

ATTACHMENT (1)

SUPPLEMENTAL SEISMIC WALKDOWN REPORT

ATTACHMENT 1

SEISMIC WALKDOWN REPORT

Table of Contents

| | |
|--|------------|
| List of Tables | i |
| Executive Summary..... | ii |
| 1 Introduction | 1-1 |
| 1.1 Background | 1-1 |
| 1.2 Approach..... | 1-1 |
| 2 Personnel Qualifications..... | 2-1 |
| 2.1 Overview..... | 2-1 |
| 2.2 Walkdown Personnel | 2-1 |
| 3 Selection of SSCs..... | 3-1 |
| 3.1 Overview..... | 3-1 |
| 3.2 Selection of Alternate Components | 3-1 |
| 4 Seismic Walkdowns, Area Walk-By's and Internal Inspections..... | 4-1 |
| 4.1 Overview..... | 4-1 |
| 4.2 Seismic Walkdowns..... | 4-1 |
| 4.3 Area Walk-Bys..... | 4-2 |
| 4.4 Electrical Cabinet Internal Inspections | 4-2 |
| 5 Licensing Basis Evaluations | 5-1 |
| 6 Peer Review..... | 6-1 |
| 6.1 Peer Review Introduction..... | 6-1 |
| 6.2 Review of sample checklist & area walk-bys | 6-1 |
| 6.3 Review of licensing basis evaluations..... | 6-4 |
| 6.4 Peer review Team Process Summary | 6-4 |
| 6.5 Review of final submittal Report & Sign-off..... | 6-4 |

ATTACHMENT (1)
SUPPLEMENTAL SEISMIC WALKDOWN REPORT

Table of Contents (cont'd.)

| | | |
|----------|---|------------|
| <i>7</i> | <i>References.....</i> | <i>7-1</i> |
| <i>A</i> | <i>Project Personnel Certificates.....</i> | <i>A-1</i> |
| <i>B</i> | <i>Seismic Walkdown Checklists (SWCs)</i> | <i>B-1</i> |
| <i>C</i> | <i>Area Walk-By Checklists (AWCs).....</i> | <i>C-1</i> |
| <i>D</i> | <i>SWC's for Supplemental Internal Inspections of Electrical Cabinets</i> | <i>D-1</i> |
| <i>E</i> | <i>Plan for Future Seismic Walkdown of Inaccessible Equipment</i> | <i>E-1</i> |

ATTACHMENT (1)
SUPPLEMENTAL SEISMIC WALKDOWN REPORT

List of Tables

| | |
|---|-----|
| Table 2-1. Personnel Included in NTTF 2.3 Supplemental Walkdown..... | 2-1 |
| Table 3-1. Selection of Alternate Components Based on Plant Conditions..... | 3-2 |
| Table 4-1. Ginna Supplemental Area Walk-By Designation | 4-2 |
| Table 4-2. Table of Potentially Degraded, Nonconforming or Unanalyzed Conditions for Equipment Items at Ginna Identified During Supplemental Walkdowns..... | 4-4 |
| Table 4-3. Table of Potentially Degraded, Nonconforming or Unanalyzed Conditions for Area Walk-bys at Ginna Identified During Supplemental Walkdowns..... | 4-5 |
| Table 4-4. Table of Potentially Degraded, Nonconforming or Unanalyzed Conditions for Supplemental Internal Inspection of Electrical Equipment | 4-6 |
| Table 6-1. Table of Peer Review Comments for SWC's | 6-2 |
| Table 6-2. Table of Peer Review Comments for AWC's | 6-3 |
| Table B-1. Summary of Seismic Walkdown Checklists Completed by Ginna Personnel (SWEL 1)..... | B-1 |
| Table B-2. Summary of Seismic Walkdown Checklists Completed by Ginna Personnel (SWEL 2)..... | B-2 |
| Table C-1. Summary of Area Walk-By Checklists Completed by Ginna Personnel..... | C-1 |
| Table D-1. Summary of Supplemental Internal Inspections Completed by Ginna | D-1 |
| Table E-1. Summary of Equipment Subject to Supplemental Internal Inspections..... | E-1 |
| Table E-2. Summary of Inaccessible Equipment – SWEL 2..... | E-3 |

ATTACHMENT (1)

SUPPLEMENTAL SEISMIC WALKDOWN REPORT

Executive Summary

This Supplemental Seismic Walkdown Report documents walkdowns performed at R.E. Ginna Nuclear Power Plant for components that were not accessible during the initial walkdowns and were not included in the Response to 10 CFR 50.54(f) Request for Information, Recommendation 2.3, Seismic [Ref. 3]. These seismic walkdowns did not identify any adverse seismic conditions that required licensing basis evaluations. Identified issues such as internal cabinet cleanliness and missing internal fasteners were entered into the station's corrective action program.

Four (4) Seismic Walk Down Equipment List (SWEL) 1 electrical components remain deferred as they require specific maintenance configurations for the walkdowns. Table E-1 lists these components and provides the two dates we plan to provide the walkdown results.

Fourteen SWEL 2 spent fuel pool rapid drain-down components will not be inspected because they are in locked high radiation areas. Appendix E of this report provides operational considerations that would mitigate the consequences from a failure of one of these components and Table E-2 lists the components.

EPRI Technical Report 1025286 was used to perform the engineering walkdowns and evaluations described in this report. In accordance with EPRI Technical Report 1025286, the following topics are addressed in the subsequent sections of this report.

- Personnel Qualifications
- Selection of Systems, Structures , and Components (SSCs)
- Seismic Walkdowns and Area Walk-Bys
- Seismic Licensing Basis Evaluations
- Peer Review

Personnel Qualifications

Personnel qualifications are discussed in Section 2 of this report. The personnel who performed the key activities required to fulfill the objectives and requirements of the 50.54(f) letter are qualified and trained as required in EPRI Technical Report 1025286 [Ref. 1]. These personnel are responsible for:

- Performing the Seismic Walkdowns and Area Walk-Bys,
- Performing the seismic licensing basis evaluations, as applicable,
- Performing the peer reviews

Selection of SSCs

The selection of SSCs was completed and documented within Reference 3. This supplemental report documents the substitution of alternate components that were selected by the SWE's when the original component was unavailable or inaccessible due to changing plant conditions.

ATTACHMENT (1)

SUPPLEMENTAL SEISMIC WALKDOWN REPORT

Seismic Walkdowns and Area Walk-Bys

Section 4 of this report documents the equipment Seismic Walkdowns, Area Walk-Bys and Internal Inspections. The supplemental seismic walkdowns for Ginna were performed during the Fall of 2012 during power operation and during the plant's 37th refueling outage. The walkdown team consisted of two Seismic Walkdown Engineers (SWE) from the station's Design Engineering group. Operations/Maintenance personnel were also available and called upon as needed.

The seismic walkdowns focused primarily on the seismic adequacy of the SWEL items and on identifying:

- Adverse anchorage conditions
- Adverse seismic spatial interactions
- Other adverse seismic conditions (e.g., degradation)

Area Walk-Bys were conducted in each area of the plant that contained an item on the SWEL. The purpose of an Area Walk-by is to identify potentially adverse seismic conditions associated with other SSCs located within the vicinity of a SWEL item. There were 8 Area Walk-bys completed for Ginna with no areas remaining. The key examination factors considered in the Area Walk-Bys included:

- Anchorage conditions (if visible without opening equipment)
- Significantly degraded equipment in the area
- Potential seismic interactions
- A visual assessment (from the floor) of cable/conduit raceways and HVAC ducting (e.g., condition of supports or fill conditions of cable trays)
- Potentially adverse interactions that could cause flooding/spray and fire in the area
- Miscellaneous other conditions including conformance of temporary installations to general seismic housekeep procedures

The seismic walkdown team inspected the remaining 18 of the 111 components on the SWEL 1 and 5 of the 104 components on the SWEL 2. All components in Containment have been inspected. Anchorage verification was completed for all components as specified in Reference 3. A supplemental inspection of the A Spent Fuel Pool Heat Exchanger (Component ID EAC14) anchorage was also completed to verify the anchorage configuration. The Refueling Water Storage Tank (Component ID: TSI01) anchorage was inspected, closing the open item noted in Reference 3.

Ginna was required to complete a supplemental internal inspection of 19 cabinets. The walkdown team completed supplemental internal inspections on 15 of those electrical components. Four more components will be inspected on an as-scheduled basis in conjunction with maintenance.

During the Ginna walkdown, there were no adverse seismic conditions discovered that challenged the licensing basis for the plant. No formal Licensing Basis Evaluations were performed.

ATTACHMENT (1)

SUPPLEMENTAL SEISMIC WALKDOWN REPORT

Under this supplemental inspection an additional Seven (7) Condition Reports (CRs) were issued to address conditions such as internal cabinet cleanliness and missing internal fasteners. These issues were identified in the Seismic Walkdown Checklists (SWCs), and Area Walk-by Checklists (AWCs) of this report. Disposition of the identified issues was completed within the station's corrective action process.

SWCs and AWCs were completed for all components and areas that were walked down. SWCs for deferred items will be completed at the time of the follow up walkdowns. Any SWCs or AWCs that need to be revised as a result of the deferred inspections will be updated in a follow-up report.

Seismic Licensing Basis Evaluations

EPRI Technical Report 1025286, Section 5: Seismic Licensing Basis Evaluation provides a detailed process to perform and document seismic licensing basis evaluations of SSCs when potentially adverse seismic conditions are identified during the equipment Seismic Walkdowns or Area Walk-Bys. The process provides a means to identify, evaluate and document how the identified potentially adverse seismic condition meets a station's seismic licensing basis without entering the condition into a station's Corrective Action Program (CAP). Further, the process directs that if a condition cannot be readily shown to meet the seismic licensing basis, then the identified condition should be entered into the station's CAP where it will be determined that the condition does or does not meet the seismic licensing basis.

Constellation Energy Group/Ginna staff did not utilize the process provided in EPRI Technical Report 1025286 to perform and document seismic licensing bases evaluations of SSCs with potentially adverse seismic condition. Instead, all questionable conditions identified by the SWEs during the equipment Seismic Walkdowns or Area Walk-Bys were entered into the station CAP to be further evaluated and addressed as required. Therefore, no seismic licensing basis evaluations were completed in accordance with the process documented in EPRI Technical Report 1025286, Section 5 [Ref. 1]: Seismic Licensing Basis Evaluation. Tables 4-2, 4-3, and 4-4 of Section 4 of this report provide a summary of the conditions identified during the Seismic Walkdowns and Area Walk-Bys.

Peer Reviews

A peer review team consisting of two qualified individuals, one of whom has seismic engineering experience as it applies to nuclear power plants was assembled and peer reviews were performed in accordance with EPRI Technical Report 1025286, Section 6: Peer Reviews [Ref. 1]. The Peer Review process included the following activities:

- Review of the Seismic Walkdown Checklists (SWCs) and Area Walk-Bys (AWCs)
- Review of Licensing basis evaluations, as applicable
- Review of the decisions for entering the potentially adverse conditions into the CAP process
- Review of the submittal report
- Provide a summary report of the peer review process in the submittal report

ATTACHMENT (1)
SUPPLEMENTAL SEISMIC WALKDOWN REPORT

Section 6 of this report contains the Peer Review summary report. The Peer Review determined that the objectives and requirements of the 50.54(f) letter [Ref. 2] are met. Further, the efforts completed and documented within this report are in accordance with EPRI Technical Report 1025286.

Summary

In summary, the supplemental seismic walkdowns have been completed at R.E. Ginna Nuclear Power Plant in accordance with the NRC-endorsed walkdown methodology. All potentially degraded, nonconforming, or unanalyzed conditions identified as a result of the seismic walkdowns have been entered into the corrective action program to be addressed. Remaining deferred walkdown items and expected completion dates are outlined in Appendix E.

ATTACHMENT (1)
SUPPLEMENTAL SEISMIC WALKDOWN REPORT

1

Introduction

1.1 BACKGROUND

In response to the Near-Term Task Force (NTTF) Recommendation 2.3 and 10CFR50.54(f) letter, Ginna performed seismic walkdowns in accordance with EPRI Technical Report 1025286. Results of the walkdowns are documented within Reference 3. The walkdown team was unable to inspect some equipment due to plant configuration and personnel qualifications. This supplemental report documents completion of most of the required seismic walkdowns for inaccessible equipment and equipment required to be opened for inspection.

1.2 APPROACH

In accordance with the EPRI Seismic Walkdown Guidance [Ref. 1] the following topics are addressed in this supplemental report:

- Personnel Qualifications
- Selection of SSC's
- Seismic Walkdowns, Area Walk-Bys, and Supplemental Internal Inspections
- Licensing Basis Evaluations
- Peer Review

ATTACHMENT (1)
SUPPLEMENTAL SEISMIC WALKDOWN REPORT

2

Personnel Qualifications

2.1 OVERVIEW

This section of the report identifies the personnel that participated in the supplemental inspections for the NTTF 2.3 Seismic Walkdown effort. A description of the responsibilities of each Seismic Walkdown participant's role(s) is provided in Section 2 of the EPRI Seismic Walkdown Guidance [Ref. 1]. Note that for this report, the only roles required were for the walkdown team, licensing basis reviewer, and peer reviewer. Personnel responsible for equipment selection and IPEEE review are noted within Section 3 of Reference 3.

2.2 WALKDOWN PERSONNEL

Table 2-1 below summarizes the names and corresponding roles of personnel who participated in the NTTF 2.3 Seismic Walkdown effort.

| Table 2-1 Personnel Included in NTTF 2.3 Supplemental Walkdown | | | | |
|---|------|---------------------------|--------------------------|----------------|
| Personnel | Role | Seismic Walkdown Engineer | Licensing Basis Reviewer | Peer Reviewer |
| Mr. Jeffrey Gardiner | | X | X | |
| Mr. Francis Peterson | | X | X | |
| Mr. Mark Fitzsimmons | | | | X ¹ |
| Mr. John Traynor | | | | X |

Notes:

1. Peer Review Team Leader.

The following includes a short synopsis of each individual's qualifications.

Jeffrey Gardiner: Mr. Gardiner is an engineer in the Nuclear Engineering Services group at the R.E. Ginna Nuclear Power Plant. Mr. Gardiner is a fully qualified Civil/Seismic engineer and has worked in the Mechanical Design Group at Ginna for over 3 years. During this time Mr. Gardiner has been involved in the seismic analysis of new and replacement components (mechanical and electrical), the design and implementation of safety-related modifications and the evaluation of "as-found" degraded conditions at the site. Mr. Gardiner is knowledgeable in the site seismic licensing basis, and is a qualified to perform and review 50.59 Screens and Applicability Determinations. For the last 6 months Mr. Gardiner has

ATTACHMENT (1)

SUPPLEMENTAL SEISMIC WALKDOWN REPORT

served as the seismic engineer for the site's Fukushima Response Team. Mr. Gardiner has a BSCE in Civil Engineering and an MSCE in Civil Engineering with concentrations in Structural and Seismic Engineering from the University at Buffalo. He has passed the E.I.T. in New York and has completed the 5-day SQUG Walkdown Screening and Seismic Evaluation Training Course.

Francis Peterson: Mr. Peterson is an engineer in the Nuclear Engineering Services group at the R.E. Ginna Nuclear Power Plant. Mr. Peterson is a fully qualified Mechanical/Seismic engineer and has worked in the Mechanical Design Group at Ginna for over 5 years. During this time Mr. Peterson has been involved in the design and analysis of piping systems including piping and component supports. Mr. Peterson is an owner of the site Snubber Inspection and Testing Program and since 2008 has lead the preparation and implementation of all snubber testing, replacement and failure analysis. Mr. Peterson familiar with the site seismic licensing basis and is qualified to perform and review 50.59 Screens and Applicability Determinations. Mr. Peterson has a BSME in Mechanical Engineering from the University at Buffalo and has completed the 5-day SQUG Walkdown Screening and Seismic Evaluation Training Course. Mr. Peterson is a member on the ASME subcommittee for the Qualification of Active Mechanical Equipment Used in Nuclear Power Plants (QME) Section QDR, Qualification of Dynamic Restraints.

Mark B. Fitzsimmons: Mr. Fitzsimmons is a Principal Engineer in the Nuclear Engineering Services (NES) group at the R.E. Ginna Nuclear Power Plant. Having graduated with a Bachelor of Science degree in Civil and Environmental Engineering from Clarkson University he has been a member of the technical staff for over 32 years. SQUG walk down training was completed in the late 90s and Mr. Fitzsimmons completed the SQUG and IPEEE outlier modification designs at Ginna in addition to being a SQUG Seismic Capability Engineer (SCE). Mr. Fitzsimmons was structural lead on a number of major modification projects including I&E 80-11 Block Walls, NUREG 0612 Heavy Loads, USI A46, SEP Topic for Wind and Tornado, S/G Replacement, Reactor Vessel Closure Head Replacement and Independent Spent Fuel Storage Installation. As part of the NES Civil and Mechanical design group he provides structural and seismic review support for multidiscipline engineering modifications, is experienced in large construction efforts, has performed field walk downs, industry INPO assist visits on rigging and handling, and is a member of ASME "Cranes for Nuclear Facilities" committee. Mr. Fitzsimmons is a licensed Professional Engineer in the state of New York.

John Traynor: Mr. Traynor is a Sr. Project Manager – Assessments/Licensing Support with 35 years of experience in commercial nuclear power. He is a former licensed Senior Reactor Operator (SRO) at San Onofre Unit 1 and was a Senior Licensed Instructor at Seabrook and Ginna, where he also successfully completed the Senior Reactor Operator (SRO) Certification course. Subsequently he was a Lead Auditor with an Engineering focus, becoming the initial Director of Quality and Performance Improvement for UniStar Nuclear Energy. He provided and directed oversight of the Combined License Applications (COLA) for four potential US EPR sites and developed the first Quality Assurance Program Description approved by the NRC for a COLA. In 2010 Mr. Traynor worked at Ginna as Sr. Project Manager (Assessments), performing numerous assessment activities to assist with Ginna Site preparations for a NRC 95002 Inspection. Since March 2012 Mr. Traynor has been locating and evaluating Ginna's licensing basis documents in preparation for the development of the station's responses to the post Fukushima NRC Orders and Requests for Information.

ATTACHMENT (1)
SUPPLEMENTAL SEISMIC WALKDOWN REPORT

3

Selection of SSCs

3.1 OVERVIEW

Section 4.0 of reference 3 details the selection methodology utilized for this report and SWEL development. Selection of SSC's is outside the scope of work performed within this report.

3.2 SELECTION OF ALTERNATE COMPONENTS

Many of the components inspected under the supplemental walkdown are located in containment. The walkdown of components in containment was performed during the 37th refueling outage. This walkdown required coordination between maintenance in progress, required operating equipment, ALARA dose concerns, and availability of the walkdown team. In a few cases the selected component could not be inspected due to plant conditions. In these cases, the walkdown team inspected an alternate train component (same equipment class) credited with performing the same function. The potential substitution of components due to changing plant conditions was discussed with the peer review team during the preparation of section 4.0 of reference 3. Table 3-1 provides an evaluation of the original SWEL 1 component against the alternate components.

ATTACHMENT (1)
SUPPLEMENTAL SEISMIC WALKDOWN REPORT

| Table 3-1 Selection of Alternate Components Based on Plant Conditions | | | | |
|--|---|---|---|--|
| Equipment Class | Original SWEL1 Component | Alternate Component | Basis For Change | Evaluation |
| 7 | 270A, REACTOR COOLANT PUMP A SEAL AIR OPERATED OUTLET VALVE | 270B, REACTOR COOLANT PUMP B SEAL AIR OPERATED OUTLET VALVE | Scaffold construction in "A" RCP cubicle during walkdown | Acceptable, 270B is the alternate train AOV for the B RCP. Walk-by area 26b relocated to B RCP cubicle |
| 7 | 430, PRESSURIZER POWER OPERATED RELIEF VALVE | 431C, PRESSURIZER POWER OPERATED RELIEF VALVE | ALARA concerns, accessibility of 431C vs. 430, minimized stay time in area. | Acceptable, 431C is the alternate train PORV. Both are same model and located in the pressurizer cubicle (Walk by area 26a) |
| 7 | 434, PRESSURIZER RELIEF VALVE TO PRESSURIZER RELIEF TANK | 435, PRESSURIZER RELIEF VALVE TO PRESSURIZER RELIEF TANK | ALARA concerns, accessibility of 434 vs. 435, minimized stay time in area. | Acceptable, 435 is the alternate train pressurizer safety valve. Both are same model and located in the pressurizer cubicle (Walk by area 26a) |
| 10 | ACP02, CONTAINMENT RECIRCULATING FILTER AND COOLING UNIT A | ACP04, CONTAINMENT RECIRCULATING FILTER AND COOLING UNIT C | Fan and motor anchorage are within unit's surrounding ductwork. ACP02 inaccessible during walkdown | Acceptable, ACP02 and ACP04 are two of four containment recirculating fan cooler units. Both anchorages were enhanced under IPEEE program. |
| 19 | TT-2145, CRFC 1D AIR INLET TEMPERATURE TRANSMITTER | TT-2139, CRFC 1A AIR INLET TEMPERATURE TRANSMITTER | Easier access to inlet transmitter of A CRFC (ACP02). Supplemental ladder not required | Acceptable, TT-2139 and TT-2145 are two of four inlet temperature transmitters for containment recirculating fan cooler units. |
| 19 | TT-2146 CRFC 1D AIR OUTLET TEMP | TT-2140 CRFC 1A AIR OUTLET TEMP | Easier access to outlet transmitter of A CRFC, Rigging activities in progress over D CRFC during walkdown | Acceptable, TT-2140 and TT-2146 are two of four outlet temperature transmitters for containment recirculating fan cooler units. |

ATTACHMENT (1)

SUPPLEMENTAL SEISMIC WALKDOWN REPORT

4

Seismic Walkdowns, Area Walk-By's and Internal Inspections

4.1 OVERVIEW

Seismic Walkdowns and Area Walk-Bys were conducted by a two-person team of trained Seismic Walkdown Engineers, in accordance with the EPRI Seismic Walkdown Guidance, [Ref. 1]. Each engineer has completed the 5-day SQUG Walkdown Training course, a recognized equivalent to the NTF 2.3 Seismic Walkdown Training Course per section 2 of Reference 1.

