 4

IP3

Status: Y  N  U

Area Walk-By Checklist (AWC) AWC-007

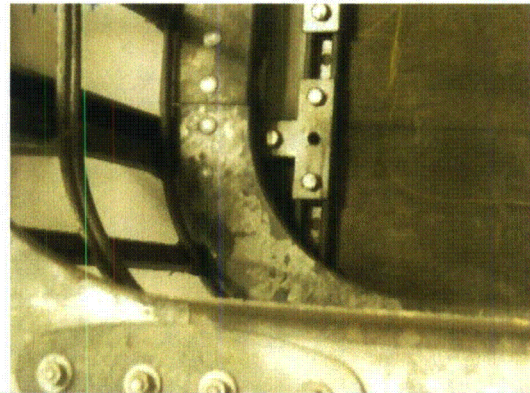
Location: Bldg. CB Floor El. 33'-0" Room, Area<sup>1</sup> CABLE SPREADING ROOM

SWEL Components: SWEL1-019, 073, 074, 070, 063, 064, 059, 016, 060, 020, 012, 075, 089, 018, 069, 072

Photographs



**Note:** Cable tray 34k



**Note:** Missing anchor in center for cable tray 34k

**ATTACHMENT 9.7****AREA WALK-BY CHECKLIST**

Sheet 1 of 3

IP3

Status: Y  N  U **Area Walk-By Checklist (AWC)** AWC-008Location: Bldg. TB Floor El. 15'-0" Room, Area<sup>1</sup> \_\_\_\_\_**SWEL Components:** SWEL1-007**Instructions for Completing Checklist**

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

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

*Panel DS-LP-501 (non-seismic) base plates have four bolt holes but only two bolts in place (see attached photo). This panel support is located approximately 10 feet away from 34MCC, if the structural integrity of the support is compromised during a seismic event, the MCC will not be impacted since the panel is approximately 10' away. Therefore, the anchorage of equipment in the area appears to be free of potentially adverse seismic conditions.*

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

*Yes, the anchorage of equipment in the area appear to be free of significant degraded conditions.*

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

*Firewater and water lines do not appear to be seismically supported. This has been documented in CR-IP3-2012-03656.*

*Conduit and cable trays do not appear to be seismically supported. This has been documented in CR IP3-2012-03656.*

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

*Fluorescent light bulbs are not restrained. This is addressed in CR-IP3-2012-03661.*

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

**ATTACHMENT 9.7**

**AREA WALK-BY CHECKLIST**

Sheet 2 of 3

IP3

Status: Y  N  U

**Area Walk-By Checklist (AWC) AWC-008**

Location: Bldg. TB Floor El. 15'-0" Room, Area<sup>1</sup> \_\_\_\_\_

**SWEL Components: SWEL1-007**

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

*Non-seismically supported water lines are near 34MCC. See question #3 above.*

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

*Yes it appears 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 temporary installations (e.g., scaffolding, lead shielding)? Y  N  U  N/A

*Two unrestrained equipment are stored approximately 15 feet away from 34MCC (see attached photo). This has been documented in CR IP3-2012-03661.*

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

*Yes we have looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment in the area.*

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

Evaluated by: Paul Huebsch  Date: 10/11/2012

Maggie Farah  Date: 10/11/2012

Kai Lo  Date: 10/11/2012



**ATTACHMENT 9.7**

**AREA WALK-BY CHECKLIST**

Sheet 3 of 3

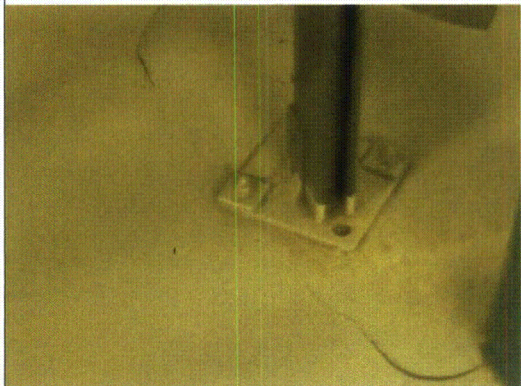
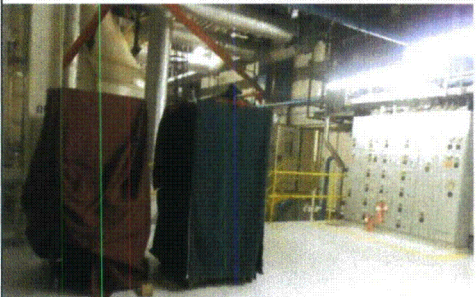
Status: Y  N  U  **IP3**

Area Walk-By Checklist (AWC) AWC-008

Location: Bldg. TB Floor El. 15'-0" Room, Area<sup>1</sup> \_\_\_\_\_

SWEL Components: SWEL1-007

**Photographs**

	
<p><b>Note:</b> <i>Missing two anchors from DS-LP501 Disconnect Switch for LP501</i></p>	<p><b>Note:</b> <i>Unrestrained equipment near 34MCC</i></p>

**ATTACHMENT 9.7** **AREA WALK-BY CHECKLIST**

Sheet 1 of 5

**IP3**  
Status: Y  N  U

**Area Walk-By Checklist (AWC)** AWC-009

Location: Bldg. IS Floor El. 15'-0" Room, Area<sup>1</sup> \_\_\_\_\_

**SWEL Components:** SWEL1-008

**Instructions for Completing Checklist**

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

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

*Control panels TWS#31, #32 and #33 – all nuts on the base plates are heavily corroded with substantial loss of cross section. TWS #34, #35 and #36 are less corroded but also exhibit considerable loss of cross section. CR-IP3-2012-03640 has been written to address this issue.*

*The base plate of Unistrut column supporting conduits has 3 out of 4 anchor bolts missing. The nuts on the opposite base plate are heavily corroded. CR-IP3-2012-03640 has been written to address this issue.*

*SCWP panel base plate has corroded nuts and the panel adjacent to TWS #34 is missing an anchor bolt in its base plate. CR-IP3-2012-03640 has been written to address this issue.*

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

*There is degradation of base plates and anchors on conduit supports and electrical panels as described above.*

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

*Yes, based on a visual inspection from the floor, the cable/conduit raceways and HVAC ducting appears to be free of potentially adverse seismic conditions.*

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

**ATTACHMENT 9.7**

**AREA WALK-BY CHECKLIST**

Sheet 2 of 5

IP3

Status: Y  N  U

Area Walk-By Checklist (AWC) AWC-009

Location: Bldg. IS Floor El. 15'-0" Room, Area<sup>1</sup> \_\_\_\_\_

SWEL Components: SWEL1-008

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

*Yes, it appears that the area is free of potentially adverse seismic spatial interactions with other equipment in the area.*

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

*Yes, it appears that the area is free of potentially adverse seismic interactions that could cause flooding or spray in the area.*

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

*Yes, it appears 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 temporary installations (e.g., scaffolding, lead shielding)? Y  N  U  N/A

*The Common Alarm Panel adjacent to the cabinet has padlocks hanging loose on Unistruts.*

*Notebooks and ear protection box are sitting loose on an adjacent panel. This is not a seismic adverse condition, it is a housekeeping issue.*

*The above items are addressed in CR-IP3-2012-03640*

ATTACHMENT 9.7

AREA WALK-BY CHECKLIST

Sheet 3 of 5

IP3

Status: Y  N  U

Area Walk-By Checklist (AWC) AWC-009

Location: Bldg. IS Floor El. 15'-0" Room, Area<sup>1</sup> \_\_\_\_\_


SWEL Components: SWEL1-008

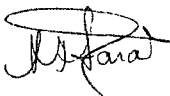
8. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment in the area? Y  N  U


*Yes, we have looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment in the area.*

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

*This was not part of the area walkby (i.e. within 35 ft of SWEL1-008); however, it is necessary to note this condition. Leaking pipe near Screen Wash around column line 18 that was covered with a plastic to prevent water from spreading. This is documented in CR-IP3-2012-03640.*

Evaluated by: Paul Huebsch  Date: 10/11/2012

Maggie Farah  Date: 10/11/2012

Kai Lo  Date: 10/11/2012

ATTACHMENT 9.7

AREA WALK-BY CHECKLIST

Sheet 4 of 5

IP3



Status: Y  N  U

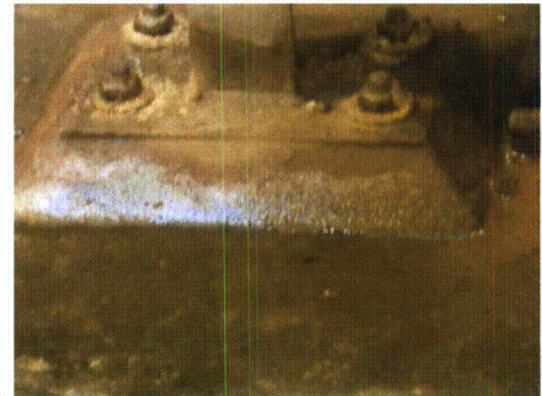

Area Walk-By Checklist (AWC) AWC-009

Location: Bldg. IS Floor El. 15'-0" Room, Area<sup>1</sup> \_\_\_\_\_

SWEL Components: SWEL1-008

Photographs

	
<p><b>Note:</b> Control Panel TWS #31</p>	<p><b>Note:</b> Control Panel TWS #32</p>

	
<p><b>Note:</b> Control Panel TWS #31</p>	<p><b>Note:</b> Missing three anchor bolts</p>

ATTACHMENT 9.7

AREA WALK-BY CHECKLIST

Sheet 5 of 5

IP3


Status: Y  N  U

Area Walk-By Checklist (AWC) AWC-009

Location: Bldg. IS Floor El. 15'-0" Room, Area<sup>1</sup> \_\_\_\_\_

SWEL Components: SWEL1-008

Photographs

	
<p><b>Note:</b> Leaking pipe near Screen Wash around column line 18</p>	<p><b>Note:</b></p>

