

Status: Y N U

Area Walk-By Checklist (AWC)

Location (Bldg, Elev, Room/Area): Area Walk-by 4-17

Instructions for Completing Checklist

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

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

2. Does anchorage of equipment in the area appear to be free of significant degraded conditions? Yes
More than minor corrosion of auxiliary steel base plates beneath valve 1E12-F068A due to leakage. Scale only; no separation of material observed. Judged to be acceptable. Station is aware of leak per WO 01432087.

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

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

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

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

7. Does it appear that the area is free of potentially adverse seismic interactions associated with housekeeping practices, storage of portable equipment, and temporary installations (e.g., scaffolding, lead shielding)? Yes
More than minor corrosion of lower scaffold legs beneath valve 1E12-F068A due to leakage. Scale only; no separation of material observed. Judged to be acceptable. Per Operations, station is aware of leak.

Scaffold is adequately restrained.

Status: Y N U

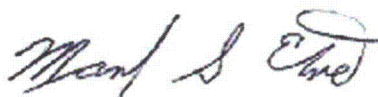
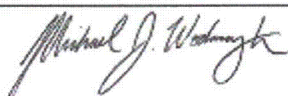
Area Walk-By Checklist (AWC)

Location (Bldg, Elev, Room/Area): Area Walk-by 4-17

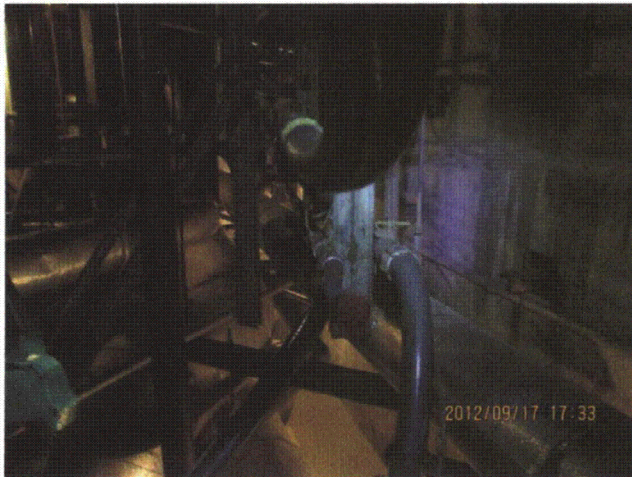
8. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment in the area? Yes
More than minor corrosion of auxiliary steel beneath valve 1E12-F068A due to leakage. Scale only; no separation of material observed. Judged to be acceptable. Per Operations, station is aware of leak.

Comments

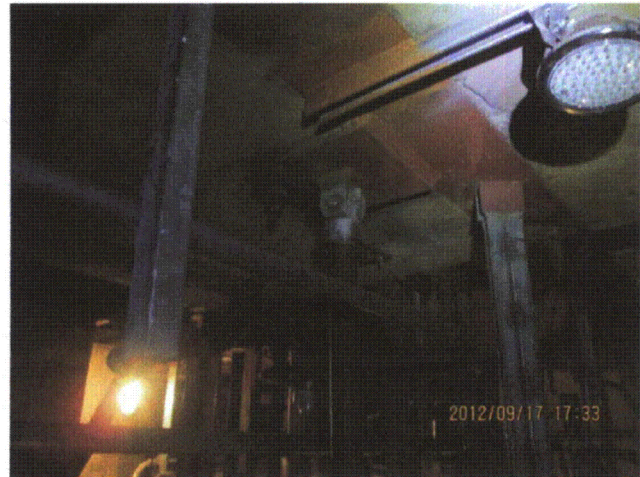
Seismic Walkdown Team: M. Etre & M. Wodarczyk - 9/17/2012

Evaluated by:  Mark Etre Date: 10/17/2012
 Michael Wodarczyk 10/17/2012

Photos



20120917-Lasalle 340



20120917-Lasalle 341

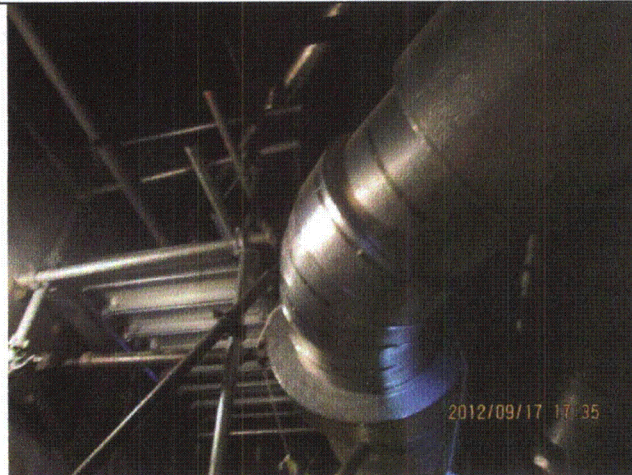
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Area Walk-By Checklist (AWC)