4.2 SEISMIC WALKDOWNS

The components included in the Seismic Walkdowns are shown on the Ginna SWEL 1 in Attachment 3 of reference 3. A Seismic Walkdown Checklist (SWC) from Appendix C of [Ref. 1] was completed for each item on the SWEL, or an alternate component as previously described. Completed SWCs for the remaining deferred items will be added at a later date. Additionally, photos are included with most SWCs to provide a visual record of the walkdowns. Seismic Walkdowns were completed for the remaining 18 SWEL 1 items noted in table E-1 of Reference 3. Walkdowns were completed for 5 of the items on the SWEL 2 list (Table E-2 of Reference 3). Supplemental internal inspections were completed for 15 electrical components listed in Table E-3 of reference 3. A supplemental inspection of the A Spent Fuel Pool Heat Exchanger (Component ID EAC14) anchorage was also completed to verify the anchorage configuration. The Refueling Water Storage Tank (Component ID: TSI01) anchorage was inspected, closing the open item noted in Reference 3.

4.2.1 Anchorage Configuration Confirmation

As required by the EPRI Seismic Walkdown Guidance [Ref. 1] (pg. 4-3), 50% of the items (excluding line mounted equipment) were confirmed to have anchorage configurations consistent with plant documentation. The table of contents for Appendix B indicates the anchorage verification status for components as follows:

N/A: components that are line-mounted and/or are not anchored to the civil structure and therefore do not count in the anchorage confirmation total. It is noted that EPRI guidance document, Technical Report 1025286 [Ref. 1] includes Question 6 on the SWC's which asks, "Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?" and only provides for a Yes, No or Unknown answer choice. The answer for question 6 is therefore given a "Yes" when the answers to questions 1 to 5 on the check list are "N/A".

Y: components anchored to the civil structure which were selected for configuration verification to ensure the anchorage is consistent with plant configuration documentation. A minimum of 50% of anchored components are required to be verified in accordance with Technical Report 1025286

N: components anchored to the civil structure which were not selected for configuration verification.

ATTACHMENT (1)

SUPPLEMENTAL SEISMIC WALKDOWN REPORT

4.2.2 Issues Identification during Seismic Walkdowns

There were no issues identified by the SWEs during the equipment walkdowns that were ultimately judged to be a "Potentially Adverse Seismic Condition." Table 4-2 provides a summary of the issues identified during the Seismic Walkdowns.

4.3 AREA WALK-BYS

In accordance with Reference 1, Area Walk-by Checklists (AWC) were performed for each room or area within a large room (35 foot radius) which included one or more items on the SWEL. Table 4-1 provides a description of the area walk-bys performed for this report. Completed AWCs are included in Appendix C with attached photos. These include overhead areas and other equipment items not on the SWELs in the area. A total of 8 supplemental AWCs were completed to encompass the Auxiliary Building Sub-Basement, CVCS Waste Holdup Tank Room, Boric Acid Evaporator Room and Containment.

| Table 4-1: Ginna Supplemental Area Walk-By Designation | | |
|---|---|------------------|
| Area Number | Location | Elevation |
| 17 | Auxiliary Building CVCS Waste Holdup Tank Room | 235' |
| 25 | Auxiliary Building, Sub-Basement, RHR Pit | 219' |
| 26a | Containment, Pressurizer Cubicle | 274'-6" |
| 26b | Containment, B RCP/SG Cubicle | 252' |
| 26c | Containment, Basement Level, North | 235'-8" |
| 26d | Containment, Intermediate Level North-East | 253'-3" |
| 26e | Containment, Post Accident Charcoal Filter Plenum | 300'-4" |
| 27 | Auxiliary Building, Former Boric Acid Evaporator Room | 235' |

4.3.1 Issue Identification during Area Walk-bys

None of the issues identified by the SWEs during the area walk-bys were ultimately judged to be a "Potentially Adverse Seismic Condition" because in all cases it was concluded that the issue would not prevent the equipment from performing its safety-related function during or after a seismic event. Table 4-3 provides a summary of the issues identified in the Area Walk-bys.

4.4 ELECTRICAL CABINET INTERNAL INSPECTIONS

The initial walkdowns at Ginna were completed prior to NRC direction to perform internal inspections of electrical cabinets. During this supplemental inspection, Ginna personnel opened and inspected cabinets to the extent practical. Nearly all of the cabinets were inspected while energized. Per plant management direction, the team did not break the plane of the energized cabinets and was unable to move or relocate wires to enhance the inspection. As discussed in Appendix E of this report, some cabinet inspections will be deferred to a later date. Supplemental SWCs for internal inspections of the cabinets are located within Appendix D of this report.

ATTACHMENT (1)

SUPPLEMENTAL SEISMIC WALKDOWN REPORT

4.4.1 Supplemental Internal Inspection Checklists

Supplemental internal inspections of electrical cabinets are documented with Appendix D of this report. This internal inspection concentrated on adverse internal mounting and missing fasteners. Table 4-4 provides a summary of the issues identified during the supplemental internal inspections of electrical cabinets.

These checklists are denoted to identify that anchorage inspection and interaction effects were documented under previous seismic walkdowns. To avoid conflict, the checklists are left blank for criteria that have already been evaluated under the previous walkdown submitted within Reference 3.

Several of the supplemental internal inspections were performed during maintenance with the cabinets energized. Given the station personal protective equipment (PPE) requirements, the SWE's were limited from breaking the plane of the cabinet. Digital photography was utilized to maximize viewing angles, and minimize exposure to potential hazards. All photographs taken were reviewed by the SWE's to ensure the intent of the guidance was met. This criteria included identifying:

- **Degraded Internal Anchorage:** The internal anchors of cabinets are not credited in the anchorage analysis of these components. Internal anchors were not verified nor inspected.
- **Loose or missing fasteners, to the extent possible.** Wiring and internal components were not moved or relocated to verify underlying fastener condition in accordance with PPE and qualification requirements. Missing hardware was noted on modules typically removed from racks for servicing or replacement. An extent of condition walkdown was completed for similar racks.
- **Large, heavy components mounted to a cabinet not typically included by the original equipment manufacturer.** With the exception of the Main Control Board, internally mounted cantilevered equipment was minimal and of small mass. This equipment appeared to be installed by the original equipment manufacturer and was judged acceptable by the team. The cantilevered equipment of the Main Control Board was previously documented and evaluated as acceptable under the USI A-46 SQUG effort.
- **Cabinet doors or panels not latched or fastened:** All of the access doors are secured with a latching mechanism or lock. Cabinet doors do not contain large relays or other chatter sensitive equipment. Cabinet doors are lightly loaded.
- **Adverse Conditions:** With the exception of one cabinet (ABCHP1B/1CRC), electrical cabinets were free of foreign material.

AC and DC distribution panels, Class 14 components, are engineered to limit personnel access to live electrical components when the panel door is opened. To gain access to the remainder of the component would require disassembly of the panel cover and potential exposure of the team to critical safety-related loads. Given the external anchorage available on these components at Ginna, and the relative ruggedness of these components, the inspection at Ginna was limited to opening the installed panel doors. No further disassembly was performed.

ATTACHMENT (1)
SUPPLEMENTAL SEISMIC WALKDOWN REPORT

Table 4-2: Table of Potentially Degraded, Nonconforming or Unanalyzed Conditions for Equipment Items at Ginna Identified During Supplemental Walkdowns.

| Component ID | Potentially Adverse Seismic Condition | Action Taken to Address the Condition | Current Status |
|---------------------|---|---|---|
| SWEL 1 Items | | | |
| PCH01A | Three ladders leaning against wall adjoining pump. No ladder station provided. Potential for ladders to fall and impact pumps. Inspection team laid ladders on ground to remove interaction concern | CR-2012-006918 was issued. Team laid ladders down on ground to remove interaction concern. | Confirmed on 11/12/2012 that the ladders were properly staged against floor. Ginna has initiated work order C91044795 to install ladder racks to prevent recurrence |
| SWEL 2 Items | | | |
| EAC14 | Circumferential crack-like indication was identified on the East pedestal of the A SFP HX (EAC14). This crack is barely evident over applied paint. | CR-2012-008931 was initiated. Completed supplemental inspection of pedestal with senior civil engineer (Lead Peer Reviewer) | CR-2012-008931 documents evaluation of as-found condition considering crack is through entire pedestal. Based on anchor embedment depth the impact to the heat exchanger anchorage was determined to be negligible. |

ATTACHMENT (1)
SUPPLEMENTAL SEISMIC WALKDOWN REPORT

**Table 4-3: Table of Potentially Degraded, Nonconforming or Unanalyzed Conditions
for Area Walk-bys at Ginna Identified During Supplemental Walkdowns.**

| Area # | Component ID or Area Description | Potentially Adverse Seismic Condition | Action Taken to Address the Condition | Current Status |
|---------------|---|---|--|---|
| 4 | AB, RHR Sub-basement | Three ladders leaning against wall adjoining pump. No ladder station provided. Potential for ladders to fall and impact pumps. Inspection team laid ladders on ground to remove interaction concern | CR-2012-006918 was issued. Team laid ladders down on ground to remove interaction concern. | See table 4-2 for current status |
| 4 | AB, RHR Sub-basement | Corrosion on conduit supports for conduit routed along Sub-basement floor | CR-2012-008409 was issued. Team judged that conduit supports were still capable of performing their function | CR written, discussion with System Engineer indicated this condition was previously identified under CR-2011-001811. WO C91239307 was initiated to track replacement of conduit supports. |

ATTACHMENT (1)
SUPPLEMENTAL SEISMIC WALKDOWN REPORT

**Table 4-4: Table of Potentially Degraded, Nonconforming or Unanalyzed Conditions
for Supplemental Internal Inspection of Electrical Equipment**

| Component ID | Potentially Adverse Seismic Condition | Action Taken to Address the Condition | Current Status |
|--------------|---|---|--|
| SWEL 1 Items | | | |
| ABCHP1B/1CRC | Internal inspection of recently installed cabinet ABCHP1B/1CRC located several, spare, loose terminal deck labeling strips at the bottom of the cabinet. This condition is not consistent with electrical cabinet cleanliness and is considered foreign material. | CR-2012-008138 was issued. Electrical maintenance removed foreign material prior to closing cabinet | Current configuration acceptable. |
| Y1 | Terminal deck Y1-M is missing the support screw that fastens the terminal deck to the support framing. | CR-2012-008137 was issued, inspection during mode 6, refueling. | Discussion with I&C technician and supplemental walkdown indicated that this screw was mounting only for a terminal labeling strip. The terminal deck is still fastened to the frame by four additional screws. Deemed acceptable as-is. |
| R1 | Three controllers were missing one of the two module restraint screws in the rack. This impacts components LQ-426 (top screw), TT-405A-1, TM-405-0 (top screws missing). | CR-2012-008208 was issued, inspection during mode 6, refueling. | Mode restraint concern. Screws replaced, reference CR-2012-008557 |
| SA | Screw was found missing for module TM-630 in the SA rack | CR-2012-008208 was issued, inspection during mode 6, refueling. | Mode restraint concern. Screws replaced, reference CR-2012-008557 |

ATTACHMENT (1)
SUPPLEMENTAL SEISMIC WALKDOWN REPORT

**Table 4-4: Table of Potentially Degraded, Nonconforming or Unanalyzed Conditions
for Supplemental Internal Inspection of Electrical Equipment**

| Component ID | Potentially Adverse Seismic Condition | Action Taken to Address the Condition | Current Status |
|--------------|---|---|---|
| N/A | <p>Peer review team requested extent of condition be conducted given issues noted in CR-2012-008208. Ginna performed review of 34 cabinets of similar configuration in the relay room and control room. The following conditions were noted:</p> <p>The following modules were noted to have 1 mounting screw</p> <p>Transmitter directly below TC-182 IN CVCS1 Front PQ-128 in CVCS1 Front PQ-135, FQ-111, and YC-110A in CVCS2 Front PM-950 in Y2 Front RM-405X in RIL Front (Control Room) TM-405I in RIL Front (Control Room)</p> <p>LC-2022A-1, FC-2001, LY-942A, LY-942C, LY-942E, and TC-409A-1 in FOX1 LC-2022B-1, FC-2002, LY-943A and LY-943C in FOX2</p> | <p>I&C installed missing screws in missing mounting brackets as noted in CR-2012-008557.</p> <p>Modules FQ-111, YC-110A, located in CVCS2 rack and PQ-128 located in CVCS1 rack did not have a corresponding second mounting hole in the rack. Configuration was deemed acceptable-as-is. This was determined based on the following conditions:</p> <ul style="list-style-type: none"> • Modules are Non-Safety Related • Modules are restrained by the adjoining modules which are also Non-Safety Related • Cabinets CVCS1 and CVCS2 do not contain any equipment required for the Seismic Safe Shutdown Equipment List | Acceptable, issues identified and resolved. |

ATTACHMENT (1)
SUPPLEMENTAL SEISMIC WALKDOWN REPORT

**Table 4-4: Table of Potentially Degraded, Nonconforming or Unanalyzed Conditions
for Supplemental Internal Inspection of Electrical Equipment**

| Component ID | Potentially Adverse Seismic Condition | Action Taken to Address the Condition | Current Status |
|--|---------------------------------------|---------------------------------------|----------------|
| SWEL 2 Items | | | |
| There are no electrical cabinets on SWEL 2 | | | |

ATTACHMENT (1)
SUPPLEMENTAL SEISMIC WALKDOWN REPORT

5

Licensing Basis Evaluations

There were no issues identified during the supplemental Seismic Walkdowns, Area Walk-Bys and Internal Inspections determined to be a "Potentially Adverse Seismic Condition" that could have potentially challenged the site's licensing basis.

ATTACHMENT (1)
SUPPLEMENTAL SEISMIC WALKDOWN REPORT

6

Peer Review

6.1 PEER REVIEW INTRODUCTION

6.1.1 Overview

The peer review was performed in accordance with the walkdown guidance document [Ref. 1]. The scope of the Peer Review was limited to the following activities, as the SWEL development process has already been peer reviewed by the original peer review team:

- Observation of seismic walkdown team during the containment portion of the walkdown on October 26, 2012 by Peer Reviewer, Mr. Mark Fitzsimmons.
- Review of all the checklists completed for the Seismic Walkdowns & Area Walk-Bys & Internal Inspections
- Review of any licensing basis evaluations
- Review of the decisions for entering the potentially adverse conditions in to the plant's Corrective Action Plan (CAP)
- Review of the final submittal report
- The inclusion of a summary of the peer review process in the submittal report

6.1.2 Seismic Walkdown Inspection Overview

The peer review of the seismic walkdown inspection started on October 26, 2012 with a peer check of the actual walkdowns at Ginna. Mr. Fitzsimmons joined the walkdown team for a portion of the day's planned walkdowns to observe the conduct of walkdowns and adherence to the Seismic Walkdown Guidance (SWG) [Ref.1].

In addition, an interview was conducted by Mr. Fitzsimmons with the SWE inspection team after review of the Seismic Walkdown Checklists (SWC) and Area Walk-By Checklists (AWC) to ascertain the quality and procedural compliance with the SWG.

6.2 REVIEW OF SAMPLE CHECKLIST & AREA WALK-BYS

6.2.1 Overview of Walkdowns

Mr. Fitzsimmons accompanied the team for the walkdown of components located in containment to perform peer review of the seismic walkdown inspection for the Ginna walkdowns. The SWE trained walkdown engineers were Mr. Jeffrey Gardiner and Mr. Francis Peterson. The peer review at the plant included the walkdowns inside the Containment Building (Basement, RCP cubicle and Pressurizer Cubicle). After review of the SWCs and AWCs an interview was conducted by Mr. Fitzsimmons with the SWE inspection team in accordance with the SWG requirements on December 7, 2012.

ATTACHMENT (1)
SUPPLEMENTAL SEISMIC WALKDOWN REPORT

6.2.2 Walkdown Review and Review of Checklists

Mr. Fitzsimmons and Mr. Traynor completed a peer review of all SWC's and AWC's completed by the team. The peer review comments shown are those provided to the SWE walkdown team at the time of the review. All comments have been addressed in the final SWCs.

Table 6-1: Table of Peer Review Comments for SWC's

| Item Tag No. | Equipment (GIP) Class | Walkdown Item | Location | Observations |
|--------------|-----------------------|---|----------|--|
| 435 | 7 | PRESSURIZER RELIEF VALVE TO PRESSURIZER RELIEF TANK | RB-274 | Note that the mass of the light is not sufficient to cause damage |
| 951 | 7 | PRESSURIZER STEAM SPACE SAMPLE ISOL AOV | RB-274 | . Grating is at 274'-6" |
| 8635D | 0 | SPENT FUEL POOL HEAT EXCHANGER B INLET DRAIN VLV | AB-235 | Add note that cap is in place |
| 8635G | 0 | SPENT FUEL POOL HEAT EXCHANGER B OUTLET DRAIN VLV | AB-235 | Add note that cap is in place |
| EAC13 | 21 | SPENT FUEL POOL HEAT EXCHANGER B | AB-271 | Reference engineering change package on SWC |
| EAC14 | 21 | SPENT FUEL POOL HEAT EXCHANGER A | AB-253 | Agree with identification of crack on pedestal. Completed supplemental walkdown with SWE.CR written, agree with disposition. |

ATTACHMENT (1)
SUPPLEMENTAL SEISMIC WALKDOWN REPORT

| Table 6-2: Table of Peer Review Comments for AWC's | | | |
|---|---|-----------------|--|
| Area | Area Walkdown Description | Location | Peer Review Comments |
| 17 | Auxiliary Building CVCS Waste Holdup Tank Room | AB-235 | Questioned seismic category of CVCS waste holdup tanks in room. SWE's provided design documentation of seismic design basis (Completed A-46 SQUG evaluation) |
| 25 | Auxiliary Building, Sub-Basement, RHR Pit | AB-219' | Agree that CR for conduit was appropriate |
| 26a | Containment, Pressurizer Cubicle | RB-274'-6" | Cubicle is evaluated for single missile shield block removed at power Correct elevation of grating in cubicle is 274'-6" Correct where appropriate |
| 26b | Containment, B RCP/SG Cubicle | RB-252' | Duct and louvers are not supported below penetration, but still acceptable based on walkdown team's assessment |
| 26e | Containment, Post Accident Charcoal Filter Plenum | RB-300'-4" | Lights are a potential interaction source, but won't cause damage due to lack of mass |
| 27 | Auxiliary Building, Former Boric Acid Evaporator Room | AB-235' | No comments |

6.2.3 Evaluation of Findings

In all cases, the issues identified would not prevent the equipment from performing its safety-related function. The peer review team has reviewed the identified issues and associated disposition and agree with the conclusions of Section 4.

ATTACHMENT (1)

SUPPLEMENTAL SEISMIC WALKDOWN REPORT

6.3 REVIEW OF LICENSING BASIS EVALUATIONS

6.3.1 *Overview of Licensing Basis Evaluations*

None of the issues identified during the Seismic Walkdowns and Area Walk-Bys as shown in Tables 4-2, 4-3, and 4-4 were determined to be "Potentially Adverse Seismic Conditions" in that the issues that were identified would not prevent the equipment from performing its safety-related function or the plant from achieving safe shutdown. Therefore, no additional formal Licensing Basis Evaluations were required.

6.4 PEER REVIEW TEAM PROCESS SUMMARY

- Discussed Seismic Walkdown approach with assigned personnel, including components, buildings, access, inspections, division of responsibility, recordings, and review.
- Questioned the personnel responsible for the selection and development of SWEL SSCs list (on components and systems selected).
- Monitored walkdown work efforts and schedule.
- Coordinated Containment walkdowns performed during 2012 RFO for License Renewal Structural Assessment and Monitoring Program inspection with Seismic Walkdowns
- Discussed identified structural concerns, reporting and corrective action plans throughout walkdown effort.
- Provided general structural engineering guidance, located SQUG Screening Evaluation Worksheets for components, explained SQUG and IPEEE outlier resolutions, and directed team members to past seismic upgrade programs and modifications.
- Accompanied team members on portions of the Seismic Walkdowns, provided oversight, reviewed and commented on all completed component checklists.
- Accompanied team members in Area Walk-bys for oversight, discussed engineering assessments for spatial interaction, and reviewed checklists.
- No Licensing Basis Evaluations were performed so peer review was not applicable.
- Provided review and comments to final report submittal.
- General review indicated that the SWEL component list was properly populated. The qualification of team personnel reflected experience and great familiarity with the Ginna nuclear power block, walkdown data sheets were thoroughly filled out and completed. Questioning attitudes regarding anchorages and particularly spatial interactions were discussed at length. Corrective actions were employed using the Corrective Action Program and in some cases immediate timely actions were taken (ladders and tools close to safety related components were removed). Documentation was developed and compiled such that it is recorded and retrievable.

6.5 REVIEW OF FINAL SUBMITTAL REPORT & SIGN-OFF

The supplemental inspection report has been reviewed by Mark Fitzsimmons and John Traynor and is found to meet the requirements of the EPRI 1025286 – Seismic Walkdown Guidance [Ref. 1] and the objectives and requirements of the 50.54(f) letter [Ref. 22].

ATTACHMENT (1)
SUPPLEMENTAL SEISMIC WALKDOWN REPORT

7

References

Reference drawings related to SWEL items are cited in the Seismic Walkdown Checklists and if applicable, in the Area-Walkdown Checklists.