**ATTACHMENT 9.7**

**AREA WALK-BY CHECKLIST**

Sheet 1 of 7

IP3

Status: Y  N  U

Area Walk-By Checklist (AWC) AWC-010

Location: Bldg. IS Floor El. 15'-0" Room, Area<sup>1</sup> \_\_\_\_\_

SWEL Components: SWEL1-030, 031

**Instructions for Completing Checklist**

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

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

*Panel (PID 08219) adjacent to the door: Unistrut legs corroded and broken at the base (see attach photos). The toe plate at the floor penetration between the Unistrut legs is loose and is not protecting the opening (see attach photo).*

*Service Water Pumps Annubars has rotted out at the base. The panel lacks of lateral restraints and is free to displace laterally.*

*Piping grout penetration protection was found cracked and chipped at various locations allowing water seepage (see photos).*

*Outer section of the grout, external o the base plate, for SWP 34 is cracked and missing. This does not affect the integrity of the support of the pump.*

*The above conditions are addressed by CR-IP3-2012-03166.*

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

*See above.*

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

**ATTACHMENT 9.7**

**AREA WALK-BY CHECKLIST**

Sheet 2 of 7

IP3

Status: Y  N  U

**Area Walk-By Checklist (AWC) AWC-010**

Location: Bldg. IS Floor El. 15'-0" Room, Area<sup>1</sup> \_\_\_\_\_

**SWEL Components: SWEL1-030, 031**

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

*Floor grating behind the electrical panels is not fixed to the structural steel and could displace laterally. In addition, this grating also serves as a support for conduits at the level below. Displacement of the grating would affect the support for the conduits. This condition is addressed by CR-IP3-2012-03166.*

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

*Yes, it appears that the area is free of potentially adverse seismic spatial interactions with other equipment in the area.*

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

*Yes, it appears that the area is free of potentially adverse seismic interactions that could cause flooding or spray in the area.*

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

*Yes, it appears 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 temporary installations (e.g., scaffolding, lead shielding)? Y  N  U  N/A

*Observed a phone and a tool box resting on the web of a beam wall. The phone and the tool box are restrained by the two beam flanges. This is judged acceptable.*

*Observed a loose scaffold pole (on the floor) beneath a wall beam. During a seismic event the pole may act as a missile and strike nearby equipment. This is addressed by CR-IP3-2012-03166.*



ATTACHMENT 9.7

AREA WALK-BY CHECKLIST

Sheet 3 of 7

IP3

Status: Y  N  U

Area Walk-By Checklist (AWC) AWC-010

Location: Bldg. IS Floor El. 15'-0" Room, Area<sup>1</sup> \_\_\_\_\_


SWEL Components: SWEL1-030, 031

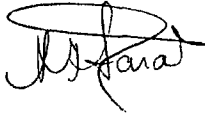
- 8. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment in the area? Y  N  U


*Ceiling of the area consists of grating which, if not attached to the support steel could fall and impact the equipment. It was determined that the grating is adequately supported and would not be displaced by a seismic event.*

*Electric Heat Trace Cabinet 31 has abraded cables at the top of the cabinet. The back of the cabinet is mildly corroded at the back/bottom. A box of bulbs is loose on the inside of the cabinet. An unsecured tag is on a shelf in the cabinet. A brown spot on the back of the cabinet may be the result of a burning effect due to high temperature. Electrical needs to investigate. The cabinet is addressed by CR-IP3-2012-03166.*

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

Evaluated by: Paul Huebsch  Date: 10/12/2012

Maggie Farah  10/12/2012

Kai Lo  10/12/2012

ATTACHMENT 9.7

AREA WALK-BY CHECKLIST

Sheet 4 of 7

IP3

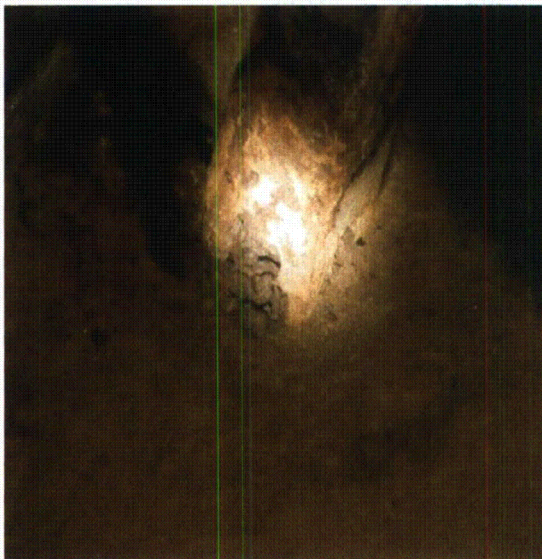
Status: Y  N  U

Area Walk-By Checklist (AWC) AWC-010

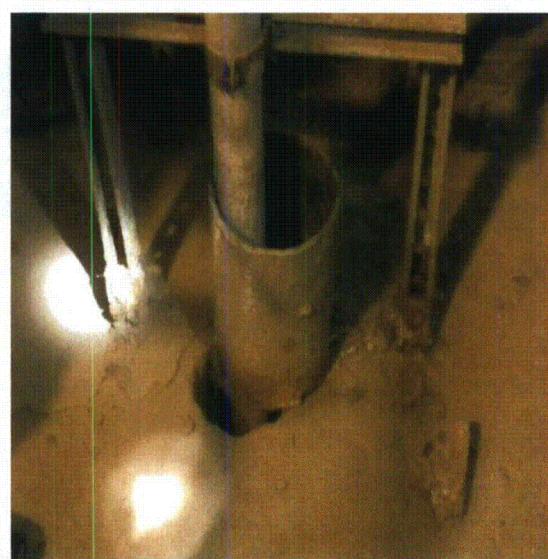
Location: Bldg. IS Floor El. 15'-0" Room, Area<sup>1</sup> \_\_\_\_\_

SWEL Components: SWEL1-030, 031

Photographs



**Note:** Corroded and broken Unistrut near door.



**Note:** Corroded and broken Unistrut near door and a loose pipe protection cover between the Unistrut legs

ATTACHMENT 9.7

AREA WALK-BY CHECKLIST

Sheet 5 of 7

IP3

Status: Y  N  U

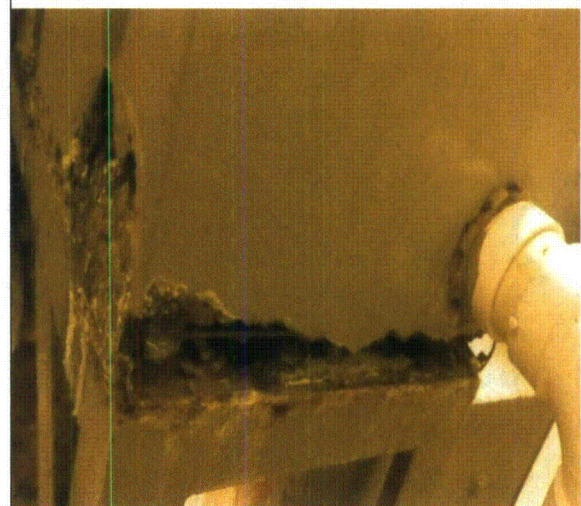
Area Walk-By Checklist (AWC) AWC-010

Location: Bldg. IS Floor El. 15'-0" Room, Area<sup>1</sup> \_\_\_\_\_

SWEL Components: SWEL1-030, 031



**Note:** Service Water Pumps Annubars rotted at the base.



**Note:** Service Water Pumps Annubars rotted at the base.

ATTACHMENT 9.7

AREA WALK-BY CHECKLIST

Sheet 6 of 7

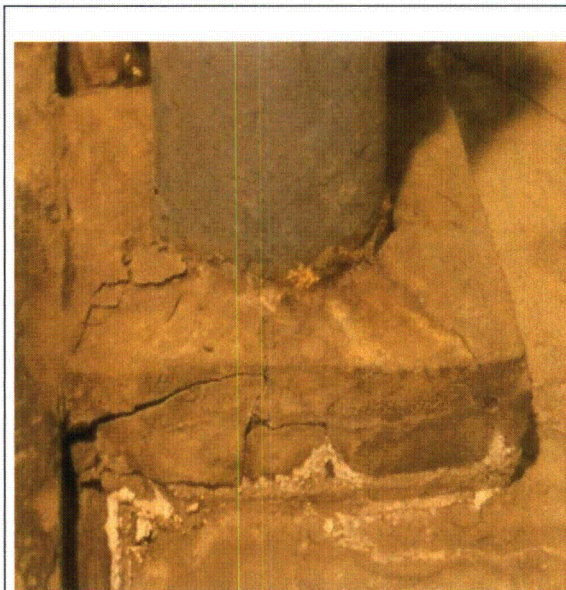
IP3

Status: Y  N  U

Area Walk-By Checklist (AWC) AWC-010

Location: Bldg. IS Floor El. 15'-0" Room, Area<sup>1</sup> \_\_\_\_\_

SWEL Components: SWEL1-030, 031



**Note:** Cracked grout penetration protection



**Note:** Cracked grout penetration protection

ATTACHMENT 9.7

AREA WALK-BY CHECKLIST

Sheet 7 of 7

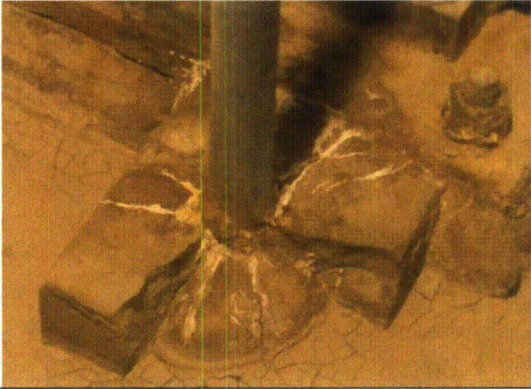
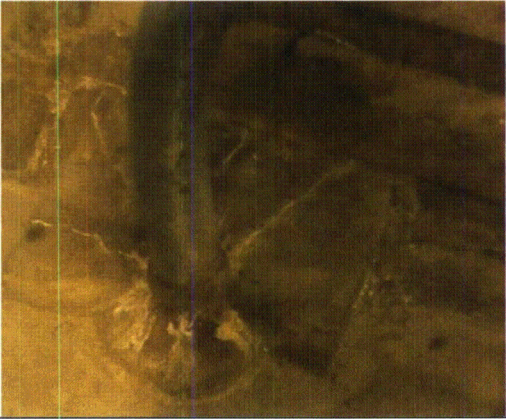
IP3

