F1SW2-1
F1SW2-1

Sheet 1 of 8 4 ARV
Status: Y☑ N☐ U☐

Seismic Walkdown Checklist (SWC)

Equipment ID No. Q1G31H0001A Equip. Class[1] 21

Equipment Description SPENT FUEL HEAT EXCHANGER 1A

Location: Bldg. AUXILIARY Floor El. 155 Room, Area 445

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☐

   Dwg. D176548 Ver. 11.0
   & SEW package dated 4.10.1994

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

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

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

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

   Dwg D176548 Ver11.0
   & SEW package dated 4.10.1994

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

[1] Enter the equipment class name from Appendix B: Classes of Equipment.

F1-SW2-1

Sheet 2 of 4 ~~8~~ Add

Status: Y☒ ~~N☐~~ U☐

Seismic Walkdown Checklist (SWC)

Equipment ID No. *Q1G31H0001A* Equip. Class[1] *21*

Equipment Description *SPENT FUEL HEAT EXCHANGER 1A*

Interaction Effects

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

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

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

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

Other Adverse Conditions

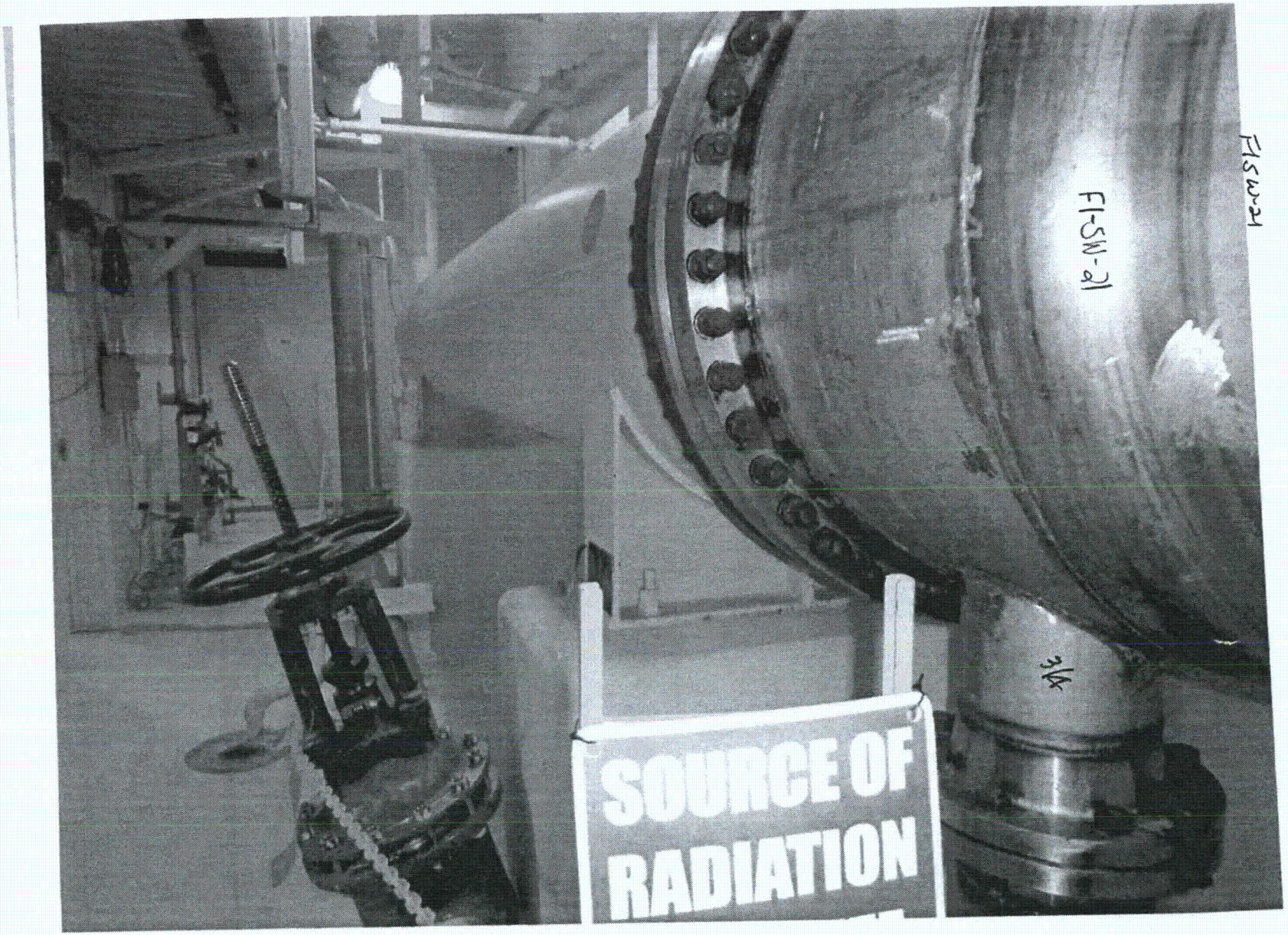
11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? Y☒ N☐ U☐

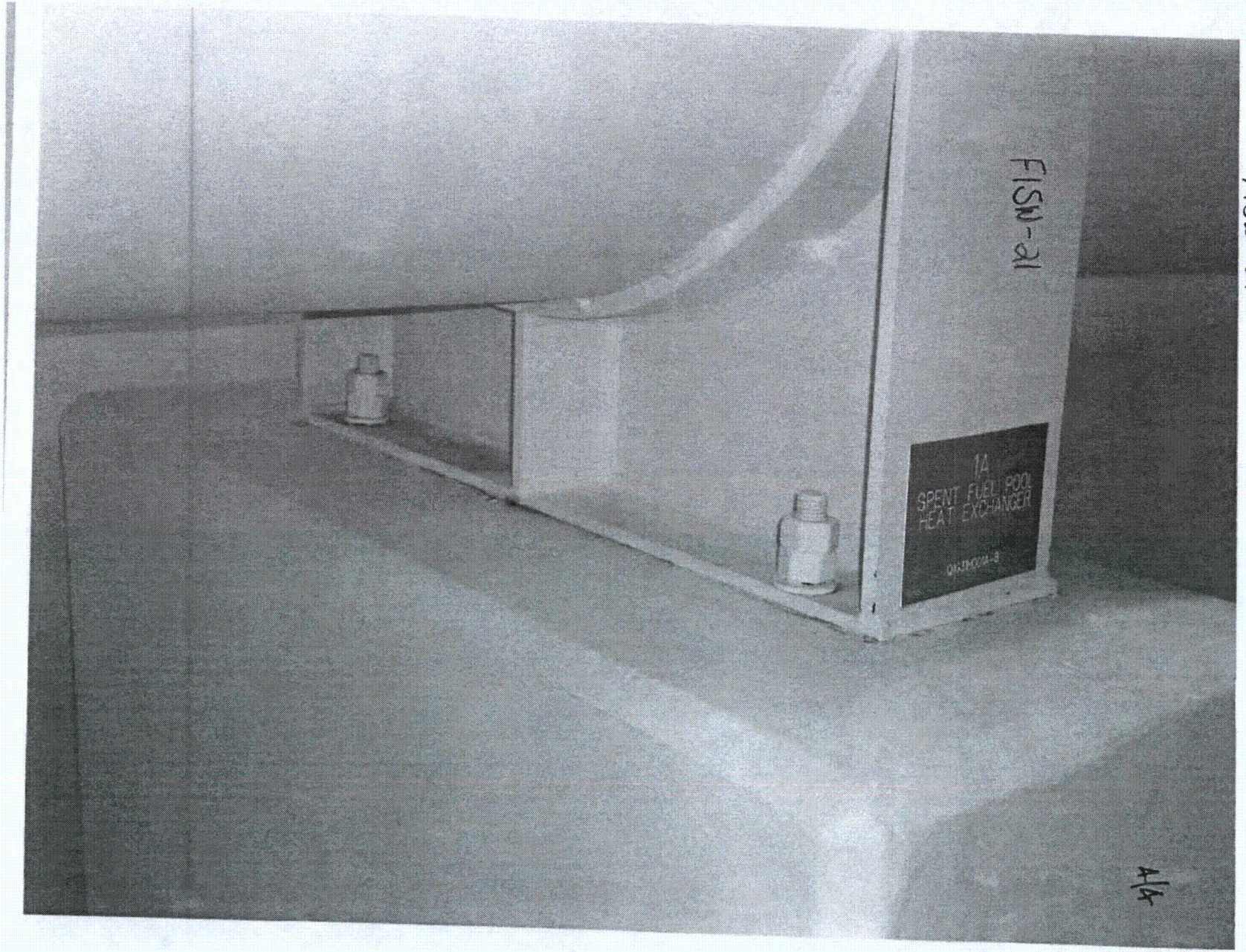
Comments (Additional pages may be added as necessary)