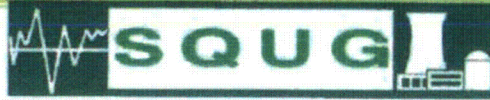
1. EPRI Technical Report 1025286, Seismic Walkdown Guidance for Resolution of Fukushima Near-Term Task Force Recommendation 2.3: Seismic, dated June 2012
2. NRC (E Leeds and M Johnson) Letter to All Power Reactor Licensees et al., "Request for Information Pursuant to Title 10 of the Code of Federal Regulations 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 2.3, "Recommendation 2.3: Seismic."
3. Letter from M. G. Korsnick to Document Control Desk (NRC) dated November 27, 2012, Response to 10 CFR 50.54(f) Request for Information, Recommendation, Seismic, Page 7-1
4. Updated Final Safety Analysis Report (UFSAR) Rev. 23, R. E. Ginna Nuclear Power Plant, December 6, 2011

ATTACHMENT (1)
SUPPLEMENTAL SEISMIC WALKDOWN REPORT

A

Project Personnel Certificates

| | |
|---|-----|
| F. Peterson, SWE, Licensing Basis Reviewer..... | A-2 |
| J. Gardiner, SWE, Licensing Basis Reviewer..... | A-3 |
| M. Fitzsimmons, Peer Review Team Leader | A-4 |



Certificate of Achievement

This is to Certify that

Francis Peterson

*has Completed the SQUG Walkdown Screening
and Seismic Evaluation Training Course*

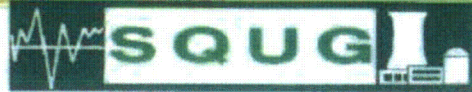
June 11-15, 2012

Glen Allen, Virginia



Paul D. Baughman, ARES Corporation
SQUG Instructor

Divakar Bhargava, Dominion Generation
SQUG Chairman



Certificate of Achievement

This is to Certify that

Jeff Gardiner

*has Completed the SQUG Walkdown Screening
and Seismic Evaluation Training Course*

June 11-15, 2012

Glen Allen, Virginia



Paul D. Bauglman, ARES Corporation
SQUG Instructor

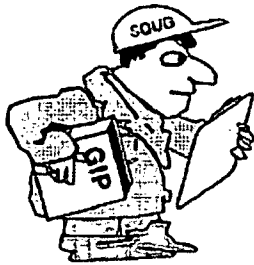
Divakar Bhargava, Dominion Generation
SQUG Chairman



Certificate of Achievement

This is to Certify that
Mark B. Fitzsimmons

has Completed the SQUG Walkdown Screening
and Seismic Evaluation Training Course



Paul P. Smith

SQUG Representative

April 20-24, 1998

Date of Course
[Signature]

Training Course Administrator

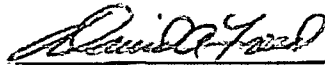


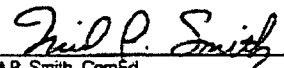

Certificate of Achievement

This is to Certify that

Mark B. Fitzsimmons

has Completed the SQUG Training Course for
**Demonstrating Seismic Adequacy of New and Replacement Equipment and
Subcomponents Using GIP and STERJ Methods**
Held November 19-21, 1997


David A. Freed, NPR Associates
SQUG Training Coordinator


Neil P. Smith, ComEd
SQUG Chairman

Robert P. Kassawara, EPRI
SQUG Program Manager



Certificate of Achievement

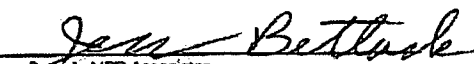
This is to Certify that

Mark B. Fitzsimmons

has Completed the

SQUG Equipment Selection and Relay Evaluation Training Course

Held March 9-10, 1998


Jess Bertlock, MPR Associates


Richard G. Starck, MPR Associates

ATTACHMENT (1)
SUPPLEMENTAL SEISMIC WALKDOWN REPORT

B

Seismic Walkdown Checklists (SWCs)

| Table B-1. Summary of Seismic Walkdown Checklists Completed by Ginna Personnel (SWEL 1) | | |
|--|---|--|
| Component ID | Description | Anchorage Verification Required |
| VFD/CHP1B | CHARGING PUMP 1B MOTOR VFD | YES |
| ABCHP1B/1CRC | CHARGING PUMP 1B / 1C MOTOR VFD RELAY CABINET | YES |
| PAC01B | RESIDUAL HEAT REMOVAL PUMP B | YES |
| 431C | PRESSURIZER POWER OPERATED RELIEF VALVE | N/A |
| 435 | PRESSURIZER RELIEF VALVE TO PRESSURIZER RELIEF TANK | N/A |
| 951 | PRESSURIZER STEAM SPACE SAMPLE ISOL AOV | N/A |
| 270B | RCP B SEAL OUTLET VLV AOV-270B | N/A |
| 830A | LOOP B ACCUMULATOR A RELIEF VALVE | N/A |
| 8608A | NITROGEN ACCUMULATOR A RELIEF VLV | N/A |
| 515 | MOTOR OPERATED INLET BLOCK VLV TO PORV 431C | N/A |
| ACP04 | CONTAINMENT RECIRCULATING FILTER AND COOLING UNIT C | YES |
| ACP06 | POST ACCIDENT CHARCOAL FILTER UNIT A | YES |
| LT-504 | STEAM GENERATOR EMS01A WIDE RANGE LEVEL TRANSMITTER | N/A |
| TSI03A | SAFETY INJECTION ACCUMULATOR A | YES |
| TT-2139 | CRFC 1A AIR INLET TEMP | N/A |
| TT-2140 | CRFC 1A AIR OUTLET TEMP | N/A |

ATTACHMENT (1)
SUPPLEMENTAL SEISMIC WALKDOWN REPORT

Table B-1. Summary of Seismic Walkdown Checklists Completed by Ginna Personnel (SWEL 1)

| Component ID | Description | Anchorage Verification Required |
|---------------------|---|--|
| TSI01 | REFUELING WATER STORAGE TANK | NO |
| 5871 | A POST ACCIDENT CHAR FILTER DAMPER INLET ISOL VLV | N/A |

Table B-2 Summary of Seismic Walkdown Checklists Completed by Ginna Personnel (SWEL 2)

| Component ID | Description | Anchorage Verification Required |
|---------------------|----------------------------------|--|
| 8635B | GATE VALVE | N/A |
| 8635D | SFP HX B INLT DRN VLV | N/A |
| 8635G | SFP HX B OUTLET DRN VLV | N/A |
| 8663 | SFP HX B OUTLET BLK VLV | N/A |
| EAC13 | SPENT FUEL POOL HEAT EXCHANGER B | YES |
| EAC14 | SPENT FUEL POOL HEAT EXCHANGER A | YES |

ATTACHMENT (1)
SUPPLEMENTAL SEISMIC WALKDOWN REPORT

C

Area Walk-By Checklists (AWCs)

Table C-1: Summary of Area Walk-By Check Lists Completed by Ginna Personnel

| Area Number | Location | Elevation |
|--------------------|---|------------------|
| 17 | Auxiliary Building CVCS Waste Holdup Tank Room | 235 |
| 25 | Auxiliary Building, Sub-Basement, RHR Pit | 219' |
| 26a | Containment, Pressurizer Cubicle | 274'-6" |
| 26b | Containment, B RCP/SG Cubicle | 252' |
| 26c | Containment, Basement Level, North | 235'-8" |
| 26d | Containment, Intermediate Level North-East | 253'-3" |
| 26e | Containment, Post Accident Charcoal Filter Plenum | 300'-4" |
| 27 | Auxiliary Building, Former Boric Acid Evaporator Room | 235 |

ATTACHMENT (1)
SUPPLEMENTAL SEISMIC WALKDOWN REPORT

D

SWC's for Supplemental Internal Inspections of Electrical Cabinets

Table D-1: Summary of Supplemental Internal Inspections Completed by Ginna

| Equipment Class | Component ID | Description |
|------------------------|-------------------------|--|
| 1 | MS@V3505A (42/3505A) | MOTOR STARTER FOR MOV-3505A |
| 14 | ACDPAB10 | PRESSURIZER HEATERS AC POWER DISTRIBUTION PANEL 1A1 (480 VAC) |
| 14 | DCPDPCB01A | DC DISTRIBUTION PANEL (BATTERY A MAIN DISCONNECT PANEL) |
| 14 | DCPDPCB02A | DC POWER DISTRIBUTION PANEL CB 02 A (MAIN FUSE CAB A) |
| 14 | DCPDPCB03A | DC POWER DISTRIBUTION PANEL CB 03 A (MAIN DC PNL 1A) |
| 16 | BYCA | BATTERY CHARGER A |
| 16 | BYCA1 | BATTERY CHARGER A1 |
| 16 | INVTCVTA | INVERTER INVTA / CONSTANT VOLTAGE TRANSFORMER CVTA CABINET |
| 20 | MCB | MAIN CONTROL BOARD |
| 20 | R1 | REACTOR PROTECTION INSTRUMENT RACK CHANNEL 1 RED 1 |
| 20 | RA2 | AUXILIARY RELAY RACK 2 |
| 20 | SA | SAFETY INJECTION/AUX COOLANT RACK |
| 20 | SAFWPCIP | STANDBY AUXILIARY FEEDWATER PUMP C INSTRUMENT PANEL |
| 20 | SIA1 | SAFEGUARDS INITIATION RACK A1 |
| 20 | Y1 | REACTOR PROTECTION INSTRUMENT RACK CHANNEL 4 YELLOW 1 |

ATTACHMENT (1)
SUPPLEMENTAL SEISMIC WALKDOWN REPORT

E

Plan for Future Seismic Walkdown of Inaccessible Equipment

Ginna has completed walkdowns for all SWEL 1 items except for four components which require specific maintenance configurations to complete the internal inspection. All of the required anchorage verifications and Area Walk-bys are complete. Table E-1 summarizes the remaining electrical equipment subject to supplemental internal inspections.

| Table E-1. Summary of Electrical Equipment Subject to Supplemental Internal Inspections | | | | | | |
|--|---------------------|--|-----------------|--------------|---|--|
| Equipment Class | Component ID | Description | Building | ELEV. | Planned Walkdown/ Walk-By Date | Planned Updated Submittal Report Date |
| 1 | MCCC | 480 VAC MOTOR CONTROL CENTER C | AB | 271 | 12/2015 | 1/2016 |
| 2 | BUS14 | BUS 14 480 VOLT POWER | AB | 271 | 12/2015 | 1/2016 |
| 20 | DGAEC | DIESEL GENERATOR A EXCITER CABINET | DG | 253 | 06/2013 | 07/2013 |
| 20 | FOX DGA1 | FOXBORO INSTRUMENT RACK DIESEL GENERATOR KDG01A DAY TANK LEVEL | DG | 253 | 06/2013 | 07/2013 |

SWEL 2 components that have not been inspected are summarized in Table E-2. These components are on the SWEL 2 due to their ability to induce a rapid drain down as described in Reference 1. The rapid drain down criteria does not credit manual operator actions over the course of 72 hours. The SFP demineralizer, SFP filter, and associated valves are normally aligned to the SFP cooling system. The SFP purification components noted in table E-2 are located in Locked High Radiation Areas typically accessed annually. The SFP demineralizer is located in the demineralizer room which is typically inspected using remote technology. Inspecting these “rugged” components represents a high radiological risk. The remaining manual valves, demineralizer and filter are passive components. Manual valves were considered rugged under the SQUG program. Ginna considered the following items in its decision to not inspect these components:

1. Alternative Flow Paths: Ginna has three pumps and two heat exchangers providing six different spent fuel cooling paths available to plant operators to maintain SFP cooling and inventory. Four of these loops are seismically qualified.

ATTACHMENT (1)
SUPPLEMENTAL SEISMIC WALKDOWN REPORT

2. Direct Level Indication: Ginna utilizes low level alarm, LAL-634, to notify operators of decreasing pool level. This alarm actuates when level in the pool has decreased a maximum of 10.5" from normal spent fuel pool level..
3. Indirect Level Indication: Should the SFP system rupture, the lost inventory would drain to the Auxiliary Building sump. Annunciators L-9 and L-10 inform the control room operators of high sump level and pump actuation. The alarm response procedure directs an Auxiliary Operator to check for leakage to the sump.
4. Bypass Ability: Should a rupture of the SFP demineralizer, filter or associated piping occur, each of the cooling loops can be aligned to bypass the affected sections of piping and prevent drain down while ensuring SFP cooling is maintained.
5. Spent Fuel Pool Isolation: The SFP Pump suction lines are seismically qualified with isolation valves located as close to the penetration as possible. In addition, each pump has an individual suction isolation valve that, in the worst case drain down, operators can secure to stop the pool drain down.
6. Maximum Drain Down: Should a rupture of the SFP demineralizer, filter or associated piping occur, the SFP cannot drain down to less than the lower suction line, which is approximately 5 ft-4 in. above the top of the fuel racks, and ensures a minimum level of 5 ft-4 in. above the top of the fuel. Normally the lower suction line is isolated and the upper suction line is in service, which penetrates the SFP near the top of the pool. [UFSAR Section 9.1.3.2.2, Ref. 4]. The upper suction line penetrates the pool 23 ft above the lower suction. When the upper suction is aligned and the lower suction is isolated, the intent of Screen 4 of Ref. 1 is met and there is no rapid-drain down mechanism for the Spent Fuel Pool.
7. Procedures: Attachment 1, "Post Earthquake Plant Checks," of operations procedure ER-SC.4 "Earthquake Emergency Plan" directs operators to monitor SFP level and monitor for leakage after a seismic event.
8. Ginna Station has diesel driven portable pumps which can be aligned to water sources, including Lake Ontario, to keep the SFP water level above the top of active fuel.

ATTACHMENT (1)
SUPPLEMENTAL SEISMIC WALKDOWN REPORT

| Table E-2. Summary of Inaccessible Equipment – SWEL 2 | | | | | |
|--|---------------------------|-----------------|---|--|---------------------------------------|
| Component ID | Description | Building | Planned Walkdown/ Walk-By Date | Planned Updated Submittal Report Date | Reason for Inaccessibility |
| 791 | SFP DI BACKWASH ISOL VLV | AB | None | None | Locked High radiation area. |
| 792 | RMW INLT ISOL VLV | AB | None | None | Locked High radiation area. |
| 793 | DIAPHRAGM VALVE | AB | None | None | Locked High radiation area. |
| 794 | SFP DI OUTLET ISOL VLV | AB | None | None | Locked High radiation area. |
| 797 | SFP FILTER BYP VLV | AB | None | None | Locked High radiation area. |
| 798A | INLT BLK VLV | AB | None | None | Locked High radiation area. |
| 798B | RCDT PMP S DISCH ISOL VLV | AB | None | None | Locked High radiation area. |
| 799A | SFP FILTER DRN VLV | AB | None | None | Locked High radiation area. |
| 799D | SFP FILTER VENT VLV | AB | None | None | Locked High radiation area. |
| 800 | INSTR ROOT VLV | AB | None | None | Locked High radiation area. |
| 801 | INSTR ROOT VLV | AB | None | None | Locked High radiation area. |
| 802 | SFP FILTER OUTLET BLK VLV | AB | None | None | Locked High radiation area. |
| FAC02 | SFP FILTER | AB | None | None | Locked High radiation area.. |
| TAC04 | SFP DI | AB | None | None | Locked High radiation area. |

ATTACHMENT (2)

SEISMIC WALKDOWN CHECKLISTS

ATTACHMENT 2
SEISMIC WALKDOWN CHECKLISTS

B

Seismic Walkdown Checklists

| Table B-1. Summary of Seismic Walkdown Checklists Completed by Ginna Personnel (SWEL 1) | | | |
|--|---|--|-------------|
| Component ID | Description | Anchorage Verification Required | Page |
| VFD/CHP1B | CHARGING PUMP 1B MOTOR VFD | YES | B-86 |
| ABCHP1B/1CRC | CHARGING PUMP 1B / 1C MOTOR VFD RELAY CABINET | YES | B-42 |
| PAC01B | RESIDUAL HEAT REMOVAL PUMP B | YES | B-66 |
| 431C | PRESSURIZER POWER OPERATED RELIEF VALVE | N/A | B-6 |
| 435 | PRESSURIZER RELIEF VALVE TO PRESSURIZER RELIEF TANK | N/A | B-9 |
| 951 | PRESSURIZER STEAM SPACE SAMPLE ISOL AOV | N/A | B-20 |
| 270B | RCP B SEAL OUTLET VLV AOV-270B | N/A | B-3 |
| 830A | LOOP B ACCUMULATOR A RELIEF VALVE | N/A | B-16 |
| 8608A | NITROGEN ACCUMULATOR A RELIEF VLV | N/A | B-26 |
| 515 | MOTOR OPERATED INLET BLOCK VLV TO PORV 431C | N/A | B-13 |
| ACP04 | CONTAINMENT RECIRCULATING FILTER AND COOLING UNIT C | YES | B-45 |
| ACP06 | POST ACCIDENT CHARCOAL FILTER UNIT A | YES | B-49 |
| LT-504 | STEAM GENERATOR EMS01A WIDE RANGE LEVEL TRANSMITTER | N/A | B-62 |
| TSI03A | SAFETY INJECTION ACCUMULATOR A | YES | B-77 |
| TT-2139 | CRFC 1A AIR INLET TEMP | N/A | B-80 |
| TT-2140 | CRFC 1A AIR OUTLET TEMP | N/A | B-83 |
| TSI01 | REFUELING WATER STORAGE TANK | NO | B-70 |
| 5871 | A POST ACCIDENT CHAR FILTER DAMPER INLET ISOL VLV | N/A | B-23 |

ATTACHMENT 2
SEISMIC WALKDOWN CHECKLISTS

| Table B-2 Summary of Seismic Walkdown Checklists Completed by Ginna Personnel (SWEL 2) | | | |
|---|----------------------------------|--|------|
| Component ID | Description | Anchorage Verification Required | |
| 8635B | GATE VALVE | N/A | B-30 |
| 8635D | SFP HX B INLT DRN VLV | N/A | B-33 |
| 8635G | SFP HX B OUTLET DRN VLV | N/A | B-36 |
| 8663 | SFP HX B OUTLET BLK VLV | N/A | B-39 |
| EAC13 | SPENT FUEL POOL HEAT EXCHANGER B | YES | B-53 |
| EAC14 | SPENT FUEL POOL HEAT EXCHANGER A | YES | B-57 |

ATTACHMENT 2
SEISMIC WALKDOWN CHECKLISTS

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 270B (Alternate train for valve 270A)

Equipment Class: (7) Fluid-Operated Valves

Equipment Description: REACTOR COOLANT PUMP B SEAL AIR OPERATED OUTLET VALVE

Project: Ginna SWEL 1

Location (Bldg, Elev, Room/Area): Containment, "B" RCP/SG Cubicle, 253'-0", Area 26b

Manufacturer/Model:

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 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

 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

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

ATTACHMENT 2
SEISMIC WALKDOWN CHECKLISTS

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 270B (Alternate train for valve 270A)

Equipment Class: (7) Fluid-Operated Valves

Equipment Description: REACTOR COOLANT PUMP B SEAL AIR OPERATED OUTLET VALVE

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 adverse seismic conditions that could adversely affect the safety functions of the equipment? Y N U

Comments

Evaluated by:



Date:

12/10/2012



12/10/2012

ATTACHMENT 2
SEISMIC WALKDOWN CHECKLISTS

Status: Y N U

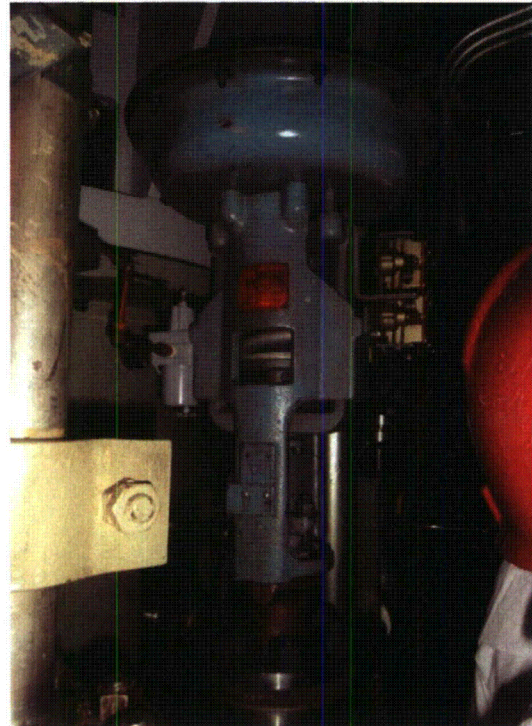
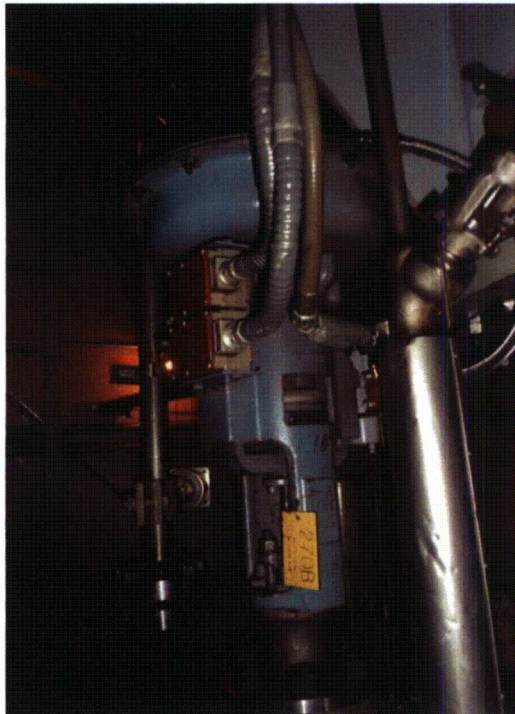
Seismic Walkdown Checklist (SWC)

Equipment ID No.: 270B (Alternate train for valve 270A)

Equipment Class: (7) Fluid-Operated Valves

Equipment Description: REACTOR COOLANT PUMP B SEAL AIR OPERATED OUTLET VALVE

Photos



ATTACHMENT 2
SEISMIC WALKDOWN CHECKLISTS

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 431C (Alternate Train for valve 430)

Equipment Class: (7) Fluid-Operated Valves

Equipment Description: PRESSURIZER POWER OPERATED RELIEF VALVE TO PZR
RELIEF TANK TRC02

Project: Ginna SWEL 1

Location (Bldg, Elev, Room/Area): Containment, Pressurizer Cubicle, 274'-6", Area 26a

Manufacturer/Model:

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 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

 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? 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.)