Status: Y  N  U

Area Walk-By Checklist (AWC) AWC-010

Location: Bldg. IS Floor El. 15'-0" Room, Area<sup>1</sup> \_\_\_\_\_

SWEL Components: SWEL1-030, 031

	
<p><b>Note:</b> Cracked and chipped grout penetration protection</p>	<p><b>Note:</b> Cracked and chipped grout penetration protection</p>

**ATTACHMENT 9.7**

**AREA WALK-BY CHECKLIST**

Sheet 1 of 5

IP3

Status: Y N U

Area Walk-By Checklist (AWC) AWC-011

Location: Bldg. YD Floor El. 80'-0" Room, Area<sup>1</sup> \_\_\_\_\_

SWEL Components: SWEL1-094

**Instructions for Completing Checklist**

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

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

*Yes, anchorage of equipment in the area appears to be free of potentially adverse seismic conditions.*

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

*Observed mild rusting on anchorage for conduit around RWST-31. This is insignificant and judged to be acceptable.*

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

*Since the refuel water storage tank is in the yard. The above question does not apply.*

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

*Yes, it appears that the area is free of potentially adverse seismic spatial interactions with other equipment in the area.*

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

**ATTACHMENT 9.7** **AREA WALK-BY CHECKLIST**

Sheet 2 of 5

IP3  
Status: Y  N  U

**Area Walk-By Checklist (AWC)** AWC-011

Location: Bldg. YD Floor El. 80'-0" Room, Area<sup>1</sup> \_\_\_\_\_

**SWEL Components:** SWEL1-094

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

*Yes, it appears that the area is free of potentially adverse seismic interactions that could cause flooding or spray in the area.*

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

*Yes, it appears 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 temporary installations (e.g., scaffolding, lead shielding)? Y  N  U  N/A

*Observed a loose chain and a Unistrut on top of the RWST-31 foundation (see attached photos).*

*Observed a rock resting on the RWST-31 stiffener ring (see attached photo).*

*Multiple piping insulation connections have been dislodged and held together by tape (see attached photos).*

*The above is addressed by CR-IP3-2012-03213.*

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

*Yes, we have looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment in the area.*

ATTACHMENT 9.7

AREA WALK-BY CHECKLIST

Sheet 3 of 5

IP3

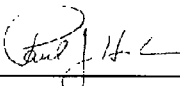
Status: Y  N  U

Area Walk-By Checklist (AWC) AWC-011

Location: Bldg. YD Floor El. 80'-0" Room, Area<sup>1</sup> \_\_\_\_\_

SWEL Components: SWEL1-094

Comments (Additional pages may be added as necessary)

Evaluated by: Paul Huebsch  Date: 10/12/2012

Maggie Farah  Date: 10/12/2012

Kai Lo  Date: 10/12/2012



ATTACHMENT 9.7

AREA WALK-BY CHECKLIST

Sheet 4 of 5

IP3

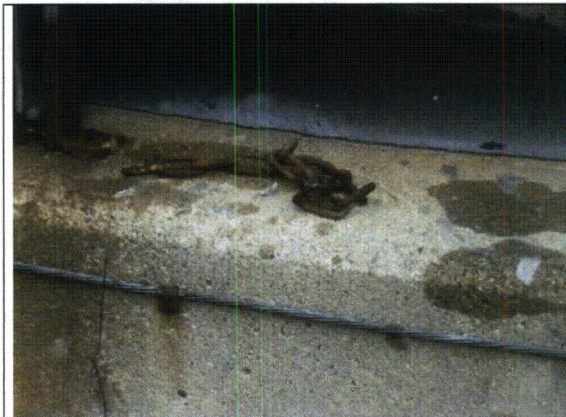
Status: Y  N  U

Area Walk-By Checklist (AWC) AWC-011

Location: Bldg. YD Floor El. 80'-0" Room, Area<sup>1</sup> \_\_\_\_\_

SWEL Components: SWEL1-094

Photographs



**Note:** Loose chain on top of RWST-31 foundation.



**Note:** Loose Unistrut on top of RWST-31 foundation.



**Note:** Rock resting on the tank ring.



**Note:** Piping insulation connection held with tape.

ATTACHMENT 9.7

AREA WALK-BY CHECKLIST

Sheet 5 of 5


IP3

Status: Y  N  U

Area Walk-By Checklist (AWC) AWC-011

Location: Bldg. YD Floor El. 80'-0" Room, Area<sup>1</sup> \_\_\_\_\_

SWEL Components: SWEL1-094

	
<p><b>Note:</b> <i>Piping insulation connection held with tape.</i></p>	<p><b>Note:</b></p>

**ATTACHMENT 9.7****AREA WALK-BY CHECKLIST**

Sheet 1 of 5

IP3

Status: Y  N  U **Area Walk-By Checklist (AWC) AWC-012**Location: Bldg. AFB Floor El. 18'-6" Room, Area<sup>1</sup> \_\_\_\_\_**SWEL Components: SWEL1-040, 022, 023, 086, 005, 081****Instructions for Completing Checklist**

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

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

*Yes, anchorage of equipment in the area appears to be free of potentially adverse seismic conditions.*

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

*Yes, anchorage of equipment in the area appears to be free of significant degraded conditions.*

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

*A pipe support immediately adjacent to Appendix R cabinet ERB-47-ABFP that is attached to the ceiling has a base plate with six holes but only four bolts are installed (see attached photo). CR-IP3-2012-03580 was written to evaluate this condition.*

*LB-17 evaluates this 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)? Y  N  U  N/A

*Fluorescent bulb adjacent to 32 ABFP needs to be secured to light fixture. During a seismic event the bulb may become loose and strike nearby equipment. This is documented in CR-IP3-2012-03462.*

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

**ATTACHMENT 9.7**

**AREA WALK-BY CHECKLIST**

Sheet 2 of 5

IP3

Status: Y  N  U

**Area Walk-By Checklist (AWC) AWC-012**

Location: Bldg. AFB Floor El. 18'-6" Room, Area<sup>1</sup> \_\_\_\_\_

**SWEL Components: SWEL1-040, 022, 023, 086, 005, 081**

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

*Branch risers from the main fire water line are threaded pipe and pass in close proximity (estimate 1" +/-) to large conduit. The conduit is well supported and the fire water line would have to move axially to cause an impact. The vertical rise of the pipe is very short so it is judged that the impact will not occur. See photos.*

*The sprinkler heads are at one location also in close proximity (estimate less than one inch) of adjacent conduit and could interact with the adjacent conduit in a seismic event. See photo.*

*LB-18 was generated to evaluate this condition.*

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

*The area is free of potentially adverse seismic interactions which could cause a fire in the area.*

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

*Scaffolding is in the area. However the green tag indicates that evaluation by Engineering has been performed.*

*The work area has a bucket on the floor which is not restrained and a tool box which is not secured. This is documented in CR-IP3-2012-03462.*

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

*Yes, we have looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment in the area.*

ATTACHMENT 9.7

AREA WALK-BY CHECKLIST

Sheet 3 of 5

IP3

Status: Y  N  U

Area Walk-By Checklist (AWC) AWC-012

Location: Bldg. AFB Floor El. 18'-6" Room, Area<sup>1</sup> \_\_\_\_\_

SWEL Components: SWEL1-040, 022, 023, 086, 005, 081

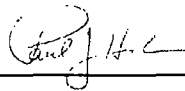
Comments (Additional pages may be added as necessary)

References:

LB-17

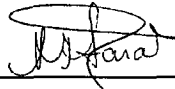
LB-18

Evaluated by: Paul Huebsch



Date: 10/12/2012

Maggie Farah



10/12/2012

ATTACHMENT 9.7

AREA WALK-BY CHECKLIST

Sheet 4 of 5

IP3

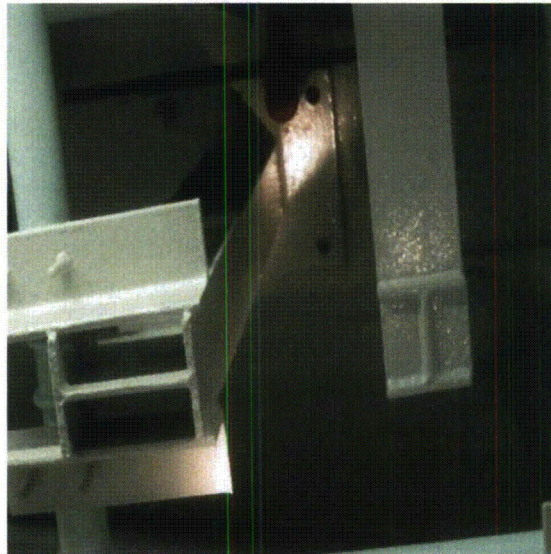
Status: Y  N  U

Area Walk-By Checklist (AWC) AWC-012

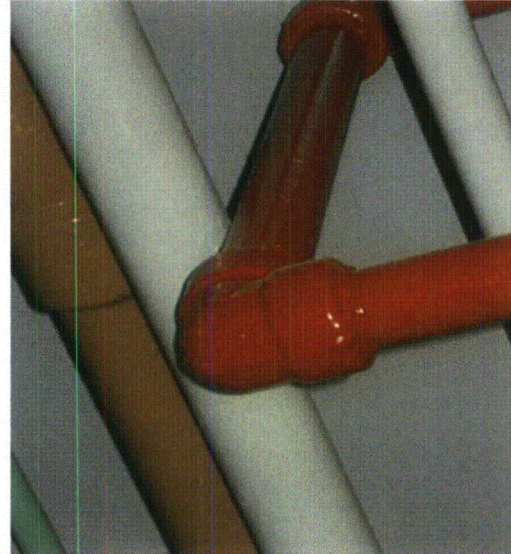
Location: Bldg. AFB Floor El. 18'-6" Room, Area<sup>1</sup> \_\_\_\_\_