Location (Bldg, Elev, Room/Area): Area Walk-by 4-17



20120917-Lasalle 342



20120917-Lasalle 343



20120917-Lasalle 344

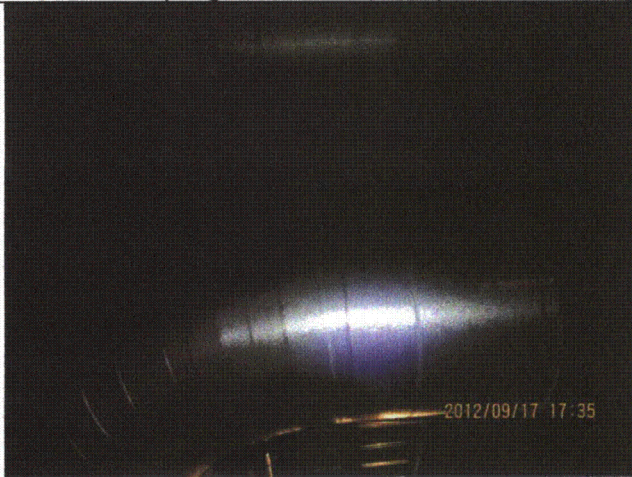


20120917-Lasalle 345

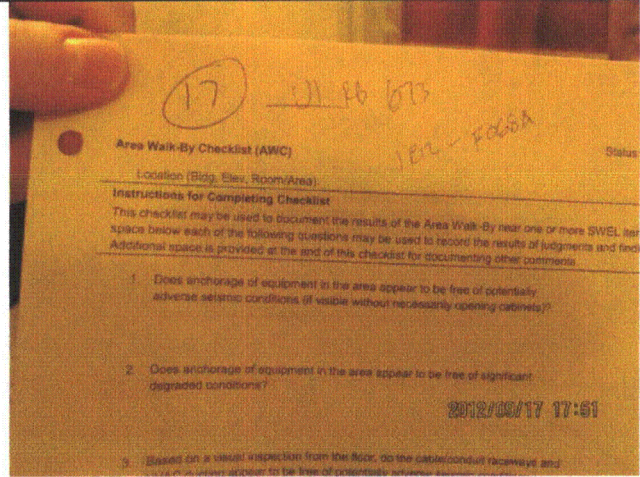
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Area Walk-By Checklist (AWC)

Location (Bldg, Elev, Room/Area): Area Walk-by 4-17



20120917-Lasalle 346



20120917-Lasalle 347

Status: Y N U

Area Walk-By Checklist (AWC)

Location (Bldg, Elev, Room/Area): Area Walk-by 4-18

Instructions for Completing Checklist

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

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

2. Does anchorage of equipment in the area appear to be free of significant degraded conditions? Yes
Minor corrosion in several base plates 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)? Yes

4. Does it appear that the area is free of potentially adverse seismic spatial interactions with other equipment in the area (e.g., ceiling tiles and lighting)? Yes
Insulated, non-safety-related pipes in contact. Judged to be acceptable.

5. Does it appear that the area is free of potentially adverse seismic interactions that could cause flooding or spray in the area? Yes
Deluge system with threaded pipe is dry; requires signal to activate. Judged to be acceptable. Remaining piping is welded and judged to be acceptable.

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

7. Does it appear that the area is free of potentially adverse seismic interactions associated with housekeeping practices, storage of portable equipment, and temporary installations (e.g., scaffolding, lead shielding)? Yes
Scaffold adequately restrained to auxiliary steel.

Other items on floor are not near sensitive targets and are judged to be acceptable.

Status: Y N U

Area Walk-By Checklist (AWC)

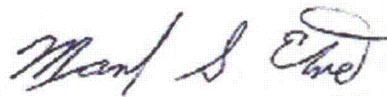
Location (Bldg, Elev, Room/Area): Area Walk-by 4-18

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

Comments

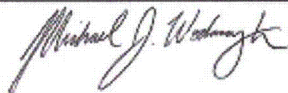
Seismic Walkdown Team: M. Etre & M. Wodarcyk - 9/17/2012

Evaluated by:



Mark Etre

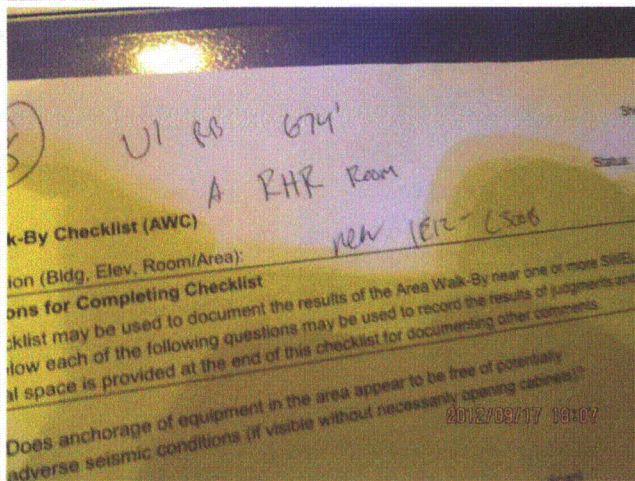
Date: 10/17/2012



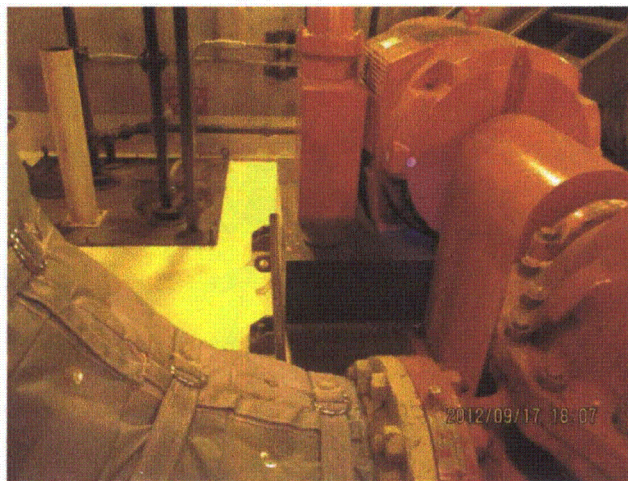
Michael Wodarcyk

10/17/2012

Photos



20120917-Lasalle 359

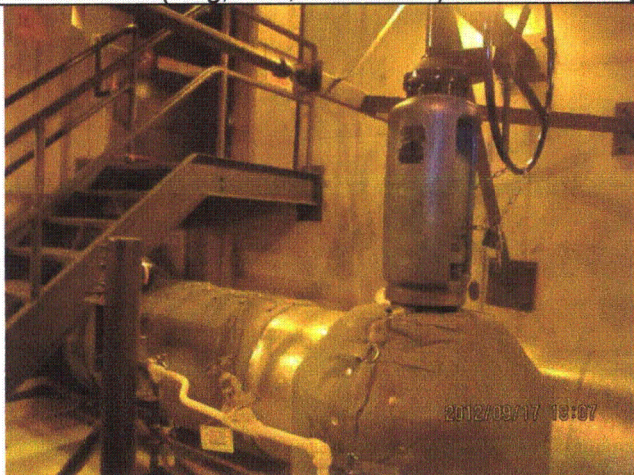


20120917-Lasalle 360

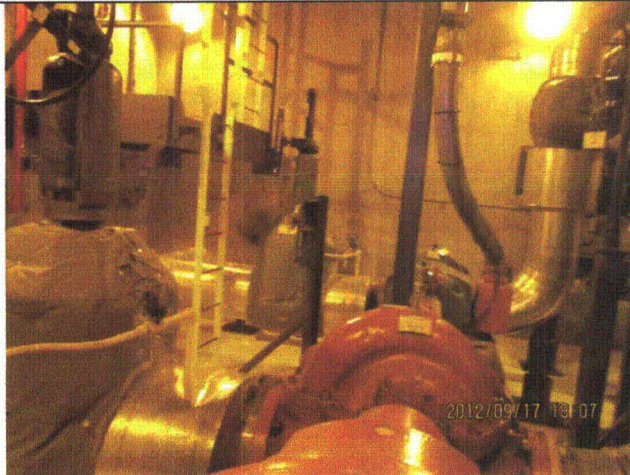
Status: Y N U

Area Walk-By Checklist (AWC)

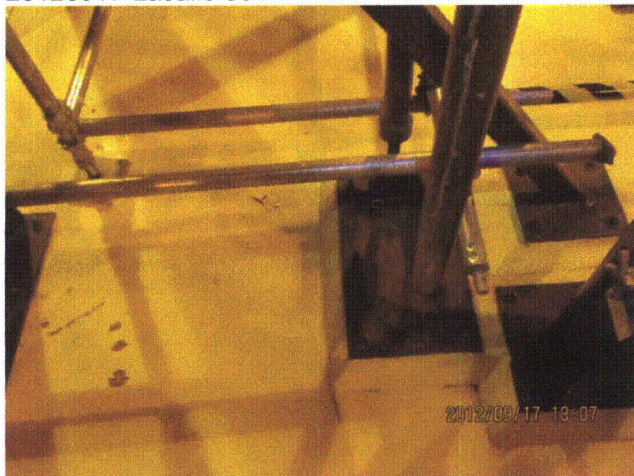
Location (Bldg, Elev, Room/Area): Area Walk-by 4-18



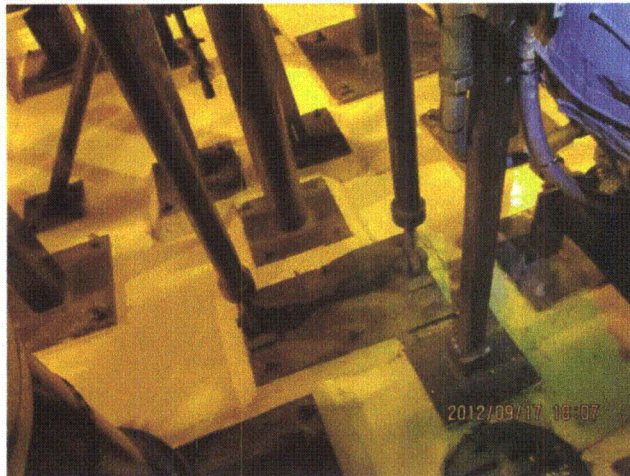
20120917-Lasalle 361



20120917-Lasalle 362



20120917-Lasalle 363



20120917-Lasalle 364

Status: Y N U

Area Walk-By Checklist (AWC)

Location (Bldg, Elev, Room/Area): Area Walk-by 4-19

Instructions for Completing Checklist

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

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

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

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

4. Does it appear that the area is free of potentially adverse seismic spatial interactions with other equipment in the area (e.g., ceiling tiles and lighting)? Yes
Overhead chain-hung light fixture prevented from interaction with transformer by short hanging chain, conduit, and chain restraint.

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

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

7. Does it appear that the area is free of potentially adverse seismic interactions associated with housekeeping practices, storage of portable equipment, and temporary installations (e.g., scaffolding, lead shielding)? Yes
Wheeled breakers adequately restrained to wall.

Eyewash station adequately restrained to column on opposite side of 19E transformer.

Status: Y N U

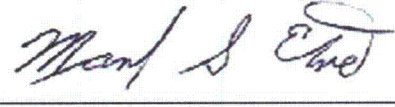
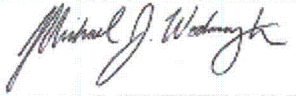
Area Walk-By Checklist (AWC)

Location (Bldg, Elev, Room/Area): Area Walk-by 4-19

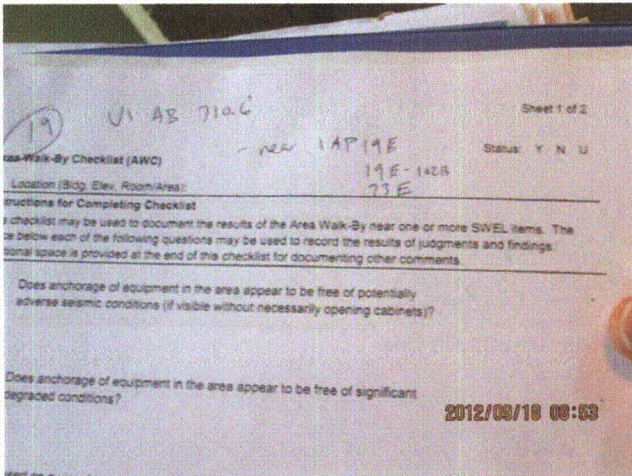
8. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment in the area? Yes