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

ATTACHMENT 2
SEISMIC WALKDOWN CHECKLISTS

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 431C (Alternate Train for valve 430)

Equipment Class: (7) Fluid-Operated Valves

Equipment Description: PRESSURIZER POWER OPERATED RELIEF VALVE TO PZR
RELIEF TANK TRC02

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
Light overhead, no soft targets on valve. Light appears sufficiently anchored to preclude collapse. Judged acceptable by team
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 adverse seismic conditions that could adversely affect the safety functions of the equipment? Y N U
-

Comments

Evaluated by:



Date:

12/10/2012



12/10/2012

ATTACHMENT 2
SEISMIC WALKDOWN CHECKLISTS

Status: Y N U

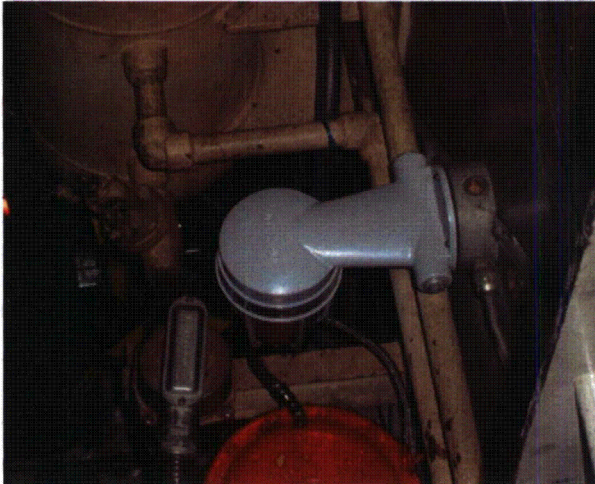
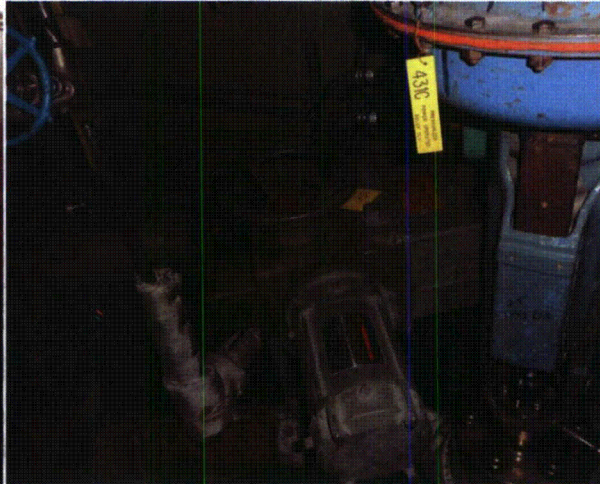
Seismic Walkdown Checklist (SWC)

Equipment ID No.: 431C (Alternate Train for valve 430)

Equipment Class: (7) Fluid-Operated Valves

Equipment Description: PRESSURIZER POWER OPERATED RELIEF VALVE TO PZR
RELIEF TANK TRC02

Photos



ATTACHMENT 2
SEISMIC WALKDOWN CHECKLISTS

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 435 (Alternate Train for valve 434)

Equipment Class: (7) Fluid-Operated Valves

Equipment Description: PRESSURIZER RELIEF VALVE TO PRESSURIZER RELIEF TANK

Project: Ginna SWEL 1

Location (Bldg, Elev, Room/Area): Containment, Pressurizer Cubicle, 274'-6", Area 26a

Manufacturer/Model:

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 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

 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

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

ATTACHMENT 2
SEISMIC WALKDOWN CHECKLISTS

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 435 (Alternate Train for valve 434)

Equipment Class: (7) Fluid-Operated Valves

Equipment Description: PRESSURIZER RELIEF VALVE TO PRESSURIZER RELIEF TANK

Interaction Effects

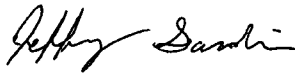
7. Are soft targets free from impact by nearby equipment or structures? Y N U N/A
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y N U N/A
Light overhead, no soft targets on relief valve, limited mass of light. Judged acceptable by team
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 adverse seismic conditions that could adversely affect the safety functions of the equipment? Y N U
-

Comments

Evaluated by:



Date: 12/10/2012



12/10/2012

ATTACHMENT 2
SEISMIC WALKDOWN CHECKLISTS

Status: Y N U

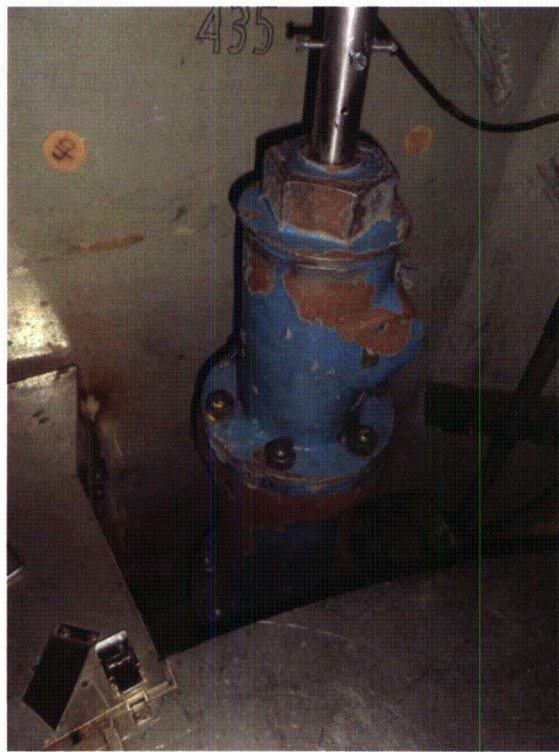
Seismic Walkdown Checklist (SWC)

Equipment ID No.: 435 (Alternate Train for valve 434)

Equipment Class: (7) Fluid-Operated Valves

Equipment Description: PRESSURIZER RELIEF VALVE TO PRESSURIZER RELIEF TANK

Photos



ATTACHMENT 2
SEISMIC WALKDOWN CHECKLISTS

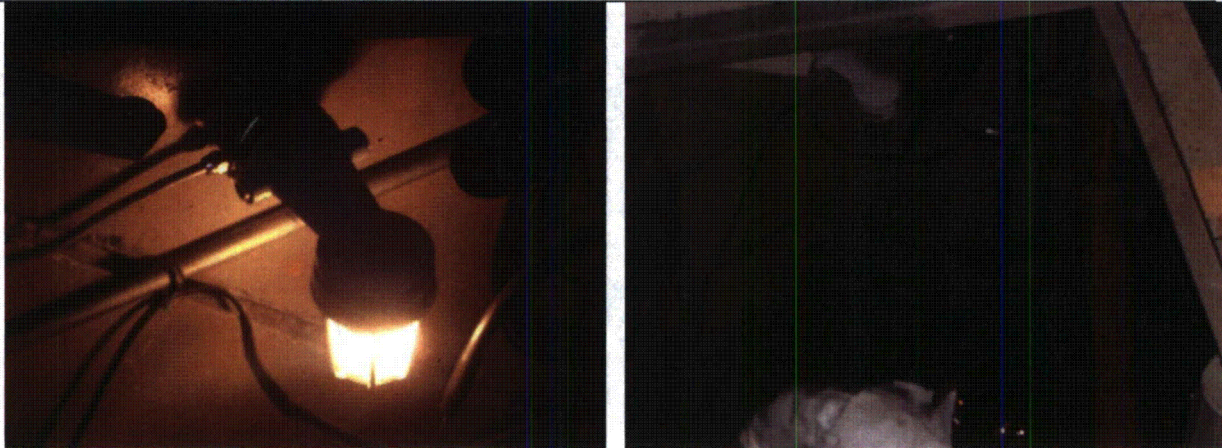
Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 435 (Alternate Train for valve 434)

Equipment Class: (7) Fluid-Operated Valves

Equipment Description: PRESSURIZER RELIEF VALVE TO PRESSURIZER RELIEF TANK



ATTACHMENT 2
SEISMIC WALKDOWN CHECKLISTS

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 515

Equipment Class: (8) Motor-Operated and Solenoid-Operated Valves

Equipment Description: MOTOR OPERATED INLET BLOCK VLV TO PORV 431C

Project: Ginna SWEL 1

Location (Bldg, Elev, Room/Area): Containment, Pressurizer Cubicle, 274'-6", Area 26a

Manufacturer/Model:

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 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

 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

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

ATTACHMENT 2
SEISMIC WALKDOWN CHECKLISTS

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 515

Equipment Class: (8) Motor-Operated and Solenoid-Operated Valves

Equipment Description: MOTOR OPERATED INLET BLOCK VLV TO PORV 431C

Interaction Effects

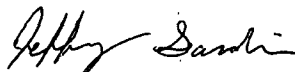
7. Are soft targets free from impact by nearby equipment or structures? Y N U N/A
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y N U N/A
Light overhead, no soft targets on valve. Light appears sufficiently anchored to preclude collapse. Judged acceptable by team
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 adverse seismic conditions that could adversely affect the safety functions of the equipment? Y N U
-

Comments

Evaluated by:



Date: 12/10/2012



Date: 12/10/2012

ATTACHMENT 2
SEISMIC WALKDOWN CHECKLISTS

Status: Y N U

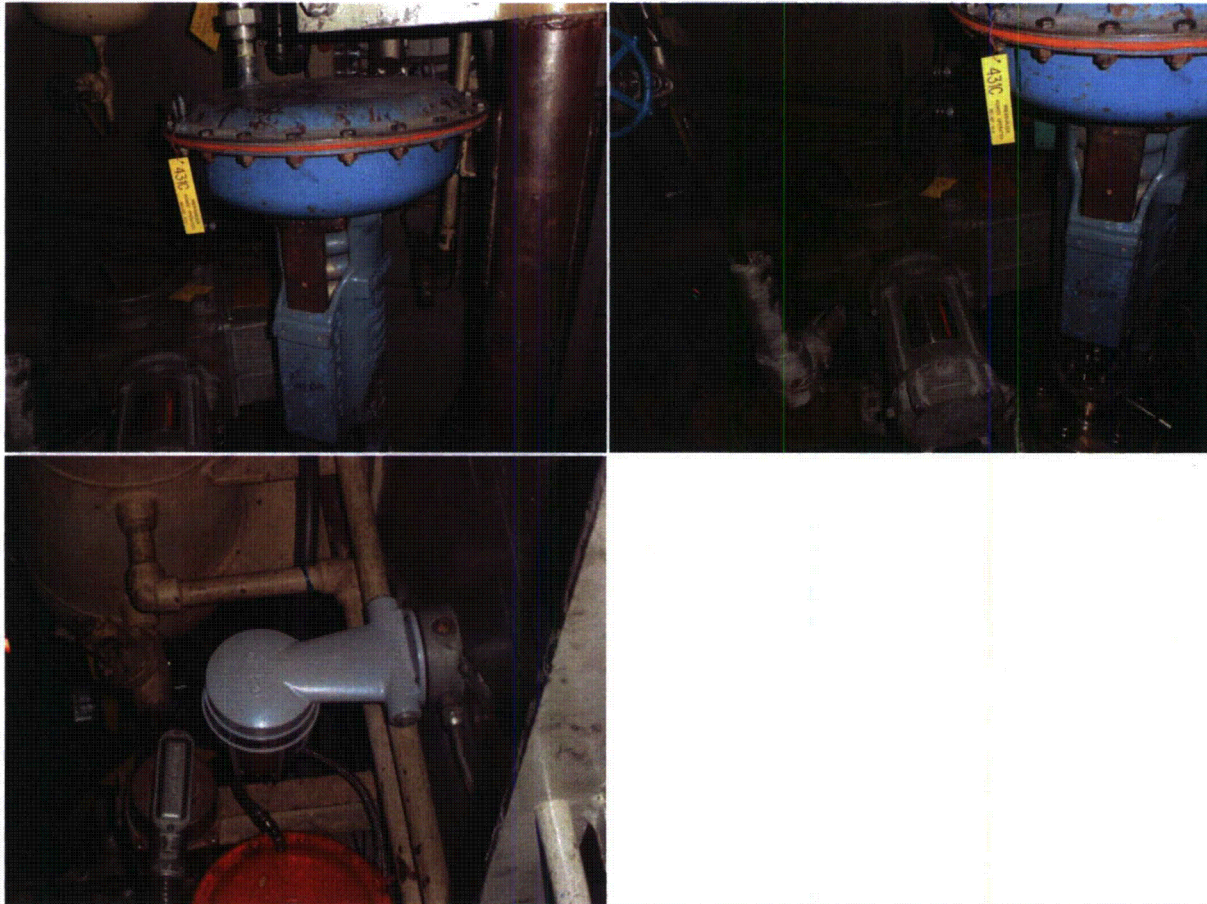
Seismic Walkdown Checklist (SWC)

Equipment ID No.: 515

Equipment Class: (8) Motor-Operated and Solenoid-Operated Valves

Equipment Description: MOTOR OPERATED INLET BLOCK VLV TO PORV 431C

Photos



ATTACHMENT 2
SEISMIC WALKDOWN CHECKLISTS

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 830A

Equipment Class: (7) Fluid-Operated Valves

Equipment Description: LOOP B ACCUMULATOR A RELIEF VLV

Project: Ginna SWEL 1

Location (Bldg, Elev, Room/Area): Containment, Intermediate Level, North Side, 253'-0", Area 26d

Manufacturer/Model:

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 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

 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? 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.)

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

ATTACHMENT 2
SEISMIC WALKDOWN CHECKLISTS

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 830A

Equipment Class: (7) Fluid-Operated Valves

Equipment Description: LOOP B ACCUMULATOR A RELIEF VLV

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 adverse seismic conditions that could adversely affect the safety functions of the equipment? Y N U
-

Comments

Evaluated by:



Date: 12/10/2012



12/10/2012

ATTACHMENT 2
SEISMIC WALKDOWN CHECKLISTS

Status: Y N U

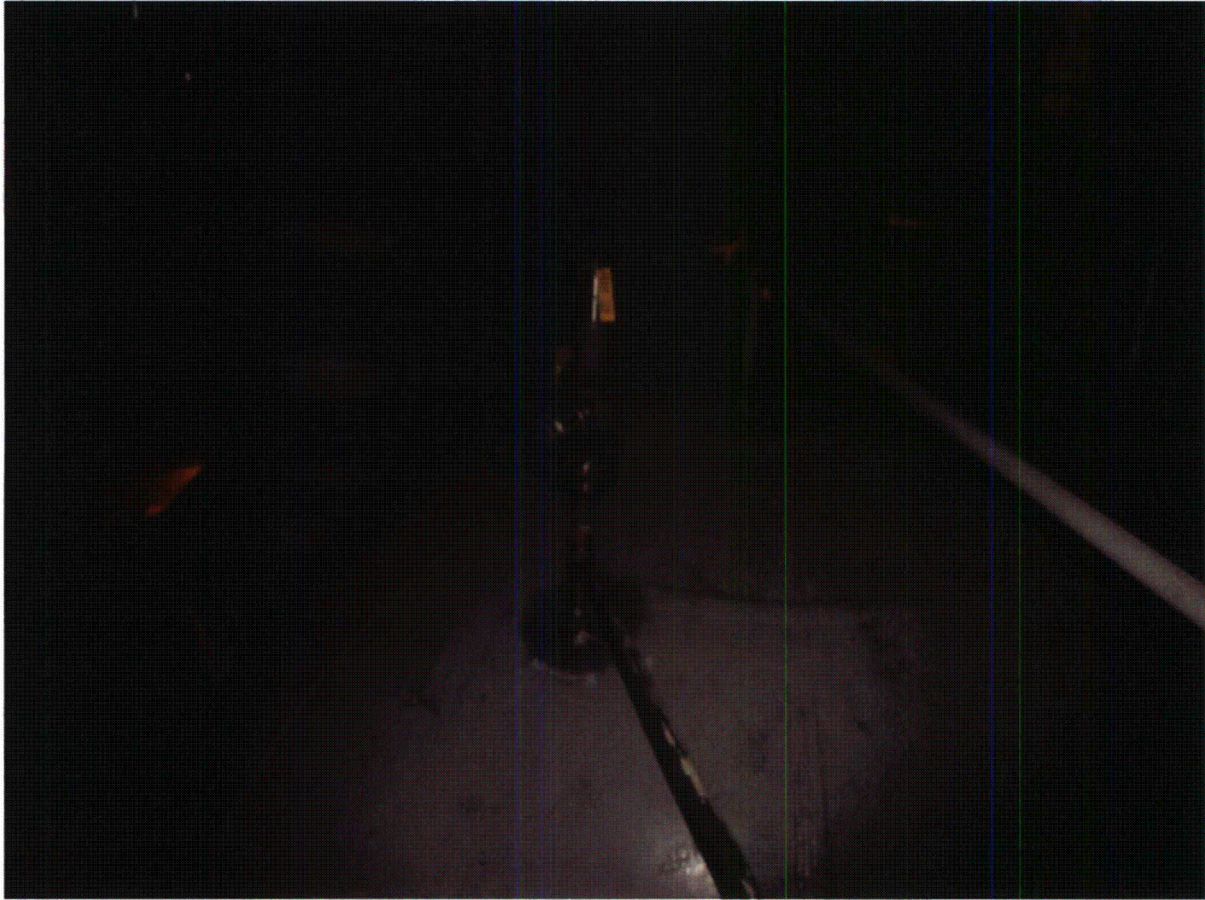
Seismic Walkdown Checklist (SWC)

Equipment ID No.: 830A

Equipment Class: (7) Fluid-Operated Valves

Equipment Description: LOOP B ACCUMULATOR A RELIEF VLV

Photos



ATTACHMENT 2
SEISMIC WALKDOWN CHECKLISTS

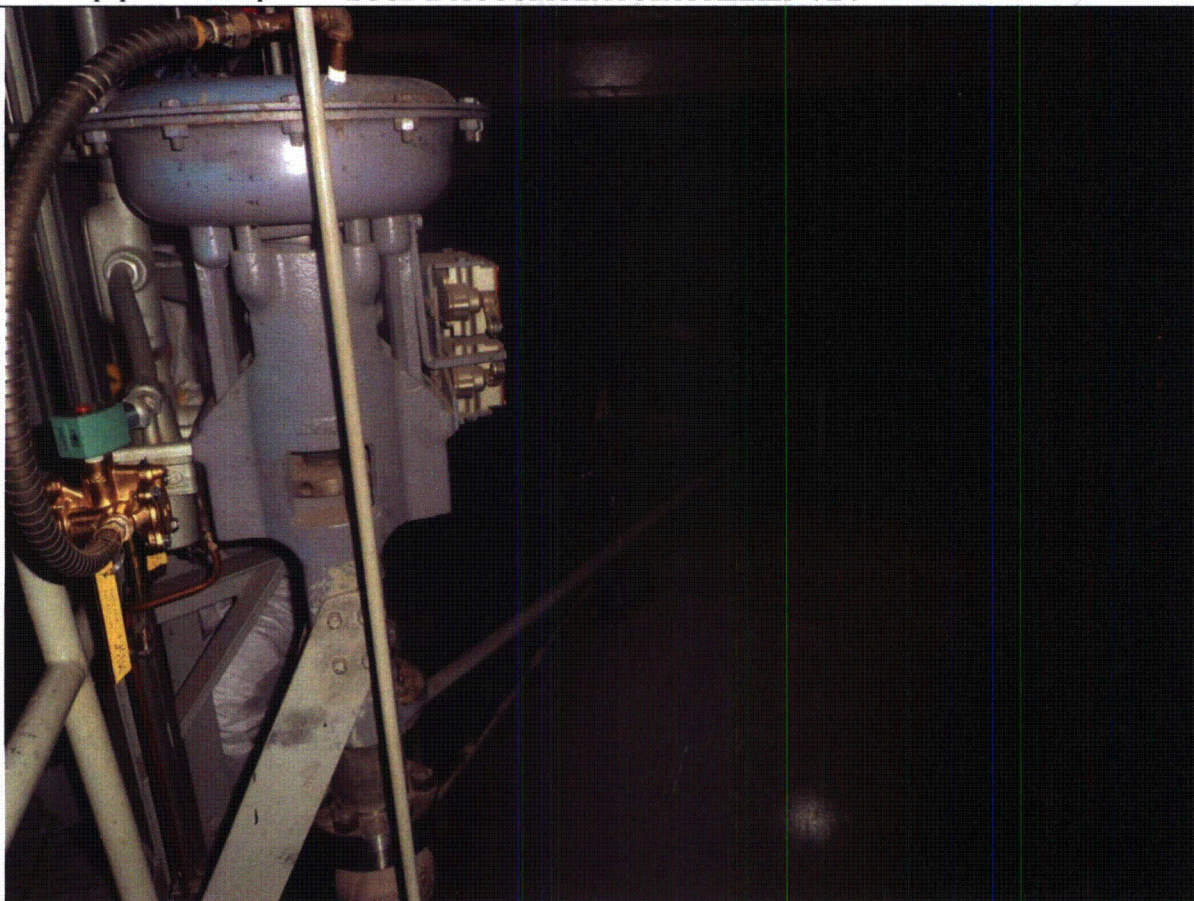
Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 830A

Equipment Class: (7) Fluid-Operated Valves

Equipment Description: LOOP B ACCUMULATOR A RELIEF VLV



ATTACHMENT 2
SEISMIC WALKDOWN CHECKLISTS

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 951

Equipment Class: (7) Fluid-Operated Valves

Equipment Description: PRESSURIZER STEAM SPACE SAMPLE ISOL AOV

Project: Ginna SWEL 1

Location (Bldg, Elev, Room/Area): Containment, Pressurizer Cubicle, 274'-6", Area 26a

Manufacturer/Model:

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 anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y N
Anchorage shown on drawing 21489-0722 Sheet 3

 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? 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.)