NONE

Evaluated by: Scott Walden Date: 9.11.2012

Ryan Harlos 9/11/12


FI-SW-21
SOURCE OF
RADIATION


FISW-21
1A
SPENT FUEL POOL
HEAT EXCHANGER
4/4
FISW-21

FISW2-2

Sheet 1 of 3

Status: Y☑ N☐ U☐

Seismic Walkdown Checklist (SWC)

Equipment ID No. Q1G31P002B Equip. Class[1] 5

Equipment Description 1B SFP PUMP

Location: Bldg. AUXILIARY Floor El. 139 Room, Area 0342

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☐

Dwg. D 176596 Ver. 4.0

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

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

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

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

Matches dwg. D176596

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

[1] Enter the equipment class name from Appendix B: Classes of Equipment.

F1SW2-2

Sheet 2 of 3

Status: Y☑ N☐ U☐

Seismic Walkdown Checklist (SWC)

Equipment ID No. Q1G31P002B Equip. Class[1] 5

Equipment Description 1B SFP PUMP

Interaction Effects

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

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

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

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

Other Adverse Conditions

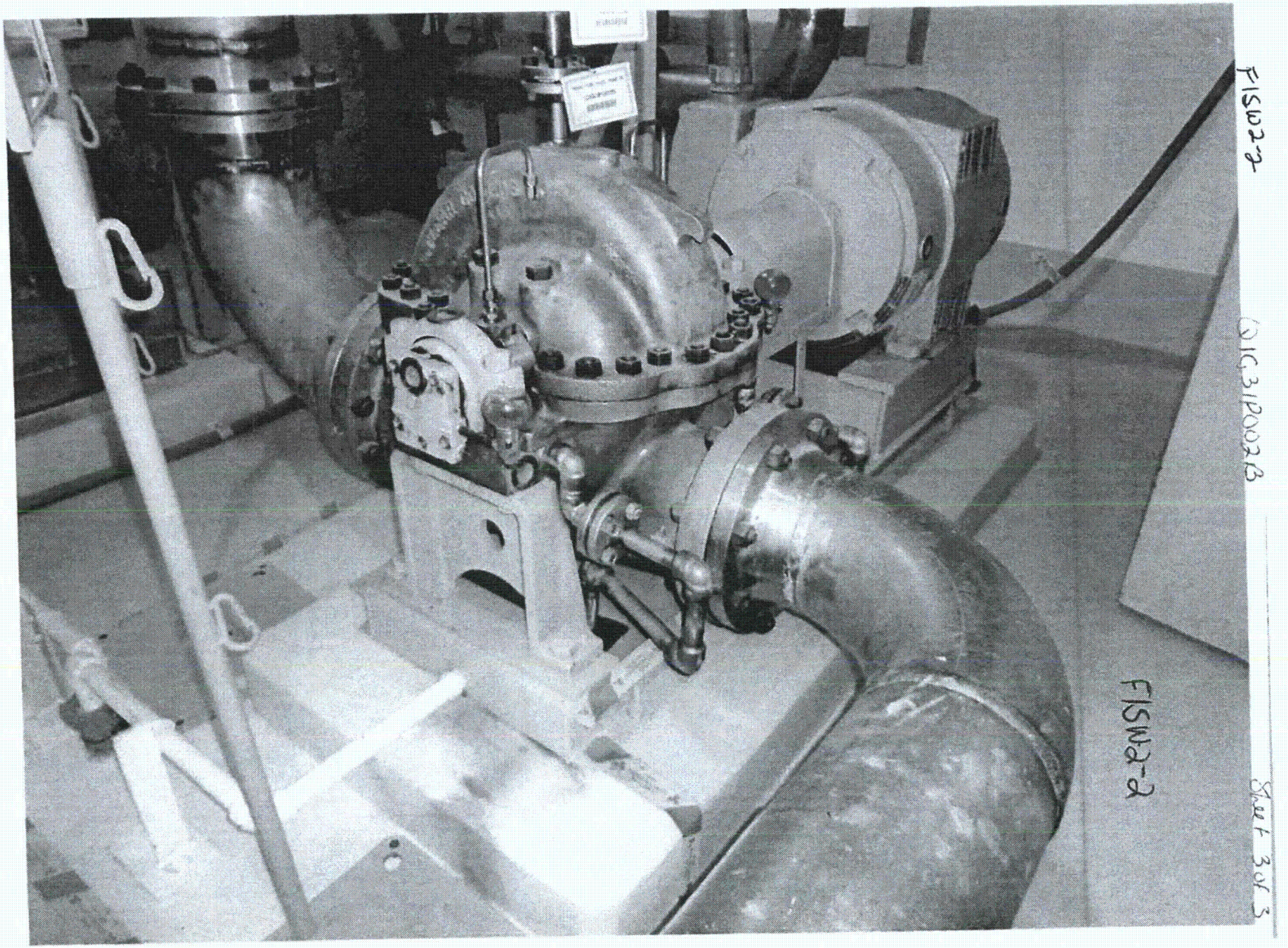
11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? Y☑ N☐ U☐

Comments (Additional pages may be added as necessary)

NONE

Evaluated by: Scott Walden Date: 8.29.2012

Crystal Lovelady 8/29/2012


FISW2-2
DIG.3/P002B
Sheet 3 of 3
FISW2-2

F1SW2-3

Sheet 1 of 3

Status: Y☑ N☐ U☐

Seismic Walkdown Checklist (SWC)

Equipment ID No. Q1G31V001A Equip. Class[1] 0

Equipment Description 1A SFP PUMP SUCTION ISO

Location: Bldg. AUXILIARY Floor El. 139 Room, Area 342

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☑

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

IN-LINE COMPONENT

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

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

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

IN-LINE COMPONENT

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

[1] Enter the equipment class name from Appendix B: Classes of Equipment.