Comments

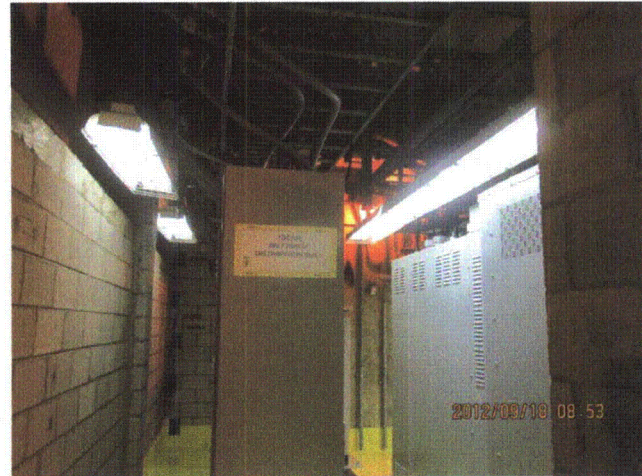
Seismic Walkdown Team: M. Etre & M. Wodarcyk - 9/18/2012

Evaluated by:  Mark Etre Date: 10/17/2012
 Michael Wodarcyk 10/17/2012

Photos



20120918-Lasalle 039

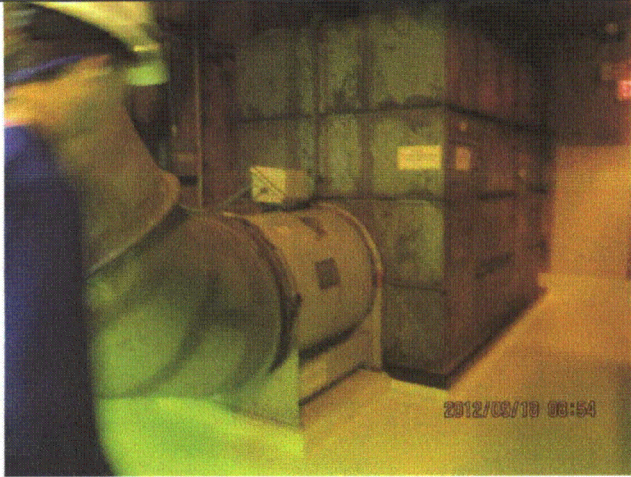


20120918-Lasalle 040

Status: Y N U

Area Walk-By Checklist (AWC)

Location (Bldg, Elev, Room/Area): Area Walk-by 4-19



20120918-Lasalle 041



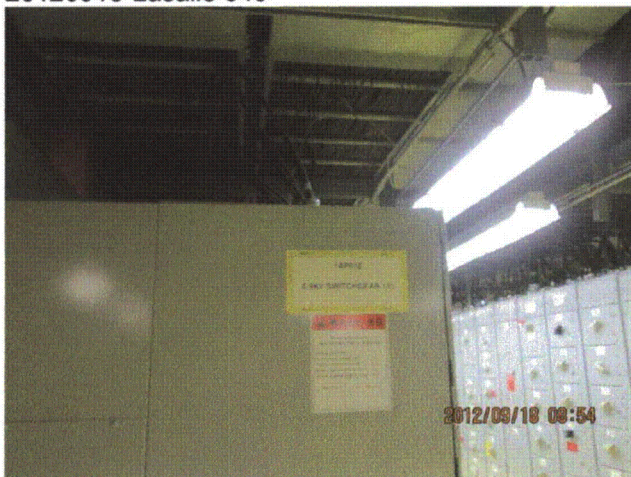
20120918-Lasalle 042



20120918-Lasalle 043



20120918-Lasalle 044



20120918-Lasalle 045



20120918-Lasalle 046

Status: Y N U

Area Walk-By Checklist (AWC)

Location (Bldg, Elev, Room/Area): Area Walk-by 4-19



20120918-Lasalle 047



20120918-Lasalle 048



20120918-Lasalle 049

Status: Y N U

Area Walk-By Checklist (AWC)

Location (Bldg, Elev, Room/Area): Area Walk-by 4-23

Instructions for Completing Checklist

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

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

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

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

4. Does it appear that the area is free of potentially adverse seismic spatial interactions with other equipment in the area (e.g., ceiling tiles and lighting)? Yes
Masonry wall in area adequately restrained.
Overhead light fixtures judged to be acceptable.

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

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

7. Does it appear that the area is free of potentially adverse seismic interactions associated with housekeeping practices, storage of portable equipment, and temporary installations (e.g., scaffolding, lead shielding)? Yes
Emergency light fixture near non-safety-related junction box judged to be acceptable.

Status: Y N U

Area Walk-By Checklist (AWC)

Location (Bldg, Elev, Room/Area): Area Walk-by 4-23

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

Comments

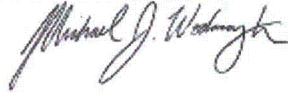
Seismic Walkdown Team: M. Etre & M. Wodarczyk - 9/18/2012

Evaluated by:



Mark Etre

Date: 10/25/2012



Michael Wodarczyk

10/25/2012

Photos



20120918-Lasalle 126



20120918-Lasalle 127

Status: Y N U

Area Walk-By Checklist (AWC)

Location (Bldg, Elev, Room/Area): Area Walk-by 4-23



20120918-Lasalle 128



20120918-Lasalle 129

E

Plan for Future Seismic Walkdown of Inaccessible Equipment

Seven (7) items could not be walked down during the 180-day period following the issuance of the 10CFR50.54(f) letter due to their being inaccessible. The items will be walked down during a unit outage or time when the equipment is accessible, as appropriate. Table E-1 summarizes the reasons each item is inaccessible during normal plant operation and notes the LaSalle Station Issue Report (IR) that has been written to track completion of the Seismic Walkdowns (and Area Walk-bys) for these items. It is noted that SSCs identified on Table E-1 require a complete inspection including, as applicable, internal inspections of electrical cabinets for other adverse seismic conditions, as required.

Certain cabinets require supplemental internal inspection for other adverse seismic conditions as summarized in Table E-2. Supplemental internal inspections of these cabinets are required due to clarifications provided by the NRC after the online seismic walkdowns were completed. These Supplemental inspections will be completed during a unit outage or another time when the equipment is accessible, as appropriate. It is noted, that SSCs identified on Table E-1 do not appear on Table E-2.