SWEL Components: SWEL1-040, 022, 023, 086, 005, 081

Photographs



**Note:** Pipe support with only 4 bolts installed and 2 empty bolt holes.



**Note:** Fire water line in close proximity to a conduit.

ATTACHMENT 9.7

AREA WALK-BY CHECKLIST

Sheet 5 of 5

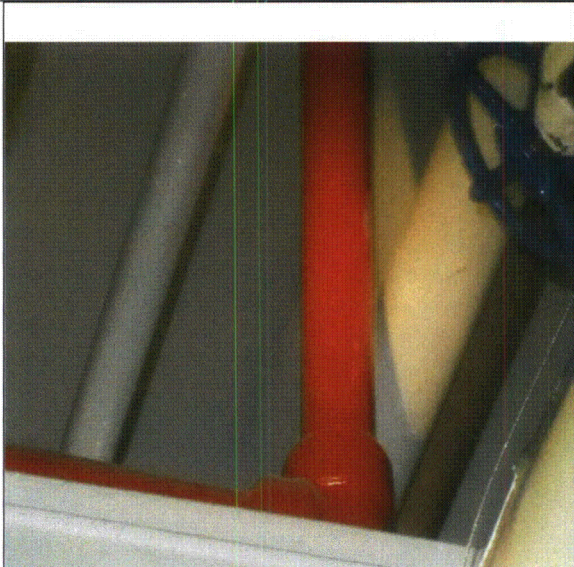
IP3

Status: Y  N  U

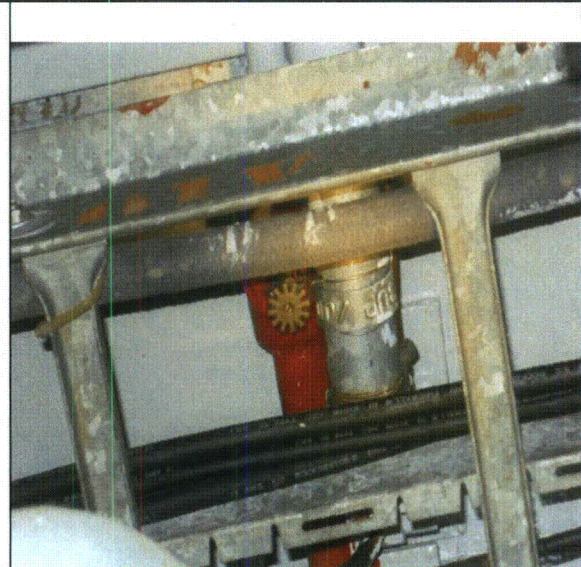
Area Walk-By Checklist (AWC) AWC-012

Location: Bldg. AFB Floor El. 18'-6" Room, Area<sup>1</sup> \_\_\_\_\_

SWEL Components: SWEL1-040, 022, 023, 086, 005, 081



**Note:** Fire water line in close proximity to a conduit.



**Note:** Sprinkler head in close proximity to adjacent conduit.

**ATTACHMENT 9.7****AREA WALK-BY CHECKLIST**

Sheet 1 of 8

IP3

Status: Y  N  U **Area Walk-By Checklist (AWC) AWC-013**Location: Bldg. AFB Floor El. 32'-6" Room, Area<sup>1</sup> \_\_\_\_\_**SWEL Components: SWEL1-048, 035****Instructions for Completing Checklist**

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

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

*Grout at 38 Chemical Feed Pump is chipped off exposing one anchor bolt under the base plate. OK by judgment but should be repaired. CR-IP3-2012-03627 is written to address this problem.*

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

*Yes, equipment anchorages are free of significant degraded conditions.*

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

*The 1" chemical feed piping around Door 218 has 18 feet of unsupported span length. See attached photo. CR IP3-2012-03627 was written to address this condition. The pipe is a non-safety related pipe. If the pipe were to collapse, it would hang at the top of the monorail. The pipe is on top of a door and there is no equipment near the door.*

*Chemical feed line pipe insulation at CF-44-2 is in contact with the support frame and heater. This is not considered a problem since the insulation around the pipe has a substantially greater diameter than the encased pipe and the insulation would be expected to flex and relieve any force that would be exerted on the pipe.*

*Insulation at CF-133 and Cf-44-4 is missing.*

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



Status: Y  N  U

Area Walk-By Checklist (AWC) AWC-013

Location: Bldg. AFB Floor El. 32'-6" Room, Area<sup>1</sup> \_\_\_\_\_

SWEL Components: SWEL1-048, 035

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

*Yes, the area is free of potentially adverse seismic spatial interactions with other equipment in the area.*

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

*Yes, the area is free of potentially adverse seismic interactions that could cause flooding or spray in the area.*

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

*Yes, 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 temporary installations (e.g., scaffolding, lead shielding)? Y  N  U  N/A

*Yes, the area is free of potentially adverse seismic interactions associated with housekeeping practices.*

*A pair of used gloves was found next to the 33 Chemical Feed Tank. See photo.*

*Unsecured stool found stored next to nitrogen tank. Not judged a serious concern because of the light weight of the stool but should be addressed as a matter of good seismic housekeeping. CR IP3-2012-03627 was written to address this condition.*

*Fluorescent bulbs in the area need to be restrained.*

ATTACHMENT 9.7

AREA WALK-BY CHECKLIST

Sheet 3 of 8

IP3

Status: Y  N  U

Area Walk-By Checklist (AWC) AWC-013

Location: Bldg. AFB Floor El. 32'-6" Room, Area<sup>1</sup> \_\_\_\_\_

SWEL Components: SWEL1-048, 035

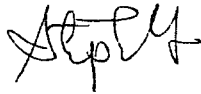
8. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment in the area? Y  N  U

*Yes, we have looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment in the area.*

Comments (Additional pages may be added as necessary)

Evaluated  
by:

Stephen Yuan



Date: 10/16/2012

Paul Huebsch



10/16/2012

ATTACHMENT 9.7

AREA WALK-BY CHECKLIST

Sheet 4 of 8

IP3

Status: Y  N  U

Area Walk-By Checklist (AWC) AWC-013

Location: Bldg. AFB Floor El. 32'-6" Room, Area<sup>1</sup> \_\_\_\_\_

SWEL Components: SWEL1-048, 035

Photographs

 <p>A photograph showing industrial machinery, likely a centrifuge or similar component. A label is attached to the equipment that reads "CF-133" and "CENTRIFUGAL FEED TO THE SWEL". The equipment is metallic and cylindrical.</p>	 <p>A photograph of a floor area. A large, vertical, cylindrical metal component is visible. The floor is covered with a layer of light-colored, fibrous material, likely insulation or debris. A pair of gloves is lying on the floor.</p>
<p><b>Note:</b> Missing insulation</p>	<p><b>Note:</b> Used gloves on floor.</p>

ATTACHMENT 9.7

AREA WALK-BY CHECKLIST

Sheet 5 of 8

IP3

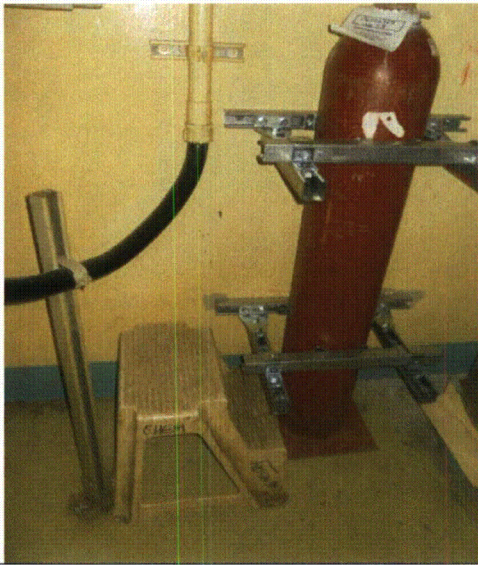
Status: Y  N  U

Area Walk-By Checklist (AWC) AWC-013

Location: Bldg. AFB Floor El. 32'-6" Room, Area<sup>1</sup> \_\_\_\_\_

SWEL Components: SWEL1-048, 035

Photographs



**Note:** Unsecured stool next to nitrogen tank.



**Note:** Missing grout at anchor bolt at 38 Chemical Feed Pump

ATTACHMENT 9.7

AREA WALK-BY CHECKLIST

Sheet 6 of 8

IP3

Status: Y  N  U

Area Walk-By Checklist (AWC) AWC-013

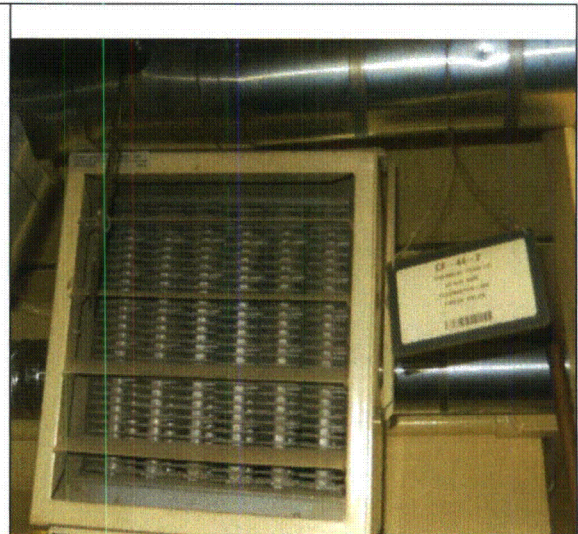
Location: Bldg. AFB Floor El. 32'-6" Room, Area<sup>1</sup> \_\_\_\_\_