FISW2-3

Sheet 2 of 3

Status: Y☑ N☐ U☐

Seismic Walkdown Checklist (SWC)

Equipment ID No. Q1G31V001A Equip. Class[1] 0

Equipment Description 1A SFP PUMP SUCTION ISO

Interaction Effects

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

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

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

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

Other Adverse Conditions

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

SUCTION VENT Q1G31V024A line ≈ 2" away. ANY interaction would NOT affect seismic ability of valve

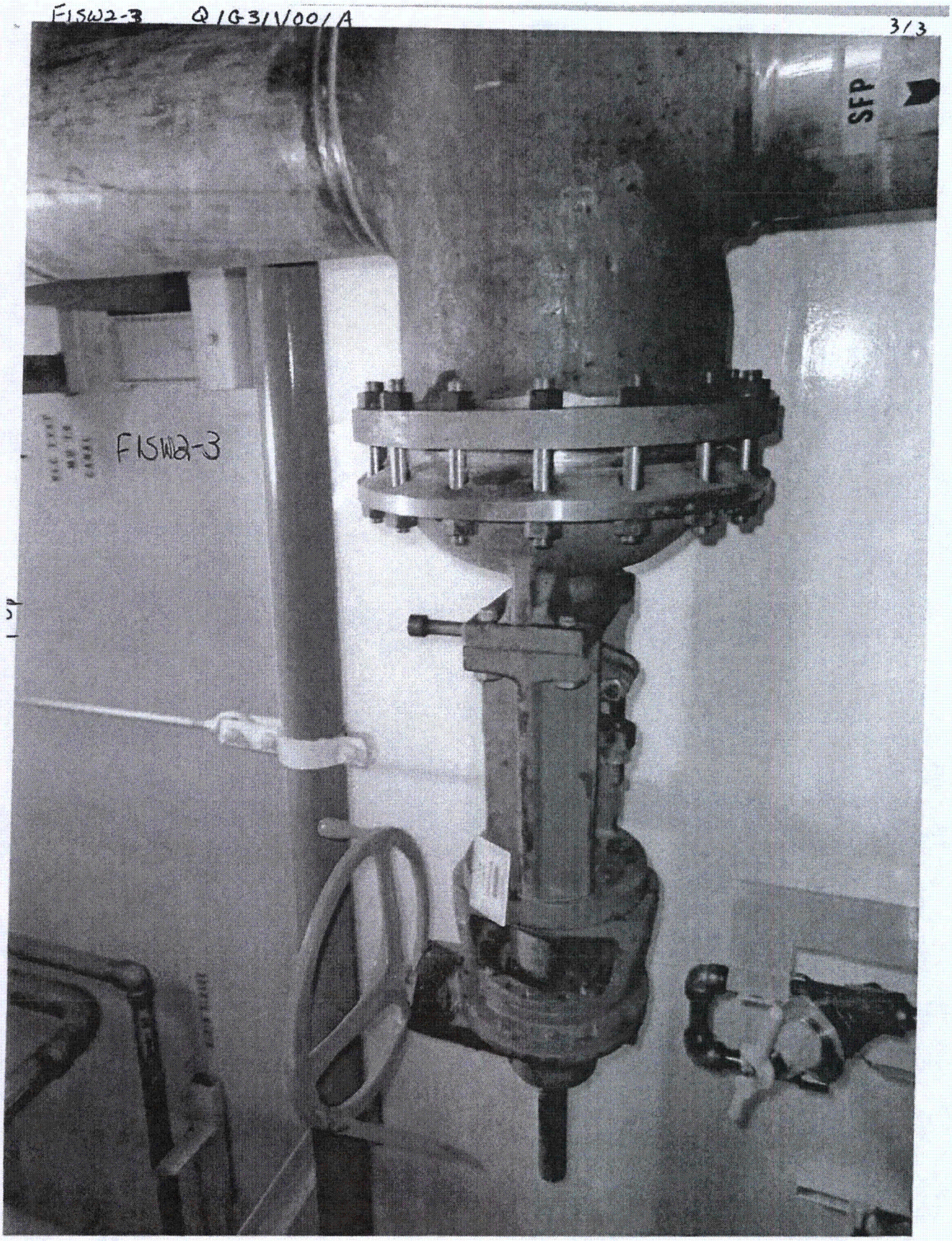
Comments (Additional pages may be added as necessary)

DUE TO SMALL MASS, OKAY

NONE

Evaluated by: Scott Waldon Scott Waldon Date: 9.11.2012

Ryan Hardos Ryan Hardos 9/11/12


F1SW2-3 Q1G31V001A
3/3
SFP
F1SW2-3

F1SW2-4

Sheet 1 of 3
Status: Y☑ N☐ U☐

Seismic Walkdown Checklist (SWC)

Equipment ID No. *Q1G31V003B* Equip. Class[1] *0*

Equipment Description *1B SFP HX OUTLET ISO*

Location: Bldg. *AUXILIARY* Floor El. *155* Room, Area

Manufacturer, Model, Etc. (optional but recommended) 423

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☑

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

IN-LINE COMPONENT

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

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

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

IN-LINE COMPONENT

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

[1] Enter the equipment class name from Appendix B: Classes of Equipment.

FISW2-4

Sheet 2 of 3

Status: Y☑ N☐ U☐

Seismic Walkdown Checklist (SWC)

Equipment ID No. *Q1G31V003B* Equip. Class[1] *0*

Equipment Description *1B SFP HX OUTLET ISO*

Interaction Effects

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

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

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

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

Other Adverse Conditions

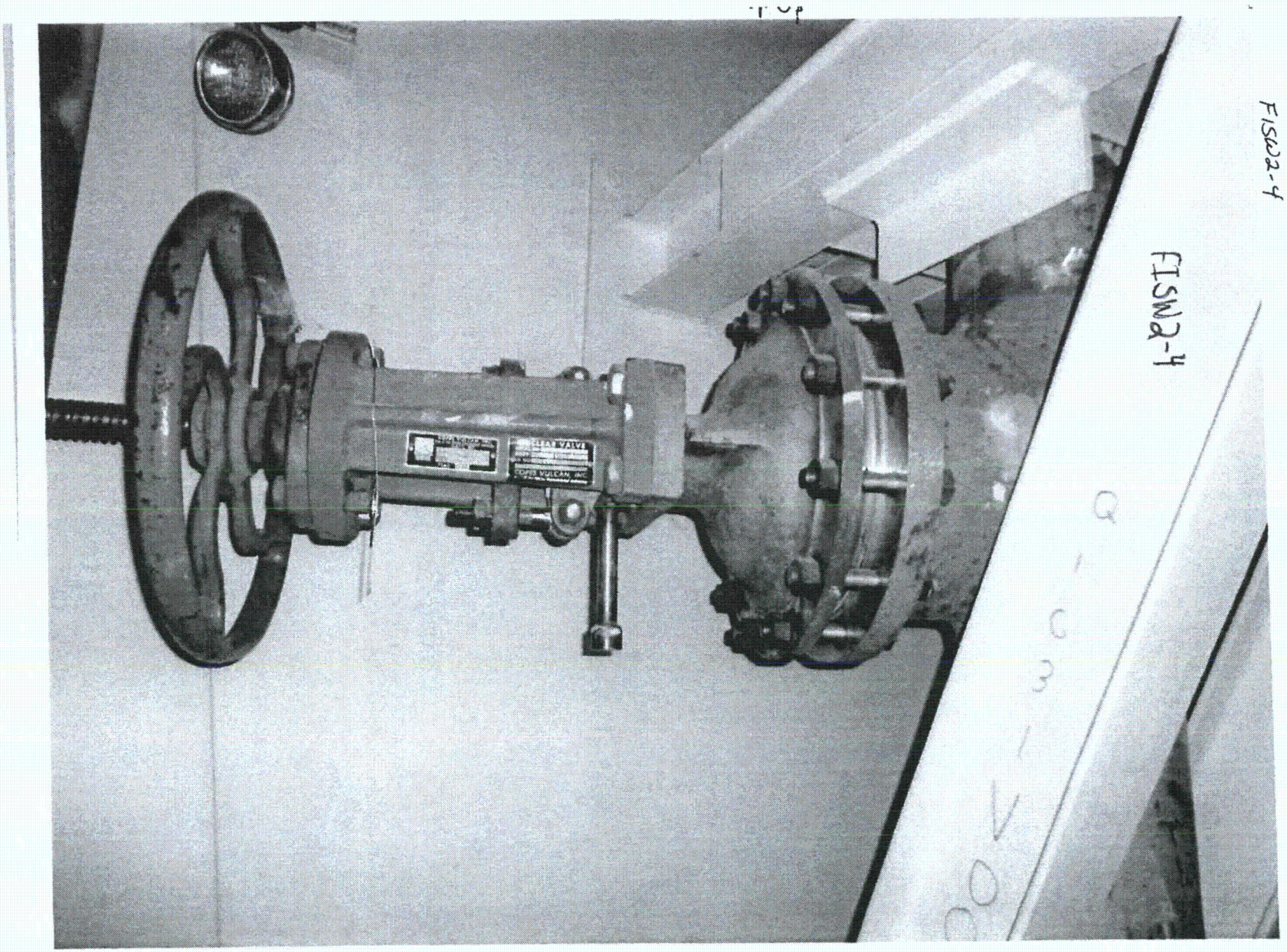
11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? Y☑ N☐ U☐