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

ATTACHMENT 2
SEISMIC WALKDOWN CHECKLISTS

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 951

Equipment Class: (7) Fluid-Operated Valves

Equipment Description: PRESSURIZER STEAM SPACE SAMPLE ISOL AOV

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
*Light overhead, no soft targets on valve. Light attached to embedded unistrut.
Judged acceptable by team*
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 adverse seismic conditions that could adversely affect the safety functions of the equipment? Y N U
-

Comments

Evaluated by:



Date: 12/10/2012



12/10/2012

ATTACHMENT 2
SEISMIC WALKDOWN CHECKLISTS

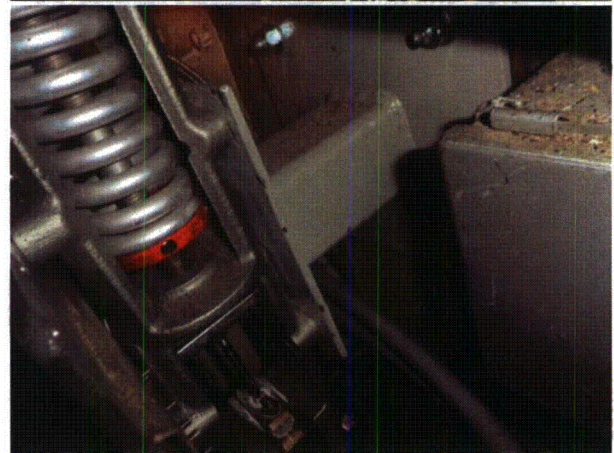
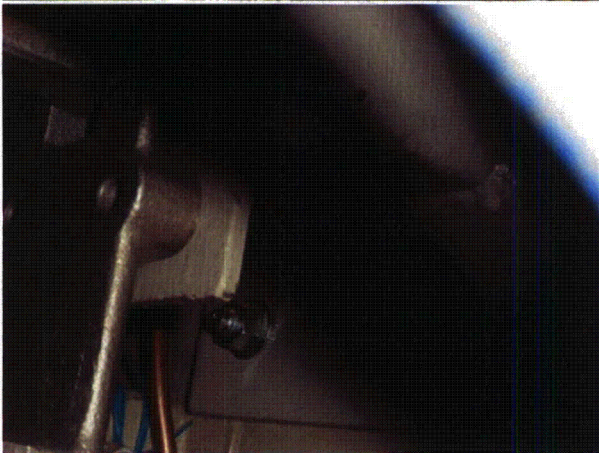
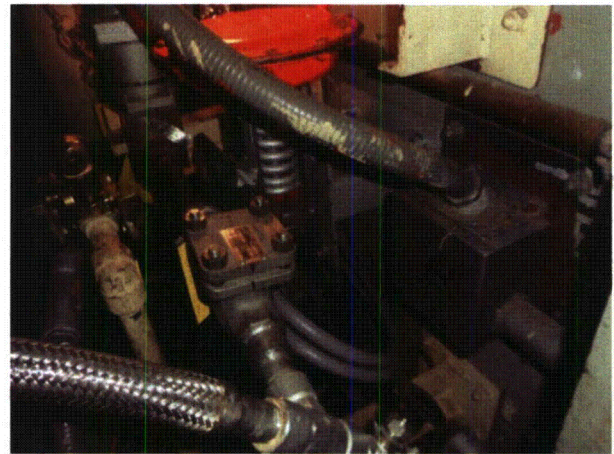
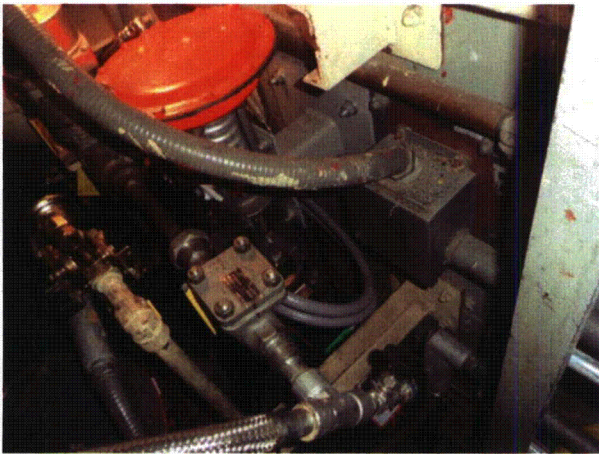
Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 951

Equipment Class: (7) Fluid-Operated Valves

Equipment Description: PRESSURIZER STEAM SPACE SAMPLE ISOL AOV



ATTACHMENT 2
SEISMIC WALKDOWN CHECKLISTS

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 5871

Equipment Class: (7) Fluid-Operated Valves

Equipment Description: A POST ACCIDENT CHAR FILTER DAMPER INLET ISOL VLV

Project: Ginna SWEL 1

Location (Bldg, Elev, Room/Area): Containment, Basement, North Side, 235'-0", Area 26c

Manufacturer/Model:

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 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
*Instrumentation cabinet for CRFC drain valves braced off of actuator plate
Confirmed additional HVAC ductwork supports installed (Reference IPEEE outlier &
drawing 33013-2805)*
 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? 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.)

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

ATTACHMENT 2
SEISMIC WALKDOWN CHECKLISTS

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 5871

Equipment Class: (7) Fluid-Operated Valves

Equipment Description: A POST ACCIDENT CHAR FILTER DAMPER INLET ISOL VLV

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

Flexible system, supported mainly by rod hanger. Potential yielding of unistrut anchorage due to differential (large) movement of ductwork. Not an issue as CRFC drain components are non-safety related.

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 adverse seismic conditions that could adversely affect the safety functions of the equipment? Y N U

Comments

Evaluated by:  Date: 12/10/2012

 12/10/2012

ATTACHMENT 2
SEISMIC WALKDOWN CHECKLISTS

Status: Y N U

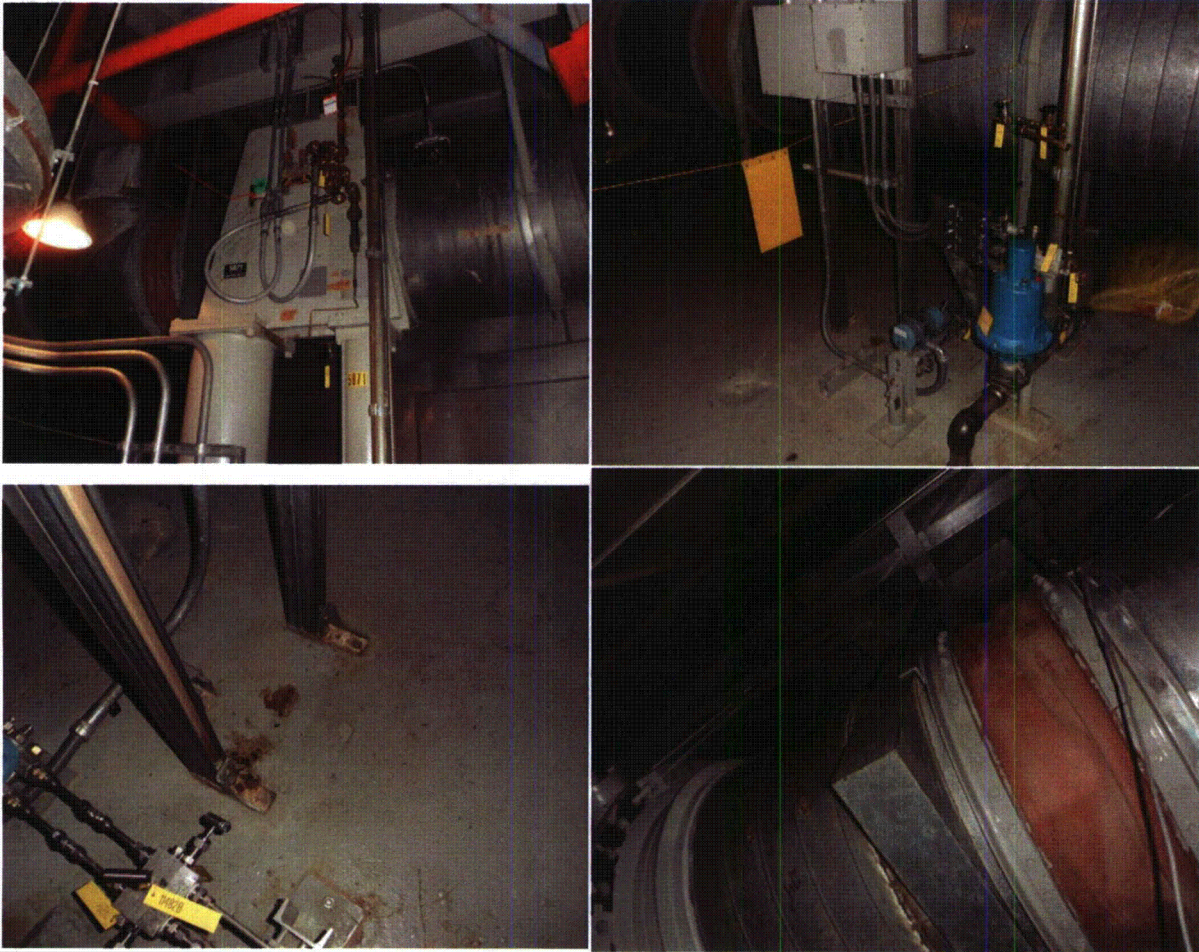
Seismic Walkdown Checklist (SWC)

Equipment ID No.: 5871

Equipment Class: (7) Fluid-Operated Valves

Equipment Description: A POST ACCIDENT CHAR FILTER DAMPER INLET ISOL VLV

Photos



ATTACHMENT 2
SEISMIC WALKDOWN CHECKLISTS

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 8608A

Equipment Class: (7) Fluid-Operated Valves

Equipment Description: NITROGEN ACCUMULATOR RELIEF VALVE

Project: Ginna SWEL 1

Location (Bldg, Elev, Room/Area): Containment, Intermediate Level, North Side, 253'-0", Area 26d

Manufacturer/Model:

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 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

 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? 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.)

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

ATTACHMENT 2
SEISMIC WALKDOWN CHECKLISTS

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 8608A

Equipment Class: (7) Fluid-Operated Valves

Equipment Description: NITROGEN ACCUMULATOR RELIEF VALVE

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
Light and abandoned heater in overhead. Heating unit removed, only shell remains. Heater out of fall path of relief valve and is supported by two rod hangers. Heater interaction judged acceptable by team
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 adverse seismic conditions that could adversely affect the safety functions of the equipment? Y N U
-

Comments

Evaluated by:



Date: 12/10/2012



12/10/2012

ATTACHMENT 2
SEISMIC WALKDOWN CHECKLISTS

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 8608A

Equipment Class: (7) Fluid-Operated Valves

Equipment Description: NITROGEN ACCUMULATOR RELIEF VALVE

Photos



ATTACHMENT 2
SEISMIC WALKDOWN CHECKLISTS

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 8608A

Equipment Class: (7) Fluid-Operated Valves

Equipment Description: NITROGEN ACCUMULATOR RELIEF VALVE



ATTACHMENT 2
SEISMIC WALKDOWN CHECKLISTS

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 8635B

Equipment Class: (0) OTHER

Equipment Description: GATE VALVE

Project: Ginna SWEL 2

Location (Bldg, Elev, Room/Area): Auxiliary Building, 235', Area 24, AB West End-Basement

Manufacturer/Model:

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 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

 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

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

ATTACHMENT 2
SEISMIC WALKDOWN CHECKLISTS

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 8635B

Equipment Class: (0) OTHER

Equipment Description: GATE VALVE

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 adverse seismic conditions that could adversely affect the safety functions of the equipment? Y N U
-

Comments

Evaluated by:

Jeffrey Sankin

Date: 12/10/2012

[Signature]

12/10/2012

ATTACHMENT 2
SEISMIC WALKDOWN CHECKLISTS

Status: Y N U

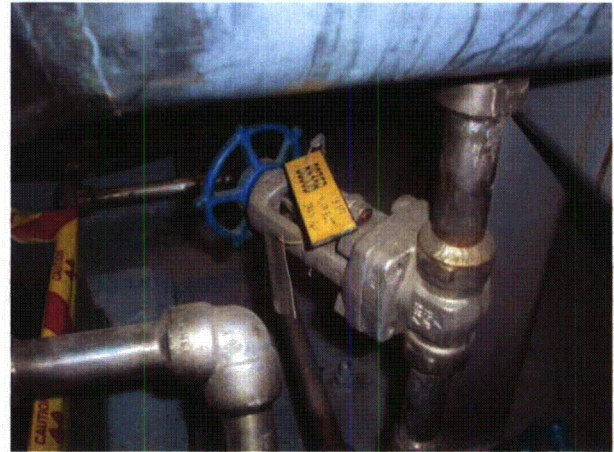
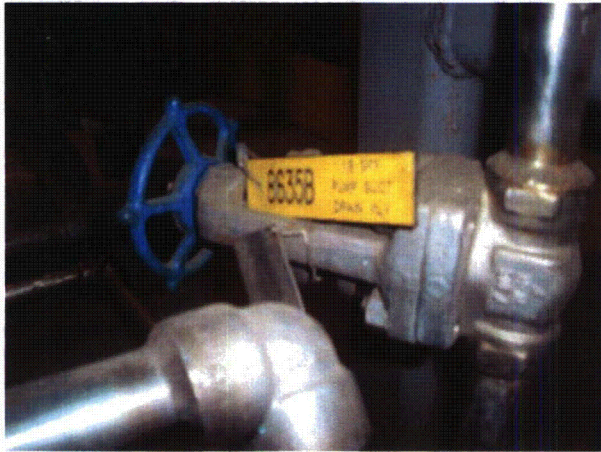
Seismic Walkdown Checklist (SWC)

Equipment ID No.: 8635B

Equipment Class: (0) OTHER

Equipment Description: GATE VALVE

Photos



ATTACHMENT 2
SEISMIC WALKDOWN CHECKLISTS

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 8635D

Equipment Class: (0) OTHER

Equipment Description: SPENT FUEL POOL HEAT EXCHANGER B INLET DRAIN VLV

Interaction Effects

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

Temporary video camera staged near valve. Potential interaction concern, however base of camera is wide, limited interaction possibility based on elevation overlap, and valve lacks soft targets (rugged). Drain cap is in place. Condition judged acceptable by team.

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, SFP piping routed below block outs carrying existing lines. Drain valve is protected by 6" SFP header.

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

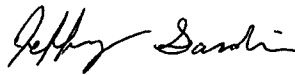
Other Adverse Conditions

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

Comments

Poor picture quality on initial walkdown, utilized remote monitoring video capture for clearer picture. Valve is on right in picture.

Evaluated by:



Date: 12/10/2012



12/10/2012

ATTACHMENT 2
SEISMIC WALKDOWN CHECKLISTS

Status: Y N U

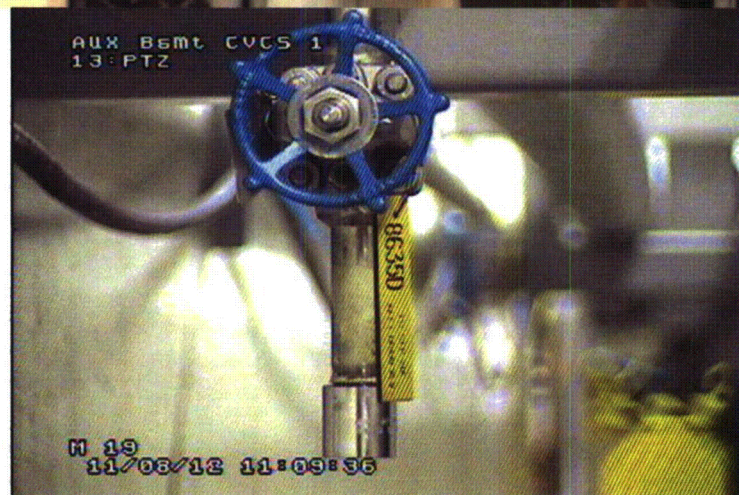
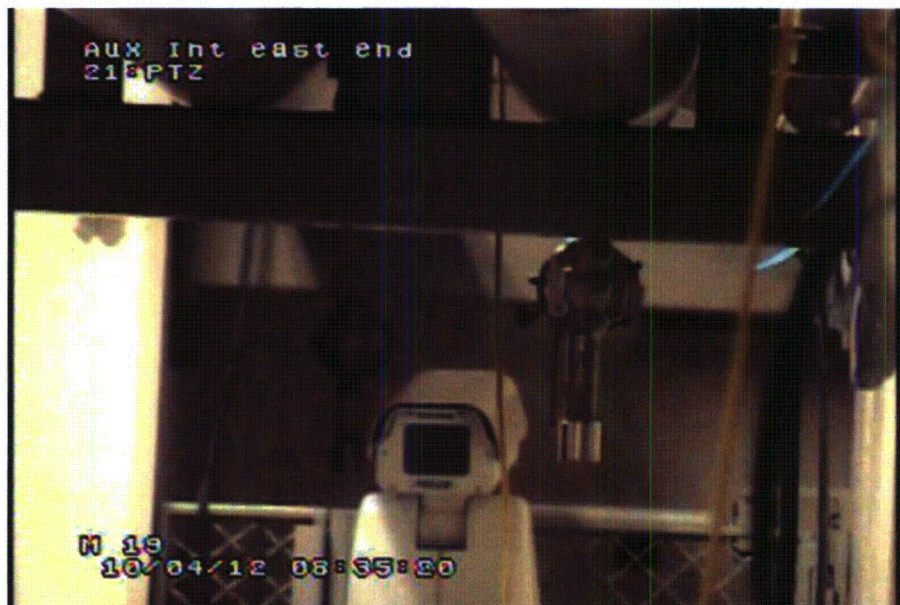
Seismic Walkdown Checklist (SWC)

Equipment ID No.: 8635D

Equipment Class: (0) OTHER

Equipment Description: SPENT FUEL POOL HEAT EXCHANGER B INLET DRAIN VLV

Photos



ATTACHMENT 2
SEISMIC WALKDOWN CHECKLISTS

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 8635G

Equipment Class: (0) OTHER

Equipment Description: SPENT FUEL POOL HEAT EXCHANGER B OUTLET DRAIN VLV

Project: Ginna SWEL 2

Location (Bldg, Elev, Room/Area): Auxiliary Building, 235', Area 17, CVCS Holdup Tank Room

Manufacturer/Model:

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 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

 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

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

ATTACHMENT 2
SEISMIC WALKDOWN CHECKLISTS

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 8635G

Equipment Class: (0) OTHER

Equipment Description: SPENT FUEL POOL HEAT EXCHANGER B OUTLET DRAIN VLV

Interaction Effects

7. Are soft targets free from impact by nearby equipment or structures? Y N U N/A
Drain cap is in place.
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
-

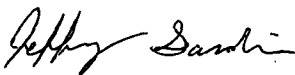
Other Adverse Conditions

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

Comments

Poor picture quality on initial walkdown, utilized remote monitoring video capture for clearer picture. Valve is on left in picture.

Evaluated by:



Date: 12/10/2012



12/10/2012

ATTACHMENT 2
SEISMIC WALKDOWN CHECKLISTS

Status: Y N U

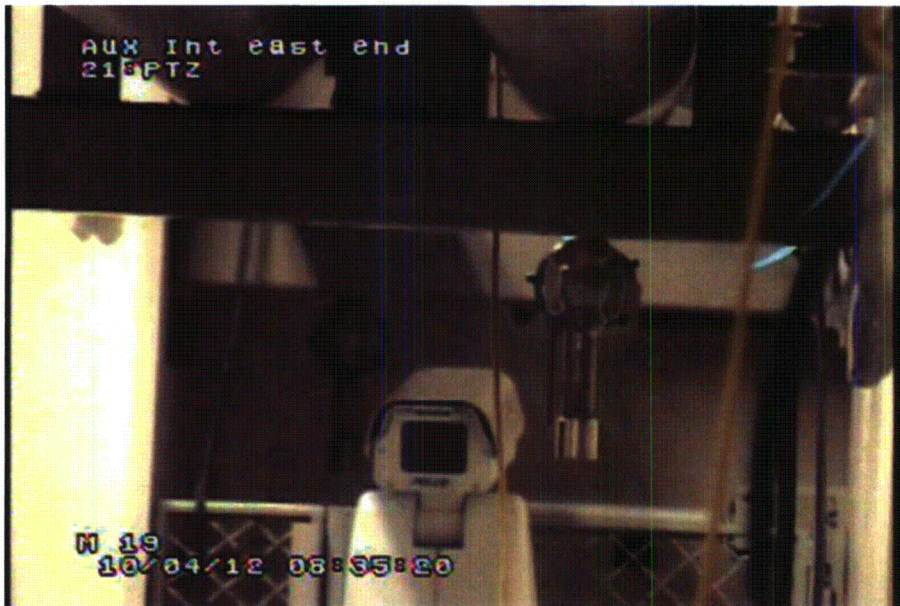
Seismic Walkdown Checklist (SWC)

Equipment ID No.: 8635G

Equipment Class: (0) OTHER

Equipment Description: SPENT FUEL POOL HEAT EXCHANGER B OUTLET DRAIN VLV

Photos



ATTACHMENT 2
SEISMIC WALKDOWN CHECKLISTS

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 8663

Equipment Class: (0) OTHER

Equipment Description: SPENT FUEL POOL HEAT EXCHANGER B OUTLET BLOCK VLV

Project: Ginna SWEL 2

Location (Bldg, Elev, Room/Area): Auxiliary Building, 235', Area 17, CVCS Holdup Tank Room

Manufacturer/Model: _____

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 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

 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

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

ATTACHMENT 2
SEISMIC WALKDOWN CHECKLISTS

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: 8663

Equipment Class: (0) OTHER

Equipment Description: SPENT FUEL POOL HEAT EXCHANGER B OUTLET BLOCK VLV

Interaction Effects

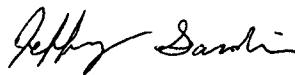
7. Are soft targets free from impact by nearby equipment or structures? Y N U N/A
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y N U N/A
Yes, existing piping systems above are routed through concrete blockouts, while SFP piping is routed in doorway. Concrete blockout provides support in event of failure of lines routed above
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 adverse seismic conditions that could adversely affect the safety functions of the equipment? Y N U
-

Comments

Evaluated by:



Date: 12/10/2012



12/10/2012

ATTACHMENT 2
SEISMIC WALKDOWN CHECKLISTS

Status: Y N U

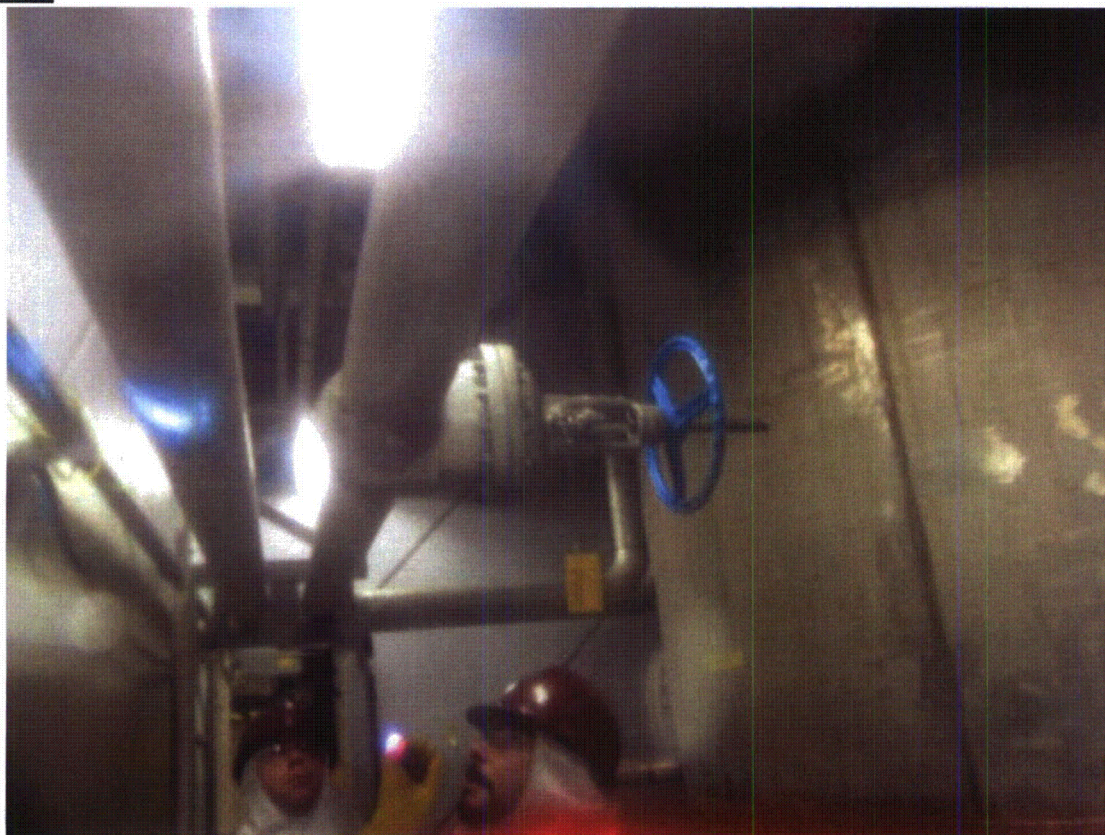
Seismic Walkdown Checklist (SWC)

Equipment ID No.: 8663

Equipment Class: (0) OTHER

Equipment Description: SPENT FUEL POOL HEAT EXCHANGER B OUTLET BLOCK VLV

Photos



ATTACHMENT 2
SEISMIC WALKDOWN CHECKLISTS

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: ABCHP1B/1CRC

Equipment Class: (20) Instrumentation and Control Panels and Cabinets

Equipment Description: CHARGING PUMP 1B / 1C MOTOR VFD RELAY CABINET

Project: GINNA SWEL 1

Location (Bldg, Elev, Room/Area): Auxiliary Building, 253.00 ft, Area 20

Manufacturer/Model: _____

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

Reference ECP-11-000788, drawing SK-059186-C-004

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? 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.)