SWEL Components: SWEL1-048, 035

Photographs



**Note:** Pipe insulation interference with heater.



**Note:** Pipe insulation with heater.

ATTACHMENT 9.7

AREA WALK-BY CHECKLIST

Sheet 7 of 8

IP3

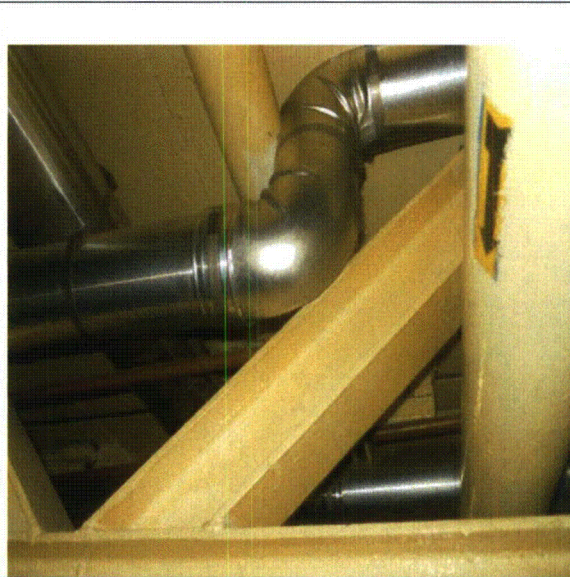
Status: Y  N  U

Area Walk-By Checklist (AWC) AWC-013

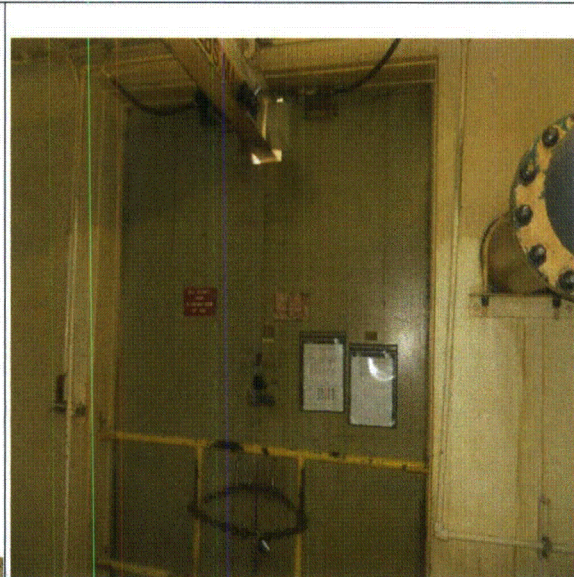
Location: Bldg. AFB Floor El. 32'-6" Room, Area<sup>1</sup> \_\_\_\_\_

SWEL Components: SWEL1-048, 035

Photographs



**Note:** Pipe insulation interference with structural steel.



**Note:** Air line at Door 218

ATTACHMENT 9.7

AREA WALK-BY CHECKLIST

Sheet 8 of 8

IP3


Status: Y  N  U

Area Walk-By Checklist (AWC) AWC-013

Location: Bldg. AFB Floor El. 32'-6" Room, Area<sup>1</sup> \_\_\_\_\_

SWEL Components: SWEL1-048, 035

Photograph

 A photograph showing a close-up of a valve assembly. The valve handle is on the left, and a rectangular label is attached to the valve body. The label contains some text and a barcode. The valve is mounted on a wall, and there is a noticeable gap or missing insulation around the valve body.	
<p><b>Note:</b> <i>Missing insulation at valve.</i></p>	<p><b>Note:</b></p>

**ATTACHMENT 9.7** **AREA WALK-BY CHECKLIST**

Sheet 1 of 5

IP3  
Status: Y  N  U

**Area Walk-By Checklist (AWC)** AWC-014

Location: Bldg. AFB Floor El. 43'-0" Room, Area<sup>1</sup> \_\_\_\_\_

**SWEL Components:** SWEL1-034, 091

**Instructions for Completing Checklist**

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

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

*Yes, anchorage of equipment in the area appears to be free of potentially adverse seismic conditions.*

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

*Yes, anchorage of equipment in the area appears to be free of significant degraded conditions.*

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

*The horizontal Unistrut support next to column H8/19.5 missing a U-bolt connection to the vertical run of conduit. This condition is addressed by CR-IP3-2012-03547. The conduit span is estimated to be 16 feet between the floor and the upper support.*

*LB-09 evaluates this condition.*

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



**ATTACHMENT 9.7**

**AREA WALK-BY CHECKLIST**

Sheet 2 of 5

IP3

Status: Y  N  U

**Area Walk-By Checklist (AWC) AWC-014**

Location: Bldg. AFB Floor El. 43'-0" Room, Area<sup>1</sup> \_\_\_\_\_

**SWEL Components: SWEL1-034, 091**

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

*All fluorescent light bulbs in the area need to be secured to the light fixture. This is addressed by CR-IP3-2012-03462.*

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

*Yes, the area is free of potentially adverse seismic interactions that could cause flooding or spray in the area.*

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

*Yes, 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 temporary installations (e.g., scaffolding, lead shielding)? Y  N  U  N/A

*Caps from nitrogen tanks are on the floor adjacent to and unsecured. See photo. By engineering judgement, this is not considered an critical seismic issue since seismic induced displacement will not result in the caps impacting critical components. CR-IP3-2012-03457 was issued to remedy this situation.*

ATTACHMENT 9.7

AREA WALK-BY CHECKLIST

Sheet 3 of 5

IP3

Status: Y  N  U

Area Walk-By Checklist (AWC) AWC-014

Location: Bldg. AFB Floor El. 43'-0" Room, Area<sup>1</sup> \_\_\_\_\_

SWEL Components: SWEL1-034, 091

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

*Yes, we have looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment in the area.*

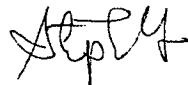
**Comments** (Additional pages may be added as necessary)

Evaluated by: Paul Huebsch



Date: 10/16/12

Stephen Yuan



10/16/12

ATTACHMENT 9.7

AREA WALK-BY CHECKLIST

Sheet 4 of 5

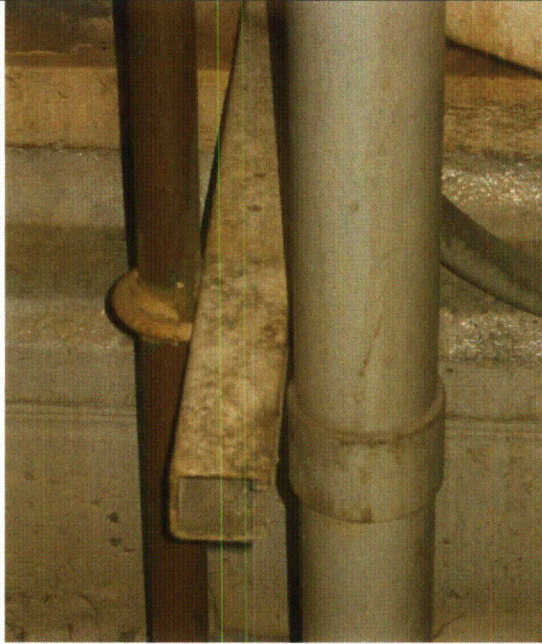
IP3

Status: Y  N  U

Area Walk-By Checklist (AWC) AWC-014

Location: Bldg. AFB Floor El. 43'-0" Room, Area<sup>1</sup> \_\_\_\_\_

SWEL Components: SWEL1-034, 091



**Note:** The connection of the conduit riser next to column H8/19.5 is missing the U-bolt attachment to the Unistrut.



**Note:** View of the unsupported length of conduit shown in previous picture.

ATTACHMENT 9.7

AREA WALK-BY CHECKLIST

Sheet 5 of 5

IP3

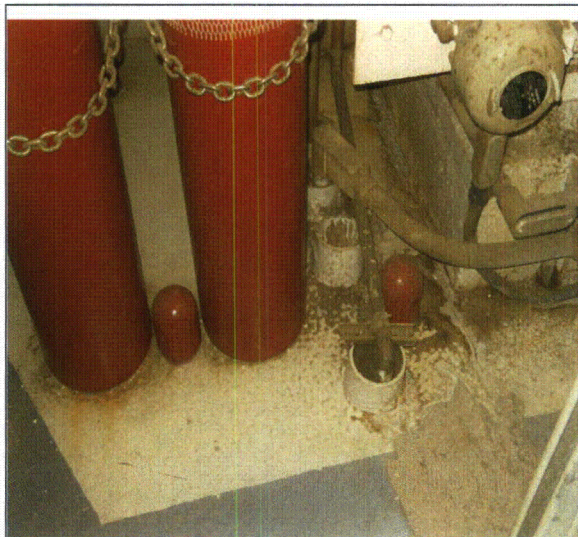
Status: Y  N  U

Area Walk-By Checklist (AWC) AWC-014

Location: Bldg. AFB Floor El. 43'-0" Room, Area<sup>1</sup> \_\_\_\_\_

SWEL Components: SWEL1-034, 091

Photographs



**Note:** Nitrogen bottles with unsecured caps.



**Note:**

**ATTACHMENT 9.7****AREA WALK-BY CHECKLIST**

Sheet 1 of 5

IP3

Status: Y  N  U Area Walk-By Checklist (AWC) AWC-015Location: Bldg. CB Floor El. 53'-0" Room, Area<sup>1</sup> CONTROL ROOMSWEL Components: SWEL1-061, 062**Instructions for Completing Checklist**

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

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

*Yes, anchorage of equipment was observed to be acceptable.*

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

*Yes, anchorage of equipment was observed to be free of degraded condition.*

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

*Yes, all cables and conduits are well supported and free of 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)? Y  N  U  N/A

*Ceiling tiles are tied together and observed to be well secured. Therefore, the area is free of potentially adverse seismic spatial interactions with other equipment in the area.*

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

**ATTACHMENT 9.7****AREA WALK-BY CHECKLIST**

Sheet 2 of 5

IP3

Status: Y N U**Area Walk-By Checklist (AWC) AWC-015**Location: Bldg. CB Floor El. 53'-0" Room, Area<sup>1</sup> CONTROL ROOM**SWEL Components: SWEL1-061, 062**