Comments (Additional pages may be added as necessary)

NONE

Evaluated by: Scott Wastegard Scott Wastegard Date: 8-29-2012

Crystal Lovelady 8/29/2012


FISW2-4
FISW2-4

F1SW2-5

Sheet 1 of ~~3~~ 4 thru

Status: Y☑ N☐ U☐

Seismic Walkdown Checklist (SWC)

Equipment ID No. Q1G31V004A Equip. Class[1] 0

Equipment Description 1A SFP COOLING LOOP TO SFP PURIF INLET ISO

Location: Bldg. AUXILIARY Floor El. 139 Room, Area 342

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☑

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

IN-LINE COMPONENT

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

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

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

IN-LINE COMPONENT

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

[1] Enter the equipment class name from Appendix B: Classes of Equipment.

F1SW2-5

Sheet 2 of 4
Status: Y☑ N☐ U☐

Seismic Walkdown Checklist (SWC)

Equipment ID No. Q1G31V004A Equip. Class[1] 0

Equipment Description 1A SFP COOLING LOOP TO SFP PURIF INLET ISO

Interaction Effects

7. Are soft targets free from impact by nearby equipment or structures? Y☑ N☐ U☐ N/A☐
Gaitronics speaker is hanging by wire. The mass of speaker is judged to not have an adverse seismic impact to the valve if it should come loose.
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☐
Speaker is still held by wire judged to be more than adequate to hold speaker, OKAY.
9. Do attached lines have adequate flexibility to avoid damage? Y☑ N☐ U☐ N/A☐
CR 515655 was written to fix this.
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y☑ N☐ U☐

Other Adverse Conditions

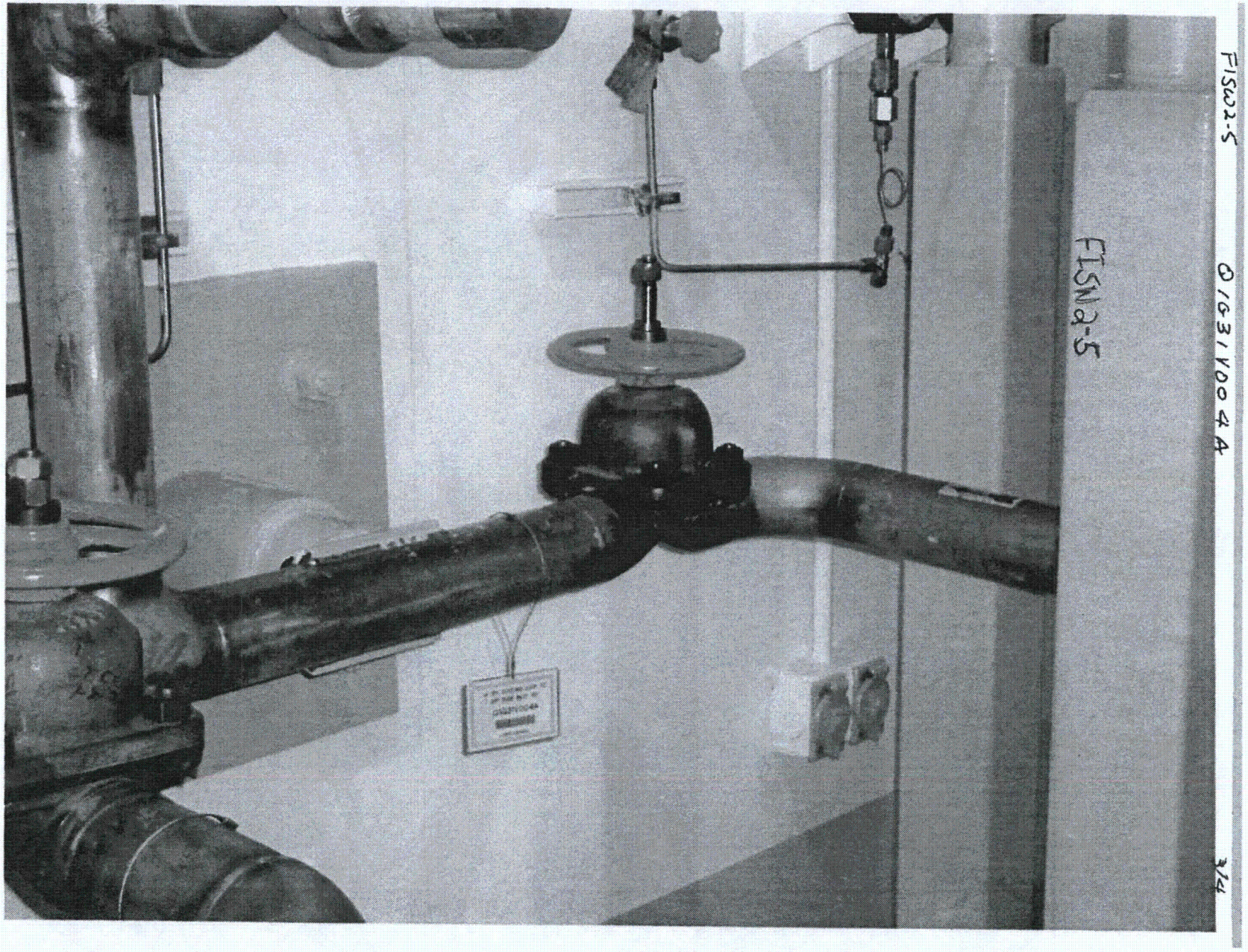
11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? Y☑ N☐ U☐