Table E-1. Inaccessible and Deferred Equipment

Component ID	Description	Reason for Inaccessibility	Action Request ID (IR)	Resolution/ Status	Milestone Completion
1B21-A004C	SRV 1B21-F013C ACCUMULATOR	Located in Drywell	1428087, WO 1583946		L1R15 Refueling Outage
1B21-F013C	C MAIN STEAM LINE SAFETY RELIEF VALVE	Located in Drywell			L1R15 Refueling Outage
1B21-F013C-A	SRV C UMF-1 SOLENOID VALVE 'A'	Located in Drywell			L1R15 Refueling Outage
1B21-F022C	C MS INBD ISOL	Located in Drywell			L1R15 Refueling Outage
1B21-F028C	C OTBD MAIN STEAM ISOLATION VALVE	Located in MSIV Room			L1R15 Refueling Outage
1B21-F028C-P2	VALVE, SOLENOID, O/B MSIV	Located in MSIV Room			L1R15 Refueling Outage
1B21-F067C	C MAIN STEAM OTBD DRAIN LINE ISOL VALVE	Located in MSIV Room			L1R15 Refueling Outage

Table E-2. Supplemental Cabinet Internal Inspection List

COMPONENT ID	DESCRIPTION	EQUIPMENT CLASS	ACCESSIBLE (Y/N)	IF NOT ACCESSIBLE, WHY?	MILESTONE COMPLETION	TRACKING NUMBER (IR NUMBER)	STATUS / INSPECTION RESULTS
1AP71E	DIV I 480V MCC 135X-1	(01) Motor Control Centers	YES	N/A	L1R15 Refueling Outage	IR 01425132 W/O 414193	
1AP73E	DIV I 480V MCC 135X-3	(01) Motor Control Centers	YES	N/A	L1R15 Refueling Outage	IR 01425132 W/O 414193	
1AP78E	DIV II 480V MCC 136X-1	(01) Motor Control Centers	YES	N/A	L1R17 Refueling Outage	IR 01425145 W/O 414192	
1AP81E	DIV II 480V MCC 136X-3	(01) Motor Control Centers	YES	N/A	L1R17 Refueling Outage	IR 01425145 W/O 414192	
1DC005E	250V MCC	(01) Motor Control Centers	YES	N/A	L1R15 Refueling Outage	IR 01425132 W/O 414193	
1AP15E	480V SWGR 133	(02) Low Voltage Switchgear and Breaker Panels	YES	N/A	L1R15 Refueling Outage	IR 01425132 W/O 414193	
1AP19E	DIV I 480V SWGR 135X	(02) Low Voltage Switchgear and Breaker Panels	YES	N/A	L1R15 Refueling Outage	IR 01425132 W/O 414193	

COMPONENT ID	DESCRIPTION	EQUIPMENT CLASS	ACCESSIBLE (Y/N)	IF NOT ACCESSIBLE, WHY?	MILESTONE COMPLETION	TRACKING NUMBER (IR NUMBER)	STATUS / INSPECTION RESULTS
1AP21E	DIV II 480V SWGR 136X	(02) Low Voltage Switchgear and Breaker Panels	YES	N/A	L1R17 Refueling Outage	IR 01425145 W/O 414192	
1AP05E	4160V SWGR 142X	(03) Medium Voltage Switchgear	YES	N/A	9/14/2012	N/A	NO OTHER ADVERSE SEISMIC CONDITIONS
1AP06E-9	TRANSFORMER, 136X	(04) Transformers	YES	N/A	L1R17 Refueling Outage	IR 01425145 W/O 414192	
1AP19E-102B	TRANSFORMER, 135X	(04) Transformers	YES	N/A	L1R15 Refueling Outage	IR 01425132 W/O 414193	
1DC02E	DIV I 250VDC DISTRIBUTION BUS 1	(14) Distribution Panels and Automatic Transfer Switches	YES	N/A	L1R15 Refueling Outage	IR 01425132 W/O 414193	
1DC12E	125VDC DISTRIBUTION PANEL 112X	(14) Distribution Panels and Automatic Transfer Switches	YES	N/A	L1R15 Refueling Outage	IR 01425132 W/O 414193	

COMPONENT ID	DESCRIPTION	EQUIPMENT CLASS	ACCESSIBLE (Y/N)	IF NOT ACCESSIBLE, WHY?	MILESTONE COMPLETION	TRACKING NUMBER (IR NUMBER)	STATUS / INSPECTION RESULTS
1DC15E	DIV II 125VDC DISTRIBUTION BUS 1B	(14) Distribution Panels and Automatic Transfer Switches	YES	N/A	L1R15 Refueling Outage	IR 01425132 W/O 414193	
1DC003E	250V DC BATTERY CHARGER NO. 1	(16) Battery Chargers & Inverters	YES	N/A	L1R15 Refueling Outage	IR 01425132 W/O 414193	
1DC16E	125V DC BATTERY CHARGER NO. 1B	(16) Battery Chargers & Inverters	YES	N/A	L1R15 Refueling Outage	IR 01425132 W/O 414193	
1DG02JA	1A DG A GENERATOR CONTROL PANEL	(20) Instrument and Control Panels	YES	N/A	9/13/2012	N/A	NO OTHER ADVERSE SEISMIC CONDITIONS
1DG03J	1A DG ENGINE CONTROL PANEL	(20) Instrument and Control Panels	YES	N/A	9/13/2012	N/A	NO OTHER ADVERSE SEISMIC CONDITIONS
1H13-P601	ASSY - PANEL, EMERG CORE COOL SYST	(20) Instrument and Control Panels	YES	N/A	9/14/2012	N/A	NO OTHER ADVERSE SEISMIC CONDITIONS
1H13-P602	ASSY - PANEL, RWCU/RX RECIRC CONTROL	(20) Instrument and Control Panels	YES	N/A	9/14/2012	N/A	NO OTHER ADVERSE SEISMIC CONDITIONS