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

*Yes, it appears that the area is free of potentially adverse seismic interactions that could cause flooding or spray in the area.*

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

*Yes, it appears 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 temporary installations (e.g., scaffolding, lead shielding)? Y N U N/A

*During a seismic event, the following observations have potential to act as a missile and strike nearby sensitive equipment: (see attached photos)*

- *Rack adjacent to Instrument Bus 31 has an unrestrained laptop and printer (also documented in IP3 SWEL 1-061).*
- *Boxes against the west wall on the floor.*
- *A box resting on top of a cabinet at the northwest corner of the room.*
- *Three unrestrained binders on top of Hydrogen Recombiner No. 31 Control Panel.*
- *Unrestrained phones, printers and monitors at the work stations.*
- *Unsecured speaker on top of 34 Control Room Supplemental Cooler along the south wall.*

*All the above are documented in CR-IP3-2012-03398.*

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

*Observed a cart with 4 wheels by panel C-10. The cart is well secured to the floor with a large C-clamp. This is judged to be acceptable and it is not a seismic condition that could adversely affect the safety functions of equipment in the area.*

ATTACHMENT 9.7

AREA WALK-BY CHECKLIST

Sheet 3 of 5

IP3

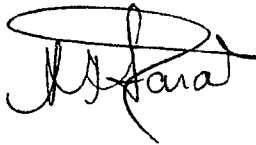
Status: Y  N  U

Area Walk-By Checklist (AWC) AWC-015

Location: Bldg. CB Floor El. 53'-0" Room, Area<sup>1</sup> CONTROL ROOM

SWEL Components: SWEL1-061, 062

Comments (Additional pages may be added as necessary)



Evaluated by: Maggie Farah

Date: 10/16/2012

Kai Lo



10/16/2012

ATTACHMENT 9.7

AREA WALK-BY CHECKLIST

Sheet 4 of 5

IP3

Status: Y  N  U

Area Walk-By Checklist (AWC) AWC-015

Location: Bldg. CB Floor El. 53'-0" Room, Area<sup>1</sup> CONTROL ROOM

SWEL Components: SWEL1-061, 062

Photographs



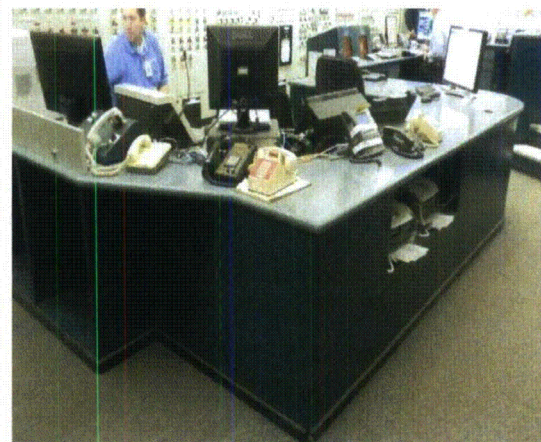
**Note:** Rack adjacent to Instrument Bus 31 has an unrestrained laptop and printer



**Note:** Boxes against the west wall on the floor and a box resting on top of a cabinet at the northwest corner of the room



**Note:** unrestrained binders on top of Hydrogen Recombiner No. 31 Control Panel



**Note:** Unrestrained phones, printers and monitors at work stations



ATTACHMENT 9.7

AREA WALK-BY CHECKLIST

Sheet 5 of 5

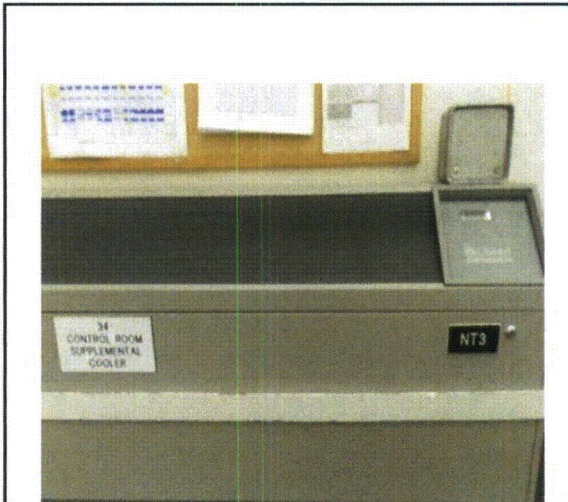
IP3

Status: Y  N  U

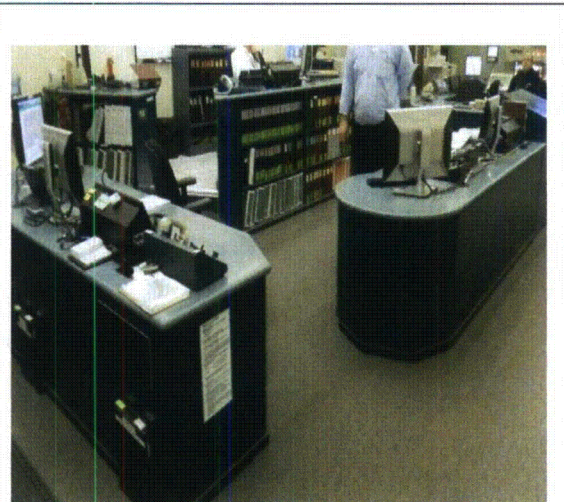
Area Walk-By Checklist (AWC) AWC-015

Location: Bldg. CB Floor El. 53'-0" Room, Area<sup>1</sup> CONTROL ROOM

SWEL Components: SWEL1-061, 062



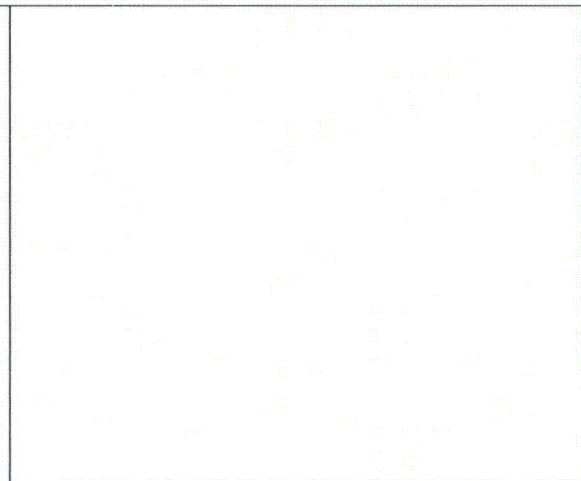
**Note:** Unrestrained speaker on top of 34 Control Room Supplemental Cooler along the south wall



**Note:** Unrestrained phones, printers and monitors at work stations



**Note:** well restrained cart by C-10.



**Note:** no photo attached.

**ATTACHMENT 9.7**

**AREA WALK-BY CHECKLIST**

Sheet 1 of 4

IP3

Status: Y  N  U

**Area Walk-By Checklist (AWC) AWC-016**

Location: Bldg. AFB Floor El. 61'-0" Room, Area<sup>1</sup> \_\_\_\_\_

**SWEL Components: SWEL1-004**

**Instructions for Completing Checklist**

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

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

*Yes, anchorage of equipment in the area appears to be free of potentially adverse seismic conditions.*

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

*Yes, anchorage of equipment in the area appears to be free of significant degraded conditions.*

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

*Yes, the cable/conduit raceways and HVAC ducting appear to be free of potentially adverse seismic conditions.*

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

**ATTACHMENT 9.7**

**AREA WALK-BY CHECKLIST**

Sheet 2 of 4

IP3

Status: Y N U

**Area Walk-By Checklist (AWC) AWC-016**

Location: Bldg. AFB Floor El. 61'-0" Room, Area<sup>1</sup> \_\_\_\_\_

**SWEL Components: SWEL1-004**

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

*Some sections of grating are not attached to the steel beam below. CR-IP3-2012-03473 was issued to remedy this situation.*

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

*Yes, the area is free of potentially adverse seismic interactions that could cause flooding or spray in the area.*

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

*Yes, 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 temporary installations (e.g., scaffolding, lead shielding)? Y N U N/A

*All fluorescent light bulbs in the area need to be secured to the light fixture. This is addressed by CR-IP3-2012-03462*

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

*No other seismic conditions that could adversely affect the safety functions of the equipment in the area.*

ATTACHMENT 9.7

AREA WALK-BY CHECKLIST

Sheet 3 of 4

IP3

Status: Y  N  U

Area Walk-By Checklist (AWC) AWC-016

Location: Bldg. AFB Floor El. 61'-0" Room, Area<sup>1</sup> \_\_\_\_\_

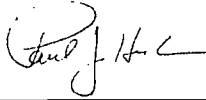
SWEL Components: SWEL1-004

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

*Few florescent bulbs near south end of the platform are out and need to be replaced. This is addressed by CR-IP3-2012-03462*

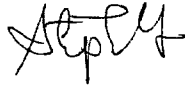
*The paint of west wall is peeling off. Needs new paint.*