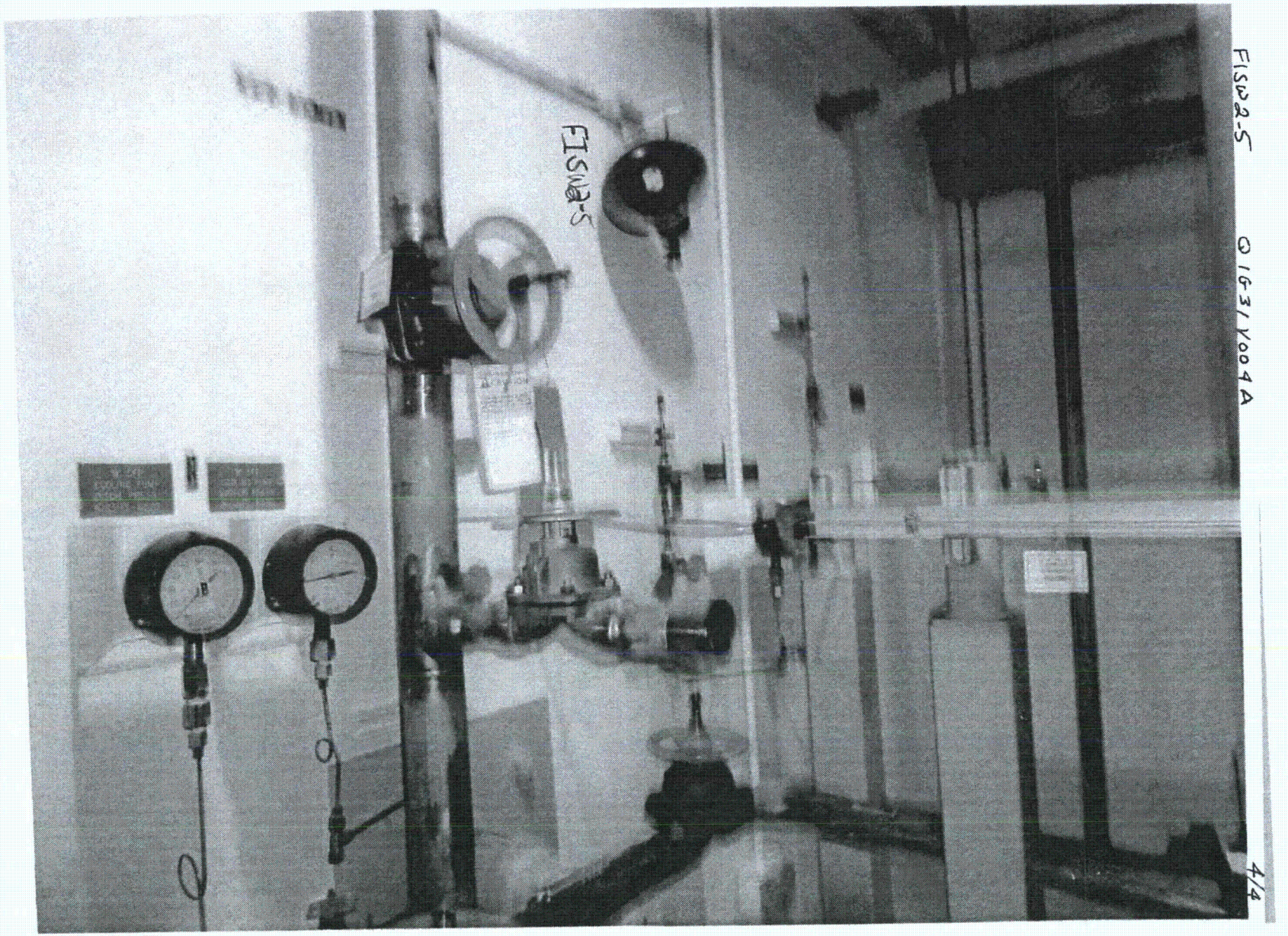
Comments (Additional pages may be added as necessary)

NONE

Evaluated by: Scott Walden Scott Walden Date: 9.11.2012

Ryan Harbs [signature] 9/11/12


FISW2-5
FISW2-5
0163100424
3/4


FISW2-5
FISW2-5
Q163/Y0044
4/4

F1SWZ-6

Sheet 1 of 3

Status: Y☑ N☐ U☐

Seismic Walkdown Checklist (SWC)

Equipment ID No. Q1G31V006 Equip. Class[1] 0

Equipment Description SFP COOLING LOOP RETURN (KEY Z-225)

Location: Bldg. AUXILIARY Floor El. 139 Room, Area 0342

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☑

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

IN LINE COMPONENT

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

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

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

IN LINE COMPONENT

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

[1] Enter the equipment class name from Appendix B: Classes of Equipment.

F1SW2-6

Sheet 2 of 3

Status: Y☑ N☐ U☐

Seismic Walkdown Checklist (SWC)

Equipment ID No. *Q1G31V006* Equip. Class[1] *0*

Equipment Description *SFP COOLING LOOP RETURN (KEY Z-225)*

Interaction Effects

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

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

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

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

Other Adverse Conditions

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

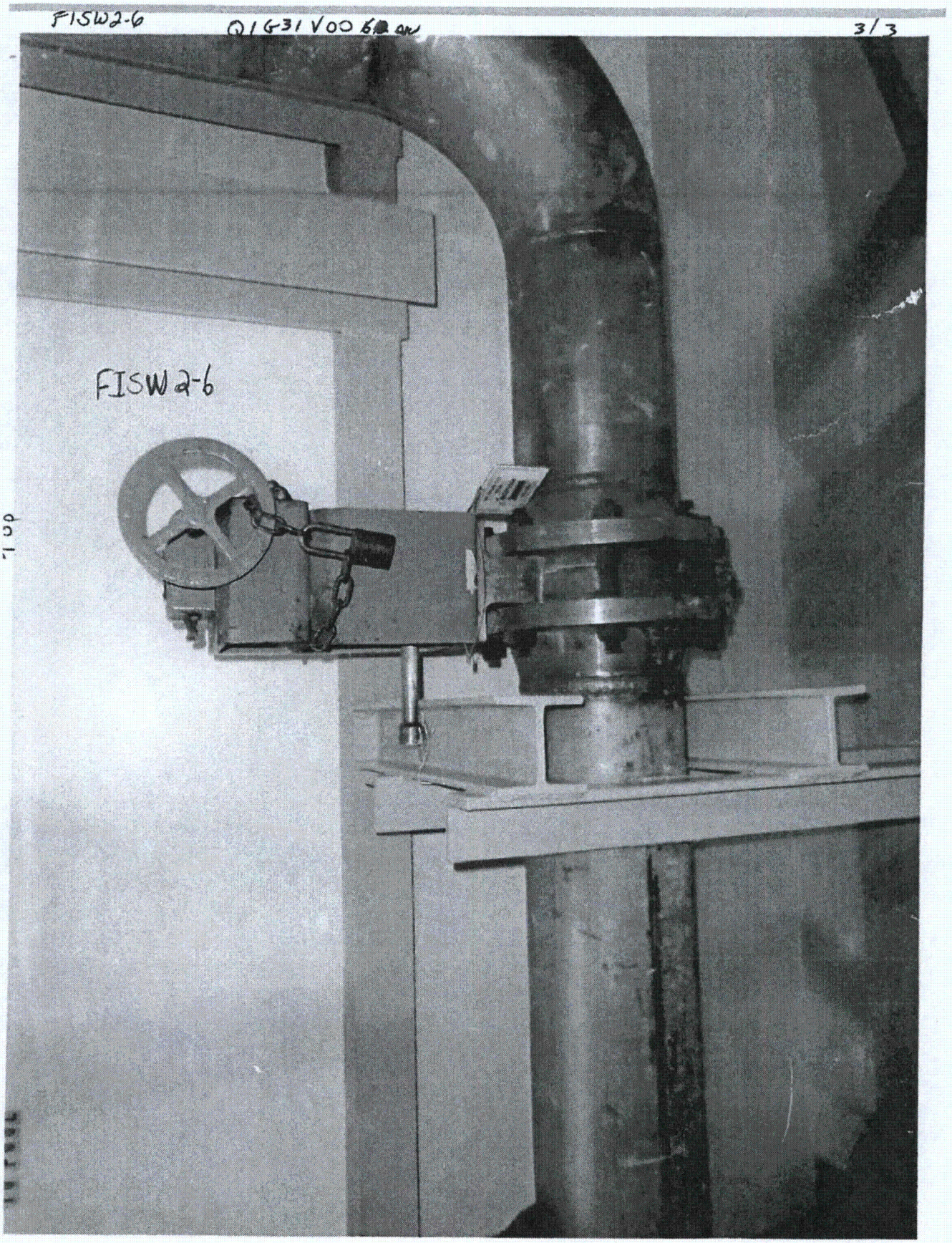
Support SPF-4-R16 is ≈ 1" away vertically and 3" horz. judged to not be a seismic interaction concern, OKAY