COMPONENT ID	DESCRIPTION	EQUIPMENT CLASS	ACCESSIBLE (Y/N)	IF NOT ACCESSIBLE, WHY?	MILESTONE COMPLETION	TRACKING NUMBER (IR NUMBER)	STATUS / INSPECTION RESULTS
1PL33J	B/C RHR PUMP ROOM VENTILATION PANEL	(20) Instrument and Control Panels	YES	N/A	L1R15 Refueling Outage	IR 01425132 W/O 414193	
1PL34J	A RHR PUMP ROOM VENTILATION PANEL	(20) Instrument and Control Panels	YES	N/A	L1R15 Refueling Outage	IR 01425132 W/O 414193	
1PL35J	LPCS PUMP ROOM VENTILATION PANEL	(20) Instrument and Control Panels	YES	N/A	L1R15 Refueling Outage	IR 01425132 W/O 414193	

F

Peer Review Report

This appendix includes the Peer Review Team's report, including the signed Peer Review Checklist for SWEL from Appendix F of the EPRI guidance document. (Ref. 1)

Peer Review Report
for
Near Term Task Force (NTTF) Recommendation 2.3
Seismic Walkdown Inspection
of
LaSalle County Generating Station Unit 1

October 19, 2012

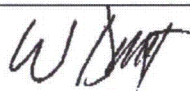
Prepared by Peer Reviewers

Walter Djordjevic (Team Leader)

Todd A. Bacon

Tribhawan K. Ram

Walter Djordjevic



October 19, 2012

Peer Review Team Leader Certification Signature

Date

1 Introduction

1.1 OVERVIEW

This report documents the independent peer review for the Near Term Task Force (NTTF) Recommendation 2.3 Seismic Walkdowns performed by Stevenson & Associates (S&A) for Unit 1 of the LaSalle County Generating Station (LCGS). The peer review addresses the following activities:

- Review of the selection of the structures, systems, and components, (SSCs) that are included in the Seismic Walkdown Equipment List (SWEL).
- Observation of the seismic walkdowns on August 29, 2012 and adherence to the Seismic Walkdown Guidance (SWG)¹ by Mr. Todd Bacon.
- Review of a sample of the checklists prepared for the Seismic Walkdowns & Area Walk-bys.
- Review of any licensing basis evaluations.
- Review of the decisions for entering the potentially adverse conditions into the plant's Corrective Action Plan (CAP).
- Review of the final submittal report.

The peer reviewers for LCGS Unit 1 are Messrs. Walter Djordjevic, Todd A. Bacon, and Tribhawan K. Ram, all of S&A. Mr. Djordjevic is designated the Peer Review Team Leader. None of the aforementioned engineers is involved in the seismic walkdown inspection process so that they can maintain their independence from the project. Mr. Djordjevic is an advanced degree structural engineer, has over thirty years of nuclear seismic experience and has been trained as a Seismic Capability Engineer (EPRI SQUG training), EPRI IPEEE Add-on, Seismic Fragility and Seismic Walkdown Engineer (SWE). Mr. Bacon is a civil-structural engineer with over thirty years of nuclear engineering experience and received the Seismic Walkdown Engineer (SWE) training. Mr. Ram is an advanced degree nuclear engineer with over twenty-eight years of

¹ EPRI Technical Report 1025286, *Seismic Walkdown Guidance for Resolution of Fukushima Near-Term Task Force Recommendation 2.3: Seismic*, dated June 2012.

nuclear power plant experience. Mr. Djordjevic, as Peer Review Team Leader, has participated in all phases of the peer review process for LCGS Unit 1.

The SWEL development was performed by Mr. Tony Perez of S&A. Revision 0 of the peer review determined that a SWEL 2 list should have been created to include Seismic Category I isolation valves. Accordingly, such a list was generated. Revision 1 of the SWEL Peer Review resulted in no additional findings. The completed Revision 1 of the SWEL Peer Review checklist is attached to this document. The discussion for the SWEL development peer review is found in Section 2.

The peer review of the seismic walkdown inspection started on August 29, 2012 with a peer check of the actual walkdowns for Unit 1. Mr. Bacon joined the walkdown team for a portion of the day's planned walkdowns to observe the conduct of walkdowns and adherence to the SWG. Interviews were conducted by Messrs. Bacon and Djordjevic with the SWE inspection team after review of a sample of the Unit 1 Seismic Walkdown Checklists (SWCs) and the Area Walk-by Checklists (AWCs) to ascertain procedural compliance with the SWG. The interviews were conducted with Mr. Dave Carter of the SWE inspection team on October 8, 2012, and Messrs. Jim Griffith, Mark Etre and Mike Wodarczyk on October 9, 2012. The discussion of the sample SWCs and AWCs is provided in Section 3.

No issues were identified which challenged the current licensing basis.

2 Peer Review - Selection of SSCs

2.1 PURPOSE

The purpose of this section is to describe the process to perform the peer review of the selected structures, systems, and components, (SSCs) that were included in the Seismic Walkdown Equipment List (SWEL).

This section documents the Peer Review – Selection of SSCs performed for LaSalle County Generating Station – Unit 1.

2.2 PEER REVIEW ACTIVITY – SELECTION OF SSCs

The guidance in EPRI Technical Report 1025286, *Seismic Walkdown Guidance for Resolution of Fukushima Near-Term Task Force Recommendation 2.3: Seismic*, dated June 2012, Section 3: Selection of SSCs was used as the basis for this review.

This peer review was based on reviews of the following documents:

- Seismic Walkdown Interim Report, Revisions 0 and 1

This peer review was based on interviews with the following individual who was directly responsible for development of the SWEL:

- Mr. Tony Perez, Senior Mechanical Engineer

This peer review utilized the checklist shown in the SWG, Appendix F: Checklist for Peer Review of SSC Selection.

For SWEL 1 development, the following actions were completed in the peer review process:

- Verification that the SSCs selected represented a diverse sample of the equipment required to perform the following five safety functions:
 - Reactor Reactivity Control (RRC)
 - Reactor Coolant Pressure Control (RCPC)
 - Reactor Coolant Inventory Control (RCIC)
 - Decay Heat Removal (DHR)
 - Containment Function (CF)

This peer review determined that the SSCs selected for the seismic walkdowns represent a diverse sample of equipment required to perform the five safety functions.