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

ATTACHMENT 2
SEISMIC WALKDOWN CHECKLISTS

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: ABCHP1B/1CRC

Equipment Class: (20) Instrumentation and Control Panels and Cabinets

Equipment Description: CHARGING PUMP 1B / 1C MOTOR VFD RELAY CABINET

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

Metal conduit affixed to same wall as cabinet

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

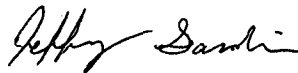
Other Adverse Conditions

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

During internal inspection of cabinet spare, loose electrical labels were found in cabinet (Foreign Material). CR-2012-008138 written, labels removed from cabinet

Comments

Evaluated by:



Date: 12/10/2012



12/10/2012

ATTACHMENT 2
SEISMIC WALKDOWN CHECKLISTS

Status: Y N U

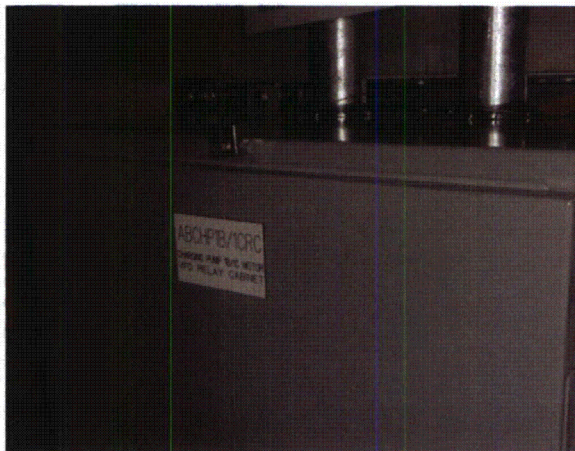
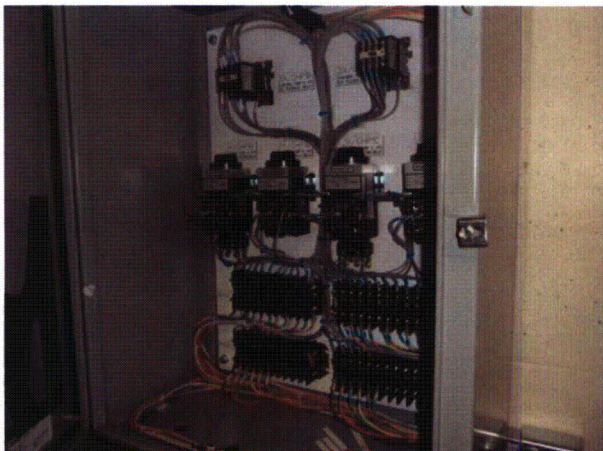
Seismic Walkdown Checklist (SWC)

Equipment ID No.: ABCHP1B/1CRC

Equipment Class: (20) Instrumentation and Control Panels and Cabinets

Equipment Description: CHARGING PUMP 1B / 1C MOTOR VFD RELAY CABINET

Photos



ATTACHMENT 2
SEISMIC WALKDOWN CHECKLISTS

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: ACP04 (ALTERNATE TRAIN COMPONENT FOR ACP02)

Equipment Class: (10) Air Handlers

Equipment Description: CONTAINMENT RECIRCULATING FILTER AND COOLING UNIT C

Project: GINNA SWEL 1

Location (Bldg, Elev, Room/Area): Containment, Intermediate Level, North Side, 253'-0", Area 26d

Manufacturer/Model: _____

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 anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y N
D421-0006, DA-ME-99-029, MDCN 1740

 2. Is the anchorage free of bent, broken, missing or loose hardware Y N U N/A
Missing anchor bolt at support plate at NW corner (expected), reason for supplemental anchor installation

 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? 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.)
Supplemental anchor installed in accordance with MDCN 1740 (Hilti Bolt)

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

ATTACHMENT 2
SEISMIC WALKDOWN CHECKLISTS

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: ACP04 (ALTERNATE TRAIN COMPONENT FOR ACP02)

Equipment Class: (10) Air Handlers

Equipment Description: CONTAINMENT RECIRCULATING FILTER AND COOLING UNIT C

Interaction Effects

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

Fan and motor is bolted to frame which is located in ductwork enclosure

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 adverse seismic conditions that could adversely affect the safety functions of the equipment? Y N U

Comments

Evaluated by:  Date: 12/10/2012

 12/10/2012

ATTACHMENT 2
SEISMIC WALKDOWN CHECKLISTS

Status: Y N U

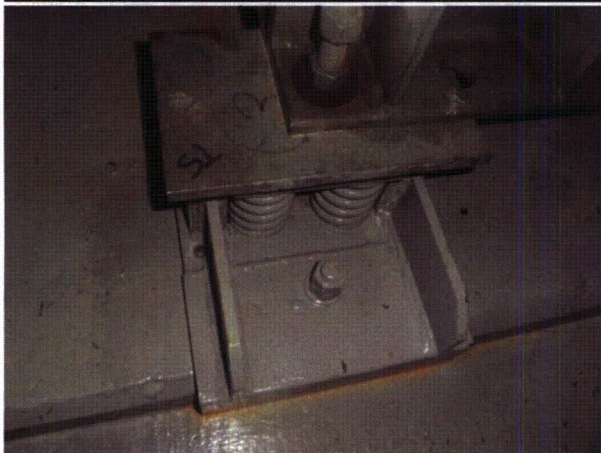
Seismic Walkdown Checklist (SWC)

Equipment ID No.: ACP04 (ALTERNATE TRAIN COMPONENT FOR ACP02)

Equipment Class: (10) Air Handlers

Equipment Description: CONTAINMENT RECIRCULATING FILTER AND COOLING UNIT C

Photos



Supplemental Anchorage Installed per MDCN-1740

ATTACHMENT 2
SEISMIC WALKDOWN CHECKLISTS

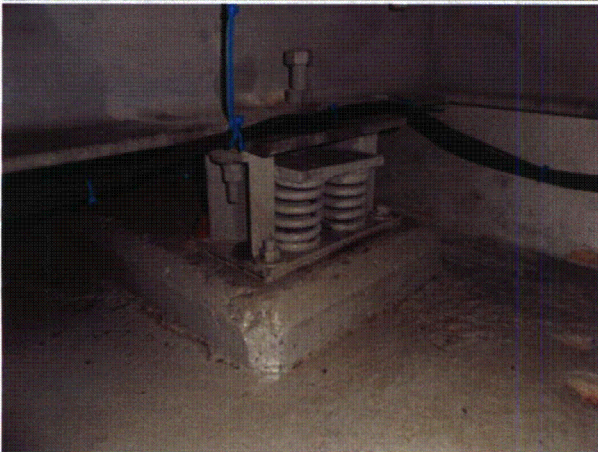
Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: ACP04 (ALTERNATE TRAIN COMPONENT FOR ACP02)

Equipment Class: (10) Air Handlers

Equipment Description: CONTAINMENT RECIRCULATING FILTER AND COOLING UNIT C



ATTACHMENT 2
SEISMIC WALKDOWN CHECKLISTS

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: ACP06

Equipment Class: (10) Air Handlers

Equipment Description: POST ACCIDENT CHARACOL FILTER UNIT A

Project: GINNA SWEL 1

Location (Bldg, Elev, Room/Area): Containment, Filter Mezzanine, North Side, 300'-0", Area 26e

Manufacturer/Model: _____

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 anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y N
Supplemental welded anchors tabs installed per IPEEE, drawing 33013-2766

 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
The unit is welded to the support steel

 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.)

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

ATTACHMENT 2
SEISMIC WALKDOWN CHECKLISTS

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: ACP06

Equipment Class: (10) Air Handlers

Equipment Description: POST ACCIDENT CHARACOL FILTER UNIT A

Interaction Effects

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

Permanently installed seismic scaffold adjoining unit on platform. Scaffold toeboard and netting is removed at power. Sufficient clearance exists between components and seismic scaffold. Scaffold is anchored to platform.

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

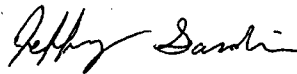
Ladder on platform grating not tied down. Units are free of soft targets. Ladder is removed from containment via Containment closeout procedure. Not an interaction concern.

Other Adverse Conditions

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

Comments

Evaluated by:



Date: 12/10/2012



12/10/2012

ATTACHMENT 2
SEISMIC WALKDOWN CHECKLISTS

Status: Y N U

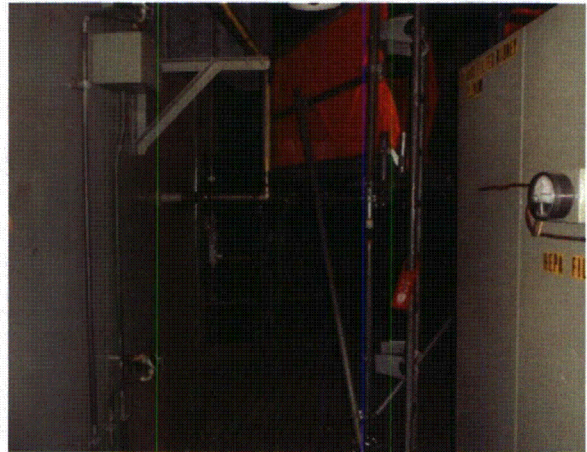
Seismic Walkdown Checklist (SWC)

Equipment ID No.: ACP06

Equipment Class: (10) Air Handlers

Equipment Description: POST ACCIDENT CHARACOL FILTER UNIT A

Photos



ATTACHMENT 2
SEISMIC WALKDOWN CHECKLISTS

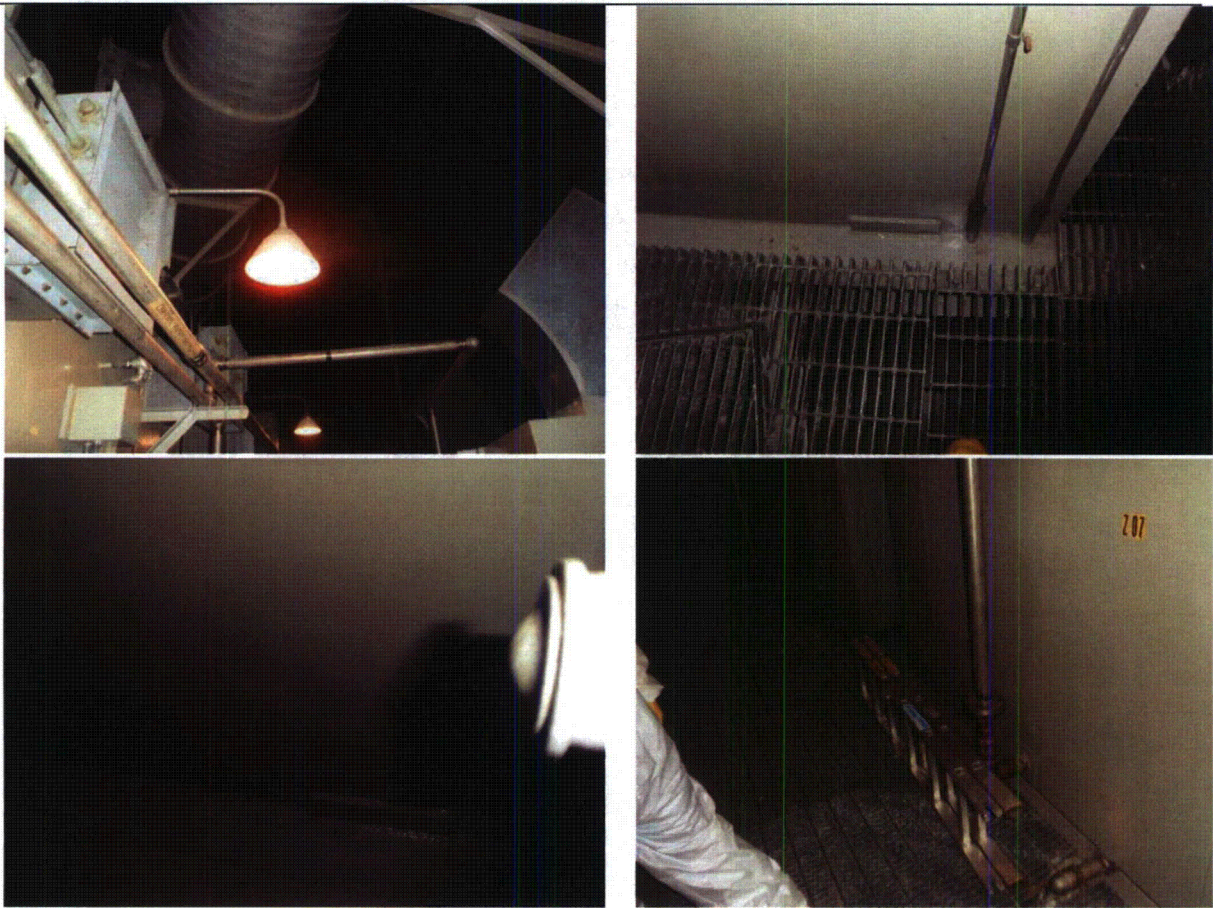
Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: ACP06

Equipment Class: (10) Air Handlers

Equipment Description: POST ACCIDENT CHARACOL FILTER UNIT A



ATTACHMENT 2
SEISMIC WALKDOWN CHECKLISTS

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: EAC13

Equipment Class: (21) Tanks and Heat Exchangers

Equipment Description: SPENT FUEL POOL HEAT EXCHANGER B

Project: GINNA SWEL 2

Location (Bldg, Elev, Room/Area): Auxiliary Building, 253', Area 21, AB West End-Intermediate Level

Manufacturer/Model: _____

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 anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y N
Heat exchanger replaced under ECP-2008-0100, Drawing 33013-2982 Sheet 2 utilized for verification

 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
Recently painted

 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? 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.)

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

ATTACHMENT 2
SEISMIC WALKDOWN CHECKLISTS

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: EAC13

Equipment Class: (21) Tanks and Heat Exchangers

Equipment Description: SPENT FUEL POOL HEAT EXCHANGER B

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

Lights are chained to structural steel, Non-Safety related block wall immediately south of heat exchanger. Limited height of wall, elevated heat exchanger, steel bay bracing and lack of soft targets on south side of heat exchanger provide protection against block wall failure. Heat exchanger is judged to be seismically rugged

9. Do attached lines have adequate flexibility to avoid damage? Y N U N/A
- Completed in previous vendor walkdown*
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 adverse seismic conditions that could adversely affect the safety functions of the equipment? Y N U
-

Comments

Evaluated by:



Date: 12/10/2012



12/10/2012

ATTACHMENT 2
SEISMIC WALKDOWN CHECKLISTS

Status: Y N U

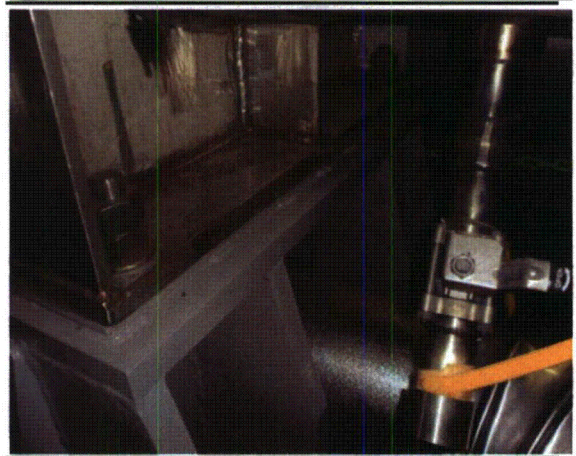
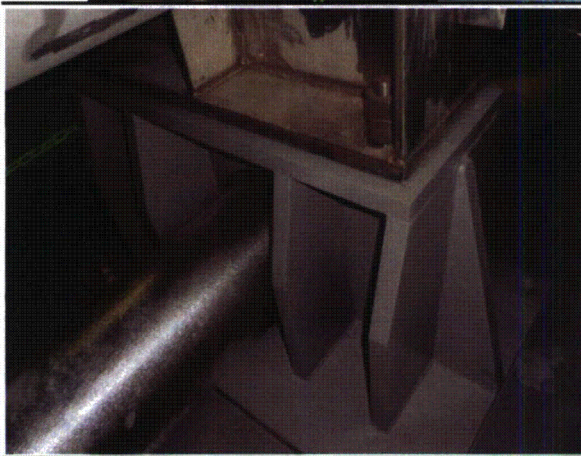
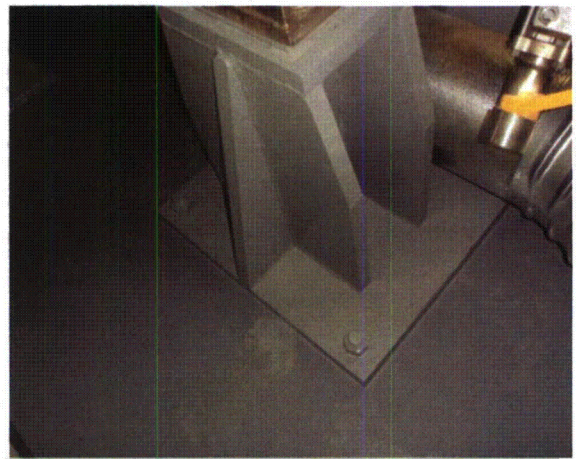
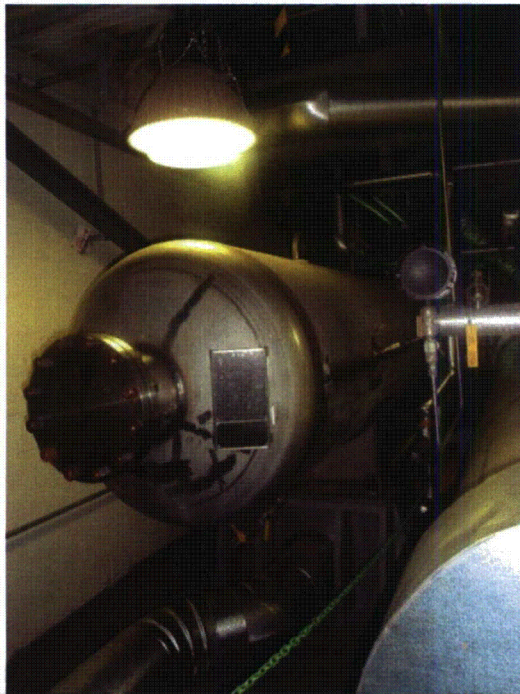
Seismic Walkdown Checklist (SWC)

Equipment ID No.: EAC13

Equipment Class: (21) Tanks and Heat Exchangers

Equipment Description: SPENT FUEL POOL HEAT EXCHANGER B

Photos



ATTACHMENT 2
SEISMIC WALKDOWN CHECKLISTS

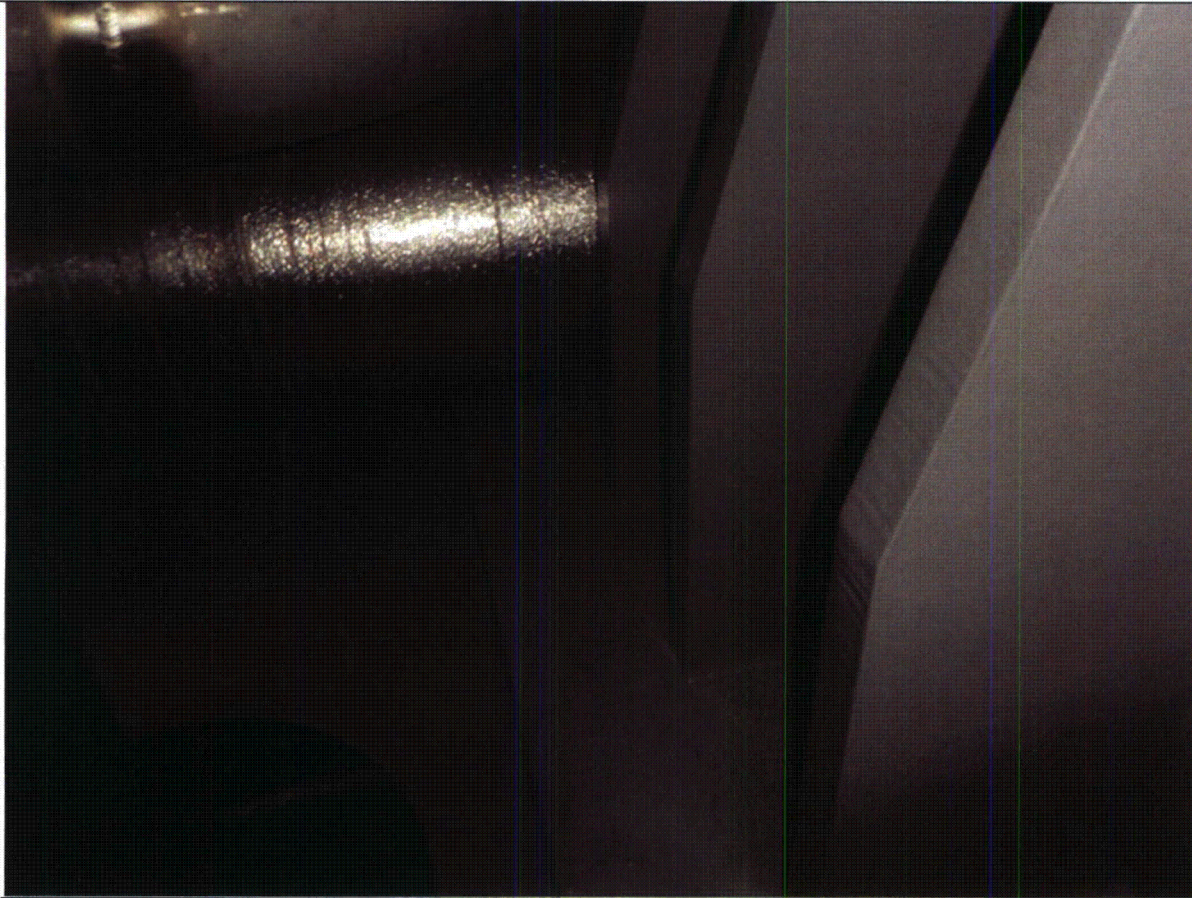
Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: EAC13

Equipment Class: (21) Tanks and Heat Exchangers

Equipment Description: SPENT FUEL POOL HEAT EXCHANGER B



ATTACHMENT 2
SEISMIC WALKDOWN CHECKLISTS

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: EAC14

Equipment Class: (21) Tanks and Heat Exchangers

Equipment Description: SPENT FUEL POOL HEAT EXCHANGER A

Project: Ginna SWEL 2

Location (Bldg, Elev, Room/Area): Auxiliary Building, 253', Area 21, AB West End-Intermediate Level

Manufacturer/Model: _____

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 anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y N
Drawing D422-0302 utilized for verification (Supplemental inspection performed by Ginna personnel with insulation removed for anchorage verification)

 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
Recently painted

 4. Is the anchorage free of visible cracks in the concrete near the anchors? Y N U N/A
East pedestal appears to have minor crack covered by paint. Potential cold joint seam in concrete. No deflection of pedestal or significant crack growth noted. CR-2012-008931 written

 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.)