Comments (Additional pages may be added as necessary)

NONE

Evaluated by: Scott Walden Scott Walden Date: 9.11.2012

Ryan Harlos Ryan Harlos 9/11/12


FISW2-6
FISW2-6
3/3

ATTACHMENT 5

UNIT 1 - IPEEE VULNERABILITIES INFORMATION

(Version 1.0 and Version 2.0)

NO. SNCF164-RPT-01

This attachment contains Appendix H from the report entitled, "Joseph M. Farley Nuclear Plant, Unit 1 and Unit 2, Individual Plant Examination of External Events – Seismic"

Appendix H

UNIT 1 Description of Equipment Outliers

Equipment ID Number	Equipment Class	Equipment Description	Plant Area	Description of Outlier	Outlier Resolution
A1TB004	20	Terminal Box	Auxiliary Building El. 100'	Internal wire may impact essential relay	Restrain wire
N1H11NGMCB2500A-AB	20	Main control board Sect A	Auxiliary Building El. 155'	Potential Interaction with overhead light	Restrain overhead light
Q1C11E004A-AB	2	Reactor trip switchgear No. 1	Auxiliary Building El. 121'	Panels not bolted together	Bolt to adjacent panel
Q1C11E004B-AB	2	Reactor trip switchgear No. 2	Auxiliary Building El. 121'	Panels not bolted together	Bolt to adjacent panel
Q1C22LT0485-P2	18	Steam generator 1B narrow range level	Containment building El. 155'	Wire exposed from disconnected flex conduit	Repair conduit
Q1E16H003B-B	10	RHR pump room cooler 1A	Auxiliary building El. 83'	Bolts attaching coil to frame are missing.	Install missing bolts
Q1F16LT0501-A	18	RWST level transmitter	Yard El. 155'	Anchor bolts are corroded	Replace anchor bolts
Q1F16LT0502-B	18	RWST level transmitter	Yard El. 155'	Anchor bolts are corroded	Replace anchor bolts
Q1H11NGASC2506C-B	20	Aux safeguards cabinet C	Auxiliary building El. 155'	1. Potential Interaction from overhead light 2. Potential interaction from panels QSH11NGR2504, QAH11NGH2514-AB, and Q1H11NGSS2504	1. Restrain overhead light 2. Bolt panels together
Q1H11NGASC2506D-A	20	Aux safeguards cabinet D	Auxiliary building El. 155'	Potential interaction from overhead light	Restrain overhead light
Q1H11NGB2504J-A	20	BOP instrumentation cabinet J	Auxiliary building El. 155'	Potential interaction from overhead light	Restrain overhead light
Q1H11NGB2504K-B	20	BOP instrumentation cabinet K	Auxiliary building El. 155'	Potential interaction from overhead light	Restrain overhead light
Q1H11NGCCM2523A-A	20	ICCMS processor cabinet train A	Auxiliary building El. 155'	Potential interaction from overhead light	Restrain overhead light
Q1H11NGCCM2523B-B	20	ICCMS processor cabinet train B	Auxiliary building El. 155'	Potential interaction from overhead light	Restrain overhead light
Q1H11NGNIS2503A-1	20	NIS excore detector cabinet	Auxiliary building El. 155'	Potential interaction from overhead light	Restrain overhead light
Q1H11NGR2504I-AB	20	Radiation monitor panel	Auxiliary building El. 155'	Potential interaction from overhead light	Restrain overhead light
Q1H11NGSSP2506G-B	20	Solid-state protection input cabinet	Auxiliary building El. 155'	1. Potential Interaction from overhead light 2. Potential interaction from panels N1H11NGM1M2515-N and N1H11NGRYL2506Q-AB	1. Restrain overhead light 2. Bolt panels together
Q1H11NGSSP2505J-B	20	Solid-state protection input cabinet	Auxiliary building El. 155'	Potential interaction from overhead light	Restrain overhead light
Q1H11NGSSP2506K-A	20	Solid-state protection input cabinet	Auxiliary building El. 155'	Potential interaction from overhead light	Restrain overhead light
Q1H11NGSSP2506N-A	20	Solid-state protection input cabinet	Auxiliary building El. 155'	Potential interaction from overhead light	Restrain overhead light
Q1H21E505-B	20	4.16-kv switchgear 1J local control panel	Diesel generator building El. 155'	Potential interaction from overhead light, fan and adjacent conduit	Restrain overhead light, fan and conduit
A1TB004	20	Terminal Box	Auxiliary Building El. 100'	Internal wire may impact essential relay	Restrain wire
N1H11NGMCB2500A-AB	20	Main control board Sect A	Auxiliary Building El. 155'	Potential Interaction with overhead light	Restrain overhead light