Evaluated by: Paul Huebsch



Date: 10/17/12

Stephen Yuan



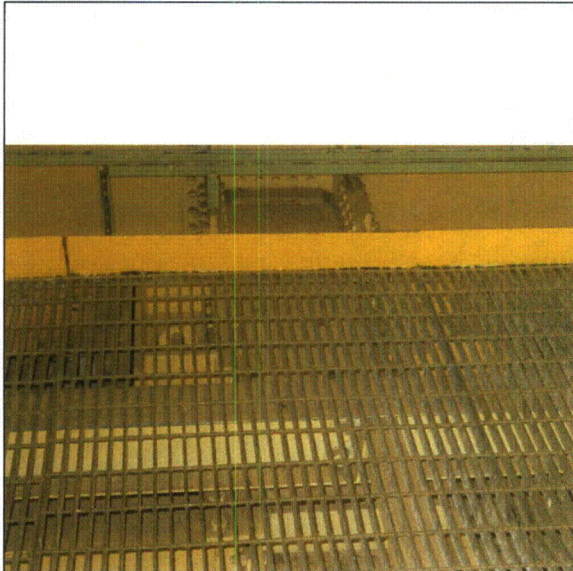
10/17/12

**ATTACHMENT 9.7**

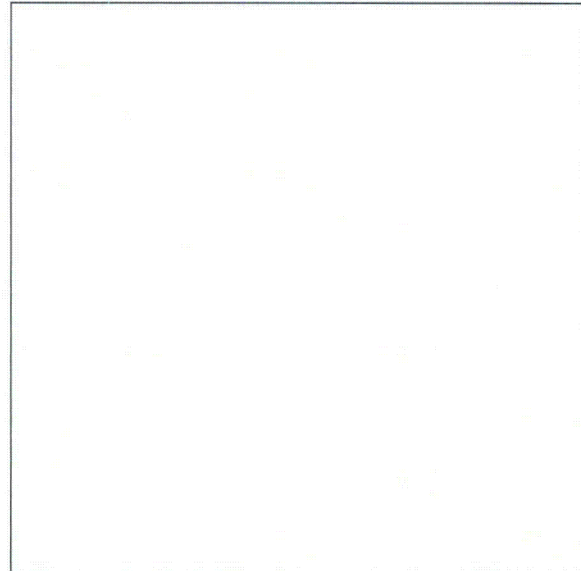
**AREA WALK-BY CHECKLIST**

**Sheet 4 of 4**

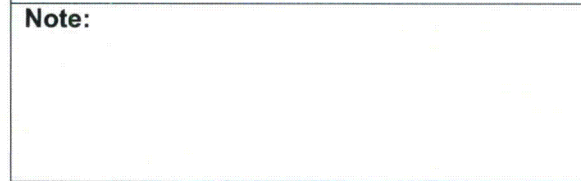
**IP3**



**Note:** *Some sections of grating are not attached to the steel beam below.*



**Note:**



**ATTACHMENT 9.7**

**AREA WALK-BY CHECKLIST**

Sheet 1 of 5

IP3

Status: Y  N  U

**Area Walk-By Checklist (AWC) AWC-017**

Location: Bldg. AFB Floor El. 73'-8" Room, Area<sup>1</sup> \_\_\_\_\_

**SWEL Components: SWEL1-003, 041, 042, 043, 044**

**Instructions for Completing Checklist**

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

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

*Yes, anchorage of equipment in the area appears to be free of potentially adverse seismic conditions.*

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

*Anchorage of equipment in the area appears to be free of significant degraded conditions.*

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

*The cable/conduit raceways and HVAC ducting appear to be free of potentially adverse seismic conditions.*

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

**ATTACHMENT 9.7**

**AREA WALK-BY CHECKLIST**

Sheet 2 of 5

IP3

Status: Y  N  U

**Area Walk-By Checklist (AWC) AWC-017**

Location: Bldg. AFB Floor El. 73'-8" Room, Area<sup>1</sup> \_\_\_\_\_

**SWEL Components: SWEL1-003, 041, 042, 043, 044**

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

*Floor grating is not attached to the steel support beams. Most grating is restrained laterally by the pipe supports and the wall on the opposite side. However some panels are only restrained by the wall and could displace laterally under seismic action. Adjacent panels cannot restrain the loose panels because the toe board is not continuous but is attached to each individual panel. They could then impact the main steam lines. CR-IP3-2012-03473 was issued to remedy this situation.*

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

*The area is free of potentially adverse seismic interactions that could cause flooding or spray in the area.*

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

*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 temporary installations (e.g., scaffolding, lead shielding)? Y  N  U  N/A

*The area is free of potentially adverse seismic interactions associated with housekeeping practices, storage of portable equipment, and temporary installations*

ATTACHMENT 9.7

AREA WALK-BY CHECKLIST

Sheet 3 of 5

IP3

Status: Y  N  U

Area Walk-By Checklist (AWC) AWC-017

Location: Bldg. AFB Floor El. 73'-8" Room, Area<sup>1</sup> \_\_\_\_\_

SWEL Components: SWEL1-003, 041, 042, 043, 044

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

*All fluorescent light bulbs in the area need to be secured to the fixture. This is addressed by CR-IP3-2012-03462.*

*A few fluorescent bulbs near south end of the platform are out and need to be replaced.*

*One of the fluorescent fixtures is touching the steel hanger. This was addressed in SWEL1-003.*

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

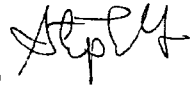
*The insulation cover on an overhead pipe is peeling off. See photo.*

Evaluated by: Paul Huebsch



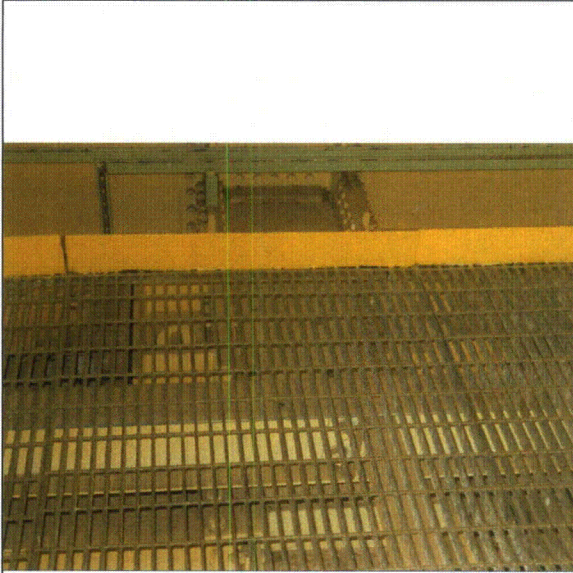
Date: 10/17/12

Stephen Yuan



Date: 10/17/12





**Note:** Some sections of grating are not attached to the steel beam below.

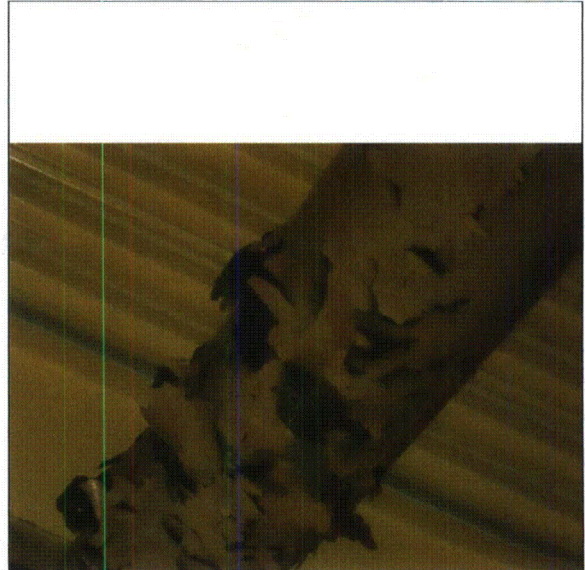


**Note:** Some fluorescent bulbs near south end of the platform are out and need to be replaced.

Photographs



**Note:** One of the florescent fixtures is touching the steel hanger.



**Note:** The insulation cover of the overhead pipe is peeling off.

**ATTACHMENT 9.7**

**AREA WALK-BY CHECKLIST**

Sheet 1 of 5

IP3

Status: Y  N  U

**Area Walk-By Checklist (AWC) AWC-018**

Location: Bldg. CST Floor El. 69'-0" Room, Area<sup>1</sup> Yard

**SWEL Components: SWEL1-095**

**Instructions for Completing Checklist**

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

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

*The base plates of support columns on adjacent platforms have four holes in the base plates but only two anchors installed on diagonal holes. This condition is judged to be acceptable based on the low height of the platform and the minimum weight of the framing and fiberglass grating.*

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

*Several screws are missing from the face closures of the electric panels. See attached photo.  
 – Since weight of the closure panel is less than 40#, and peak acceleration from ground response spectra is 0.64, 14 out of 22 screws are more than adequate to hold the panel in place.*

*All the conduit and pipes show sign of corrosion.*

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

*The tank is free of potentially adverse seismic conditions from overhead conduits and HVAC ducting.*

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

**ATTACHMENT 9.7**

**AREA WALK-BY CHECKLIST**

Sheet 2 of 5

IP3

Status: Y  N  U

**Area Walk-By Checklist (AWC) AWC-018**

Location: Bldg. CST Floor El. 69'-0" Room, Area<sup>1</sup> Yard

**SWEL Components: SWEL1-095**

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

*The lighting poles near the tank need to be verified for seismic adequacy.*

*-LB-11 evaluates 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? Y  N  U  N/A

*The area is free of potentially adverse seismic interactions that could cause flooding or spray in the area.*

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

*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 temporary installations (e.g., scaffolding, lead shielding)? Y  N  U  N/A

*The area is free of potentially adverse seismic interactions associated with housekeeping practices, storage of portable equipment, and temporary installations.*

**ATTACHMENT 9.7**

**AREA WALK-BY CHECKLIST**

Sheet 3 of 5

IP3

Status: Y  N  U

**Area Walk-By Checklist (AWC) AWC-018**

Location: Bldg. CST Floor El. 69'-0" Room, Area<sup>1</sup> Yard

**SWEL Components: SWEL1-095**

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

*No other seismic conditions that could adversely affect the safety functions of the equipment in the area were identified.*