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

ATTACHMENT 2
SEISMIC WALKDOWN CHECKLISTS

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: EAC14

Equipment Class: (21) Tanks and Heat Exchangers

Equipment Description: SPENT FUEL POOL HEAT EXCHANGER A

Interaction Effects

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

Completed in previous vendor walkdown

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

Completed in previous vendor walkdown

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

Completed in previous vendor walkdown


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 adverse seismic conditions that could adversely affect the safety functions of the equipment? Y N U

Comments

Evaluated by:



Date:

12/10/2012



12/10/2012

ATTACHMENT 2
SEISMIC WALKDOWN CHECKLISTS

Status: Y N U

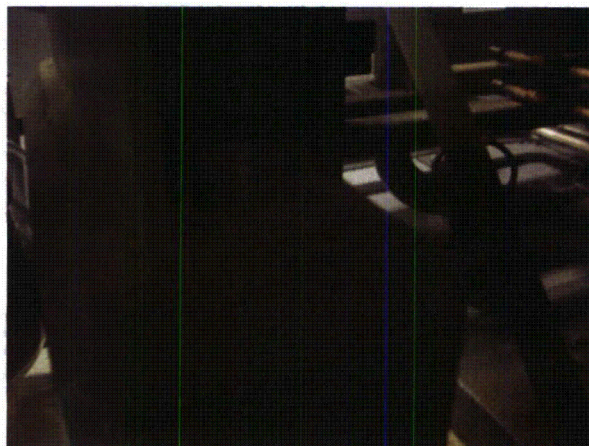
Seismic Walkdown Checklist (SWC)

Equipment ID No.: EAC14

Equipment Class: (21) Tanks and Heat Exchangers

Equipment Description: SPENT FUEL POOL HEAT EXCHANGER A

Photos



ATTACHMENT 2
SEISMIC WALKDOWN CHECKLISTS

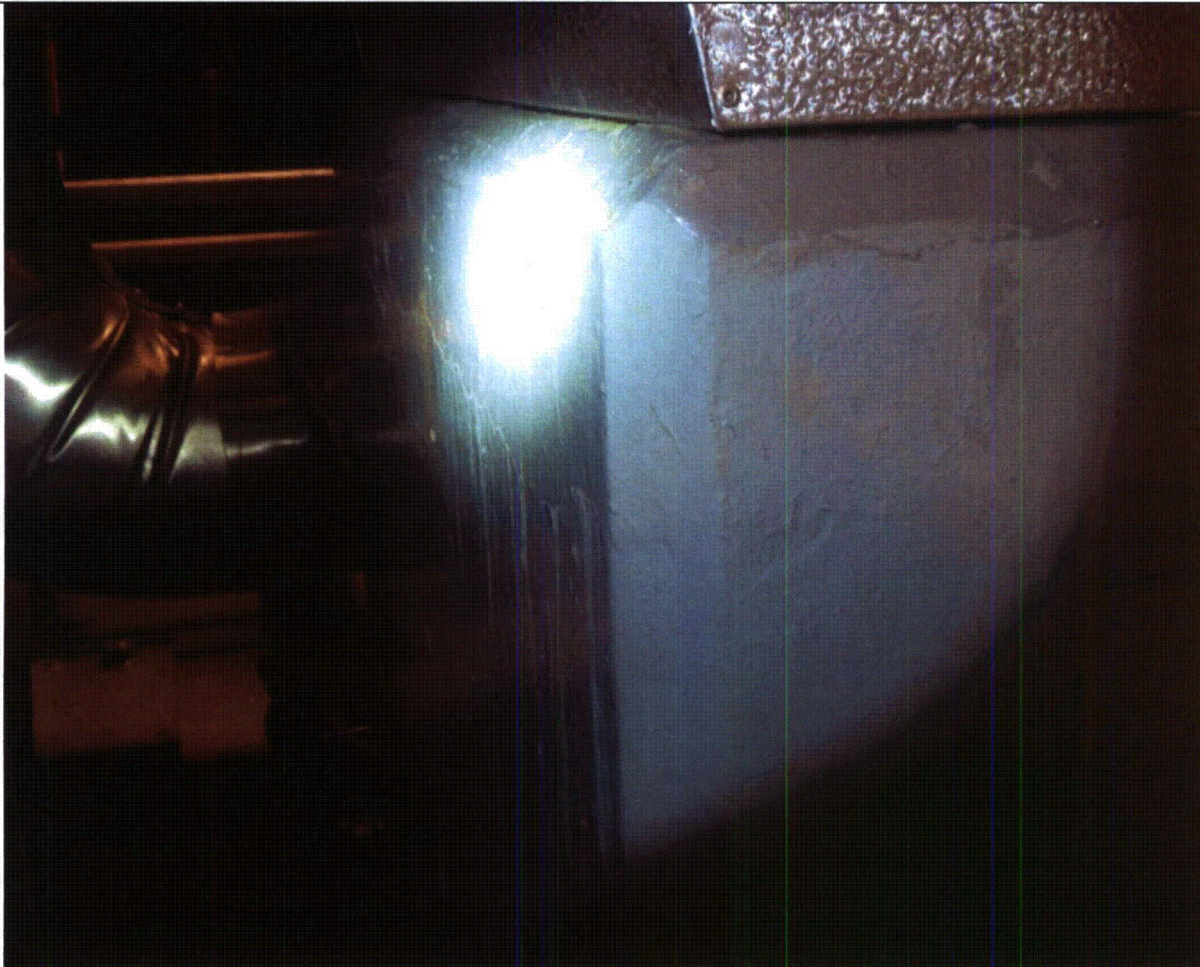
Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: EAC14

Equipment Class: (21) Tanks and Heat Exchangers

Equipment Description: SPENT FUEL POOL HEAT EXCHANGER A



ATTACHMENT 2
SEISMIC WALKDOWN CHECKLISTS

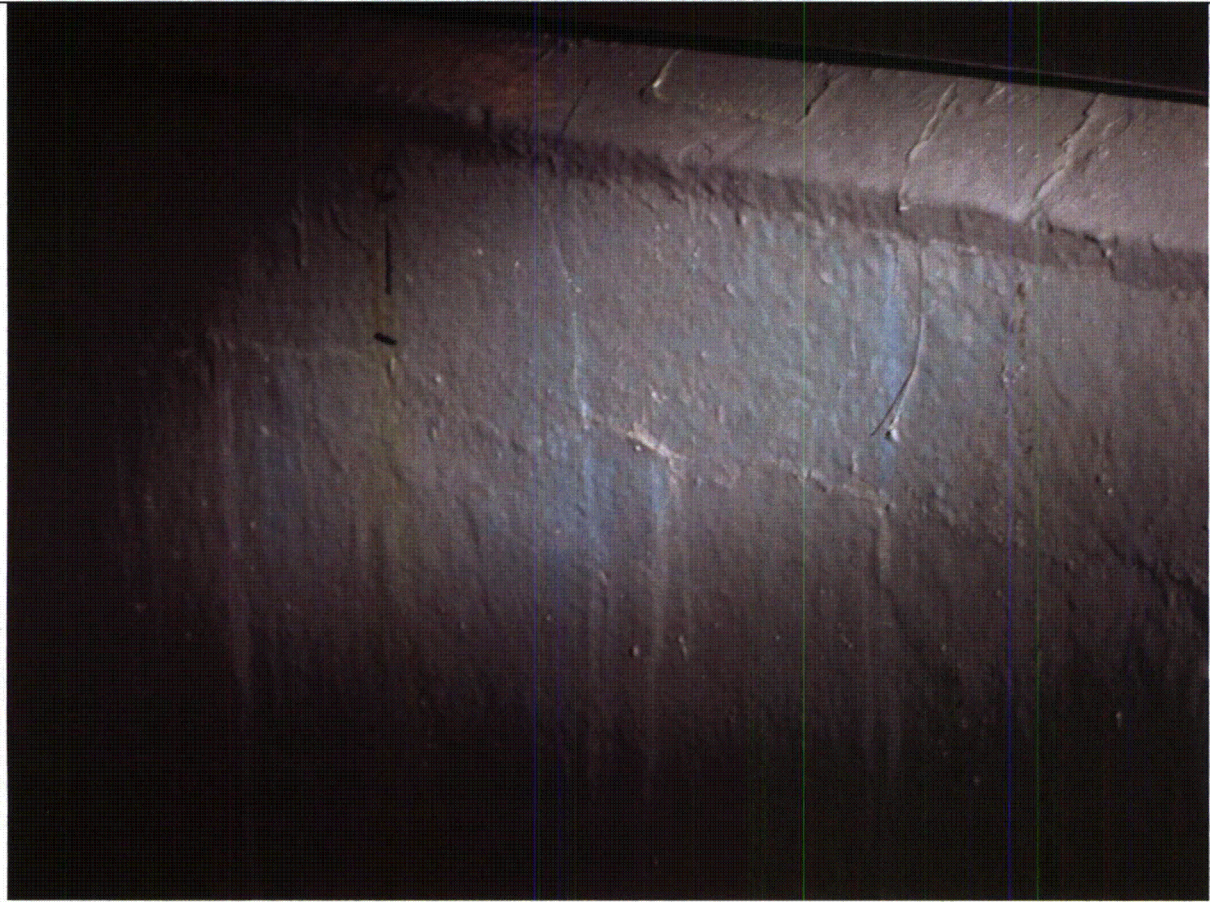
Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: EAC14

Equipment Class: (21) Tanks and Heat Exchangers

Equipment Description: SPENT FUEL POOL HEAT EXCHANGER A



ATTACHMENT 2
SEISMIC WALKDOWN CHECKLISTS

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: LT-504

Equipment Class: (18) Instruments on Racks

STEAM GENERATOR EMS01A WIDE RANGE LEVEL

Equipment Description: TRANSMITTER

Project: Ginna SWEL 1

Location (Bldg, Elev, Room/Area): Containment, Basement, North Side, 235'-0", Area 26c

Manufacturer/Model:

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 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

 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
Transmitter is mounted to steel column

 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.)

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

ATTACHMENT 2
SEISMIC WALKDOWN CHECKLISTS

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: LT-504

Equipment Class: (18) Instruments on Racks

Equipment Description: STEAM GENERATOR EMS01A WIDE RANGE LEVEL
TRANSMITTER

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
Light suspended from conduit overhead. Light appears reasonably supported. Unistrut conduit support provides protection against failure. Judged acceptable by seismic walkdown team
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 adverse seismic conditions that could adversely affect the safety functions of the equipment? Y N U
-

Comments

Evaluated by:



Date: 12/10/2012



12/10/2012

ATTACHMENT 2
SEISMIC WALKDOWN CHECKLISTS

Status: Y N U

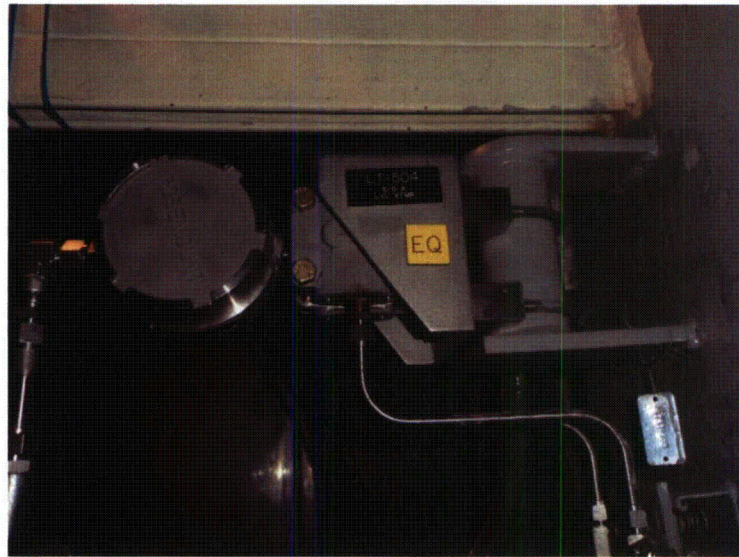
Seismic Walkdown Checklist (SWC)

Equipment ID No.: LT-504

Equipment Class: (18) Instruments on Racks

Equipment Description: STEAM GENERATOR EMS01A WIDE RANGE LEVEL
TRANSMITTER

Photos:



ATTACHMENT 2
SEISMIC WALKDOWN CHECKLISTS

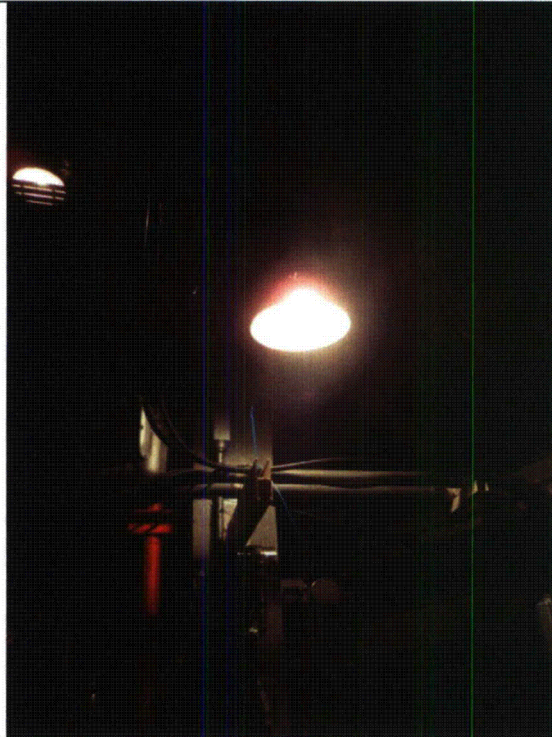
Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: LT-504

Equipment Class: (18) Instruments on Racks

Equipment Description: STEAM GENERATOR EMS01A WIDE RANGE LEVEL
TRANSMITTER



ATTACHMENT 2
SEISMIC WALKDOWN CHECKLISTS

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: PAC01B

Equipment Class: (5) Horizontal Pumps

Equipment Description: RESIDUAL HEAT REMOVAL PUMP B

Project: Ginna SWEL 1

Location (Bldg, Elev, Room/Area): Auxiliary Building Sub-basement, Area 25

Manufacturer/Model:

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 anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y N
PAC01B SEWS Rev 1, PCR-99-061, 33013-2792

 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? 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, verified replacement anchor (Maxi-Bolt) installed (IPEEE outlier)

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

ATTACHMENT 2
SEISMIC WALKDOWN CHECKLISTS

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: PAC01B

Equipment Class: (5) Horizontal Pumps

Equipment Description: RESIDUAL HEAT REMOVAL PUMP B

Interaction Effects

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

Three ladders leaning against wall adjoining pump. No ladder station provided. Inspection team laid ladders on ground to remove interaction concern. CR-2012-006918 written for trending.

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 camera has supplemental cable tie off

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 adverse seismic conditions that could adversely affect the safety functions of the equipment? Y N U
-

Comments

Evaluated by:



Date: 12/10/2012



12/10/2012

ATTACHMENT 2
SEISMIC WALKDOWN CHECKLISTS

Status: Y N U

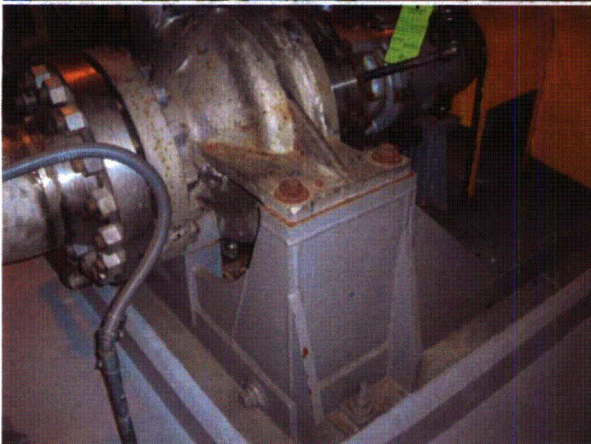
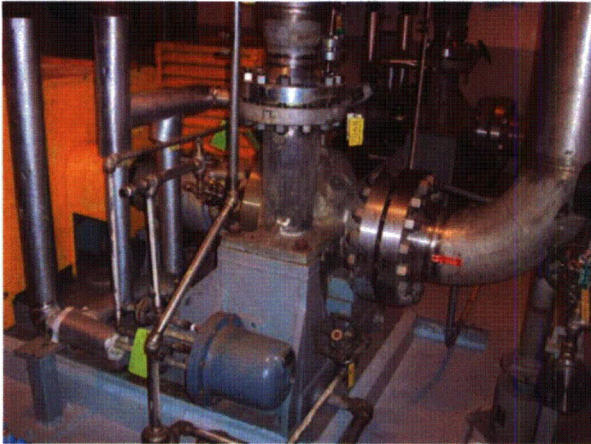
Seismic Walkdown Checklist (SWC)

Equipment ID No.: PAC01B

Equipment Class: (5) Horizontal Pumps

Equipment Description: RESIDUAL HEAT REMOVAL PUMP B

Photos



ATTACHMENT 2
SEISMIC WALKDOWN CHECKLISTS

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: PAC01B

Equipment Class: (5) Horizontal Pumps

Equipment Description: RESIDUAL HEAT REMOVAL PUMP B



ATTACHMENT 2
SEISMIC WALKDOWN CHECKLISTS

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: TSI01

Equipment Class: (21) Tanks and Heat Exchangers

Equipment Description: REFUELING WATER STORAGE TANK

Project: Ginna SWEL 1

Location (Bldg, Elev, Room/Area): Auxiliary Building, Elevations 235' to 271, Area 19

Manufacturer/Model:

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 anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y N
Supplemental Walkdown completed by Ginna personnel to inspect tank anchorage at elevation 235' and any interactions in high radiation areas. Majority of tank inspection, including collar at 271' covered under previous Seismic Walkdown Report
 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? 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.)
 6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y N U
-

ATTACHMENT 2
SEISMIC WALKDOWN CHECKLISTS

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: TSI01

Equipment Class: (21) Tanks and Heat Exchangers

Equipment Description: REFUELING WATER STORAGE TANK

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 adverse seismic conditions that could adversely affect the safety functions of the equipment? Y N U
-

Comments

Evaluated by:

Jeffrey Sankin

Date:

12/10/2012

[Signature]

12/10/2012

ATTACHMENT 2
SEISMIC WALKDOWN CHECKLISTS

Status: Y N U

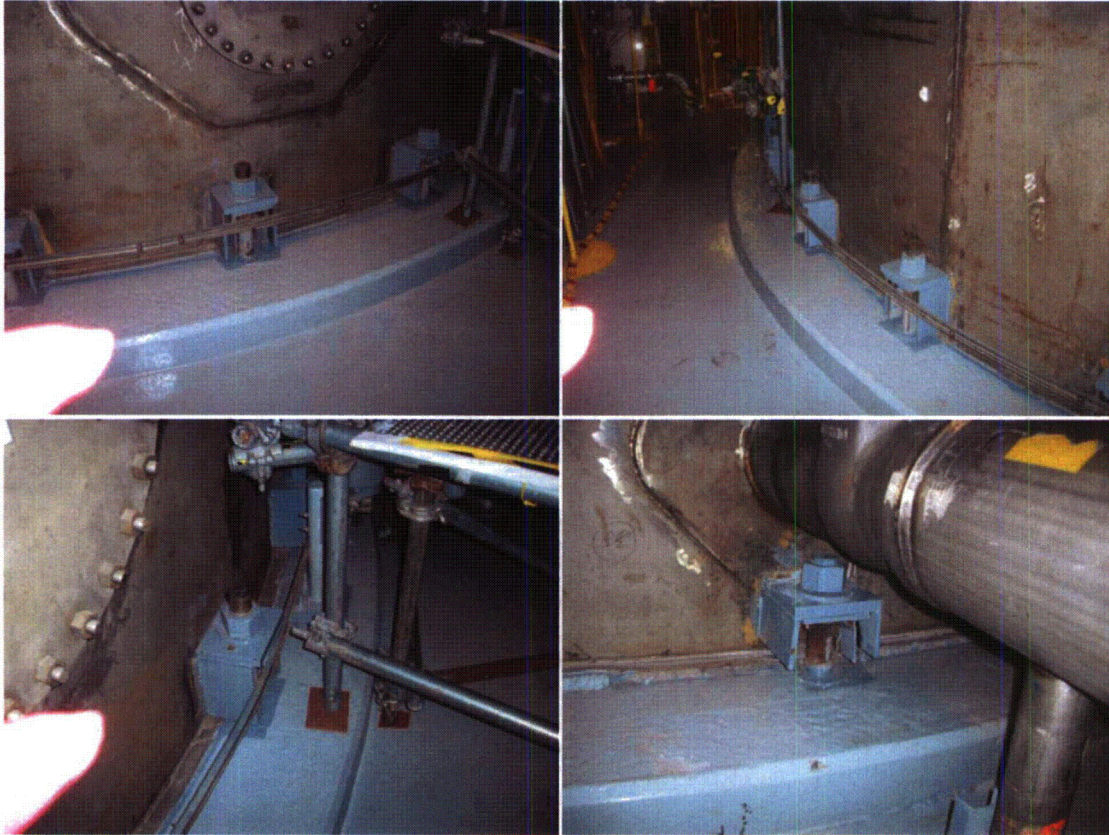
Seismic Walkdown Checklist (SWC)