Appendix H

UNIT 1 Description of Equipment Outliers

Equipment ID Number	Equipment Class	Equipment Description	Plant Area	Description of Outlier	Outlier Resolution
Q1H21E506-A	20	4.16-kv switchgear 1K local control panel	Service water intake structure El. 188'-6"	Potential interaction from overhead light	Restrain overhead light
Q1H21E507-B	20	4.16-kv switchgear 1L local control panel	Service water intake structure El. 188'-6"	Potential interaction from overhead light	Restrain overhead light
Q1H21E527-B	20	Diesel generator 1B local control panel	Diesel generator building El. 155'	1. Potential interaction for overhead light 2. Inadequate anchorage	1. Restrain overhead light 2. Modify anchorage
Q1H22L002-A	20	Transfer relay cabinet 1	Auxiliary building El. 139'	Panel not bolted to adjacent MCC	Bolt panel to adjacent MCC
Q1H22L503-B	20	Diesel local relay panel 1B	Diesel building El. 155'	Potential interaction from overhead light	Restrain overhead light
Q1H23S544B-B	20	Diesel generator room 1B HVAC LCS	Diesel generator building El. 155'	Potential interaction from overhead light	Restrain overhead light
Q1P16V579-B	7	B train service water min-flow	Service water intake El. 188'-6"	Potential interaction for loose cables	Restrain loose cables
Q1R11B503-A	4	LC transformer 1R	Diesel generator building El. 155'	Potential bolt bending concern	Resolved by analysis
Q1R11B504-A	4	LC transformer 1K	Service water intake El. 188'-6"	Potential bolt bending concern	Resolved by analysis
Q1R11B505-B	4	LC transformer 1L	Service water intake El. 188'-6"	Bold spins under torque	Repair bolt
Q1R11B507-B	4	LC transformer 1S	Diesel generator building El. 155'	Potential interaction from locker	Restrain locker
Q1R15A503-A	3	4.16-kV switchgear 1H	Diesel generator building El. 155'	Potential interaction from overhead light	Restrain overhead light
Q1R15A504-B	3	4.16-kv switchgear 1J	Diesel generator building El. 155'	Potential interaction from overhead light and nearby platform	Restrain overhead light, secure platform
Q1R15A505-A	3	4.16-kv switchgear 1K	Service water intake El. 188'-6"	Potential interaction from overhead light	Restrain overhead light
Q1R15A506-B	3	4.16-kv switchgear 1L	Service water intake El. 188'-6"	Potential interaction from overhead light	Restrain overhead light
Q1R16B006-A	2	600-V load center 1D	Auxiliary building El. 139'	No anchorage at rear of load center	Modify anchorage
Q1R16B506-A	2	600-V load center 1K/2K	Service water intake El. 188'-6"	Potential interaction from overhead light and loose cable	Restrain overhead light and cable
Q1R16B507-B	2	600-V load center 1L/2L	Service water intake El. 188'-6"	Potential interaction from overhead light and cables in panel	Restrain overhead light and cables
Q1R16B508-A	2	600-V load center 1R/2R	Diesel generator building El. 155'	1. Potential interaction from overhead light and cabinet 2. Inadequate anchorage and load path	1. Restrain overhead light and cabinet 2. Modify anchorage
Q1R16B509-B	2	500-V load center 1S/2S	Diesel generator building El. 155'	1. Potential interaction from overhead light 2. Inadequate anchorage and load path	1. Restrain overhead light 2. Modify anchorage
Q1R17B001-A	1	MCC 1A	Auxiliary building El. 139'	Inadequate anchorage	Modify anchorage

Appendix H

UNIT 1 Description of Equipment Outliers

Equipment ID Number	Equipment Class	Equipment Description	Plant Area	Description of Outlier	Outlier Resolution
Q1R17B002-B	1	MCC 1B	Auxiliary building El. 121'	1. Inadequate anchorage in rear of MCC 2. Adjacent MCC bays and transformer not connected	1. Modify anchorage 2. Connect MCC bays and transformer
Q1R17B008-A	1	MCC 1U	Auxiliary building El. 139'	Adjacent panel and MCC bays not adequately connected	Connect panel to MCC bays
Q1R17B009-B	1	MCC 1V	Auxiliary building El. 139'	Adjacent MCC bays not connected back to back	Connect MCC bays together
Q1R17B504-A	1	MCC 1K	Service water intake El. 188'-6"	Potential bolt bending concern	Resolved by analysis
Q1R17B505-B	1	MCC 1L	Service water intake El. 188'-6"	Potential bolt bending concern	Resolved by analysis
Q1R17B507-A	1	MCC 1N	Diesel generator building El. 155'	Inadequate anchorage	Modify anchorage
Q1R17B508-B	1	MCC 1P	Diesel generator building El. 155'	Inadequate anchorage	Modify anchorage
Q1R17B509-A	1	MCC 1S	Diesel generator building El. 155'	Inadequate anchorage	Modify anchorage
Q1R17B510-B	1	MCC 1T	Diesel generator building El. 155'	1. Potential interaction from nearby cabinet 2. Inadequate anchorage	1. Restrain cabinet 2. Modify anchorage
Q1R36A511-B	3	4.16 kV switchgear 1L surge arrestor	Diesel building El. 155'	Potential interaction from nearby cabinet	Restrain cabinet
QSH11NGEPB2508-AB	20	Emergency power board	Auxiliary building El. 155'	Potential interaction from overhead light	Restrain overhead light
QSH21E525-A	20	Diesel generator 1-2A local	Diesel generator building El. 155'	1. Potential interaction from overhead light 2. Bolts missing at cabinet support 3. Gaps under panel	1. Restrain overhead light 2. Install missing bolts 3. Provide grout under panel
QSH21E528-A	20	Diesel generator 1C local control panel	Diesel generator building El. 155'	1. Potential interaction from overhead light 2. Gaps under panel	1. Restrain overhead light 2. Provide grout under panel
QSH22L502-A	20	Diesel generator relay panel 1-2A	Diesel generator building El. 155'	1. Potential interaction from overhead light 2. Missing anchor bolt	1. Restrain overhead light 2. Replace missing bolt
QSH22L504-A	20	Diesel generator relay panel 1C	Diesel generator building El. 155'	1. Potential interaction from overhead light 2. Interaction from Internal cover on relays	1. Restrain overhead light 2. Repair cover on relays
QSH23S544E-A	20	Diesel generator room 1-2A HVAC	Diesel generator building El. 155'	Potential interaction from overhead light	Restrain overhead light

Appendix H

UNIT 1 Description of Equipment Outliers

Equipment ID Number	Equipment Class	Equipment Description	Plant Area	Description of Outlier	Outlier Resolution
QSR17B006-A	1	MCC 1F	Auxiliary building El. 155'	Inadequate anchorage and potential interaction from adjacent wall	Modify anchorage (top brace to wall)
QSR17B007-B	1	MCC 1G	Auxiliary building El. 155'	Inadequate anchorage and potential interaction from adjacent wall	Modify anchorage (top brace to wall)
QSR42B523A-A	15	125-V-DC service water building battery No. 1	Service water intake El. 188'-6"	Potential bolt bending concern	Resolved by analysis
QSR42B523B-A	15	125-V-DC service water building battery No. 2	Service water intake El. 188'-6"	Potential bolt bending concern	Resolved by analysis
QSR42B523C-B	15	125-V-DC service water building battery No. 3	Service water intake El. 188'-6"	Potential bolt bending concern	Resolved by analysis
QSR42B523D-B	15	125-V-DC service water building battery No. 4	Service water intake El. 188'-6"	Potential bolt bending concern	Resolved by analysis
QSR42B526B-A	16	Service water building battery charger No. 2 (standby)	Service water intake El. 188'-6"	Potential interaction from ladder and cart	Restrain ladder and cart
QSR43A501-A	17	Diesel generator 1-2A (skid)	Diesel generator building El. 155'	1. Potential interaction from overhead light 2. Potential interaction from hoist chain	1. Restrain overhead light 2. Secure hoist chain
QSR43A503-A	17	Diesel generator 1C (skid)	Diesel generator building El. 155'	1. Potential interaction from overhead light 2. Potential interaction from hoist chain	1. Restrain overhead light 2. Secure hoist chain
QSR43L001A-A	20	Diesel generator 1-2A DC control PWR auto XFER SW (ATS)	Diesel generator building El. 155'	Potential interaction from overhead light	Restrain overhead light
QSR43L001C-A	20	Diesel generator 1-C DC control PWR auto XFER (ATS)	Diesel generator building El. 155'	Potential interaction from overhead light	Restrain overhead light

*This document has been re-typed from the IPEEE Vulnerabilities Appendix H.