- Verification that the SSCs selected include an appropriate representation of items having the following sample selection attributes:
 - Various types of systems
 - Major new and replacement equipment
 - Various types of equipment
 - Various environments
 - Equipment enhanced based on the findings of the IPEEE

- Risk insight consideration

This peer review determined that the SSCs selected for the seismic walkdowns include a sample of items that represent each attribute/consideration identified above.

For SWEL 2 development, the following actions were completed in the peer review process:

- Verification that spent fuel pool related items were considered and appropriately added to SWEL 2.

This peer review determined that spent fuel pool related items were given appropriate consideration. Portions of the spent fuel pool cooling system are classified as Seismic Category I (Class I) and SWEL 2 was sufficiently populated as appropriate.

- Verification that appropriate justification was documented for spent fuel pool related items that were not added to the SWEL 2.

This peer review determined that an appropriate level of justification was documented for those items related to the spent fuel pool that were not added to SWEL 2.

2.0 PEER REVIEW FINDINGS – SELECTION OF SSCs

This peer review found that the process for selecting SSCs that were added to the SWEL was consistent with the process outlined in the SWG Section 3: Selection of SSCs.

Revision 1 of the peer review checklist is attached to this document. Revision 0 of the peer review checklist determined that a SWEL 2 list should have been created to include Seismic Category I isolation valves. Accordingly, such a list was generated. There were no additional findings for the Revision 1 Peer Review checklist.

2.0 RESOLUTION OF PEER REVIEW COMMENTS – SELECTION OF SSCs

All comments requiring resolution were incorporated prior to completion of this peer review.

2.0 CONCLUSION OF PEER REVIEW – SELECTION OF SSCs

This peer review concludes that the process for selecting SSCs to be included on the seismic walkdown equipment list appropriately followed the process outlined in the SWG, Section 3: Selection of SSCs. It is further concluded that the SWEL sufficiently represents a broad population of plant Seismic Category I (Class I) equipment and systems to meet the objectives of the NRC 50.54(f) letter.

3 Review of Sample Seismic Walkdown & Area Walk-Bys Checklists

3.1 OVERVIEW

A peer review of the SWCs and AWCs was performed after which an interview was conducted by Messrs. Djordjevic and Bacon with the SWE inspection team in accordance with the SWG requirements on October 8 and 9, 2012. The SWE trained walkdown engineers were Messrs. Dave Carter, Jim Griffith, Mark Etre and Mike Wodarczyk.

3.2 SAMPLE CHECKLISTS

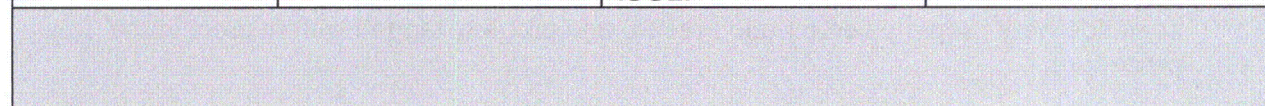
Table 3-1 lists the SWC and AWC samples which represent approximately 22% of the SWCs and 23% of the AWCs. The sample includes the equipment inspected during the peer review and other equipment items from other classes to introduce diversity to the sampling procedure.

Table 3-1: Table of SWC and AWC Samples from Seismic Walkdown Inspection for Unit 1

Equipment Identification	Equipment Class	Walkdown Item	Observations
0VC01CA	10 - Air Handlers	ASS'Y - FAN, CR HVAC SUPPLY 0A	No concern
1AP06E-9	4 - Transformers	TRANSFORMER 136X	No concern
1AP21E	2 - Low Voltage Switchgear	DIV II 480V SWGR 136X	No concern
1AP71E	1 - Motor Control Centers	DIV I 480V MCC 135X-1	No concern
1C11-D001001	0 - Other	CONTROL UNIT CRD HYDRAULIC 26-59	Open s-hooks - IR 1406922 written
1C11-D3403-125	21 - Tanks and Heat Exchangers	CRD HCU SCRAM WATER ACCUMULATOR	Open s-hooks - IR 1406922 written
1C41-A001	21 - Tanks and Heat Exchangers	STANDBY LIQUID CONTROL SOLUTION TANK	No concern
1C41-C001A	5 - Horizontal Pump	A STANDBY LIQUID CONTROL PUMP	No concern

Equipment Identification	Equipment Class	Walkdown Item	Observations
1DC003E	16 – Battery Chargers and Inverters	250V DC BATTERY CHARGER NO. 1	No concern
1DC01E	15 - Batteries on Racks	250VDC BATTERY	No concern
1DG011	8 - Motor-Operated and Solenoid-Operated Valves	1A DG COOLING WTR STRAINER BACKWASH VALVE	No concern
1DG01K	17 - Engine-Generators	1A DIESEL GENERATOR	No concern
1DG035	8 - Motor-Operated and Solenoid-Operated Valves	LPCS PUMP MOTOR COOLER UPSTRM INLET VALVE	No concern
1E12-B001B	21 - Tanks and Heat Exchangers	B RHR HEAT EXCHANGER	No concern
1E12-F051B	7 - Fluid-Operated Valves	B RHR HX RCIC STEAM INLET PRESS CONT VALVE	IR 1412094 issued to address hairline crack in instrument gage.
1E21-C001	6 - Vertical Pumps	LPCS PUMP	No concern
1E22-C001	6 - Vertical Pumps	HI PRESS CORE SPRAY PUMP	No concern
1E22-N004	18 - Instruments on Racks	HPCS PUMP DSCH PRESS	No concern
1E51-C001	5 - Horizontal Pump	RCIC PUMP	No concern
1FC133	0 - Other	FUEL POOL RHR SUCT SUPPLY HEADER DRAIN VALVE	No concern
1H13-P601	20 - Instrumentation and Control Panels and Cabinets	ASSY - PANEL, EMERG CORE COOL SYST	No concern
1HG001A	8 - Motor-Operated and Solenoid-Operated Valves	H2 RECOMB 1HG01A U-1 DW SUCT. VLV	No concern
1HG01A	9 - Fans	ASSY - BLOWER, H2 RECOMBINER	No concern