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

Evaluated by: Paul Huebsch



Date: 10/17/12

Stephen Yuan



Date: 10/17/12

ATTACHMENT 9.7

AREA WALK-BY CHECKLIST

Sheet 4 of 5

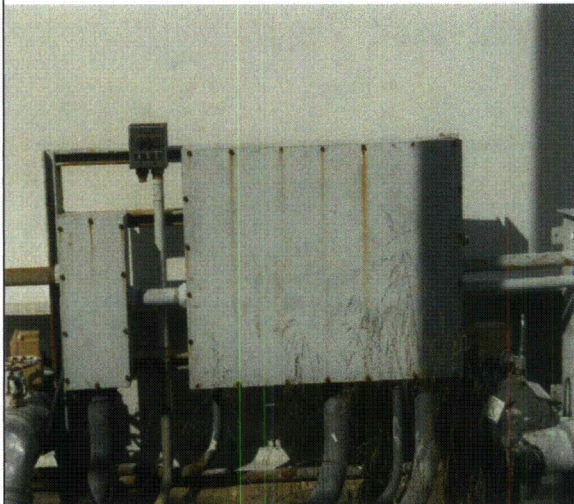
IP3

Status: Y  N  U

Area Walk-By Checklist (AWC) AWC-018

Location: Bldg. CST Floor El. 69'-0" Room, Area<sup>1</sup> Yard

SWEL Components: SWEL1-095



**Note:** Several screws are missing for the electric panels



**Note:** The adjacent platform support base plate missing half number of anchor bolts.

ATTACHMENT 9.7

AREA WALK-BY CHECKLIST

Sheet 5 of 5

IP3

Status: Y  N  U

Area Walk-By Checklist (AWC) AWC-018

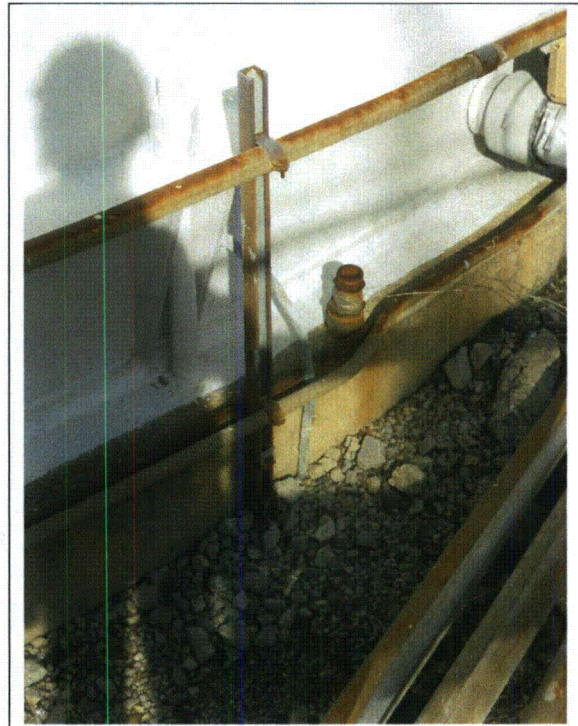
Location: Bldg. CST Floor El. 69'-0" Room, Area<sup>1</sup> Yard

SWEL Components: SWEL1-095

Photographs



**Note:** *The lighting poles near the tank need to be verified for seismic adequacy.*



**Note:** *All the conduit and pipes show sign of various stages of corrosion.*

**ATTACHMENT 9.7****AREA WALK-BY CHECKLIST**

Sheet 1 of 4

IP3

Status: Y  N  U Area Walk-By Checklist (AWC) AWC-019Location: Bldg. DG Floor El. 15'-0" Room, Area<sup>1</sup> 31 DIESEL GENERATOR ROOMSWEL Components: SWEL1-076, 067, 088, 096**Instructions for Completing Checklist**

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

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

*Observed a wide flange across the room (spanning east-west) supporting air intake piping with gaps between the base plate and the wall. The gaps are observed to be approximately between 1/8" to 1/4" (see attached photo). Per procedure 0-RES-400-GEN, the allowable gap shall not be greater than 3/32". This 1/8" to 1/4" gap may result in bending of the anchor bolts. This is addressed in CR-IP3-2012-03361. LB-05 evaluates this condition.*

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

*Yes, anchorage of equipment in the area appears to be free of significant degraded conditions.*

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

*Observed a not tightly secured metal wire trough located on the east wall (above the speaker). The wire trough is attached two Unistruts channels with one Unistrut bolt on each channel at the top. There is an approximately 3/4" to 1" gap between the wire trough and the Unistrut (see photos). The wire trough seems to be light in weigh; however, during a seismic event the trough may dislodge and strike nearby equipment. The wire trough should be properly secured to prevent any adverse seismic conditions. This is addressed in CR-IP3-2012-03363.*

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



**ATTACHMENT 9.7**

**AREA WALK-BY CHECKLIST**

Sheet 2 of 4

IP3

Status: Y  N  U

**Area Walk-By Checklist (AWC) AWC-019**

Location: Bldg. DG Floor El. 15'-0" Room, Area<sup>1</sup> 31 DIESEL GENERATOR ROOM

**SWEL Components: SWEL1-076, 067, 088, 096**

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

*Yes, it appears that the area is free of potentially adverse seismic spatial interactions with other equipment in the area.*

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

*Yes, it appears that the area is free of potentially adverse seismic interactions that could cause flooding or spray in the area.*

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

*Yes, it appears 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 temporary installations (e.g., scaffolding, lead shielding)? Y  N  U  N/A

*Yes, it appears that the area is free of potentially adverse seismic interactions associated with housekeeping practices, storage of portable equipment, and temporary installations*

**ATTACHMENT 9.7**

**AREA WALK-BY CHECKLIST**

Sheet 3 of 4

IP3

Status: Y  N  U

**Area Walk-By Checklist (AWC) AWC-019**

Location: Bldg. DG Floor El. 15'-0" Room, Area<sup>1</sup> 31 DIESEL GENERATOR ROOM

**SWEL Components: SWEL1-076, 067, 088, 096**

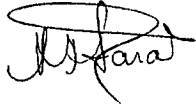
- 8. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment in the area? Y  N  U

*Yes, we have looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment in the area.*

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

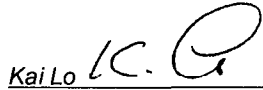
*References:*

*IP3 SWEL1-076, 1-067, 1-088, 1-096*



Evaluated by: Maggie Farah

Date: 10/19/12



Kai Lo

10/19/12

ATTACHMENT 9.7

AREA WALK-BY CHECKLIST

Sheet 4 of 4

IP3

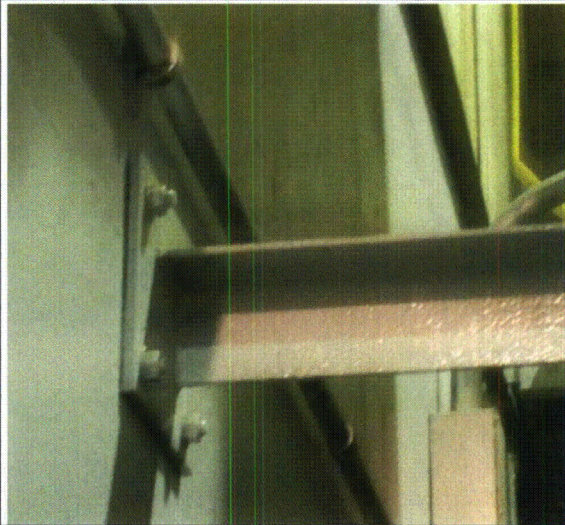
Status: Y  N  U

Area Walk-By Checklist (AWC) AWC-019

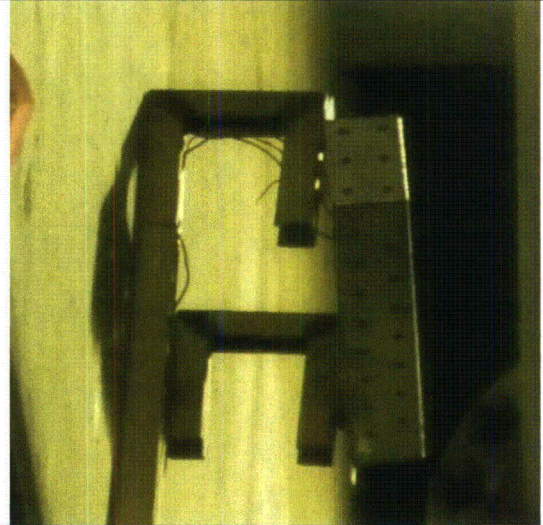
Location: Bldg. DG Floor El. 15'-0" Room, Area<sup>1</sup> 31 DIESEL GENERATOR ROOM

SWEL Components: SWEL1-076, 067, 088, 096

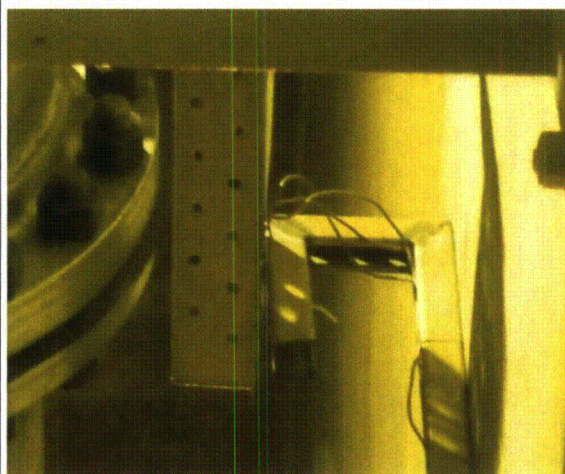
Photographs



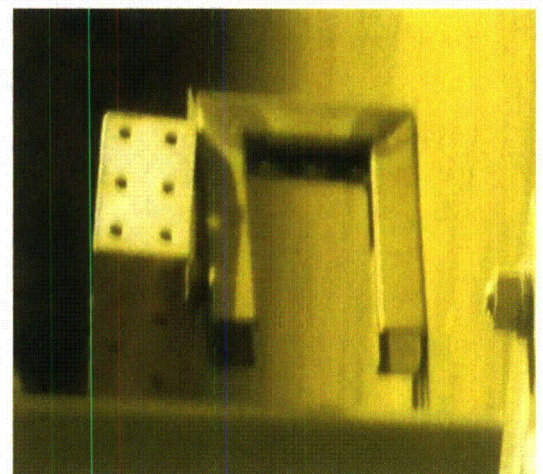
**Note:** Gap between the base plate and wall.



**Note:** Gaps between wire trough and Unistrut looking south.



**Note:** Gap between wire trough and Unistrut looking north.



**Note:** Gap between wire trough and Unistrut looking north.