ATTACHMENT 6

UNIT 1 – SEISMIC WALKDOWN ENGINEER CERTIFICATIONS

(Version 1.0 and Version 2.0)

NO. SNCF164-RPT-01

ENERCON

Excellence—Every project. Every day.

Certificate of Completion

is hereby granted to

Nikole Arrant

for successful completion of

TRAINING ON NEAR TERM TASK FORCE RECOMMENDATION 2.3

PLANT SEISMIC WALKDOWNS

Awarded: 2/27/2013 at Farley Nuclear Plant

Kenneth Whitmore
Certified Seismic Walkdown Engineer
Alexandria, VA – 6/20/2012

SQUG

Presents this

Certificate of Achievement

To Certify That

Robert W. Ashworth

has Completed the SQUG Walkdown Screening and Seismic Evaluation Training Course Held August 23-27, 2010

Richard G. Starck II, MPR Associates, Inc.
SQUG Instructor

Paul D. Baughman, ARES Corporation
SQUG Instructor

EPRI | ELECTRIC POWER RESEARCH INSTITUTE

Certificate of Completion

Robert W. Ashworth

Training on Near Term Task Force Recommendation 2.3 - Plant Seismic Walkdowns

July 3, 2012
Date

Caroline S. Schlaseman, P.E.
Instructor

SQUG

Certificate of Achievement

This is to Certify that

Melanie H. Brown

has Completed the SQUG Walkdown Screening and Seismic Evaluation Training Course

January 16, 2002
Date of Course

Owen M. Scott
SQUG Representative
Owen M. Scott

Donald P. Moore
Training Course Administrator
Donald P. Moore

ENERCON

Excellence—Every project. Every day

Certificate of Completion

is hereby granted to

Maggie Farah

for successful completion of

TRAINING ON NEAR TERM TASK FORCE RECOMMENDATION 2.3

PLANT SEISMIC WALKDOWNS

Awarded: 7/26/2012 in Mt. Arlington, NJ

Kenneth Whitmore
Certified Seismic Walkdown Engineer
Alexandria, VA – 6/20/2012

EPRI | ELECTRIC POWER RESEARCH INSTITUTE

Certificate of Completion

Ryan Harlos

Training on Near Term Task Force Recommendation 2.3 - Plant Seismic Walkdowns

June 21, 2012
Date

R.P. Kassawara
Robert K. Kassawara
EPRI Manager,
Structural Reliability & Integrity

EPRI | ELECTRIC POWER RESEARCH INSTITUTE

Certificate of Completion

Crystal Lovelady

Training on Near Term Task Force Recommendation 2.3 - Plant Seismic Walkdowns

June 13, 2012
Date

R.P. Kassawara
Robert K. Kassawara
EPRI Manager,
Structural Reliability & Integrity

Certificate of Completion

This certifies that

Crystal R Lovelady

Has successfully completed

SAM NTTF 2.3 Seismic Walkdown Engineer JFG

Completed On 8/18/2012 03:00 PM America/Chicago

ENERCON

Excellence—Every project. Every day.

Certificate of Completion

is hereby granted to

Laura Maclay

for successful completion of

TRAINING ON NEAR TERM TASK FORCE RECOMMENDATION 2.3

PLANT SEISMIC WALKDOWNS

Awarded: 7/26/2012 in Mt. Arlington, NJ

Kenneth Whitmore
Certified Seismic Walkdown Engineer
Alexandria, VA – 6/20/2012

SQUG

Certificate of Achievement

This is to Certify that

Paul A. Miktus

has Completed the SQUG Walkdown Screening and Seismic Evaluation Training Course Held June 22-26, 1992

Neil P. Smith, Commonwealth Edison
SQUG Chairman

David A. Freed, MPR Associates
SQUG Training Coordinator

Robert P. Kassawara, EPRI
SQUG Program Manager

EPRI
Electric Power
Research Institute

Certificate of Achievement

This is to Certify that

Paul A. Miktus

has Completed the
Seismic IPE Add-On Training Course
Held July 27-29, 1992

David A. Freed, MPR Associates
SQUG Training Coordinator

Robert P. Kassawara, EPRI
SQUG Program Manager

SQUG

Certificate of Achievement

This is to Certify that

Ronald J. Miranda

has Completed the SQUG Walkdown Screening and Seismic Evaluation Training Course

April 20-24, 1998
Date of Course

Fred C. Smith
SQUG Representative

Training Course Administrator

ENERCON

Excellence—Every project. Every day.

Certificate of Completion

is hereby granted to

Terry (Alan) Mullenix

for successful completion of

TRAINING ON NEAR TERM TASK FORCE RECOMMENDATION 2.3

PLANT SEISMIC WALKDOWNS

Awarded: 7/11/2012 in Kennesaw, GA

Kevin Bessell
Certified Seismic Walkdown Engineer
Palo Alto, CA – 6/13/2012

Kenneth Whitmore
Certified Seismic Walkdown Engineer
Alexandria, VA – 6/20/2012

ENERCON

Excellence—Every project. Every day.

Certificate of Completion

is hereby granted to

Brian Nelson

for successful completion of

TRAINING ON NEAR TERM TASK FORCE RECOMMENDATION 2.3

PLANT SEISMIC WALKDOWNS

Awarded: 2/27/2013 at Farley Nuclear Plant

Kenneth Whitmore
Certified Seismic Walkdown Engineer
Alexandria, VA – 6/20/2012

SQUG

Certificate of Achievement

This is to Certify that

Scott Walden

has Completed the SQUG Walkdown Screening and Seismic Evaluation Training Course Prior to January 5, 2002

Donald P. Moore, Southern Company
SQUG Instructor

Donald P. Moore, Southern Company
SQUG Member Representative

EPRI

Certificate of Completion

Kenneth Whitmore

Training on Near Term Task Force Recommendation 2.3 - Plant Seismic Walkdowns

June 21, 2012
Date

R.P. Kassawara
Robert K. Kassawara
EPRI Manager,
Structural Reliability & Integrity

SQUG

Presents this

Certificate of Achievement

To Certify That

Kenneth L. Whitmore

has Completed the SQUG Walkdown Screening and Seismic Evaluation Training Course Held April 6th – 10th, 1992

David A. Freed, MPR Associates
SQUG Training Coordinator

Neil P. Smith, Commonwealth Edison
SQUG Chairman

Robert P. Kassawara, EPRI
SQUG Program Manager

EPRI

Certificate of Achievement

This is to Certify that

Kenneth L. Whitmore

has Completed the EPRI Add-On Seismic IPEEE Training Course Held November 2nd through 4th, 1992

David A. Freed, MPR Associates
Training Coordinator

R.P. Kassawara, EPRI
Program Manager

EPRI | ELECTRIC POWER RESEARCH INSTITUTE

Certificate of Completion

Taylor Youngblood

Training on Near Term Task Force Recommendation 2.3 - Plant Seismic Walkdowns

July 11, 2012
Date

R.P. Kassawara
Robert K. Kassawara
EPRI Manager,
Structural Reliability & Integrity

ENERCON

Excellence—Every project Every day.

Certificate of Completion

is hereby granted to

Steve Yuan

for successful completion of

TRAINING ON NEAR TERM TASK FORCE RECOMMENDATION 2.3

PLANT SEISMIC WALKDOWNS

Awarded: 7/26/2012 in Mt. Arlington, NJ

Kenneth Whitmore
Certified Seismic Walkdown Engineer
Alexandria, VA – 6/20/2012