Equipment ID No.: TSI01

Equipment Class: (21) Tanks and Heat Exchangers

Equipment Description: REFUELING WATER STORAGE TANK

Photos



ATTACHMENT 2
SEISMIC WALKDOWN CHECKLISTS

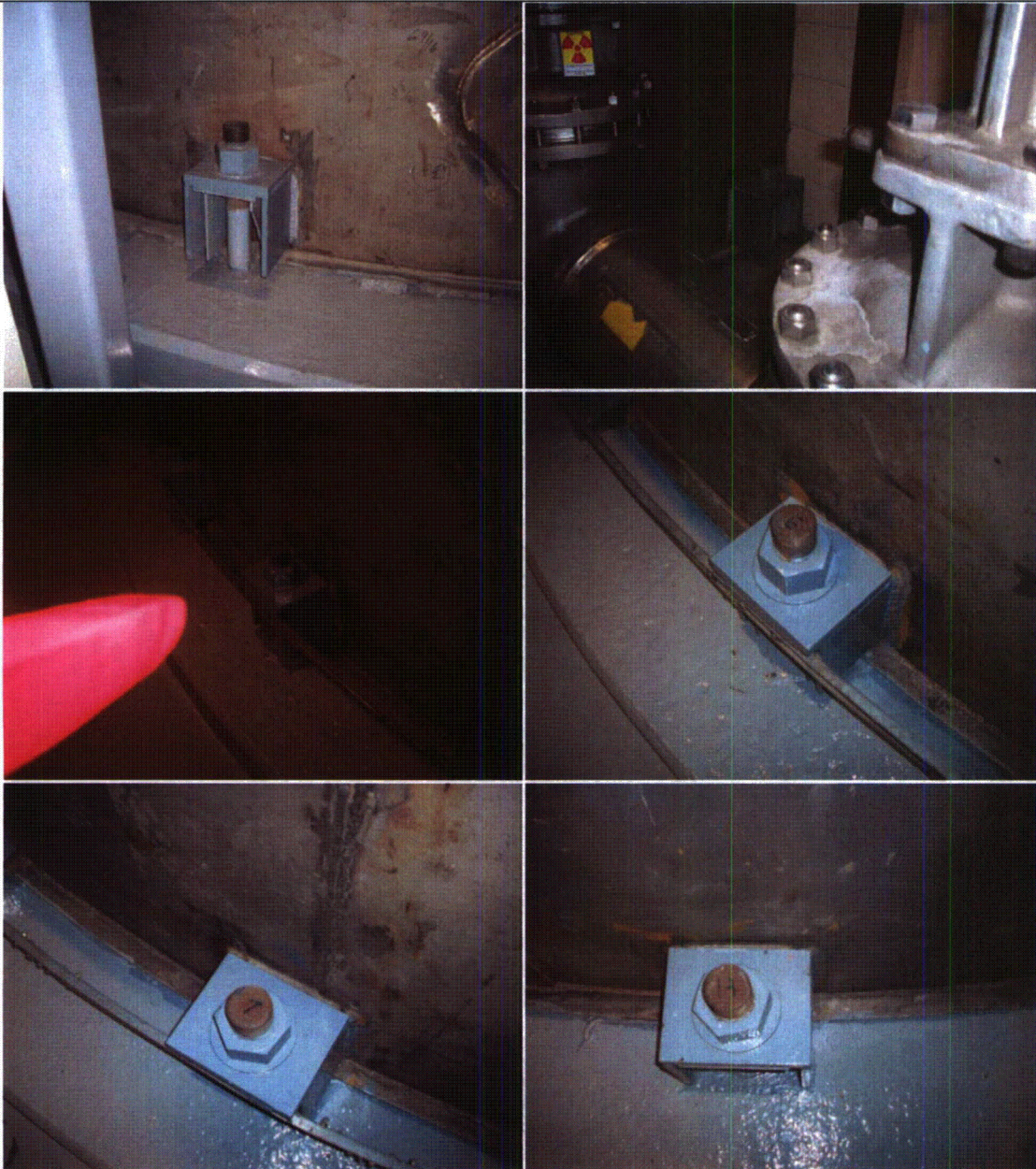
Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: TSI01

Equipment Class: (21) Tanks and Heat Exchangers

Equipment Description: REFUELING WATER STORAGE TANK



ATTACHMENT 2
SEISMIC WALKDOWN CHECKLISTS

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: TSI01

Equipment Class: (21) Tanks and Heat Exchangers

Equipment Description: REFUELING WATER STORAGE TANK



ATTACHMENT 2
SEISMIC WALKDOWN CHECKLISTS

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: TSI01

Equipment Class: (21) Tanks and Heat Exchangers

Equipment Description: REFUELING WATER STORAGE TANK



ATTACHMENT 2
SEISMIC WALKDOWN CHECKLISTS

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: TSI01

Equipment Class: (21) Tanks and Heat Exchangers

Equipment Description: REFUELING WATER STORAGE TANK



ATTACHMENT 2
SEISMIC WALKDOWN CHECKLISTS

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: TSI03A

Equipment Class: (21) Tanks and Heat Exchangers

Equipment Description: SAFETY INJECTION ACCUMULATOR A

Project: Ginna SWEL 1

Location (Bldg, Elev, Room/Area): Containment, Basement, North Side, 235'-0", Area 26c

Manufacturer/Model:

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

Verification Document: D421-0009

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

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

ATTACHMENT 2
SEISMIC WALKDOWN CHECKLISTS

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: TSI03A

Equipment Class: (21) Tanks and Heat Exchangers

Equipment Description: SAFETY INJECTION ACCUMULATOR A

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
- Carts and miscellaneous items staged around accumulator. Accumulator is robust however surrounding components are not. Walkdown performed during refueling outage when equipment is not required. Carts and other items removed from Containment via Containment Closeout Procedure. Walkdown team judged this to not be an interaction concern during modes when the accumulator is required for operation.*
-

Other Adverse Conditions

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

Comments

Evaluated by:



Date: 12/10/2012



12/10/2012

ATTACHMENT 2
SEISMIC WALKDOWN CHECKLISTS

Status: Y N U

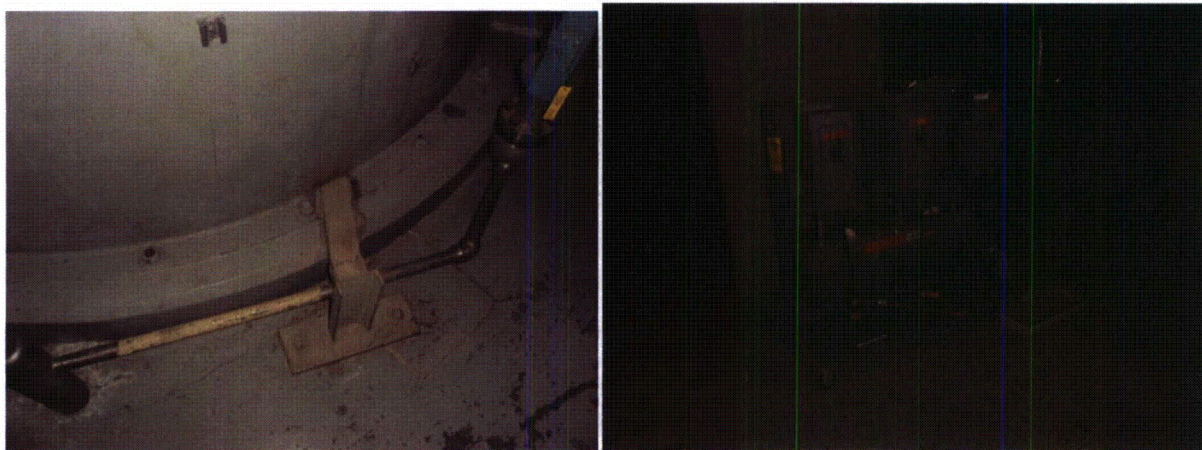
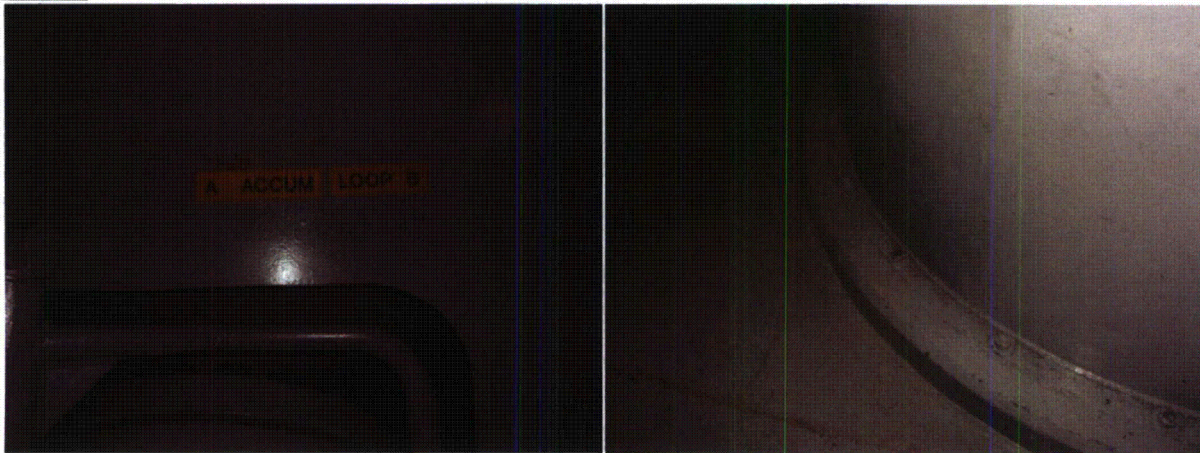
Seismic Walkdown Checklist (SWC)

Equipment ID No.: TSI03A

Equipment Class: (21) Tanks and Heat Exchangers

Equipment Description: SAFETY INJECTION ACCUMULATOR A

Photos



ATTACHMENT 2
SEISMIC WALKDOWN CHECKLISTS

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: TT-2139 (Alternate train for TT-2145)

Equipment Class: (19) Temperature Sensors

Equipment Description: CRFC A AIR INLET TEMPERATURE

Project: Ginna SWEL 1

Location (Bldg, Elev, Room/Area): Containment, Intermediate Level, North Side, 253'-0", Area 26d

Manufacturer/Model:

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 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

 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

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

ATTACHMENT 2
SEISMIC WALKDOWN CHECKLISTS

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: TT-2139 (Alternate train for TT-2145)

Equipment Class: (19) Temperature Sensors

Equipment Description: CRFC A AIR INLET TEMPERATURE

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?
Temperature transmitter is protected by platform grating above 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 adverse seismic conditions that could adversely affect the safety functions of the equipment? Y N U
-

Comments

Evaluated by:



Date: 12/10/2012



12/10/2012

ATTACHMENT 2
SEISMIC WALKDOWN CHECKLISTS

Status: Y N U

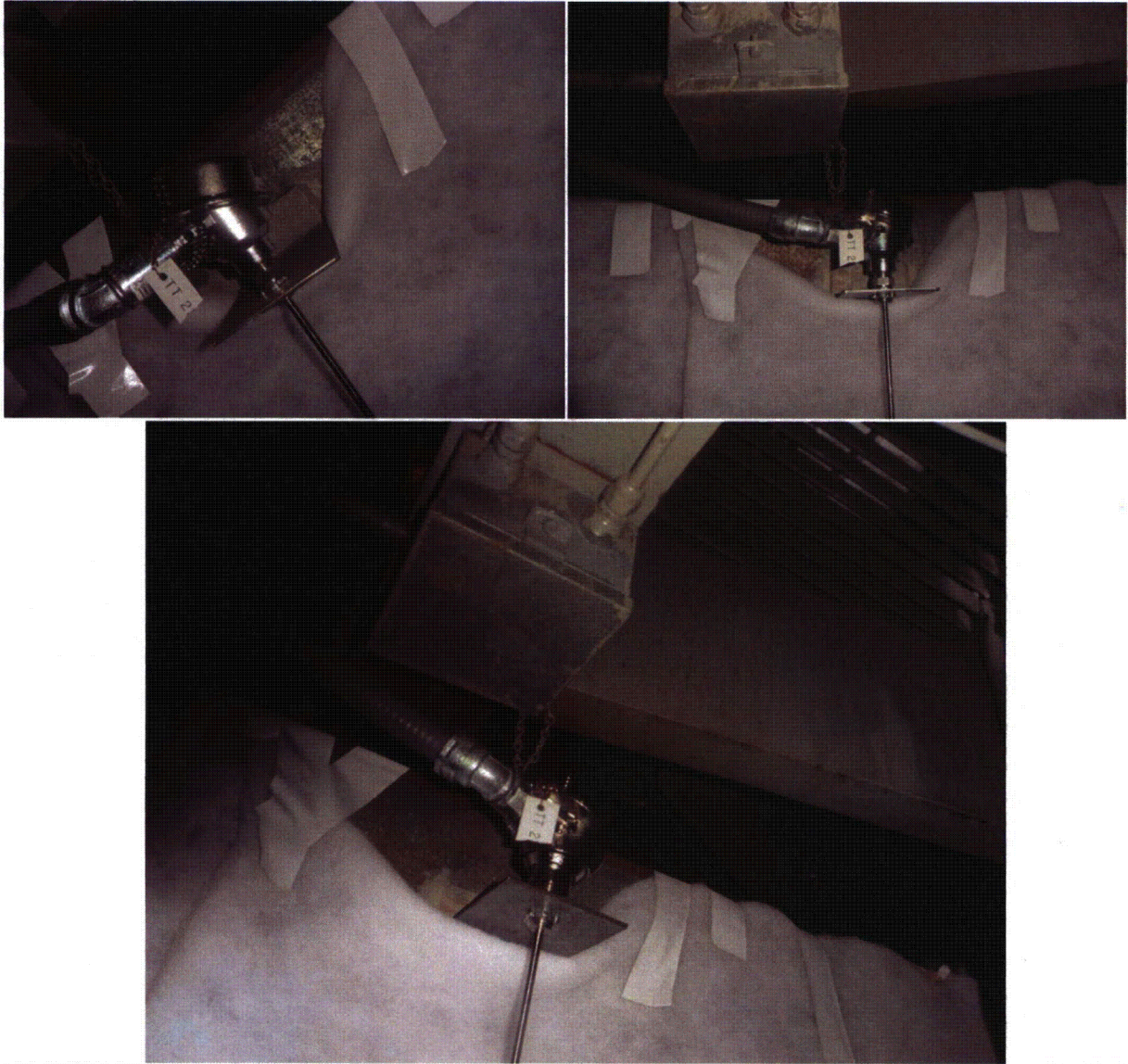
Seismic Walkdown Checklist (SWC)

Equipment ID No.: TT-2139 (Alternate train for TT-2145)

Equipment Class: (19) Temperature Sensors

Equipment Description: CRFC A AIR INLET TEMPERATURE

Photos



ATTACHMENT 2
SEISMIC WALKDOWN CHECKLISTS

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: TT-2140 (Alternate train for TT-2146)

Equipment Class: (19) Temperature Sensors

Equipment Description: CRFC A AIR OUTLET TEMPERATURE

Project: Ginna SWEL 1

Location (Bldg, Elev, Room/Area): Containment, Intermediate Level, North Side, 253'-0", Area 26d

Manufacturer/Model:

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 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

 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

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

ATTACHMENT 2
SEISMIC WALKDOWN CHECKLISTS

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: TT-2140 (Alternate train for TT-2146)

Equipment Class: (19) Temperature Sensors

Equipment Description: CRFC A AIR OUTLET TEMPERATURE

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?
Temperature transmitter is protected by platform grating above 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 adverse seismic conditions that could adversely affect the safety functions of the equipment? Y N U

Comments

Evaluated by:



Date: 12/10/2012



12/10/2012

ATTACHMENT 2
SEISMIC WALKDOWN CHECKLISTS

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: TT-2140 (Alternate train for TT-2146)

Equipment Class: (19) Temperature Sensors

Equipment Description: CRFC A AIR OUTLET TEMPERATURE

Photos



ATTACHMENT 2
SEISMIC WALKDOWN CHECKLISTS

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: VFD/CHP1B

Equipment Class: (20) Instrumentation and Control Panels and Cabinets

Equipment Description: CHARGING PUMP 1B MOTOR VFD

Project: Ginna SWEL 1

Location (Bldg, Elev, Room/Area): Auxiliary Building, 235.00 ft, Area 27

Manufacturer/Model: _____

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

Reference ECP-11-000788, drawing SK-059186-C-010, Sheets 1 & 2

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

Team concerned with large exposed thread length. Anchors stamped "R" (10" to 11" long with 4-1/2" exposed. Minimum required embedment is 4-3/4", condition is acceptable as is

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.)

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

ATTACHMENT 2
SEISMIC WALKDOWN CHECKLISTS

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: VFD/CHP1B

Equipment Class: (20) Instrumentation and Control Panels and Cabinets

Equipment Description: CHARGING PUMP 1B MOTOR VFD

Interaction Effects

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

Ductwork and newly installed conduit well supported

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

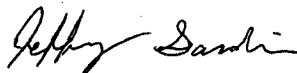
Other Adverse Conditions

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

Internal inspection: Clean, recently installed cabinet with no signs of supplemental modifications

Comments

Evaluated by:



Date: 12/10/2012



Date: 12/10/2012

ATTACHMENT 2
SEISMIC WALKDOWN CHECKLISTS

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: VFD/CHP1B

Equipment Class: (20) Instrumentation and Control Panels and Cabinets

Equipment Description: CHARGING PUMP 1B MOTOR VFD

Photos



ATTACHMENT 2
SEISMIC WALKDOWN CHECKLISTS

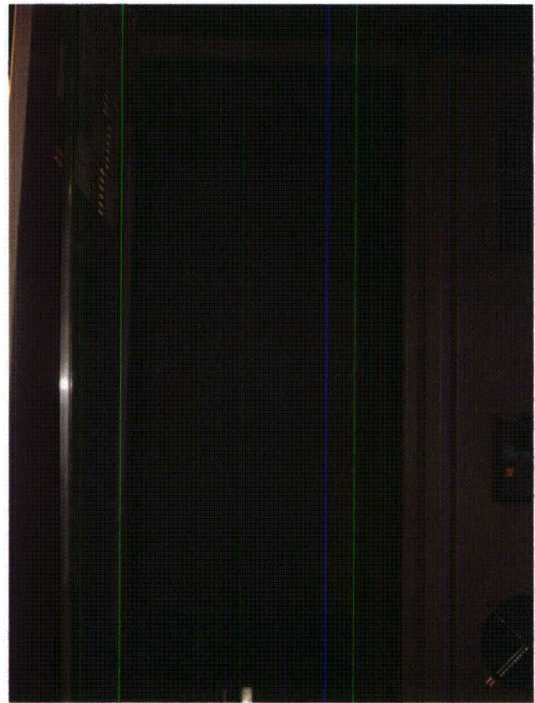
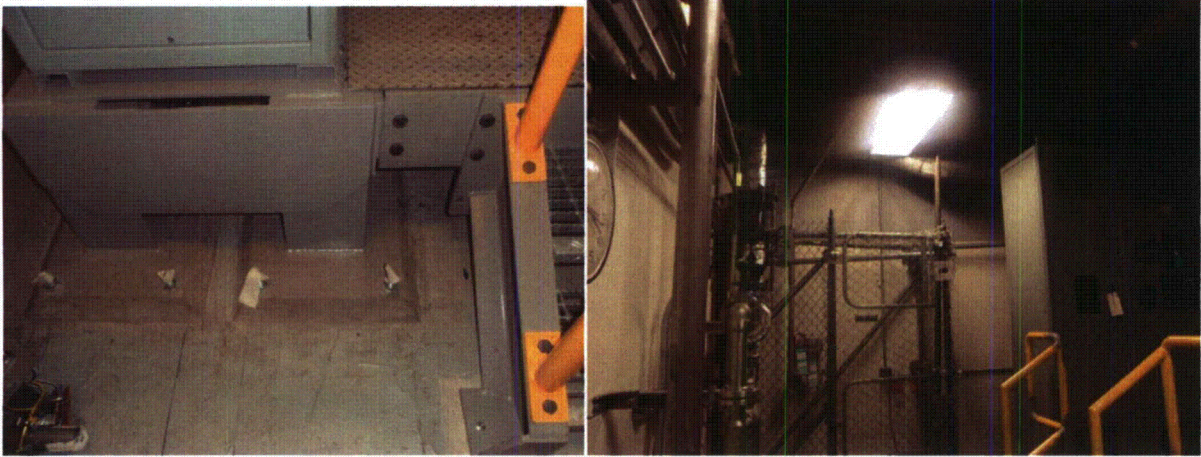
Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: VFD/CHP1B

Equipment Class: (20) Instrumentation and Control Panels and Cabinets

Equipment Description: CHARGING PUMP 1B MOTOR VFD



ATTACHMENT 2
SEISMIC WALKDOWN CHECKLISTS

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No.: VFD/CHP1B

Equipment Class: (20) Instrumentation and Control Panels and Cabinets

Equipment Description: CHARGING PUMP 1B MOTOR VFD