Equipment Identification	Equipment Class	Walkdown Item	Observations
1PL35J	20 - Instrumentation and Control Panels and Cabinets	LPCS PUMP ROOM VENTILATION PANEL	No concern
1VQ031	7 - Fluid-Operated Valves	SUP POOL VENT/PURGE OULET UPSTREAM ISOL.	No concern



Area Walkdown Description	Observations
Area Walk-by 1-05; RB EI. 761'; near CRD HCU 34-03, -42-59	Lights with open S-hooks; IR 1406922 written.
Area Walk-by 1-06; RB EI. 761'; near CRD HCU 26-59, -30-03	Lights with open S-hooks; IR 1406922 written.
Area Walk-by 2-03; RB EI. 673'; near 1E22-6001, -N004, -N005	Ladder storage corrected during walk-by.
Area Walk-by 3-09; RB EI. 710'; near 1VQ031, -032	No concern
Area Walk-by 3-16; RB EI. 694'; near 1E12-F036B	No concern
Area Walk-by 3-21; AB EI. 731'	No concern
Area Walk-by 3-26; DG EI. 710' near 1D0005T	No concern
Area Walk-by 3-31; Control Room near 1H13-P601, P602	No concern
Area Walk-by 4-14; RB EI. 694', near 1DG035, 1PL35J	No concern
Area Walk-by 4-18; RB EI. 674'	No concern

3.3 EVALUATION OF FINDINGS

There were no findings that challenged the licensing basis. A review of Table 3-1 of the previous section shows no concerns or findings in the sampling of the SWCs and AWCs. Tables 5-2 and 5-3 of the Seismic Walkdown Report (final submittal report) provide the lists of the issues encountered for the equipment seismic walkdowns and area walk-bys.

The scaffolding and seismic housekeeping procedures were reviewed by the SWEs in order to gain a full understanding of the plant practices in regard to those procedures. There were no seismic concerns noted in Unit 1 with regard to scaffold erection. The scaffolds were properly tied off and braced, and properly tagged with respect to the procedure.

A few lighting fixtures with open S-hooks were found in the plant; however, none of them resulted in any seismic issues as evidenced by reviewing the IRs written (see Tables 5-2 and 5-3) during these walkdowns.

Loose fasteners were observed in a few instances but in all cases were determined not to be seismic concerns.

Concerning seismic housekeeping there were only a few minor items found throughout the plant. It can be concluded that LCGS Unit 1 implements their seismic housekeeping program consistently and to a very high standard.

The peer reviewers consider the judgments made by the SWEs to be appropriate and in concurrence with the SWG.

4 Review of Licensing Basis Assessments

Tables 5-2 and 5-3 of the Seismic Walkdown Report provide a list of the issues encountered during the Unit 1 seismic walkdown inspections for the SWEL components and how they were addressed. If a LCGS IR request was generated it is shown in the Tables. Interviews were conducted by Messrs. Djordjevic and Bacon with the SWE inspection team on October 8 and 9, 2012 to discuss the issues identified. No potentially adverse seismic conditions were identified that resulted in a seismic licensing basis evaluation. The peer reviewers concur with this outcome.

5 Review Final Submittal Report & Sign-off

The entire final submittal report has been reviewed by Messrs. W. Djordjevic, T. K. Ram and T. A. Bacon and found to meet the requirements of the EPRI 1025286 – Seismic Walkdown Guidance. The Peer Review determined that the objectives and requirements of the 50.54(f) letter² are met. Further, the efforts completed and documented within the final submittal report are in accordance with the EPRI guidance document.

² NRC Letter to All Power Reactor Licensees et al., “Request for Information Pursuant to Title 10 of the Code of Federal Regulations 50.54(f) Regarding Recommendation 2.1, 2.3, and 9.3, of the Near-Term Task Force Review of Insights from the Fukushima Dai-ichi Accident,” Enclosure 3, “Recommendation 2.3: Seismic,” dated March 12, 2012

Peer Review Checklist for SWEL**Instructions for Completing Checklist**

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

-
1. Were the five safety functions adequately represented in the SWEL 1 selection? Y N
Appropriate equipment has been included to maintain the five safety functions: RRC, DHR, RCIC, RCPC, and CF
-
2. Does SWEL 1 include an appropriate representation of items having the following sample selection attributes:
- a. Various types of systems? Y N
Various system types (e.g., EDG, EDG Oil Transfer, RHR, RHR Service Water, CS, Batteries, Battery Chargers, Low and Med Vol Switchgear and MCCs) have been included.
- b. Major new and replacement equipment? Y N
None as explained in the interim report.
- c. Various types of equipment? Y N
The equipment represents all required 21 types except 11 and 13. The screenings #1, #2, and #3 resulted in no equipment in the latter two categories.
- d. Various environments? Y N
Appropriate environments (e. g., Reactor, DW, DG, and Auxiliary buildings) have been included.
- e. Equipment enhanced based on the findings of the IPEEE (or equivalent) program? Y N
None as explained in the interim report.

Peer Review Checklist for SWEL

f. Were risk insights considered in the development of SWEL 1? Y N
Risk quantifications (F-V and RAW) provided in the "Comments" column

3. For SWEL 2:

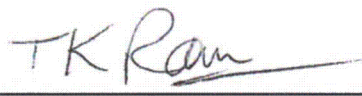
a. Were spent fuel pool related items considered, and if applicable included in SWEL 2? Y N
Yes. There are no items associated with SFP rapid draindown.

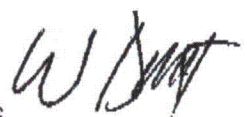
b. Was an appropriate justification documented for spent fuel pool related items not included in SWEL 2? Y N
Provided in the submittal report

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

The previous peer review checklist had indicated a need for creating SWEL 2 to incorporate Seismic Category I valves used to isolate RHR system from SFP system. Based on that review, a SWEL 2 list was created.

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

Peer Reviewer #1: TK Ram (Lasalle Unit 1)  Date: 9/27/2012

Peer Reviewer #2: Walter Djordjevic  Date: 10/8/2012